

**4.750.042 BASE RATES (in dollars)****MT 750 - SALES AREA**

ST Code	Structure	Size 1 (0-49)		Size 2 (50-249)		Size 3 (250-699)		Size 4 (700 & over)	
		K	AR	K	AR	K	AR	K	AR
61	Main Level & Concrete Slab	6 600	390	14 800	227	24 800	182	44 500	158
91	Sales Area Finish	1200	84	1 600	77	2 100	75	2 800	74

**MT 751 - BAYS  
(Average Size Per Bay)**

ST Code	Structure	Size 1 (0-49)		Size 2 (50 & over)	
		K	AR	K	AR
61	Main Level & Concrete Slab	1 600	171	3 700	131
90	Warehouse Finish	100	26	100	24

ST Code 61 designates the base structure of a main level with a concrete slab on grade.

ST Code 90 designates typical warehouse interior finish for this classification on a per bay basis.

ST Code 91 designates typical sales areas interior finish for this classification and usually includes limited office space.

Total Base Rates are produced when base structure Base Rates are combined with applicable interior finish Base Rates.

**Note:** MT 751, Service Station Bays, is a structure which is meant to be attached to a Service Station Sales Area. The base structure Base Rates for MT 751 have been designed accordingly.

**4.750.043 MODULE RATES (in dollars)****Concrete Slab on Grade - Sales Area  
(MT 750 QU 04 ST 50)**

Code	Component	Size 1 (0-49)		Size 2 (50-249)		Size 3 (250-699)		Size 4 (700 & over)	
		K	AR	K	AR	K	AR	K	AR
0300	Excavation	70	8.20	180	6.10	370	5.30	600	5.00
0702	Piles	480	25.00	1200	10.60	2 450	5.60	4 010	3.30
0922	Concrete Pads	0	0.00	0	0.00	-350	2.90	-710	3.40
1123	Grade Beams	840	44.00	2100	18.60	4 310	9.80	7 050	5.90
1524	Concrete Slab	0	16.80	0	16.80	0	16.80	0	16.80
6104	Plumbing Basic	30	2.10	80	1.20	150	0.90	250	0.80
6504	Heating	110	7.50	280	4.20	540	3.20	870	2.70
6704	Electrical Basic	90	6.20	230	3.40	440	2.60	720	2.30
	Miscellaneous	30	2.20	80	1.20	160	1.00	260	0.80
	Architect Fees	80	5.60	210	3.10	410	2.40	660	2.10
	<b>Total:</b>	<b>1 730</b>	<b>117.60</b>	<b>4 360</b>	<b>65.20</b>	<b>8 480</b>	<b>50.50</b>	<b>13 710</b>	<b>43.10</b>

**4.750.043 MODULE RATES (in dollars)****Concrete Slab on Grade - Bays**

(MT 751 QU 04 ST 50) - per bay

Code	Component	Size Ranges - m <sup>2</sup>		Size 1 (0-49)		Size 2 (50 & over)	
		K	AR	K	AR	K	AR
0300	Excavation	20		5.40		40	4.90
0702	Piles	120		6.20		300	2.60
1123	Grade Beams	210		11.00		520	4.70
1536	Concrete Slab	0		23.80		0	23.80
6104	Plumbing Basic	10		1.10		20	0.80
6504	Heating	30		3.70		70	2.90
6704	Electrical Basic	20		3.00		60	2.40
	Miscellaneous	10		1.10		20	0.90
	Architect Fees	20		2.80		50	2.20
<b>Total:</b>		<b>440</b>		<b>58.10</b>		<b>1080</b>	<b>45.20</b>

**Main Level Base Structure - Sales Area**

(MT 750 QU 04 ST 60)

Code	Component	Size Ranges - m <sup>2</sup>		Size 1 (0-49)		Size 2 (50-249)		Size 3 (250-699)		Size 4 (700 & over)	
		K	AR	K	AR	K	AR	K	AR	K	AR
0100	Sitework	500	0.00	500	1.00	500	0.90	500	0.80		
1704	Columns	0	0.00	0	0.00	-150	1.20	-300	1.50		
1902	Beams	0	0.00	0	0.00	-560	5.70	-970	6.30		
2546	Base Wall Constr.	2 660	139.50	6 670	59.00	13 660	31.10	22 350	18.60		
2703	Ext. Wall Finish	270	14.00	670	5.90	1 370	3.10	2 240	1.90		
2951	Base Roof Constr.	0	23.50	0	23.50	0	23.50	0	23.50		
3313	Roof Finish	0	22.80	0	22.80	0	22.80	0	22.80		
6104	Plumbing Basic	150	7.10	250	4.90	420	4.30	640	4.00		
6504	Heating	520	24.90	890	17.40	1 490	15.30	2 260	14.20		
6704	Electrical Basic	420	20.40	730	14.30	1230	12.60	1 860	11.70		
	Miscellaneous	150	7.40	270	5.20	450	4.60	680	4.20		
	Architect Fees	240	13.10	500	7.80	930	6.30	1 480	5.60		
<b>Total:</b>		<b>4 910</b>	<b>272.70</b>	<b>10 480</b>	<b>161.80</b>	<b>19 340</b>	<b>131.40</b>	<b>30 740</b>	<b>115.10</b>		

**Main Level Base Structure - Bays**

(MT 751 QU 04 ST 60) - per bay

Code	Component	Size Ranges - m <sup>2</sup>		Size 1 (0-49)		Size 2 (50 & over)	
		K	AR	K	AR	K	AR
0100	Sitework	0	0.00	0	1.00		
2546	Base Wall Constr.	650	34.80	1 660	14.80		
2703	Ext. Wall Finish	70	3.50	170	1.50		
2951	Base Roof Constr.	0	23.50	0	23.50		
3313	Roof Finish	0	22.80	0	22.80		
6104	Plumbing Basic	50	2.70	70	2.20		
6504	Heating	160	9.40	260	7.60		
6704	Electrical Basic	130	7.70	210	6.30		
	Miscellaneous	50	2.80	80	2.30		
	Architect Fees	60	5.40	120	4.20		
<b>Total:</b>		<b>1170</b>	<b>112.60</b>	<b>2 570</b>	<b>86.20</b>		

**4.750.043 MODULE RATES (in dollars)****Sales Area Finish**

(MT 750 QU 04 ST 91) - finish height - 2.4 m

Code	Component	Size Ranges - m <sup>2</sup>		Size 1 (0-49)		Size 2 (50-249)		Size 3 (250-699)		Size 4 (700 & over)	
		K	AR	K	AR	K	AR	K	AR		
4102	Int. Wall Finish	160	8.30	400	3.50	820	1.90	1 330	1.10		
4337	Partitions 0	23.20	0	23.20	0	23.20	0	23.20			
4533	Ceiling Finish	0	11.00	0	11.00	0	11.00	0	11.00	0	11.00
4712	Interior Doors	980	0.40	980	0.40	980	0.40	980	0.40	980	0.40
4903	Baseboards & Trim	40	2.30	110	1.00	220	0.50	360	0.30		
5103	Floor Finish	0	18.50	0	18.50	0	18.50	0	18.50	0	18.50
6905	Electric. Fixtures	0	16.00	0	16.00	0	16.00	0	16.00	0	16.00
	Architect Fees	60	4.00	80	3.70	100	3.60	130	3.60		
	<b>Total:</b>	<b>1240</b>	<b>83.70</b>	<b>1 570</b>	<b>77.30</b>	<b>2 120</b>	<b>75.10</b>	<b>2 800</b>	<b>74.10</b>		

**Warehouse Finish - Bays**

(MT 751 QU 04 ST 90) - per bay - finish height - 2.4 m

Code	Component	Size Ranges - m <sup>2</sup>		Size 1 (0-49)		Size 2 (50 & over)	
		K	AR	K	AR	K	AR
4102	Int. Wall Finish	50	2.60	120	1.10		
4500	Ceiling Finish	0	4.40	0	4.40		
5179	Floor Finish	0	4.70	0	4.70		
6904	Electric. Fixtures	0	13.00	0	13.00		
	Architect Fees	10	1.20	10	1.20		
	<b>Total:</b>	<b>60</b>	<b>25.90</b>	<b>130</b>	<b>24.40</b>		

**4.750.044 PRECALCULATED ADJUSTMENTS (in dollars)****Height - Sales Area**

per metre of height - add or deduct

Component	Size Ranges - m <sup>2</sup>		Size 1 (0-49)		Size 2 (50-249)		Size 3 (250-699)		Size 4 (700 & over)	
	K	AR	K	AR	K	AR	K	AR	K	AR
Exterior Wall										
Base Wall Constr.	890	46.50	2 220	19.70	4 550	10.40	7 450	6.20		
Ext. Wall Finish	90	4.70	220	2.00	460	1.00	750	0.60		
Interior Columns	0	0.00	0	0.00	-40	0.40	-90	0.50		
Plumbing Basic	20	1.10	50	0.50	110	0.30	180	0.20		
Heating 80	4.10	190	1.70	400	0.90	650	0.60			
Electrical Basic	70	3.60	170	1.50	350	0.80	570	0.50		
<b>Total:</b>	<b>1 150</b>	<b>60.00</b>	<b>2 850</b>	<b>25.40</b>	<b>5 830</b>	<b>13.80</b>	<b>9 510</b>	<b>8.60</b>		
Int. Wall Finish	70	3.50	170	1.50	340	0.80	560	0.50		

**4.750.044 PRECALCULATED ADJUSTMENTS (in dollars)****Height - Bays**per metre of height - **add or deduct per bay**

Size Ranges - m <sup>2</sup>	Size 1 (0-49)		Size 2 (50 & over)	
	K	AR	K	AR
Exterior Wall				
Base Wall Constr.	220	11.60	550	4.90
Ext. Wall Finish	20	1.20	60	0.50
Plumbing Basic	10	0.30	10	0.10
Heating 20	1.00	50	0.40	
Electrical Basic	20	0.90	40	0.40
<b>Total:</b>	<b>290</b>	<b>15.00</b>	<b>710</b>	<b>6.30</b>
Int. Wall Finish	20	0.90	40	0.40

**Plumbing**per fixture - **add \$ 470.00****Spans**

(for each metre more or less than 6.1 m)

roof along joists - **add or deduct \$ 1.60 per m<sup>2</sup> of area**roof along beam - **add or deduct \$ 0.80 per m<sup>2</sup> of area****4.750.045 UNIT COST ADJUSTMENTS****Windows**average double glazed aluminum window, per m<sup>2</sup> - **add \$ 182.00**average clear single glazed aluminum framing system, per m<sup>2</sup> - **add \$136.00**average clear sealed unit aluminum framing system, per m<sup>2</sup> - **add \$172.00****Doors, Exterior**average clear aluminum door, EA - **add \$ 670.00**average hollow steel, EA - **add \$ 480.00**overhead wood sectional door, per m<sup>2</sup> - **add \$ 100.00**overhead aluminum sectional fully glazed, per m<sup>2</sup> - **add \$ 166.00****Wall Openings**

(areas replaced by doors and windows)

unit masonry or wood frame wall systems - **deduct 60% of wall cost****Note:** Wall Cost (as per Component Description)

2546 Base Wall Construction	\$ 77.70
2703 Exterior Wall Finish	7.80
4102 Interior Wall Finish	<u>5.70</u>
<b>Total:</b>	m <sup>2</sup> <b>\$ 91.30</b>

**4.750.046 GENERAL INFORMATION**

The Base Cost of a building is calculated by applying appropriate Total Base Rates to the building's floor areas.

Total Base Cost is produced when the Base Cost is combined with applicable height adjustments.

Base structure designates a structure excluding interior finish.

To calculate average size per bay, divide the total bay floor area by the number of bays.

Determine floor areas from exterior measurements.

For Perimeter and/or Design adjustments see section 1.160.000.

For Overall Structural Height adjustments see section 1.170.000.

Assume concrete block back-up for brick variations, thereby giving obsolescence to older type buildings.

An adjustment for Architect Fees must be made against any cost adjustments attributable to variations from Model Type specifications.

**4.760.050 MODEL TYPE 760  
QUALITY 05**

**SERVICE STATION KIOSK - SEMI CUSTOM**

**4.760.051 GENERAL DESCRIPTION**

**Wall Heights**

**Architect Fees:** 5.6 %                      **Exterior Wall - Main** 3.0 m  
**Window Area:** 40.0 %

**COMPONENT DESCRIPTION**

- Concrete Slab** - 150 mm medium reinforced precast slab with a steel perimeter channel
- Framing** - bearing walls
- Base Wall Construction** - wood framing, sheathing, insulation; bullet resistant cashier area
- Exterior Wall Finish** - insulated painted metal panels
- Base Roof Construction** - wood joists and deck system
- Roof Finish** - rigid insulation, 3-ply built-up or equivalent
- Windows** - good clear sealed unit aluminum framing system
- Exterior Doors - Front** - three good to expensive aluminum  
    **- Rear** - one good hollow steel
- Interior Wall Finish** - prefinished paneling
- Partitions** - prefinished paneling; bullet resistant cashier area
- Ceiling Finish** - suspended panels
- Interior Doors** - average hollow core wood
- Baseboards & Trim** - average to good quality
- Floor Finish** - colored floor hardener
- Plumbing Basic** - average •
- Heating** - average to good forced air and air conditioning
- Electrical Basic** - average to good wiring
- Electrical Fixtures** - average to good lighting

**4.760.052 BASE RATES (in dollars)**

		All Sizes - m <sup>2</sup>	
ST		K	AR
Code	Structure		
61	Main Level & Concrete Slab	10 000	650

ST Code 61 designates a service station kiosk with a concrete slab on grade.

**Note:** These structures are normally pre-built and transported to site.

**4.760.053 INSTALLATIONS**

Concrete Slab	m <sup>2</sup>	\$	72.00
Base Wall Construction including metal panels	m <sup>2</sup>		60.00
Base Roof Construction including finish	m <sup>2</sup>		59.00
Windows	m <sup>2</sup>		184.00
Exterior Doors - Front	EA		1 100.00
- Rear	EA		620.00
Interior Wall Finish	m <sup>2</sup>		30.00
Partitions	m <sup>2</sup>		38.00
Ceiling Finish	m <sup>2</sup>		11.00
Interior Doors	EA		320.00
Floor Finish	m <sup>2</sup>		4.00
Plumbing Basic 7.5% of Total Base Cost			
Heating & Air Conditioning Unit	EA		3 400.00
Electrical Basic including fixtures 6.5% of Total Base Cost			
Counters, average 3.3 m	EA		1 090.00
Extra features: 1 exhaust fan	EA		180.00
0.8 kW air compressor	EA		1 300.00
wall mounted tire • inflator	EA		850.00

**4.760.054 PRECALCULATED ADJUSTMENTS**

<b>Height</b>			
per metre of height - <b>add or deduct K</b>	<b>\$ 600.00</b>		
	<b>AR</b>	<b>\$ 40.00</b>	
<b>Walls, Exterior</b>			
good face brick, per m <sup>2</sup> - <b>add \$ 81.00</b>			
precast flat exposed aggregate panels, per m <sup>2</sup> - <b>add \$ 92.00</b>			
uninsulated painted metal panels, per m <sup>2</sup> - <b>deduct \$ 7.00</b>			
<b>Eaves</b>			
300 mm wide x 600 mm high prefinished aluminum soffit and fascia, per m - <b>add \$ 44.00</b>			
each additional 300 mm width, per m - <b>add \$ 26.00</b>			
<b>Plumbing</b>			
per fixture - <b>add \$ 470.00</b>			
<b>Heat</b>			
electric wall furnaces - <b>deduct \$ 1 400.00</b>			
nil air conditioning - <b>deduct \$ 1 850.00</b>			

**4.760.056 GENERAL INFORMATION**

Total Base Cost is produced when the Base Cost is combined with applicable height adjustments.

An adjustment for Architect Fees must be made against any cost adjustments attributable to variations from Model Type specifications.

**4.762.030 MODEL TYPE 762  
QUALITY 03**

**SERVICE STATION CANOPY - FAIR**

**4.762.031 GENERAL DESCRIPTION**

**Architect Fees: 4.1**

**COMPONENT DESCRIPTION**

**Concrete Pads** - reinforced  
**Framing** - wood frame on pipe or wood columns  
**Base Roof Construction** - wood joists and deck  
**Roof Finish** - 3-ply built-up  
**Fascia** - aluminum or painted plywood; 0.6 metre height  
**Ceiling Finish** - painted plywood  
**Electrical Basic** - fair wiring  
**Electrical Fixtures** - fair lighting

**4.762.032 BASE RATES (in dollars)**

ST Code	Structure	All Sizes - m <sup>2</sup>	
		K	AR
60	Main Level	400	95

ST Code 60 designates a detached service station canopy.

**4.762.033 INSTALLATIONS**

Ceiling Finish	m <sup>2</sup>	\$ 13.40
Electrical Basic	K	100.00
	AR	10.00
Electrical Fixtures	m <sup>2</sup>	5.00

**4.762.034 PRECALCULATED ADJUSTMENTS**

<b>Canopy</b>		
attached to another structure - deduct	K	\$ 150.00
	AR	\$ 3.00



**4.762.035 UNIT COST ADJUSTMENTS**

**Dispenser Island**  
per m<sup>2</sup> - add \$ **60.00**

**Concrete Apron**  
per m<sup>2</sup> - add \$ **27.50**

**4.762.036 GENERAL INFORMATION**

An adjustment for Architect Fees must be made against any cost adjustments attributable to variations from Model Type specifications.

**4.762.040 MODEL TYPE 762  
QUALITY 04**

**SERVICE STATION CANOPY - STANDARD**

**4.762.041 GENERAL DESCRIPTION**

Architect Fees: 4.8 %

**COMPONENT DESCRIPTION**

**Piles** - reinforced concrete

**Framing** - steel or glue laminated columns and beams or equivalent

**Base Roof Construction** - open web steel joists, steel decking or wood truss joists with wood decking

**Roof Finish** - 3-ply built-up

**Fascia** - painted metal or aluminum; one metre height

**Ceiling Finish** - painted metal or aluminum

**Electrical Basic** - average wiring

**Electrical Fixtures** - average lighting; open or recessed fluorescent fixtures

**4.762.042 BASE RATES (in dollars)**

ST Code	Structure	All Sizes - m <sup>2</sup>	
		K	AR
60	Main Level	1 000	160

ST Code 60 designates a detached service station canopy.

**4.762.043 INSTALLATIONS**

**BASE STRUCTURE**

Ceiling Finish	m <sup>2</sup>	\$ 32.00
Fascia	m <sup>2</sup>	66.00
Electrical Basic	K	100.00
	AR	12.00
Electrical Fixtures	m <sup>2</sup>	15.50

**4.762.044 PRECALCULATED ADJUSTMENTS**

**Fascia**

per metre of height - add or deduct K \$ 1 400.00  
AR \$ 13.00

**Canopy**

attached to another structure - deduct K \$ 400.00  
AR \$ 2.00

**4.762.045 UNIT COST ADJUSTMENTS**

**Dispenser Island**

per m<sup>2</sup> - add \$ 97.00

**Concrete Apron**

per m<sup>2</sup> - add \$ 40.00

**Convex Mirror**

EA - add \$ 225.00

**Fascia Lighting**

fluorescent strip with acrylic lamp enclosures, per m - add \$ 138.00

**4.762.046 GENERAL INFORMATION**

An adjustment for Architect Fees must be made against any cost adjustments attributable to variations from Model Type specifications.

**4.762.050 MODEL TYPE 762  
QUALITY 05**

**SERVICE STATION CANOPY - SEMI CUSTOM**

**4.762.051 GENERAL DESCRIPTION**

Architect Fees: 5.6 %

**COMPONENT DESCRIPTION**

**Piles** - reinforced concrete or concrete spread pad footings

**Framing** - steel columns and beams

**Base Roof Construction** - open web steel joists, steel decking or wood stress skin panels

**Roof Finish** - 3-ply built-up

**Fascia** - painted metal or aluminum; 1.2 metre height

**Ceiling Finish** - painted metal or aluminum

**Electrical Basic** - average to good wiring

**Electrical Fixtures** - average to good lighting; mercury vapor or high pressure sodium fixtures

**4.762.052 BASE RATES (in dollars)**

ST Code	Structure	All Sizes - m <sup>2</sup>	
		K	AR
60	Main Level	2 000	190

ST Code 60 designates a detached service station canopy.

**4.762.053 INSTALLATIONS**

Ceiling Finish	m <sup>2</sup>	\$ 32.00
Fascia	m <sup>2</sup>	66.00
Electrical Basic	K	100.00
	AR	12.00
Electrical Fixtures	m <sup>2</sup>	26.50

**4.762.054 PRECALCULATED ADJUSTMENTS**

**Fascia**

per metre of height - add or deduct K	\$ 1 200.00
AR	\$ 14.00

**Canopy**

attached to another structure - deduct K	\$ 460.00
AR	\$ 2.20

**4.762.055 UNIT COST ADJUSTMENTS**

**Dispenser Island**

per m<sup>2</sup> - add \$ 97.00

**Concrete Apron**

per m<sup>2</sup> - add \$ 40.00

**Convex Mirror**

EA - add \$ 225.00

**Fascia Lighting**

fluorescent strip with acrylic lamp enclosures, per m - add \$ 138.00

**4.762.056 GENERAL INFORMATION**

An adjustment for Architect Fees must be made against any cost adjustments attributable to variations from Model Type specifications.

**4.762.060 MODEL TYPE 762  
QUALITY 06**

**SERVICE STATION CANOPY - CUSTOM**

**4.762.061 GENERAL DESCRIPTION**

Architect Fees: 7.0 %

**COMPONENT DESCRIPTION**

**Piles** - reinforced concrete or concrete spread pad footings  
**Framing** - steel columns and beams boxed with painted metal or aluminum  
**Base Roof Construction** - open web steel joists, steel decking or wood stress skin panels  
**Roof Finish** - 3-ply built-up  
**Fascia** - painted metal or aluminum integrated fascia and soffit; 1.2 metre height  
**Ceiling Finish** - metal or aluminum with baked on finish  
**Electrical Basic** - good wiring  
**Electrical Fixtures** - good lighting; mercury vapor or high pressure sodium fixtures

**4.762.062 BASE RATES (in dollars)**

ST Code	Structure	All Sizes - m <sup>2</sup>	
		K	AR
60	Main Level	3 000	210

ST Code 60 designates a detached service station canopy.

**4.762.063 INSTALLATIONS**

Ceiling Finish	m <sup>2</sup>	\$ 44.00
Fascia	m <sup>2</sup>	73.00
Electrical Basic	K	100.00
	AR	12.00
Electrical Fixtures m <sup>2</sup>	30.50	

**4.762.064 PRECALCULATED ADJUSTMENTS**

<b>Fascia</b>		
per metre of height - add or deduct K	\$ 1 350.00	
	AR	\$ 15.50
<b>Canopy</b>		
attached to another structure – deduct K	\$ 500.00	
	AR	\$ 2.40
nil boxed columns – deduct	K	\$ 700.00
	AR	\$ 12.50

**4.762.065 UNIT COST ADJUSTMENTS**

**Dispenser Island**

per m<sup>2</sup> - add \$ 97.00

**Concrete Apron**

per m<sup>2</sup> - add \$ 40.00

**Convex Mirror**

EA - add \$ 225.00

**Fascia Lighting**

fluorescent strip with acrylic lamp enclosures, per m - add \$ 138.00

**4.762.066 GENERAL INFORMATION**

An adjustment for Architect Fees must be made against any cost adjustments attributable to variations from Model Type specifications.

**4.770.020 MODEL TYPE 770  
QUALITY 02**

**BULK OIL WAREHOUSE - SUBSTANDARD**

**4.770.021 GENERAL DESCRIPTION**

**Wall Heights**

**Architect Fees:** 2.6 %      **Foundation -** Basementless 0.9 m      **Exterior Wall -** Main 2.1 m

**COMPONENT DESCRIPTION - BASE STRUCTURE**

**Concrete Pads** - unreinforced  
**Foundation Walls** - cross-braced wood posts & beams, corrugated galvanized steel skirts  
**Framing** - mill type construction or equivalent  
**Base Floor Construction** - wood joists & plank floor system  
**Stair** - one wood stair, unpainted  
**Base Wall Construction** - wood framing with horizontal purlins  
**Exterior Wall Finish** - corrugated galvanized steel  
**Base Roof Construction** - wood trusses or equivalent  
**Roof Finish** - corrugated galvanized steel  
**Electrical Basic** - fair wiring •  
**Electrical Fixtures** - explosion proof fixtures and receptacles  
**Platform** - 1.8 m wide by the length of the building

**4.770.022 BASE RATES (in dollars)**

ST Code	Structure	All Sizes - m <sup>2</sup>	
		K	AR
62	Main Level & Foundation	2 400	153

ST Code 62 designates a main level with a basementless foundation.

**4.770.023 INSTALLATIONS**

Foundation Walls	<b>K</b>	\$ 1 200.00
	<b>AR</b>	51.00
Base Floor Construction	<b>m<sup>2</sup></b>	35.00
Exterior Walls	<b>m<sup>2</sup></b>	23.00
Stair	<b>EA</b>	100.00



**4.770.024 PRECALCULATED ADJUSTMENTS (in dollars)****Height**per metre of height - **add or deduct****All Sizes - m<sup>2</sup>****K    AR**

530    4.70

**Wiring**

(including fixtures)

nil - **deduct 7.8% of Total Base Cost****Platform**along perimeter of building, per m<sup>2</sup> - **add or deduct \$ 86.00**extending away from perimeter of building, per m<sup>2</sup> - **add \$ 110.00****4.770.025 UNIT COST ADJUSTMENTS****Windows**industrial steel sash, per m<sup>2</sup> - **add \$ 114.00****Doors, Exterior**metal clad sliding door, EA - **add \$ 450.00****Wall Openings**

(areas replaced by doors and windows)

adjustments for openings are not applicable for this classification

**4.770.026 GENERAL INFORMATION**

Total Base Cost is produced when the Base Cost is combined with applicable height adjustments.

Determine floor areas from exterior measurements.

An adjustment for Architect Fees must be made against any cost adjustments attributable to variations from Model Type specifications.

**4.770.030 MODEL TYPE 770  
QUALITY 03**

**BULK OIL WAREHOUSE - FAIR**

**4.770.031 GENERAL DESCRIPTION**

**Wall Heights**

**Architect Fees:** 2.6 %      **Foundation -** Basementless 0.9 m      **Exterior Wall -** Main 2.4 m

**COMPONENT DESCRIPTION - BASE STRUCTURE**

**Concrete Pads** - unreinforced

**Foundation Walls** - cross-braced wood posts & beams, galvanized steel skirts

**Base Floor Construction** - wood joists & plank floor system

**Stair** - one wood stair, unpainted

**Base Wall Construction** - galvanized steel self-framing panels

**Base Roof Construction** - galvanized steel self-framing panels, 150 mm open eaves

**Electrical Basic** - fair wiring

**Electrical Fixtures** - explosion proof fixtures and receptacles

**Platform** - 1.8 m wide by the length of the building

**4.770.032 BASE RATES (in dollars)**

ST Code	Structure	All Sizes - m <sup>2</sup>	
		K	AR
62	Main Level & Foundation	2 700	160

ST Code 62 designates a main level with a basementless foundation.

**4.770.033 INSTALLATIONS**

Foundation Walls	<b>K</b>	\$ 1 400.00
	<b>AR</b>	52.00
Base Floor Construction	<b>m<sup>2</sup></b>	38.00
Exterior Walls	<b>m<sup>2</sup></b>	26.00
Stair	<b>EA</b>	150.00

**4.770.034 RECALCULATED ADJUSTMENTS (in dollars)****Height**per metre of height - **add or deduct****All Sizes - m<sup>2</sup>****K   AR****630   5.60****Wiring**

(including fixtures)

nil - **deduct 7.8% of Total Base Cost****Platform**along perimeter of building, per m<sup>2</sup> - **add or deduct \$ 90.00**extending away from perimeter of building, per m<sup>2</sup> - **add \$ 142.00****Concrete Slab**elevated on compacted fill, per m<sup>2</sup> - **deduct K \$ 300.00****AR \$ 42.00****4.770.035 UNIT COST ADJUSTMENTS****Wall Sections**painted panels, per m<sup>2</sup> - **add \$ 4.00****Windows**industrial steel sash, per m<sup>2</sup> - **add \$ 247.00****Doors**

hollow steel

low grade 0.9 m, EA - **add \$ 330.00**fair 0.9 m, EA - **add \$ 350.00**standard 0.9 m, EA - **add \$ 520.00**standard slide, EA - **add K \$ 350.00****AR m<sup>2</sup> \$ 27.00****Wall Openings**

(areas replaced by doors and windows)

adjustments for openings are not applicable for this classification

**4.770.036 GENERAL INFORMATION**

Total Base Cost is produced when the Base Cost is combined with applicable height adjustments.

Determine floor areas from exterior measurements.

An adjustment for Architect Fees must be made against any cost adjustments attributable to variations from Model Type specifications.

**4.775.020 MODEL TYPE 775**  
**QUALITY 02**

**BULK OIL OFFICE - SUBSTANDARD**

**4.775.021 GENERAL DESCRIPTION**

**Wall Heights**

**Architect Fees:** 2.6 %      **Exterior Wall - Main** 2.4 m

**COMPONENT DESCRIPTION - BASE STRUCTURE**

**Concrete Footings** - unreinforced or equivalent  
**Framing** - mill type construction or equivalent  
**Base Floor Construction** - wood joists, insulation, sheathing  
**Base Wall Construction** - wood framing, insulation, sheathing  
**Exterior Wall Finish** - corrugated galvanized steel, paint  
**Base Roof Construction** - wood rafters, insulation, sheathing or equivalent  
**Roof Finish** - corrugated galvanized steel, paint  
**Electrical Basic** - substandard wiring

**COMPONENT DESCRIPTION - OFFICE FINISH**

**Interior Wall Finish** - plywood, paint or equivalent  
**Partitions** - nil  
**Ceiling Finish** - plywood, paint or equivalent  
**Baseboards & Trim** - low grade  
**Floor Finish** - low grade tile or equivalent  
**Electrical Fixtures** - fair lighting

**4.775.022 BASE RATES (in dollars)**

		All Sizes - m	
ST			
<u>Code</u>	<u>Structure</u>	<u>K</u>	<u>AR</u>
62	Main Level & Foundation	1 950	171
83	Office Finish	300	49

ST Code 62 designates the base structure of a main level with a basementless foundation.  
 ST Code 83 designates typical office finish for this classification.

Total Base Rates are produced when base structure Base Rates are combined with applicable interior finish Base Rates.

**4.775.023 INSTALLATIONS****BASE STRUCTURE**

Base Floor Construction	<b>m2</b>	<b>\$ 35.30</b>
Base Wall Construction	<b>m2</b>	<b>14.90</b>
Exterior Wall Finish	<b>m2</b>	<b>21.50</b>
Base Roof Construction	<b>m2</b>	<b>17.30</b>
Roof Finish	<b>m2</b>	<b>21.50</b>

**OFFICE FINISH**

Interior Wall Finish	<b>m2</b>	<b>13.40</b>
Ceiling Finish	<b>m2</b>	<b>13.40</b>
Baseboards	<b>m</b>	<b>2.90</b>
Floor Finish	<b>m2</b>	<b>9.90</b>

**4.775.024 PRECALCULATED ADJUSTMENTS****Concrete Slab**

on grade, per m<sup>2</sup> - **deduct \$ 14.80**

**Walls, Exterior**

nil paint - **deduct K \$ 80.00**

**AR \$ 4.50**

**Eaves**

per m<sup>2</sup> - **add \$ 39.70**

**Roof**

nil paint, per m<sup>2</sup> - **deduct \$ 4.00**

**Plumbing**

per fixture - **add \$ 300.00**

**4.775.025 UNIT COST ADJUSTMENTS****Windows**

industrial steel sash, per m<sup>2</sup> - **add \$ 114.00**

**Doors, Exterior**

low grade glazed hollow steel door, EA - **add \$ 390.00**

**Wall Openings**

(areas replaced by doors and windows)

adjustments for openings are not applicable for this classification

**4.775.026 GENERAL INFORMATION**

The Base Cost of a building is calculated by applying appropriate Total Base Rates to the building's floor area.

Total Base Cost is produced when the Base Cost is combined with applicable height adjustments.

Determine floor areas from exterior measurements.

An adjustment for Architect Fees must be made against any cost adjustment attributable to variations from Model Type specifications.

**4.775.030 MODEL TYPE 775  
QUALITY 03**

**BULK OIL OFFICE - FAIR**

**4.775.031 GENERAL DESCRIPTION**

**Wall Heights**

**Architect Fees:** 2.6 %      **Exterior Wall - Main** 2.4 m

**COMPONENT DESCRIPTION - BASE STRUCTURE**

**Concrete Footings** - unreinforced or equivalent  
**Base Floor Construction** - wood joists, insulation, sheathing  
**Wall & Roof Construction** - galvanized steel self-framing panels, paint  
**Insulation** - average batt or equivalent  
**Electrical Basic** - fair wiring

**COMPONENT DESCRIPTION - OFFICE FINISH**

**Interior Wall Finish** - plywood, paint or equivalent  
**Partitions** - nil  
**Ceiling Finish** - plywood, paint or equivalent  
**Baseboards & Trim** - low grade  
**Floor Finish** - fair tile or equivalent  
**Electrical Fixtures** - fair lighting

**4.775.032 BASE RATES (in dollars)**

ST Code	Structure	All Sizes - m <sup>2</sup>	
		K	AR
62	Main Level & Foundation	2 500	177
83	Office Finish	300	55

ST Code 62 designates the base structure of a main level with a basementless foundation.  
 ST Code 83 designates typical office finish for this classification.

Total Base Rates are produced when base structure Base Rates are combined with applicable interior finish Base Rates.

**4.775.033 INSTALLATIONS**

**BASE STRUCTURE**

Base Floor Construction	m2	\$ 35.30
Base Wall Construction	m2	22.00
Exterior Wall Finish	m2	4.00
Base Roof Construction	m2	22.00
Roof Finish	m2	4.00

**OFFICE FINISH**

Interior Wall Finish	m2	13.40
Ceiling Finish	m2	13.40
Baseboards	m	2.90
Floor Finish	m2	13.00

**4.775.034 PRECALCULATED ADJUSTMENTS****Concrete Slab**

on grade, per m<sup>2</sup> - **deduct \$ 14.80**

**Walls, Exterior**

nil paint - **deduct**            **K**    **\$ 80.00**  
   **AR**    **\$ 4.50**

**Eaves**

per m<sup>2</sup> **add \$ 31.00**

**Roof**

nil paint, per m<sup>2</sup> **deduct \$ 4.00**

**Plumbing**

per fixture - **add \$ 400.00**

**4.775.035 UNIT COST ADJUSTMENTS****Windows**

industrial steel sash, per m<sup>2</sup> - **add \$ 114.00**

**Doors, Exterior**

low grade glazed hollow steel door, EA - **add \$ 390.00**

**Wail Openings**

(areas replaced by doors and windows)

adjustments for openings are not applicable for this classification

**4.775.036 GENERAL INFORMATION**

The Base Cost of a building is calculated by applying appropriate Total Base Rates to the building's floor area.

Total Base Cost is produced when the Base Cost is combined with applicable height adjustments. Determine floor areas from exterior measurements.

An adjustment for Architect Fees must be made against any cost adjustment attributable to variations from Model Type specifications.

**4.850.030 MODEL TYPE 850  
QUALITY 03**

**GRAIN ELEVATOR - FAIR**

**4.850.032 BASE RATES (in dollars)**

**560 to 1400 tonnes**

<b>ST Code</b>	<b>Structure</b>	<b>K</b>	<b>PER TONNE</b>
60	Main Level	272 000	136

ST Code 60 designates a standard type grain elevator.

**4.850.033 INSTALLATIONS**

<b>1. Drive Shed</b>			
5.5 m x 18.3 m x 4.9 m high	EA		\$ 28 900
<b>2. Driveways</b>			
two ends, each set			\$ 8 100
<b>3. Receiving Scales</b>			
see Precalculated Adjustments 4.850.044			
<b>4. Hopper Scale</b>			
2.72 tonne	EA		\$ 6 300
<b>5. Boot Pan and Pit</b>			
sloped two sides	EA		\$ 21 950
<b>6. Leg Conveyor Systems, wood</b>			
250 mm belt      230 mm bucket	EA		\$ 26 250
to                      to			to
305 mm belt      280 mm bucket	EA		\$ 31 500
<b>7. Head Drive</b>			
5.6 Kw to 7.5 Kw	EA		\$ 3 300 to 4 000
<b>8. Distributor</b>			
included in leg conveyor systems			
<b>9. Man Lift</b>			
tension type	EA		\$ 6 300
<b>10.Box Car Loading Spout</b>	EA		\$ 1 600
<b>11.Hoist</b>			
electric or hydraulic	EA		\$ 6 830

**Note:** Installations provide costs for components or unit costs which are already included in Base Rates.



**4.850.034 PRECALCULATED ADJUSTMENTS****Capacity adjustment**

for each tonne less than 1400 tonnes, per tonne -**deduct \$ 124.00**

**Side Bins**

flat bottom - <b>deduct</b>	<b>K</b>	<b>\$ 3 000.00</b>
	<b>per tonne\$</b>	<b>1.60</b>
half hopped – <b>deduct</b>	<b>K</b>	<b>\$ 1 100.00</b>
	<b>per tonne\$</b>	<b>0.20</b>

**4.850.036 GENERAL INFORMATION**

Cleaner House - **add** only if cleaner house is used for cleaning grain.

For other adjustments see 4.850.044.

Suggested Age Life: 50 years.

Capacity conversion - to establish tonne capacity multiply bushel capacity by a factor of 0.028

e.g. 40 000 bushels x 0.028 = 1 120.0 tonne

**4.850.040 MODEL TYPE 850  
QUALITY 04**

**GRAIN ELEVATOR - STANDARD  
COMPOSITE GRAIN ELEVATOR - STANDARD**

**4.850.042 BASE RATES (in dollars)**

ST Code	Structure	1401 to 2800 tonnes		Over 2800 tonnes	
		K	PER TONNE	K	PER TONNE
60	Main Level	241 000	158	454 000	82

ST Code 60 designates a standard type grain elevator or a composite type grain elevator.

**Note:** In the case of a composite elevator, determine total capacity of main elevator house and attached annexes and apply above rates to total capacity.

**4.850.043 INSTALLATIONS**

<b>1. Drive Shed</b> 5.5 m x 18.3 m x 4.9 m high	EA	\$ 28 900
<b>2. Driveways</b> two ends, each set		\$ 10 400
<b>3. Receiving Scales</b> see Precalculated Adjustments 4.850.044		
<b>4. Hopper Scale</b> 2.72 tonne	EA	\$ 6 300
<b>5. Boot Pan and Pit</b> sloped two sides	EA	\$ 21 950
<b>6. Leg Conveyor Systems, wood</b> 305 mm belt      280 mm bucket	EA	\$ 31 500
to		to
355 mm belt      330 mm bucket	EA	\$ 37 800
<b>7. Head Drive</b> 7.5 Kw to 14.9 Kw	EA	\$ 4 000 to 6 000
<b>8. Distributor</b> included in leg conveyor systems		
<b>9. Man Lift</b> tension type	EA	\$ 7 550
<b>10. Box Car Loading Spout</b>	EA	\$ 1 600
<b>11. Hoist</b> electric or hydraulic	EA	\$ 9 400

**Note:** Installations provide costs for components or unit costs which are already included in Base Rates.

**4.850.044 PRECALCULATED ADJUSTMENTS****1. Drive Shed**

In rate, 5.5 m x 18.3 m x 4.9 m high  
Area Adjustment

**add or deduct m<sup>2</sup> \$ 242.00**

Wall Height Adjustment, per m

**K \$ 550.00**

**AR \$ 10.00**

Cleaner House, attached, built to house grain cleaning system

Raised drive shed roof, 2.75 m wall height, no floor joists, flooring or cleaner timbers,

EA - **add**

**K \$ 1 600.00**

**AR \$ 29.00**

Complete cleaner house, includes floor joists, flooring, cleaner timbers, bins, spouting, hopper and stairway,

EA - **add**

**K \$7 100.00**

**AR \$ 136.00**

Wall Height Adjustment (see Drive Shed)

Overhead Door,

wood-sectional, EA - **add \$ 2 100.00**

steel rolling, EA - **add \$ 3 000.00**

Electric Door Opener, EA - **add \$ 1 500.00**

**2. Concrete Retaining Walls**

per m<sup>2</sup> - **add \$ 88.00**

**3. Receiving Scales - beam type, wood deck - add**

<b>Platform Size</b>	<b>Capacity</b>		
<b>m</b>	<b>tonnes</b>		
2.7 x 6.7	up to 15	EA	\$ 14 150
3.0 x 9.1	15-20	EA	19 800
3.0 x 10.4	20-30	EA	20 750
3.0 x 9.1	30-40	EA	24 600
3.0 x 10.4	50-60	EA	30 700
3.0 x 12.2	50-60	EA	32 300
3.0 x 15.2	50-60	EA	40 950
3.0 x 18.3	50-60	EA	47 300
3.0 x 21.3	50-60	EA	51 800
3.0 x 24.4	60	EA	60 200
3.0 x 21.3	70	EA	53 650
3.0 x 24.4	70	EA	62 000
3.0 x 21.3	80	EA	55 400
3.0 x 24.4	80	EA	63 750

**Decks**

Wood Deck, platform size, per m<sup>2</sup> - **add \$ 29.00**

Concrete Deck, platform size, per m<sup>2</sup> - **add \$ 15.00**

Steel Deck, platform size, per m<sup>2</sup> - **add \$ 110.00**

Electronic readout, EA - **add \$ 3 750.00**

Ticket or tape printer, EA - **add \$ 2 650.00**

**4.850.044 PRECALCULATED ADJUSTMENTS****4. Hopper Scale**2.72 tonne, EA - **add \$ 6 300.00**4.53 tonne, EA - **add \$ 10 500.00****Shipping Scale Electronic Conversions**

Standard shipping scale converted to electronic weighing

only - includes conversion kit, console with readout and printer, EA - **add \$ 8 060.00**

Standard shipping scale converted to electronic scale

- includes conversion kit, console with readout,

totalizer, batch control, 2 airgates and compressor, EA - **add \$ 22 580.00**Printer (console add-on), EA - **add \$ 2 960.00**

Automatic Shipping Scale - includes programmable

console with readout, printer, totalizer, batch

control; top garner bin; hopper; 2 airgates,

compressor; 2 720 kg to 3 175 kg capacity, EA - **add \$ 48 370.00**with bottom surge bin, EA - **add \$ 3 780.00**additional pneumatic airgates, EA - **add \$ 1 600.00****Note:** If no **Hopper Scale** (2.72 tonne), EA - **deduct \$ 6 300.00****5. Boot Pan and Pit**, used with double leg,sloped one side only, EA - **add \$ 17 950.00****6. Wood Leg Conveyor Systems**, includes wood leg, belt and buckets, head drive and distributor - **add**

<b>Belt Size</b>	<b>Buckets Size</b>	<b>Head Drive Size</b>	<b>Approximate Tonnes Per Hour Handling</b>	<b>EA</b>	<b>Total System</b>
250 mm	230 mm	5.6 Kw	70	<b>EA</b>	<b>\$ 29 550</b>
280 mm	250 mm	7.5 Kw	84	<b>EA</b>	<b>32 350</b>
305 mm	280 mm	7.5 Kw	98	<b>EA</b>	<b>35 500</b>
330 mm	305 mm	11.2 Kw	112	<b>EA</b>	<b>40 500</b>
355 mm	330 mm	14.9 Kw	126	<b>EA</b>	<b>43 800</b>
330 mm	305 mm	18.7 Kw	140	<b>EA</b>	<b>45 300</b>
330 mm	305 mm	22.4 Kw	154	<b>EA</b>	<b>48 300</b>
330 mm	305 mm	29.8 Kw	168	<b>EA</b>	<b>53 850</b>
355 mm	330 mm	18.7 Kw	140	<b>EA</b>	<b>52 650</b>
355 mm	330 mm	29.8 Kw	196	<b>EA</b>	<b>61 200</b>
380 mm	355 mm	18.7 Kw	168	<b>EA</b>	<b>60 000</b>
380 mm	355 mm	22.4 Kw	196	<b>EA</b>	<b>65 100</b>
430 mm	355 mm	37.4 Kw	210	<b>EA</b>	<b>77 150</b>

**Note:** above conveyor systems are applicable for upgraded or double leg installations in Fair or Standard elevators.Legs, steel, EA - **add \$ 3 700.00**Grain Sampler, automatic, EA - **add \$ 1 5750.00**

**4.850.044 PRECALCULATED ADJUSTMENTS****7. Head Drives**

In rate 560 tonnes to 1400 tonnes

5.6 Kw	EA	\$ 3 300.00
7.5 Kw	EA	4 000.00

**over 7.5 Kw**

11.2 Kw	EA - add	\$ 800.00
14.9 Kw	EA - add	2 000.00

In rate, 2800 tonnes, 2801 tonnes and over

7.5 Kw	EA	\$ 4 000.00
14.9 Kw	EA	6 000.00

**Over 14.9 Kw**

18.9 Kw	EA - add	\$ 1 000.00
22.7 Kw	EA - add	\$ 2 400.00
29.8 Kw	EA - add	\$ 5 850.00
37.4 Kw	EA - add	\$ 9 750.00

**8. Electric Operated Distributor EA - add \$ 16 380.00**

Leg Distributor Overflow Warning System (Simple Horn) - add per leg \$ 920.00

**9. Man Lift, electric EA - add \$ 25 880.00****10. Loading Spouts,** hopper car EA - add \$ 1 600.00  
outside truck EA - add \$ 2 400.00**12. Miscellaneous**

Sensor Bin Warning Systems

24 volt, conduit electrical circuits,  
individual bin sensors, control panel - add per bin \$ 1 000.0012 volt, exposed electrical circuits,  
individual bin sensors, control panel - add per bin 330.00Bin Sliders, air operated, On./ compressor,  
control panelUp to 2800 tonnes - add \$ 10 500.00  
Over 2800 tonnes - add 15 750.00

Side Bins

flat bottom - deduct K \$ 3 000.00  
per tonne \$ 1.60half hoppers - deduct K \$ 1 100.00  
per tonne \$ 0.20

**4.850.044 RECALCULATED ADJUSTMENTS****12. Miscellaneous, cont'd**

Dust Control Systems - includes motor and storage facilities:

2.2 Kw no exterior tank	EA – add	\$ 6 860
2.2 Kw exterior tank	EA – add	\$ 13 720
3.7 Kw exterior tank	EA – add	\$ 14 940
5.6 Kw exterior tank	EA – add	\$ 18 300
7.5 Kw exterior tank	EA – add	\$ 22 870
11.2 Kw exterior tank	EA – add	\$ 27 200
14.9 Kw exterior tank	EA – add	\$ 35 900

## Car Pullers

## Electric Capstan Type

1.5 Kw	EA – add	\$ 2 650
2.2 Kw	EA – add	\$ 3 100
3.7 Kw	EA – add	\$ 4 600
7.5 Kw	EA – add	\$ 7 250

## Electric Progressioner Type

7.5 Kw	EA – add	\$ 32 500
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**4.850.046 GENERAL INFORMATION**

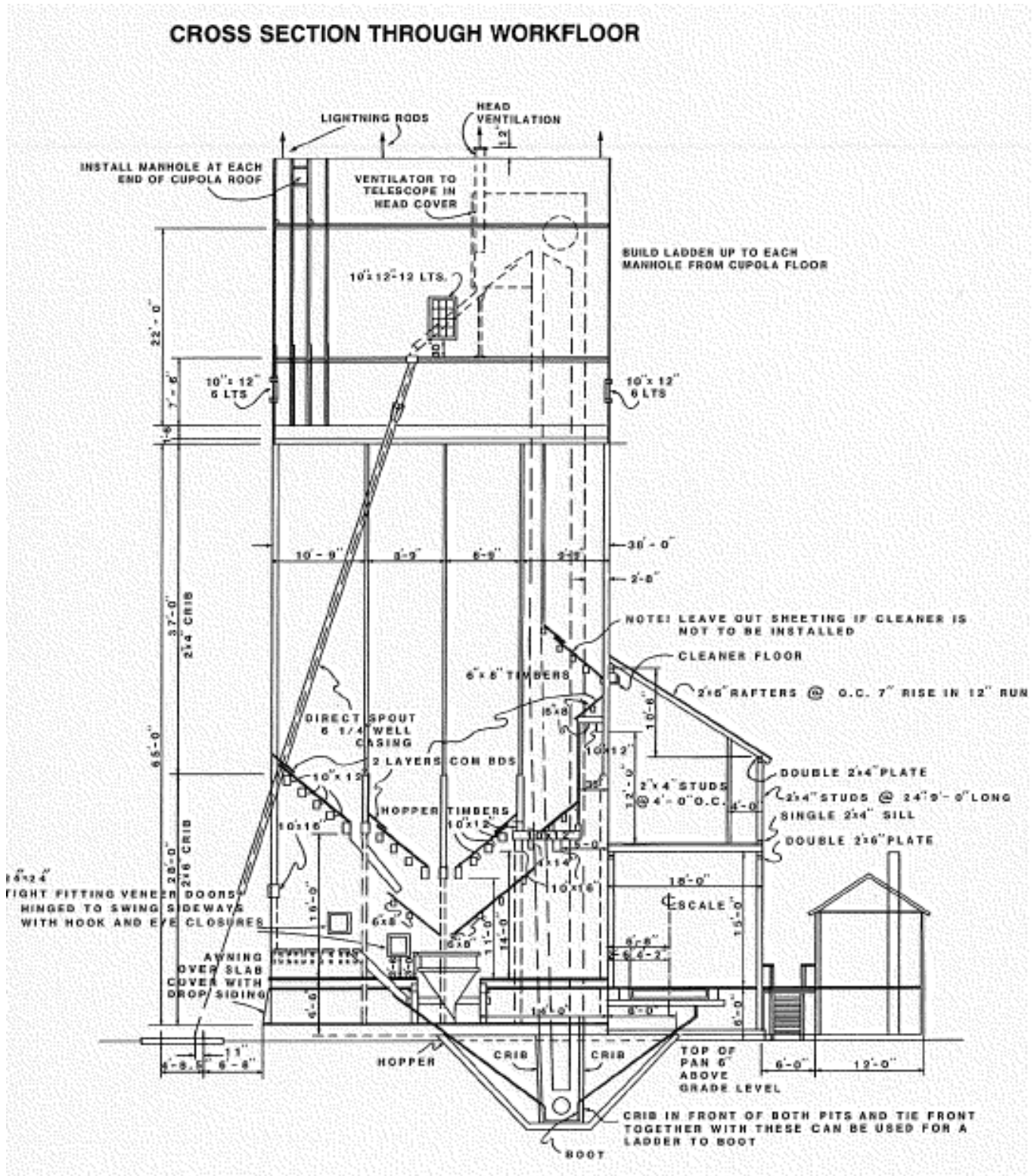
Cleaner House - add as found.

Suggested Age Life: 50 years.

Capacity conversion - to establish tonne capacity multiply bushel capacity by a factor of 0.028

e.g. 60 000 bushels x 0.028 = 1 680.0 tonne

4.850.900 GRAIN ELEVATORS - DIAGRAM



**4.852.030 MODEL TYPE 852  
QUALITY 03**

**TWIN ELEVATOR - FAIR**

**4.852.032 BASE RATES (in dollars)**

**560 to 1400 tonnes**

<b>ST Code</b>	<b>Structure</b>	<b>K</b>	<b>PER TONNE</b>
60	Main Level	272 000	136

ST Code 60 designates a standard type twin elevator.

**4.852.033 INSTALLATIONS** are the same as those included in 4.850.033, Grain Elevator - Fair. The twin elevator is usually used as an annex and some of the installations may have been removed.

**4.852.034 PRECALCULATED ADJUSTMENTS**

**1. Drive Shed EA - deduct \$ 28 900.00**

**2. Driveways**

two ends, each set **deduct - each set \$ 8 100.00**

**11. Hoist**

electric or hydraulic EA - **deduct \$ 6 830.00**

**12. Miscellaneous**

Conveyor

top EA - **add \$ 7 400.00**

bottom EA - **add 9 750.00**

Capacity adjustment

for each tonne less than 1400 tonnes, per tonne - **deduct \$ 124.00**

Side Bins

flat bottom - **deduct** **K \$ 3 000.00**

**per tonne \$ 1.60**

half hoppers - **deduct** **K \$ 1 100.00**

**per tonne \$ 0.20**

**4.852.036 GENERAL INFORMATION**

For other adjustments see 4.850.034 and 4.850.044.

Suggested Age Life: 50 year life.



**4.852.040 MODEL TYPE 852  
QUALITY 04**

**TWIN ELEVATOR - STANDARD**

**4.852.042 BASE RATES (in dollars)**

		1401 to 2800 tonnes	
ST Code	Structure	K	PER TONNE
60	Main Level	241 000	158

ST Code 60 designates a standard type twin elevator.

**4.852.043 INSTALLATIONS** are the same as those included in 4.850.043, Grain Elevator - Standard. The twin elevator is usually used as an annex and some of the installations may have been removed.

**4.852.044 PRECALCULATED ADJUSTMENTS**

<b>1. Drive Shed</b>		EA - deduct	<b>\$ 28 900.00</b>
<b>2 Driveways</b>			
two ends		each set - deduct	<b>\$ 10 400.00</b>
<b>11. Hoist</b>			
electric or hydraulic		EA - deduct	<b>\$ 9 400.00</b>
<b>12. Miscellaneous</b>			
Conveyor			
top	EA - add	<b>\$ 9 900.00</b>	
bottom	EA - add	<b>13 000.00</b>	
Side Bins			
flat bottom - deduct			<b>K \$ 3 000.00</b>
		per tonne	<b>\$ 1.60</b>
half hoppers - deduct			<b>K \$ 1 100.00</b>
		per tonne	<b>\$ 0.20</b>

**4.852.046 GENERAL INFORMATION**

For other adjustments see 4.850.034 and 4.850.044.

Suggested Age Life: 50 year life.

**4.855.040 MODEL TYPE 855  
QUALITY 04**

**CRIBBED ANNEX - STANDARD**

**4.855.042 BASE RATES (in dollars)**

		All Sizes	
ST Code	Structure	K	PER TONNE
60	Main Level	73 000	80

ST Code 60 designates a standard type cribbed annex.

**4.855.043 INSTALLATIONS**

Top Conveyor, EA      **\$ 9 900**

Bottom Conveyor, EA **\$ 13 000**

**Note:** Installations provide costs for components or unit costs which are already included in Base Rates.

**4.855.044 PRECALCULATED ADJUSTMENTS**

**Side Bins**

flat bottom – deduct	<b>K</b>	<b>\$1 750.00</b>
	<b>PER TONNE</b>	<b>\$ 2.45</b>

half hopped – deduct	<b>K</b>	<b>\$ 875.00</b>
	<b>PER TONNE</b>	<b>\$ 0.35</b>

**4.855.046 GENERAL INFORMATION**

For other adjustments see 4.850.034 and 4.850.044.

Suggested age life: 50 year life.

**4.856.020 MODEL TYPE 856  
QUALITY 02**

**BALLOON OR FRAME ANNEX - SUBSTANDARD**

**4.856.021 GENERAL DESCRIPTION**

**COMPONENT DESCRIPTION - BASE STRUCTURE**

**Base Floor Construction** - gravel or wooden planks

**Base Wall Construction** - wood framing and sheathing or equivalent

**Base Roof Construction** - wood rafters and sheathing or equivalent

**Roof Finish** - wood or composite shingles, corrugated metal or equivalent

**4.856.022 BASE RATES (in dollars)**

		All Sizes	
ST Code	Structure	K	PER TONNE
60	Main Level	15 600	41

ST Code 60 designates a balloon or frame annex with a gravel or wooden plank floor.

**4.856.023 INSTALLATIONS**

Spouting  
gravity feed, top distribution

**Note:** Installations provide costs for components or unit costs which are already included in Base Rates.

**4.856.024 PRECALCULATED ADJUSTMENTS**

**Wood Sills**

with wood floor joists and decking	- add	K	\$ 2 000.00
		per tonne	\$ 6.40

**Concrete Foundation**

with wood floor joists and decking	- add	K	\$ 4 800.00
		per tonne	\$ 13.00

**Concrete Slab on Grade**

- add	K	\$ 4 800.00
	per tonne	\$ 10.30

**Single Bin**

- deduct	K	\$ 400.00
	per tonne	\$ 2.80

**Conveyor, Bottom**

- add	K	\$ 2 300.00
	per tonne	\$ 4.00

**Conveyor, Top**

- add	K	\$ 2 300.00
	per tonne	\$ 2.00



**4.856.030 MODEL TYPE 856  
QUALITY 03**

**BALLOON OR FRAME ANNEX - FAIR**

**4.856.031 GENERAL DESCRIPTION**

**COMPONENT DESCRIPTION - BASE STRUCTURE**

Concrete Footings - medium reinforced  
 Foundation Wall - medium reinforced  
 Concrete Slab - heavy reinforced  
 Base Wall Construction - wood framing and sheathing or equivalent  
 Exterior Wall Finish - wood or metal siding, paint  
 Base Roof Construction - wood rafters and sheathing or equivalent  
 Roof Finish - wood or composite shingles, corrugated metal or equivalent

**4.856.032 BASE RATES (in dollars)**

**All Sizes**

<b>ST Code</b>	<b>Structure</b>	<b>K</b>	<b>PER TONNE</b>
<b>61</b>	<b>Main Level &amp; Concrete Slab</b>	<b>31 700</b>	<b>57</b>

ST Code 61 designates a balloon or frame annex with a concrete slab on grade.

**4.856.033 INSTALLATIONS**

Conveyor - Bottom  
 Spouting  
 gravity feed, top distribution

**Note:** Installations provide costs for components or unit costs which are already included in Base Rates.

**4.856.034 PRECALCULATED ADJUSTMENTS**

<b>Gravel or wood planks</b>	<b>- deduct</b>	<b>K</b>	<b>\$ 4 800.00</b>
		<b>per tonne</b>	<b>\$ 10.30</b>
<b>Wood floor joists and decking</b>	<b>- add</b>	<b>K</b>	<b>\$ 100.00</b>
		<b>per tonne</b>	<b>\$ 2.50</b>
<b>Single Bin</b>	<b>- deduct</b>	<b>K</b>	<b>\$ 400.00</b>
		<b>per tonne</b>	<b>\$ 2.80</b>
<b>Conveyor, Bottom</b>	<b>- deduct</b>	<b>K</b>	<b>\$ 2 300.00</b>
		<b>per tonne</b>	<b>\$ 4.00</b>
<b>Conveyor, Top</b>	<b>- add</b>	<b>K</b>	<b>\$ 2 300.00</b>
		<b>per tonne</b>	<b>\$ 2.00</b>

**4.856.034 PRECALCULATED ADJUSTMENTS**

Paint - deduct           K \$ 600.00  
                                  per tonne   \$ 2.00

Wood or Metal Siding – deduct   K \$ 1 700.00  
  per tonne   \$ 5.20

**4.856.036 GENERAL INFORMATION**

Suggested Age Life: Concrete slab or raised foundation - 45 years

**4.857.040 MODEL TYPE 857  
QUALITY 04**

**STEEL GRAIN BIN ANNEX - STANDARD**

**4.857.041 GENERAL DESCRIPTION**

**Corrugated galvanized steel**, bolted bin with standard flat bottom.

**4.857.042 BASE RATES (In dollars)**

ST Code	Structure	280 to 1 650 tonnes		1 651 to 5 000 tonnes	
		K	PER TONNE	K	PER TONNE
61	Main Level & Concrete Slab	10 500	39	14 700	37

ST Code 61 designates a steel grain bin annex with a concrete slab on grade.

**4.857.043 INSTALLATIONS**

Reinforced concrete footings  
Reinforced concrete slab  
Steel wall stiffeners, bracing and roof ladder

**4.857.044 PRECALCULATED ADJUSTMENTS****Steel Ladders**Exterior Wall, per m - **add \$ 36.00**Exterior Wall, with safety hoops, per m - **add \$ 76.00**Interior Bin, per m - **add \$ 51.00****Steel Catwalks**Standard, with side handrails and no conveyor framing, per m - **add \$ 270.00**Heavy Duty, with side handrails and top conveyor floor framing, per m - **add \$ 345.00****Top Conveyor**per m - **add \$ 520.00****Bottom Conveyor**per m - **add \$ 495.00****Indicator Warning System**per bin - **add \$ 1 050.00****Bin Sweeps**200 mm, 1.49 kW (2 HP), per bin - **add \$ 2 450.00**200 mm, 2.24 kW (3 HP), per bin - **add \$ 2 930.00**200 mm, 5.60 kW (7½ HP), per bin- **add \$ 4 850.00****4.857.045 UNIT COSTS****Bin Aeration Equipment - add** as found from section 5.085.110**4.857.046 GENERAL INFORMATION**

For other adjustments see 4.850.043 and 044.

Suggested Age Life: 50 years



**4.857.050 MODEL TYPE 857  
QUALITY 05**

**STEEL GRAIN BIN ANNEX - SEMI CUSTOM**

**4.857.051 GENERAL DESCRIPTION**

**Corrugated galvanized steel, bolted tank with hoppers bottom.**

**4.857.052 BASE RATES (in dollars)**

**112 to 1 120 tonnes**

<b>ST Code</b>	<b>Structure</b>	<b>PER K</b>	<b>TONNE 67</b>
<b>61</b>	<b>Main Level &amp; Concrete Slab</b>	<b>11 300</b>	<b>67</b>

ST Code 61 designates a steel grain bin annex with a concrete slab on grade.

**4.857.053 INSTALLATIONS**

Reinforced concrete piles  
Reinforced concrete slab  
Steel support legs, bracing, anchors and roof ladder  
Exterior steel wall stiffeners

**Note:** Installations provide costs for components or unit costs which are already included in Base Rates.

**4.857.054 PRECALCULATED ADJUSTMENTS****Steel Ladders**

Exterior Wall, per m - **add \$ 36.00**

Exterior Wall, with safety hoops, per m - **add \$ 76.00**

Interior Bin, per m - **add \$ 51.00**

**Steel Catwalks**

Standard, with side handrails and no conveyor framing, per m - **add \$ 270.00**

Heavy Duty, with side handrails and top conveyor floor framing, per m - **add \$ 345.00**

**Top Conveyor**

per m - **add \$ 520.00**

**Bottom Conveyor**

per m - **add \$ 495.00**

**Indicator Warning System**

per bin - **add \$ 1 050.00**

**4.857.055 UNIT COSTS**

**Bin Aeration Equipment - add** as found from section 5.085.110

**4.857.056 GENERAL INFORMATION**

For other adjustments see 4.850.043 and 044.

Suggested age life: 50 years.

**4.860.020 MODEL TYPE 860  
QUALITY 02**

**GRAIN ELEVATOR OFFICE - SUBSTANDARD**

**Wall Heights**

**Foundation** - Basementless 1.2 m      **Exterior Wall** - Main 2.7 m

**4.860.021 GENERAL DESCRIPTION**

**COMPONENT DESCRIPTION - BASE STRUCTURE**

**Concrete Footings** - unreinforced

**Foundation Wall - Lift** - 200 mm concrete and/or wood framing, sheathing, wood, metal siding or equivalent, paint

**Base Floor Construction** - wood joists, subflooring, ply sheathing or equivalent

**Base Wall Construction** - wood framing, sheathing, insulation

**Exterior Wall Finish** - fair wood siding, corrugated metal siding or equivalent, paint

**Base Roof Construction** - wood rafters, sheathing ceiling joists, insulation

**Roof Finish** - wood or composite shingles, corrugated metal or equivalent

**Exterior Doors** - fair wood door or equivalent

**Windows** - fair wood door or equivalent

**Electrical Basic** - substandard wiring

**COMPONENT DESCRIPTION - OFFICE FINISH**

**Interior Wall Finish** - plywood, prefinished wall panels or equivalent

**Ceiling Finish** - plywood, prefinished wall panels or equivalent

**Baseboards & Trim** - fair

**Floor Finish** - fair inlaid linoleum or equivalent

**Electrical Fixtures** - fair lighting

**4.860.022 BASE RATES (in dollars)**

		All Sizes - m <sup>2</sup>	
ST			
Code	Structure	K	AR
62	Main Level & Foundation	4 200	175
83	Office Finish	600	65

ST Code 62 designates the base structure of a main level with a basementless foundation.

ST Code 83 designates typical office interior finish for this classification.

Total Base Rates are produced when base structure Base Rates are combined with applicable interior Finish Base Rates.

**4.860.024 PRECALCULATED ADJUSTMENTS**

**Eaves, open**  
per m<sup>2</sup> - **add \$ 45.00**

**Attached Office Common Wall**  
per m<sup>2</sup> - **deduct \$ 61.00**

**Plumbing**

basic - **add K \$ 100.00**  
**AR \$ 6.50**

per fixture **add \$400.00**

**Heating**

gas line and chimney only - **add K \$ 110.00**  
**AR \$ 4.80**

floor furnace - **add K \$ 160.00**  
**AR \$ 6.80**

gravity - **add K \$ 320.00**  
**AR \$ 13.70**

forced air fair - **add K \$ 360.00**  
**AR \$ 15.50**

**4.860.030 MODEL TYPE 860  
QUALITY 03**

**GRAIN ELEVATOR OFFICE - FAIR**

**Wall Heights**

**Foundation** - Basement 2.4 m      **Exterior Wall** - Main 3.0 m

**4.860.031 GENERAL DESCRIPTION**

**COMPONENT DESCRIPTION - BASE STRUCTURE**

**Concrete Footings** - light reinforced  
**Foundation Walls** - 200 mm light reinforced concrete  
**Foundation Wall - Lift** - 200 mm light reinforced concrete and wood framing, sheathing, insulation  
**Concrete Slab - Basement & On Grade** - 100 mm reinforced  
**Base Floor Construction** - wood joists, subflooring, ply sheathing or equivalent  
**Stairs** - wood stairs, tile finish  
**Base Wall Construction** - wood framing, sheathing, insulation  
**Exterior Wall Finish** - average wood siding, corrugated metal siding or equivalent, paint  
**Base Roof Construction** - wood rafters, sheathing or equivalent, ceiling joists, insulation  
**Roof Finish** - wood or composition shingles, corrugated metal or equivalent  
**Exterior Doors** - average hollow steel or equivalent  
**Windows** - average aluminum or equivalent  
**Plumbing Basic** - fair  
**Heating** - average forced air or equivalent  
**Electrical Basic** - fair wiring

**COMPONENT DESCRIPTION - OFFICE FINISH**

**Interior Wall Finish** - prefinished wall panels or equivalent  
**Partitions** - prefinished wall panels or equivalent  
**Ceiling Finish** - suspended panels  
**Interior Doors** - fair hollow core wood  
**Baseboards & Trim** - fair  
**Floor Finish** - average inlaid linoleum or equivalent  
**Electrical Fixtures** - average lighting

**4.860.032 BASE RATES (in dollars)**

ST Code	Structure	All Sizes - m <sup>2</sup>	
		K	AR
61	Main Level & Concrete Slab	6 400	292
63	Main Level & Basement	9 800	401
64	Main Level & Basement 1/2 Above Grade	9 800	400
83	Office Finish	1 400	75

ST Code 61 designates the base structure of a main level with a concrete slab on grade.

ST Code 63 designates the base structure of a main level with a basement.

ST Code 64 designates the base structure of a main level with a basement 1/2 above grade.

ST Code 83 designates typical office interior finish for this classification.

Total Base Rates are produced when base structure Base Rates are combined with applicable interior Finish Base Rates.

**4.860.034 PRECALCULATED ADJUSTMENTS****Wall Height**

per metre of height - **add or deduct K \$ 600.00**  
**AR \$ 32.00**

**Eaves, boxed**

per m<sup>2</sup> - **add \$ 70.00**

**Attached Office Common Wall**

per m<sup>2</sup> - **deduct \$ 76.00**

**Plumbing**

basic - nil - **deduct K \$ 250.00**  
**AR \$ 8.50**

per fixture - **add \$ 470.00**

**Fair Air Conditioning**

- **add K\$ 2 000.00**  
**AR \$ 28.00**

**Heating**

nil - **deduct K \$ 400.00**  
**AR \$ 17.20**

**Baseboard Electric Heater**

1500 W, EA - **add \$ 240.00**

**4.870.030 MODEL TYPE 870  
QUALITY 03**

**RELOCATABLE OFFICE - FAIR**

**4.870.031 GENERAL DESCRIPTION**

Architect Fees: 3.3 %

**CODE COMPONENT DESCRIPTION - BASE STRUCTURE**

- Substructure** - WF beam steel skids with pipe bracing or steel frame and running gear
- Base Floor Construction** - wood joists, insulation and fir plywood deck system
- Base Wall Construction** - wood framing, insulation, plywood sheathing
- Exterior Wall Finish** - 30 gauge colored aluminum sheathing
- Base Roof Construction** - wood rafters, insulation, plywood sheathing
- Roof Finish** - 30 gauge galvanized steel sheathing
- Windows** - aluminum double sliding
- Exterior Door** - aluminum clad solid core wood
- Interior Wall Finish** - prefinished panelling
- Ceiling Finish** - prefinished panelling
- Baseboards & Trim** - fair
- Floor Finish** - fair sheet vinyl or equivalent
- Heating** - space heater
- Electrical Basic** - fair wiring
- Electrical Fixtures** - fair lighting

**4.870.032 BASE RATES (in dollars)**

All Sizes -

ST

<u>Code</u>	<u>Component</u>	<u>K</u>	<u>AR</u>
60	Main Level	3 700	180

ST Code 60 designates a relocatable office building without footings or foundation.

**Note:** Size range for this quality of structure is normally up to 3.0 m x 6.1 m.  
These structures are pre-built and transported to a site.

**4.870.040 MODEL TYPE 870  
QUALITY 04**

**RELOCATABLE OFFICE - STANDARD**

**4.200.031 GENERAL DESCRIPTION**

**Architect Fees:** 4.8%

**COMPONENT DESCRIPTION - BASE STRUCTURE**

**Substructure** - WF beam steel skids with pipe bracing  
**Base Floor Construction** - wood joists, insulation and fir plywood deck system  
**Base Wall Construction** - wood framing, insulation, plywood sheathing  
**Exterior Wall Finish** - 30 gauge colored metal sheathing  
**Base Roof Construction** - wood rafters, insulation, plywood sheathing  
**Roof Finish** - 30 gauge galvanized metal sheathing  
**Windows** - aluminum double sliding  
**Exterior Doors** - two aluminum clad solid core wood  
**Interior Wall Finish** - prefinished panelling or vinyl covered gypsum wallboard  
**Partitions** - prefinished panelling or vinyl covered gypsum wallboard; partition area 50%  
**Ceiling Finish** - prefinished panelling  
**Interior Doors** - two prefinished hollow core wood  
**Baseboards & Trim** - average  
**Floor Finish** - average sheet vinyl or equivalent  
**Heating** - average forced air  
**Electrical Basic** - average wiring  
**Electrical Fixtures** - average lighting

**4.870.042 BASE RATES (in dollars)**

		All Sizes - m <sup>2</sup>	
ST			
<u>Code</u>	<u>Structure</u>	<u>K</u>	<u>AR</u>
60	Main Level	700	342

ST Code 60 designates a relocatable office building without footings or foundation.

**Note:** Size range for this quality of structure is normally 3.0 m x 7.3 m and over. These structures are pre-built and transported to a site.

**4.870.044 PRECALCULATED ADJUSTMENTS**

**Plumbing**  
per fixture - add \$ 400.00



**4.870.045 UNIT COST ADJUSTMENTS****Partitions**

average prefinished hardboard panelling or vinyl covered gypsum wallboard, per m<sup>2</sup> - **add or deduct \$ 37.60**

**Doors, Exterior**

average metal clad wood door, EA - **add or deduct \$ 530.00**

average clear aluminum door, EA - **add \$ 670.00**

**Doors, Interior**

average hollow core finished door, EA - **add or deduct \$ 320.00**

**Wall Openings**

(areas removed where series units are joined)

adjustments for door and window openings are not applicable for this classification

**Note:** Wall Cost (as per Component Description)

Base Wall Construction	\$ 22.20
Exterior Wall Finish	18.00
Interior Wall Finish	<u>14.30</u>
<b>Total:</b>	m <sup>2</sup> <b>54.50</b>

**4.870.046 GENERAL INFORMATION**

This classification is designed to provide costs for relocatable office accommodation. When two or more of these units are employed in series to construct complexes containing facilities such as dining room, cooking, washroom, dormitory, classroom, office, recreation, etc., the following procedures are recommended.

**Single Units**

- add for all foundations as found
- adjust for partition areas as found
- add or deduct for interior and exterior doors as found
- add for plumbing fixtures, kitchen cabinets, etc.

**Series Units**

- a Constant and Area Rate must be applied for each unit
- add for all foundations as found
- adjust for partition areas as found
- add or deduct for interior and exterior doors as found
- deduct for exterior walls removed between units where large open areas occur such as dining rooms, recreation halls, classrooms and/or commercial offices
- add for plumbing fixtures, kitchen equipment, cabinets, etc.

Base structure designates a structure including interior finish.

The Base Cost of a building is calculated by applying appropriate Total Base Rates to the building's floor areas.

Determine floor areas per unit from exterior measurements.

Perimeter and/or design adjustments are not applicable for this classification.

An adjustment for Architect Fees must be made against any cost adjustments attributable to variations from Model Type specifications.

**4.875.040 MODEL TYPE 875  
QUALITY 04**

**RELOCATABLE COMMUNICATIONS EQUIPMENT BUILDING - STANDARD**

**4.875.041 GENERAL DESCRIPTION**

Architect Fees: 4.8 %

**COMPONENT DESCRIPTION - BASE STRUCTURE**

**Substructure** - WF beams braced with steel pipe  
**Base Wall Construction** - wood framing, sheathing, insulation  
**Exterior Wall Finish** - 24 gauge aluminum siding  
**Base Roof Construction** - wood joists and deck system  
**Roof Finish** - 24 gauge galvanized steel  
**Exterior Door** - average hollow steel  
**Interior Wall & Ceiling Finish** - 24 gauge aluminum panels or equivalent  
**Baseboards & Trim** - average  
**Floor Finish** - average tile or equivalent  
**Heating** - average electric baseboard heaters or equivalent  
**Electrical Basic** - average wiring  
**Electrical Fixtures** - average lighting

**4.875.042 BASE RATES (in dollars)**

ST Code	Structure	All Sizes - m <sup>2</sup>	
		K	AR
60	Main Level	2 700	537

ST Code 60 designates a communications equipment building without footings or foundation.

**Note:** These structures are normally pre-built and transported to site.

**4.875.044 PRECALCULATED ADJUSTMENTS**

**Steel Skids**  
per m<sup>2</sup> - add \$ 71.00

**4.876.040 MODEL TYPE 876  
QUALITY 04**

**RELOCATABLE METAL OILFIELD BUILDING - STANDARD**

**4.876.041 GENERAL DESCRIPTION**

**Wall Heights**

Architect Fees: 4.1 % Exterior Wall - Main 2.4 m

**COMPONENT DESCRIPTION - BASE STRUCTURE**

**Substructure** - WF steel beam skids and bracing  
**Base Floor Construction** - steel checker plate decking  
**Wall and Roof Construction** - galvanized steel self-framing panels  
**Insulation** - fibreglass bait or equivalent  
**Interior Wall and Ceiling Finish** - 24 gauge aluminum panels  
**Floor Finish** - paint

**4.876.042 BASE RATES (in dollars)**

ST Code	Structure	Size Ranges - m <sup>2</sup>		Size 1 (0-49)		Size 2 (50 & over)	
		K	AR	K	AR	K	AR
60	Main Level	0	413	1 400	380		

ST Code 60 designates a main level structure with a steel skid and floor system.

**Note:** These structures are normally pre-built and transported to a site.

**4.876.043 INSTALLATIONS**

Substructure and Base Floor	0 - 19 m <sup>2</sup>	m <sup>2</sup>	\$ 135.00
	20 - 49 m <sup>2</sup>	m <sup>2</sup>	192.00
	50 m <sup>2</sup> & over	m <sup>2</sup>	269.00

**4.876.044 PRECALCULATED ADJUSTMENTS (in dollars)**

**Height**

per metre of height - **add or deduct**

**All Sizes - m<sup>2</sup>**

K     AR  
250   24.00

**4.876.044 PRECALCULATED ADJUSTMENTS (in dollars)****Exterior Finish - Walls and Roof**painted panels, per m<sup>2</sup> - **add \$ 5.90**aluminum panels, per m<sup>2</sup> - **add \$ 8.60****Interior Finish - Walls and Ceiling**nil aluminum liner panel, per m<sup>2</sup> - **deduct \$ 11.50**nil batt insulation, per m<sup>2</sup> - **deduct \$ 4.20****Floors**

steel grated floor systems

0 - 19 m<sup>2</sup>, per m<sup>2</sup> - **deduct \$ 22.00**20 - 49 m<sup>2</sup>, per m<sup>2</sup> - **deduct \$ 29.00**50 m<sup>2</sup> and over, per m<sup>2</sup> - **deduct \$ 40.00**

concrete slab, grade beam and piles

0 - 19 m<sup>2</sup>, per m<sup>2</sup> - **add \$ 27.00**20 - 49 m<sup>2</sup>, per m<sup>2</sup> - **deduct \$ 101.00**50 m<sup>2</sup> and over, per m<sup>2</sup> - **deduct \$ 201.00****4.876.045 UNIT COST ADJUSTMENTS****Wiring**basic, explosion proof service - **add \$ 3 510**

fixture and switches, - refer to 5.016.510 and 6.210.200

**Heating**

catalytic explosion proof gas heaters

Size	kW Rating	Single Unit	Multiple Unit
200 x 200 mm	0.88	\$ 300.00	\$ -
300 x 300 mm	1.46	340.00	-
150 x 600 mm	1.46	340.00	-
300 x 600 mm	2.93	460.00	-
300 x 600 mm + 150 x 600 mm	4.40	-	750.00
2 x 300 x 600 mm	5.859	-	900.00
600 x 600 mm	6.5	790.00	-
3 x 300 x 600 mm	8.79	-	1 340.00
600 x 900 mm	9.9	1 110.00	-
4 x 300 x 600 mm	11.72	-	1 730.00
600 x 1200 mm	13.2	1 400.00	-

-Rates include:

explosion proof wiring and junction box

starting element, 12V or 120V

gas connection orifice and line

safety shut off valve

pressure regulators

temperature control valve

wall mounting brackets

grill

installation

**Note:** Single and Multiple Units may be determined by counting the number of electrical start-up and gas connections on the rear of these units. A Single Unit will have one electrical and one gas connection. Multiple Units will have one electrical and one gas connection for each plate or grill component as stacked or banked.

**4.876.045 UNIT COST ADJUSTMENTS****Windows**

- single glazed steel sash, per m<sup>2</sup> - **add \$ 247.00**
- double glazed steel sash, per m<sup>2</sup> - **add \$ 286.00**
- average double glazed aluminum, per m<sup>2</sup> - **add \$ 182.00**

**Doors, Exterior**

insulated steel entry	plain	glazed
fair, EA - <b>add</b>	<b>\$ 400.00</b>	<b>\$ 470.00</b>
average, EA - <b>add</b>	<b>\$ 480.00</b>	<b>\$ 550.00</b>

**Wall Openings**

(areas replaced by doors and windows)

adjustments for openings are not applicable for this classification

**Note:** Wall Cost (as per Component Description)

galvanized steel self-framing panels, m<sup>2</sup> **\$ 39.00**

**Louvres**

fixed and adjustable - refer to 5.015.625

**Fans**

- propeller fan with weatherhood, EA - **add \$ 600.00**
- exhaust fan with aluminum dome cover, EA - **add \$ 850.00**

**Translucent Panels**

wall or roof, per m<sup>2</sup> - **add \$ 65.00**

**Vents**

- gravity vent, EA - **add \$ 55.00**
- rotating vent, EA - **add \$ 220.00**
- ridge vent, continuous, per m - **add \$ 105.00**

**4.876.046 GENERAL INFORMATION**

This classification is not provided with mechanical installations such as heat and lighting. Where installations are found, adjustments for heating and/or electrical must be considered.

The Base Cost of a building is calculated by applying appropriate Total Base Rates to the building's floor areas.

Total Base Cost is produced when the Base Cost is combined with applicable height adjustments.

Base structure designates a structure including interior finish.

Determine floor areas from exterior measurements.

For perimeter and/or design adjustments see section 1.160.000.

For Overall Structural Height adjustments see section 1.170.000.

An adjustment for Architect Fees must be made against any cost adjustments attributable to variations from Model Type specifications.

**4.880.030 MODEL TYPE 880  
QUALITY 03**

**FRAME & FABRIC BUILDING - FAIR**

**4.880.031 GENERAL DESCRIPTION**

**Wall Height**

**Architect Fees:** 3.3%

**Exterior Wall - Main** 3.0m

**COMPONENT DESCRIPTION - BASE STRUCTURE**

**Substructure** - galvanized steel twist ground anchors at columns

**Floor** - nil

**Base Wall Construction** - small open web galvanized steel pipe tubing shaped columns, 4.6m o.c., galvanized steel pipe girts

**Base Roof Construction** - small open web galvanized steel pipe tubing bow trusses, clear span, 4.6m o.c., galvanized steel pipe purlins

**Exterior Wall & Roof Finish** - light gauge vinyl coated polyester fabric panels, colored and flame retarded

**4.880.032 BASE RATES (in dollars)**

ST Code	Structure	Size Ranges - m <sup>2</sup>		Size 2 (0-249)		Size 3 (250-699)		Size 4 (700 & over)	
		K	AR	K	AR	K	AR	K	AR
60	Main Level	500	94	5 000	76	28 000		46	

ST Code 60 designates a fabric covered structure without footings or foundation.

**4.880.035 UNIT COST ADJUSTMENTS****Strip Footings**

150mm x 300mm, per m - **add \$ 12.00**

**Concrete Slab**

on grade - 75mm unreinforced, per m<sup>2</sup> - **add \$ 10.50**

**Doors, Exterior**

fair hollow steel door, EA - **add \$ 400.00**

**Wall Openings**

(areas replaced by doors and windows)

adjustments for openings are not applicable for this classification.

**4.880.036 GENERAL INFORMATION**

This classification is designed to provide costs for prefabricated semi-permanent multi-purpose fabric shelter systems.

The Base Cost of a building is calculated by applying appropriate Total Base Rates to the building's floor area.

Determine floor areas from exterior measurements.

Base structure designates a structure excluding interior finish.

This classification is not provided with any mechanical installations such as heat and lighting. Where such installations are found, adjustments must be considered.

Perimeter and/or design adjustments are not applicable for this classification.

Overall Structural Height adjustments are not applicable for this classification.

An adjustment for Architect Fees must be made against any cost adjustments attributable to variations from Model Type specifications.

The Suggested Age Life for this classification is 10 years.

**4.880.040 MODEL TYPE 880  
QUALITY 04**

**FRAME & FABRIC BUILDING - STANDARD**

**4.880.041 GENERAL DESCRIPTION**

**Architect Fees:** 4.1% **Wall Height**  
**Exterior Wall - Main** 3.0m

**COMPONENT DESCRIPTION - BASE STRUCTURE**

**Substructure** - rectangular steel tube base, steel ground anchors

**Floor** - nil

**Base Wall Construction** - high strength hollow steel straight wall columns, bracing and girts

**Base Roof Construction** - high strength steel clear span gable truss rafters and purlins

**Exterior Wall & Roof Finish** - colored fire-proof heavy weight vinyl coated nylon or vinyl polyester fabric panels

**4.880.042 BASE RATES (in dollars)**

ST Code	Structure	Size Ranges - m <sup>2</sup>		Size 2 (0-249)		Size 3 (250-699)		Size 4 (700 & over)	
		K	AR	K	AR	K	AR		
60	Main Level	300	110	6 000	88	8 000	85		

ST Code 60 designates a fabric covered structure without footings or foundation.



**4.880.044 PRECALCULATED ADJUSTMENTS (in dollars)****Height**per metre of height - **add or deduct**

Size Ranges - m <sup>2</sup>	Size 2 (0-249)		Size 3 (250-699)		Size 4 (700 & over)	
	K	AR	K	AR	K	AR
Exterior Wall Framing & Exterior Wall Finish	480	15.00	630	13.30	2760	10.60

**4.880.045 UNIT COST ADJUSTMENTS****Strip Footings**150mm x 400mm, per m - **add \$ 13.50****Concrete Slab**on grade - 100mm light reinforced, per m<sup>2</sup> - **add \$ 15.90****Wall Section, Exterior**wall area deleted, per m<sup>2</sup> - **deduct \$ 58.00****Arctic Package**special fabric for northern cold zones and Arctic locations - **add 18% to Total Base Cost****Doors, Exterior**

steel frame fabric covered entry door, EA - **add \$ 170.00**  
 3.0m x 3.0m fabric swinging equipment door, EA - **add \$ 450.00**  
 3.7m x 3.7m fabric swinging equipment door, EA - **add \$ 510.00**  
 4.3m x 4.3m fabric swinging equipment door, EA - **add \$ 570.00**

**Wall Openings**

(areas replaced by doors and windows)

adjustments for openings are not applicable for this classification.

#### **4.880.046 GENERAL INFORMATION**

This classification is designed to provide costs for prefabricated semi-permanent multi-purpose fabric shelter systems.

The Base Cost of a building is calculated by applying appropriate Total Base Rates to the building's floor area.

Total Base Cost is produced when Base Cost is combined with applicable height adjustments.

Determine floor areas from exterior measurements.

Base structure designates a structure excluding interior finish.

This classification is not provided with any mechanical installations such as heat and lighting. Where such installations are found, adjustments must be considered.

Perimeter and/or design adjustments are not applicable for this classification.

For Overall Structural Height adjustments see section 1.170.000.

An adjustment for Architect Fees must be made against any cost adjustments attributable to variations from Model Type specifications.

The Suggested Age Life for this classification is 15 years.

**4.880.060 MODEL TYPE 880**  
**QUALITY 06**

**FRAME & FABRIC BUILDING - CUSTOM**

**4.880.061 GENERAL DESCRIPTION**

**Architect Fees:** 5.1%

**COMPONENT DESCRIPTION - BASE STRUCTURE**

**Substructure** - steel column base plates and steel pin ground anchors

**Floor** - nil

**Base Wall & Roof Construction** - heavy extruded clear span aluminum arch ribs and purlins

**Exterior Wall & Roof Finish** - heavy gauge fire retarded acrylic and P.V.C. coated, colored polyester fabric panels

**4.880.062 BASE RATES (in dollars)**

		<b>All Sizes - m<sup>2</sup></b>	
<b>ST</b>			
<b>Code</b>	<b>Structure</b>	<b>K</b>	<b>AR</b>
<b>60</b>	<b>Main Level</b>	<b>-1000</b>	<b>161</b>

ST Code 60 designates a fabric covered structure without footings or foundation.

**4.880.064 PRECALCULATED ADJUSTMENTS (in dollars)****Deluxe Finish Package**tedlar film coat laminated to P.V.C. fabric, per m<sup>2</sup> floor area - **add \$ 10.80****4.880.065 UNIT COST ADJUSTMENTS****Strip Footings**200mm x 400mm unreinforced, per m - **add \$ 17.50**200mm x 400mm reinforced, per m - **add \$ 20.50****Grade Beam**200mm x 600mm reinforced, per m - **add \$ 57.00****Concrete Slab**on grade - 100mm medium reinforced, per m<sup>2</sup> - **add \$ 16.80**on grade - 125mm medium reinforced, per m<sup>2</sup> - **add \$ 19.30****Wall Section, Exterior**wall area deleted, per m<sup>2</sup> - **deduct \$ 83.00****Arctic Package**heavier gauge acrylic coated fabric - **add 4% to Total Base Cost****Doors, Exterior**good single hollow steel entry door, EA - **add \$ 620.00**good double hollow steel entry door, EA - **add \$1240.00**end or side wall sliding door, fabric and aluminum frame, EA - **add \$2580.00**double panel end rolling door, fabric and aluminum frame, EA - **add K \$1600.00****ARm<sup>2</sup> \$ 67.00****Wall Openings**

(areas replaced by doors and windows)

adjustments for openings are not applicable for this classification.

**4.880.066 GENERAL INFORMATION**

This classification is designed to provide costs for prefabricated semi-permanent multi-purpose fabric shelter systems.

The Base Cost of a building is calculated by applying appropriate Total Base Rates to the building's floor area.

Determine floor areas from exterior measurements.

Base structure designates a structure excluding interior finish.

This classification is not provided with any mechanical installations such as heat and lighting. Where such installations are found, adjustments must be considered.

Perimeter and/or design adjustments are not applicable for this classification.

Overall Structural Height adjustments are not applicable for this classification.

An adjustment for Architect Fees must be made against any cost adjustments attributable to variations from Model Type specifications.

The Suggested Age Life for this classification is 20 years.

**4.881.040 MODEL TYPE 881  
QUALITY 04**

**AIR-SUPPORTED BUILDING - STANDARD**

**4.881.041 GENERAL DESCRIPTION**

**Architect Fees:** 4.1%

**COMPONENT DESCRIPTION - BASE STRUCTURE**

**Grade Beams** - reinforced concrete with recessed continuous aluminum track and fabric anchor system

**Framing** - nil

**Base Floor Construction** - nil

**Wall & Roof Construction** - heavy duty fire resistant, high strength vinyl coated colored polyester, inflatable fabric membrane

**Exterior Wall & Roof Finish** - tedlar coating self-cleaning finish

**Interior Wall & Roof Finish** - insulated inner liner membrane

**Exterior Doors** - hollow metal emergency exit fire doors

**Heating** - one primary inflation unit with electrical air fan and gas furnace, insulated perimeter underground or wall-hung duct system, automatic controls; one back-up secondary unit, automatic cut-in controls.

**Electrical Basic** - good wiring, pre-wired lighting standards

**Electrical Fixtures** - good lighting, metal halide tilt mounted fixtures with wire guards

**4.881.042 BASE RATES (in dollars)**

		All Sizes - m <sup>2</sup>	
ST			
<u>Code</u>	<u>Structure</u>	<u>K</u>	<u>AR</u>
61	Main Level	59 600	81

ST Code 61 designates an air-supported structure with a concrete grade beam foundation.

**4.881.044 PRECALCULATED ADJUSTMENTS (in dollars)****Electrical Fixtures**

low density warehouse lighting - deduct	<b>K</b>	<b>\$ 300.00</b>
	<b>ARm<sup>2</sup></b>	<b>\$ 10.00</b>

**4.881.045 UNIT COST ADJUSTMENTS****Concrete Floor**

slab on-grade, 75mm unreinforced, per m<sup>2</sup> - add \$ 10.50

**Tennis Court Surfaces**

add for excavation, fill and paving from Unit Cost Sections

**Tennis Court Fencing**

refer to section 5.002.435

**Pedestrian Entrances**

aluminum and safety glass revolving door air-lock system EA - add \$ 12 500.00

**Vehicle & Equipment Entrances**

rigid frame pressurized air-lock passageway with shrouds,  
2 metal roll-up doors and controls; per m<sup>2</sup> passageway floor area- add \$1080

**Wall Openings**

(areas replaced by doors and windows)  
adjustments for openings are not applicable for this classification.

**4.881.046 GENERAL INFORMATION**

This classification is designed to provide costs for an air-supported domed inflatable fabric structure. These structures may be semi-permanent or temporary and are used as enclosures for sports and recreational facilities, industrial storage, showrooms, fabrication and assembly projects, and construction site coverage.

The Base Cost of a building is calculated by applying appropriate Total Base Rates to the building's floor area.

Determine floor areas from exterior measurements.

Base structure designates a structure including interior finish.

Perimeter and/or design adjustments are not applicable for this classification.

Overall Structural Height adjustments are not applicable for this classification.

An adjustment for Architect Fees must be made against any cost adjustments attributable to variations from Model Type specifications.

The Suggested Age Life for this classification is 15 years.

**4.882.040 MODEL TYPE 882  
QUALITY 04**

**POST-TENSION BUILDING - STANDARD**

**4.882.041 GENERAL DESCRIPTION**

**Architect Fees:** 5.6%

**COMPONENT DESCRIPTION - BASE STRUCTURE**

**Substructure** - heavy reinforced bell caissons and piers, steel anchor system

**Framing** - steel pipe masts and poles, heavy steel tension cables

**Base Floor Construction** - nil

**Base Roof Construction** - heavy duty fire resistant vinyl coated, colored polyester fabric membrane

**4.882.042 BASE RATES (in dollars)**

All Sizes - m <sup>2</sup>			
ST			
<u>Code</u>	<u>Structure</u>	<u>K</u>	<u>AR</u>
61	Main Level	51 600	381

ST Code 61 designates a cable and fabric tensioned shelter with a concrete pile and pier foundation.

**NOTE:** Ground floor area of a tension structure is calculated the same as swimming pools. Where the projected points of fabric join the poles or masts, connect these points with straight lines around the perimeter to produce total measurements and area.



**4.882.046 GENERAL INFORMATION**

This classification is designed to provide costs for a cable and mast supported fabric shelter, either temporary or permanent.

The Base Cost of a building is calculated by applying appropriate Total Base Rates to the building's floor area.

Determine floor areas from exterior measurements.

Base structure designates a structure excluding interior finish.

This classification is not provided with any mechanical installations, such as lighting. Where such installations are found, adjustments must be considered.

Perimeter and/or design adjustments are not applicable for this classification.

Overall Structural Height adjustments are not applicable for this classification.

An adjustment for Architect Fees must be made against any cost adjustments attributable to variations from Model Type specifications.

The Suggested Age Life for this classification is 15 years.

**4.890.020 MODEL TYPE 890  
QUALITY 02**

**QUONSET TYPE GREENHOUSE - SUBSTANDARD**

**4.890.021 GENERAL DESCRIPTION**

Architect Fees: 2.2 %

**COMPONENT DESCRIPTION - BASE STRUCTURE**

**Substructure** - wood sills or equivalent

**Floor** - nil

**Framing** - quonset type galvanized steel ribs 1.2 m o.c., wood or pipe girts and purlins

**Exterior Wall & Roof Finish** - single ply 4 mil polyethylene with cable type hold downs

**Electrical Basic** - substandard wiring

**Electrical Fixtures** - poor lighting

**4.890.022 BASE RATES (in dollars)**

All Sizes - m			
ST Code	Structure	K	AR
60	Main Level	500	20

ST Code 60 designates a greenhouse without footings or foundation.

**Note:** This structure is normally a single unit built in a range from 6.4 m to 9.1 m widths and 17.9 m<sup>2</sup> to 30.7 m<sup>2</sup> end wall areas.

**4.890.023 INSTALLATIONS**

Electrical Basic	K	\$ 500.00
	AR	2.50
Electrical Fixtures	m <sup>2</sup>	1.50

**4.890.024 PRECALCULATED ADJUSTMENTS****End Wall**attached to another structure, per m<sup>2</sup> - **deduct \$ 9.00****Wall and Roof Finish**

two ply 4 mil polyethylene	- add	K	\$	150.0
		AR		1.50
single ply 6 mil polyethylene	- add	K	\$	50.0
		AR		0.50
corrugated fibreglass	- add	K	\$	1 700.00
		AR		15.00

**4.890.025 UNIT COST ADJUSTMENTS****Strip Footings**150 mm x 300 mm, per m - **add \$ 12.00****Concrete Slab**on grade - 75 mm unreinforced, per m<sup>2</sup> - **add \$ 10.50****Doors, Exterior**economy wood door, EA - **add \$ 190.00**low grade storm door, EA - **add \$ 140.00****Wall Openings**

(areas replaced by doors and windows)

adjustments for openings are not applicable in this classification

**4.890.026 GENERAL INFORMATION**

The Suggested Age Life for this classification is 15 years.

**4.890.030 MODEL TYPE 890  
QUALITY 03**

**QUONSET TYPE GREENHOUSE - FAIR**

**4.890.031 GENERAL DESCRIPTION**

Architect Fees: 3.3 %

**COMPONENT DESCRIPTION - BASE STRUCTURE**

**Substructure** - wood sills or equivalent

**Floor** - nil

**Framing** - quonset type aluminum bow ribs 1.2 m o.c., wood or pipe girts and purlins

**Exterior Wall & Roof Finish** - double ply 4 mil inflated polyethylene

**Electrical Basic** - fair wiring

**Electrical Fixtures** - economy lighting

**4.890.032 BASE RATES (in dollars)**

ST Code	Structure	All Sizes - m <sup>2</sup>	
		K	AR
60	Main Level	1 700	20

ST Code 60 designates a greenhouse without footings or foundation.

**Note:** This structure is normally a single unit built in a range from 6.7 m to 9.8 m widths and 17.7 m<sup>2</sup> to 37.3 m<sup>2</sup> end wall areas.

**4.890.033 INSTALLATIONS**

Electrical Basic	<b>K</b>	<b>\$ 700.00</b>
	<b>AR</b>	<b>3.50</b>
Electrical Fixtures	<b>m<sup>2</sup></b>	<b>3.50</b>

**4.890.034 PRECALCULATED ADJUSTMENTS****End Wall**

attached to another structure, per m<sup>2</sup> - **deduct \$ 14.50**

**Wall and Roof Finish**

single ply 6 mil polyethylene - **deduct K \$ 100.00**  
**AR 1.00**

single ply 4 mil polyethylene - **deduct K \$ 200.00**  
**AR 2.00**

corrugated fibreglass - **add K \$ 200.00**  
**AR 19.00**

**4.890.035 UNIT COST ADJUSTMENTS****Strip Footings**

150 mm x 300 mm, per m - **add \$ 12.00**

**Doors, Exterior**

low grade wood door, EA - **add \$ 310.00**

fair storm door, EA - **add \$ 160.00**

**Wall Openings**

(areas replaced by doors and windows)

adjustments for openings are not applicable in this classification

**4.890.036 General Information**

The Suggested Age Life for this classification is 20 years.

**4.890.040 MODEL TYPE 890  
QUALITY 04**

**QUONSET TYPE GREENHOUSE - STANDARD**

**4.890.041 GENERAL DESCRIPTION**

Architect Fees: 4.1

**COMPONENT DESCRIPTION - BASE STRUCTURE**

**Substructure** - wood sills or equivalent

**Floor** - nil

**Framing** - quonset type aluminum bow ribs 1.2 m o.c., wood or pipe girts and purlins

**Exterior Wall & Roof Finish** - corrugated fibreglass

**Electrical Basic** - average wiring

**Electrical Fixtures** - substandard lighting

**4.890.042 BASE RATES (in dollars)**

<b>ST Code</b>	<b>Structure</b>	<b>All Sizes - m</b>	
		<b>K</b>	<b>AR</b>
<b>60</b>	<b>Main Level</b>	<b>3 000</b>	<b>66</b>

ST Code 60 designates a greenhouse without footings or foundation.

**Note:** This structure is normally a single unit built in a range from 6.7 m to 9.8 m widths and 17.7 m<sup>2</sup> to 37.3 m<sup>2</sup> end wall areas.

**4.890.043 INSTALLATIONS**

Electrical Basic	<b>K</b>	<b>\$ 1 400.00</b>
	<b>AR</b>	<b>4.50</b>
Electrical Fixtures	<b>m<sup>2</sup></b>	<b>6.50</b>

**4.890.044 PRECALCULATED ADJUSTMENTS****End Wall**

attached to another structure, per m<sup>2</sup> - **deduct \$ 16.00**

**Wall and Roof Finish**

double ply 4 mil inflated polyethylene	- deduct	<b>K</b>	<b>\$ 200.00</b>
		<b>AR</b>	<b>19.00</b>
single ply 6 mil polyethylene	- deduct	<b>K</b>	<b>\$ 300.00</b>
		<b>AR</b>	<b>20.00</b>
single ply 4 mil polyethylene	- deduct	<b>K</b>	<b>\$ 400.00</b>
		<b>AR</b>	<b>21.00</b>

**4.890.045 UNIT COST ADJUSTMENTS****Strip Footings**

150 mm x 300 mm, per m - **add \$ 12.00**

**Concrete Slab**

on grade - 75 mm light reinforced, per m<sup>2</sup> - **add \$ 13.20**

**Doors, Exterior**

low grade wood door, EA - **add \$ 310.00**

fair storm door, EA - **add \$ 160.00**

**Wall Openings**

(areas replaced by doors and windows)

adjustments for openings are not applicable in this classification

**4.890.046 GENERAL INFORMATION**

The Suggested Age Life for this classification is 25 years.

**4.891.020 MODEL TYPE 891  
QUALITY 02**

**BOW RIB TYPE GREENHOUSE - SUBSTANDARD**

**4.891.021 GENERAL DESCRIPTION**

**Wall Heights**

**Architect Fees:** 2.2 %      **Exterior Wall - Main** 3.0 m

**COMPONENT DESCRIPTION - BASE STRUCTURE**

**Substructure** - concrete piles or equivalent

**Floor** - nil

**Framing** - bow rib type galvanized steel ribs 1.8 m o.c. on steel posts 3.7 m o.c., wood or metal purlins

**Exterior Wall & Roof Finish** - double ply 4 mil inflated polyethylene roof with corrugated fibreglass sidewalls

**Electrical Basic** - substandard wiring

**Electrical Fixtures** - poor lighting

**4.891.022 BASE RATES (in dollars)**

<b>ST Code</b>	<b>Structure</b>	<b>All Sizes - m</b>	
		<b>K</b>	<b>AR</b>
<b>60</b>	<b>Main Level</b>	<b>4 300</b>	<b>27</b>

ST Code 60 designates a greenhouse with concrete piles or footings.

**Note:** This structure may be a single unit or multiple units that are gutter connected, built in 4.6 m widths and 17.9 m<sup>2</sup> end wall areas.

**4.891.023 INSTALLATIONS**

Concrete Piles or Strip Footings	<b>K</b>	<b>\$ 300.00</b>	
	<b>AR</b>		<b>3.00</b>
Electrical Basic	<b>K</b>	<b>500.00</b>	
	<b>AR</b>		<b>2.50</b>
Electrical Fixtures	<b>m<sup>2</sup></b>		<b>1.50</b>



**4.891.024 PRECALCULATED ADJUSTMENTS****Height**

per metre of height - <b>add or deduct</b>	<b>K \$ 600.00</b>
	<b>AR 1.50</b>

**Wall and Roof Finish**

single ply 4 mil polyethylene – <b>deduct</b>	<b>K \$1 850.00</b>
	<b>AR 14.00</b>

corrugated fibreglass - <b>add</b>	<b>K \$ 500.00</b>
	<b>AR 16.00</b>

**4.891.025 UNIT COST ADJUSTMENTS****Concrete Slab**

on grade - 75 mm unreinforced, per m<sup>2</sup> - **add \$ 10.50**

**Doors, Exterior**

economy wood door, EA - **add \$ 190.00**

low grade storm door, EA - **add \$ 140.00**

**Wall Openings**

(areas replaced by doors and windows)

adjustments for openings are not applicable in this classification

**Note: Wall Cost**

wood or metal purlins and polyethylene, m<sup>2</sup> **\$ 14.50**

**4.891.026 GENERAL INFORMATION**

The Suggested Age Life for this classification is 20 years

**4.891.030 MODEL TYPE 891  
QUALITY 03**

**BOW RIB TYPE GREENHOUSE - FAIR**

**4.891.031 GENERAL DESCRIPTION**

**Wall Heights**

**Architect Fees:** 3.3 %      **Exterior Wall - Main** 3.0 m

**COMPONENT DESCRIPTION - BASE STRUCTURE**

**Substructure** - concrete piles or equivalent

**Floor** - nil

**Framing** - bow rib type galvanized steel ribs on steel posts 1.2 m o.c., wood or pipe girts and purlins

**Exterior Wall & Roof Finish** - single ply 4 mil polyethylene with cable type hold downs

**Electrical Basic** - fair wiring

**Electrical Fixtures** - economy lighting

**4.891.032 BASE RATES (in dollars)**

**All Sizes - m<sup>2</sup>**

ST Code	Structure	K	AR
60	Main Level	2 400	43

ST Code 60 designates a greenhouse with concrete piles or footings.

**Note:** This structure may be a single unit or multiple units that are gutter connected.

Usual widths 4.9 m to 9.1 m

End wall area 9.3 m<sup>2</sup> to 32.9 m<sup>2</sup>

**4.891.033 INSTALLATIONS**

Concrete Piles or Strip Footings	<b>K</b>	<b>\$ 300.00</b>
	<b>AR</b>	<b>3.00</b>
Electrical Basic	<b>K</b>	<b>700.00</b>
	<b>AR</b>	<b>3.50</b>
Electrical Fixtures	<b>m<sup>2</sup></b>	<b>3.50</b>

**4.891.034 PRECALCULATED ADJUSTMENTS****Height**

per metre of height - add or deduct **K \$ 300.00**  
**AR 2.50**

**Wall and Roof Finish**

single ply 6 mil polyethylene - add **K \$ 100.00**  
**AR 1.00**

two ply 4 mil polyethylene - add **K \$ 200.00**  
**AR 2.50**

double ply 4 mil inflated polyethylene - add **K \$ 200.00**  
**AR 3.50**

double ply 4 mil inflated polyethylene roof with corrugated fibreglass end and sidewalls - add **K \$2 300.00**  
**AR 8.00**

corrugated fibreglass - add **K \$2 100.00**  
**AR 25.00**

**4.891.035 UNIT COST ADJUSTMENTS****Doors, Exterior**

low grade wood door, EA - add \$ 310.00

fair storm door, EA - add \$ 160.00

**Wall Openings**

(areas replaced by doors and windows)

adjustments for openings are not applicable in this classification

**Note: Wall Cost**

wood or pipe girts, purlins and polyethylene \$ 14.00

**4.891.036 GENERAL INFORMATION**

The Suggested Age Life for this classification is 25 years.

**4.891.040 MODEL TYPE 891  
QUALITY 04**

**BOW RIB TYPE GREENHOUSE - STANDARD**

**4.891.041 GENERAL DESCRIPTION**

**Wall Heights**

**Architect Fees: 4.1 % Exterior Wall - Main 3.0 m**

**COMPONENT DESCRIPTION - BASE STRUCTURE**

**Substructure** - concrete piles or equivalent

**Floor** - nil

**Framing** - bow rib type galvanized steel trusses on galvanized steel posts 3.7 m o.c., galvanized steel girts and purlins

**Exterior Wall & Roof Finish** - corrugated fibreglass

**Electrical Basic** - average wiring

**Electrical Fixtures** - substandard lighting

**Ventilation** - continuous sidewall or roof top

**4.891.042 BASE RATES (in dollars)**

**All Sizes - m<sup>2</sup>**

ST Code	Structure	K	AR
60	Main Level	11 000	62

ST Code 60 designates a greenhouse with strip footings or piles.

**Note:** This structure may be a single unit or multiple units that are gutter connected.

Usual widths 11 m and 12.8 m

End wall area 51.8 m<sup>2</sup> and 65.3 m<sup>2</sup>

**4.891.043 INSTALLATIONS**

Concrete Piles or Strip Footings	K	\$ 300.00	
	AR		1.00
Electrical Basic	K	1 400.00	
	AR		4.50
Electrical Fixtures	m <sup>2</sup>		6.50
Ventilation System	m		31.50

**4.891.044 PRECALCULATED ADJUSTMENTS**

<b>Height</b>				
per metre of height - add or deduct		<b>K</b>	<b>\$1 400.00</b>	
		<b>AR</b>	<b>8.00</b>	
<b>Wall and Roof Finish</b>				
double ply 4 mil inflated polyethylene roof with corrugated fibreglass end and sidewalls	<b>- add</b>	<b>K</b>	<b>\$ 100.00</b>	
		<b>AR</b>	<b>12.00</b>	
<b>Plumbing Basic</b>	<b>-add</b>	<b>K</b>	<b>\$ 400.00</b>	
		<b>AR</b>	<b>2.00</b>	
<b>Heating</b>				
forced air unit heaters	<b>- add</b>	<b>K</b>	<b>\$ 600.00</b>	
		<b>AR</b>	<b>\$ 12.00</b>	
forced air poly airbag system	<b>- add</b>	<b>K</b>	<b>\$1 600.00</b>	
		<b>AR</b>	<b>\$ 13.00</b>	
hot water/steam pipe radiation system	<b>- add</b>	<b>K</b>	<b>\$5 300.00</b>	
		<b>AR</b>	<b>\$ 19.00</b>	

**4.891.045 UNIT COST ADJUSTMENTS****Concrete Slab**

on grade - 75 mm light reinforced, per m<sup>2</sup> - **add \$ 13.20**

**Doors, Exterior**

fair wood door, EA - **add \$ 370.00**

average storm door, EA - **add \$ 220.00**

**Ventilating Systems**

rack and pinion continuous system, 2 rows on the length of each unit, per m - **add \$ 60.00**

exhaust fans including automatic shutters

300 mm	EA - add	<b>\$ 300.00</b>
450 mm		<b>400.00</b>
600 mm		<b>600.00</b>
750 mm		<b>700.00</b>
900 mm		<b>800.00</b>
1 050 mm		<b>900.00</b>
1 200 mm		<b>1 000.00</b>

automatic shutters only	<b>K</b>	<b>\$ 80.00</b>
	<b>AR m<sup>2</sup></b>	<b>\$ 200.00</b>

automatic ventilation control	<b>K</b>	<b>\$ 550.00</b>
	<b>AR</b>	<b>\$ 28.00</b>

**4.891.045 UNIT COST ADJUSTMENTS****Circulating Fans with Poly Tubes**

<b>Tube Size</b>	<b>Manual Shutter System</b>	<b>Motorized System</b>
450 mm per meter of tube	<b>K \$ 350.00</b> <b>1.00</b>	<b>K \$ 700.00</b> <b>1.00</b>
600 mm per meter of tube	<b>K \$ 550.00</b> <b>1.20</b>	<b>K \$ 800.00</b> <b>1.00</b>
750 mm per meter of tube	<b>K \$ 650.00</b> <b>1.60</b>	<b>K \$ 1 100.00</b> <b>1.60</b>

**Automatic Temperature Controller**average, EA - **add \$ 1 000.00**good, EA - **add \$ 2 300.00****Watering Systems**pre-heating system, EA - **add \$ 1 500.00**overhead system, **per m<sup>2</sup> - add \$ 2.50**bench system, **per m<sup>2</sup> - add \$ 3.00**spaghetti system, **per m<sup>2</sup> - add \$ 4.50****CO<sub>2</sub> Generator**EA - **add \$ 400.00**

(average nine generators per acre needed)

**Humidifier**average, EA - **add \$ 200.00**good, EA - **add \$ 250.00****Plant Benches**plastic, **per m<sup>2</sup> - add \$ 18.50**wooden, **per m<sup>2</sup> - add \$ 27.00****Wall Openings**(areas replaced by doors **and windows**)

adjustments for openings are not applicable in this classification

**Note:** Wall Costgalvanized steel grits, purlins and fibreglass, **m<sup>2</sup> \$ 24.00****4.891.046 GENERAL INFORMATION**

The Suggested Age Life for this classification is 30 years.

**4.892.020 MODEL TYPE 892  
QUALITY 02**

**GABLE TYPE GREENHOUSE - SUBSTANDARD**

**4.892.021 GENERAL DESCRIPTION**

**Wall Heights**

**Architect Fees:** 2.2 %      **Exterior Wall - Main** 1.5 m

**COMPONENT DESCRIPTION - BASE STRUCTURE**

**Substructure** - wood sills or equivalent

**Floor** - nil

**Framing** - bearing walls, wood posts and beams

**Base Wall Construction** - wood framing, sheathing 0.6 metre height

**Exterior Wall Finish** - single ply glass, paint on exposed members

**Base Roof Construction** - wood non-grooved rafters

**Roof Finish** - single ply glass, paint on exposed members

**Electrical Basic** - substandard wiring

**Electrical Fixtures** - poor lighting

**4.892.022 BASE RATES (in dollars)**

ST Code	Structure	All Sizes - m <sup>2</sup>	
		K	AR
60	Main Level	2 400	45

ST Code 60 designates a greenhouse without footings or foundation.

**Note:** This structure may be a single unit or multiple units that are gutter connected, built in a range from 6.1 m to 11.0 m widths per unit.

**4.892.023 INSTALLATIONS**

Electrical Basic	<b>K</b>	<b>\$ 500.00</b>
	<b>AR</b>	<b>2.50</b>
Electrical Fixtures	<b>m<sup>2</sup></b>	<b>1.50</b>

**4.892.024 PRECALCULATED ADJUSTMENTS****Strip Footings**

150 mm x 300 mm - add **K \$ 300.00**  
**AR 2.00**

**4.892.025 UNIT COST ADJUSTMENTS****Concrete Slab**

on grade, 75 mm unreinforced, per m<sup>2</sup> - add **\$ 10.50**

**Doors, Exterior**

economy wood door, EA - add **\$ 190.00**

low grade storm door, EA - add **\$ 140.00**

**Ventilating System**

trap type windows with cable pulleys, 75% of the length of each unit, per m - add **\$ 28.00**

**Wall Openings**

(areas replaced by doors and windows)

adjustments for openings are not applicable in this classification

**Note:** Wall Cost

    painted wood frame and glass - m<sup>2</sup> **\$ 30.00**

**4.892.026 GENERAL INFORMATION**

The Suggested Age Life for this classification is 20 years.



**4.892.030 MODEL TYPE 892  
QUALITY 03**

**GABLE TYPE GREENHOUSE - FAIR**

**4.892.031 GENERAL DESCRIPTION**

**Wall Heights**

**Architect Fees:** 3.3 %      **Exterior Wall - Main** 2.1 m

**COMPONENT DESCRIPTION - BASE STRUCTURE**

**Substructure** - concrete piles or equivalent

**Floor** - nil

**Framing** - gable type pipe trusses on steel posts 3.0 m o.c. or equivalent

**Base Wall Construction** - aluminum glazing bars 0.6 m o.c. between steel posts, sheathing 0.6 metre height

**Exterior Wall Finish** - single ply glass, paint on exposed members

**Base Roof Construction** - aluminum glazing bars 0.6 m o.c. between pipe trusses

**Roof Finish** - single ply glass, paint on exposed members

**Electrical Basic** - fair wiring

**Electrical Fixtures** - economy lighting

**4.892.032 BASE RATES (in dollars)**

**All Sizes - m<sup>2</sup>**

<b>ST Code</b>	<b>Structure</b>	<b>K</b>	<b>AR</b>
<b>60</b>	<b>Main Level</b>	<b>3 800</b>	<b>49</b>

ST Code 60 designates a greenhouse with piles.

**Note:** This structure may be a single unit or multiple units that are gutter connected, built in a range from 7.6 m to 11.0 m widths per unit.

**4.892.033 INSTALLATIONS**

Concrete Piles	<b>K</b>	<b>\$ 200.00</b>
	<b>AR</b>	<b>1.00</b>
Electrical Basic	<b>K</b>	<b>700.00</b>
	<b>AR</b>	<b>3.50</b>
Electrical Fixtures	<b>m<sup>2</sup></b>	<b>3.50</b>

**4.892.034 PRECALCULATED ADJUSTMENTS****Strip Footings**

150 mm x 300 mm	- add	K\$	<b>800.00</b>
		AR	<b>1.50</b>

**Foundation Wall**

200 mm x one m high	- add	K	<b>\$3 900.00</b>
		AR	<b>2.00</b>

**Wall and Roof Finish**

corrugated fibreglass	- deduct	K	<b>\$1 100.00</b>
		AR	<b>12.00</b>

**Walls Only**

corrugated fibreglass	- deduct	K	<b>\$1 100.00</b>
		AR	<b>1.00</b>

**4.892.035 UNIT COST ADJUSTMENTS****Concrete Slab**

on grade, 75 mm unreinforced, per m<sup>2</sup> - **add \$ 10.50**

**Doors, Exterior**

low grade wood door, EA - **add \$ 310.00**

fair storm door, EA - **add \$ 160.00**

**Ventilating System**

screw type continuous system, 1 row on the length of each unit, per m - **add \$ 31.50**

**Wall Openings**

(areas replaced by doors and windows)

adjustments for openings are not applicable in this classification

**Note: Wall Cost**

aluminum frame and glass - m <sup>2</sup>	<b>\$ 24.00</b>
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**4.892.036 GENERAL INFORMATION**

The Suggested Age Life for this classification is 25 years.

**4.892.040 MODEL TYPE 892**  
**QUALITY 04**

**GABLE TYPE GREENHOUSE - STANDARD**

**4.892.041 GENERAL DESCRIPTION**

**Wall Heights**

**Architect Fees:** 4.1%      **Exterior Wall - Main** 2.4 m

**COMPONENT DESCRIPTION - BASE STRUCTURE**

**Substructure** - concrete piles or equivalent

**Floor** - nil

**Framing** - gable type aluminum trusses on aluminum posts 3.0 m o.c. with galvanized steel purlins or equivalent

**Base Wall Construction** - aluminum glazing bars 0.6 m o.c. between framing posts, sheathing 0.6 metre height

**Exterior Wall Finish** - single ply glass, paint on exposed members

**Base Roof Construction** - aluminum glazing bars 0.6 m o.c. between trusses

**Roof Finish** - single ply glass, paint on exposed members

**Electrical Basic** - average wiring

**Electrical Fixtures** - substandard lighting

**4.892.042 BASE RATES ( in dollars)**

		All Sizes - m <sup>2</sup>	
ST Code	Structure	K	AR
60	Main Level	9 500	81

ST Code 60 designates a greenhouse with piles.

**Note:** This structure may be a single unit or multiple units that are gutter connected, built in a range from 11.0 m to 12.8 m widths per unit.

**4.892.043 INSTALLATIONS**

Concrete Piles	<b>K</b>	<b>\$ 300.00</b>
	<b>AR</b>	<b>1.00</b>
Electrical Basic	<b>K</b>	<b>1 400.00</b>
	<b>AR</b>	<b>4.50</b>
Electrical Fixtures	<b>m<sup>2</sup></b>	<b>6.50</b>

**4.892.044 PRECALCULATED ADJUSTMENTS****Foundation Wall**

light reinforced 200 mm x one m high	- add	K	\$5 900.00
		AR	1.50

**Strip Footings**

150 mm x 300 mm	- add	K	\$ 800.00
		AR	1.50

**Wall and Roof Finish**

corrugated fibreglass	- deduct	K	\$1 100.00
		AR	12.00

15.9 mm acrylic polycarbonate panels	- add	K	\$7 400.00
		AR	54.00

**Walls Only**

corrugated fibreglass	- deduct	K	\$1 100.00
		AR	1.00

15.9 mm acrylic polycarbonate panels	- add	K	\$7 400.00
		AR	5.50

<b>Plumbing Basic</b>	- add	K	\$ 400.00
		AR	2.00

**Heating**

forced air unit heaters	- add	K	\$ 600.00
		AR	12.00

forced air poly airbag system	- add	K	\$1 600.00
		AR	13.00

hot water/steam pipe radiation system	- add	K	\$5 300.00
		AR	19.00

**4.892.045 UNIT COST ADJUSTMENTS****Concrete Slab**

on grade, 75 mm light reinforced, per m<sup>2</sup> - add \$ 13.20

**Doors, Exterior**

fair wood door, EA - add \$ 370.00

average storm door, EA - add \$ 220.00

**Ventilating Systems**

rack and pinion continuous system, 2 rows on the length of each unit, per m - add \$ 60.00

exhaust fans including automatic shutters

300 mm	EA	- add	\$ 300.00
450 mm			400.00
600 mm			600.00
750 mm			700.00
900 mm			800.00
1 050 mm			900.00
1 200 mm			1 000.00

automatic shutters only	K	\$ 80.00
	AR m <sup>2</sup>	200.00

automatic ventilation control	K	\$ 550.00
	AR	28.00

**4.892.045 UNIT COST ADJUSTMENTS****Circulating Fans with Poly Tubes**

<b>Tube Size</b>	<b>Manual Shutter System</b>	<b>Motorized System</b>
450 mm per meter of tube	<b>K \$ 350.00</b> <b>1.00</b>	<b>K \$ 700.00</b> <b>1.00</b>
600 mm per meter of tube	<b>K \$ 550.00</b> <b>1.20</b>	<b>K \$ 800.00</b> <b>1.00</b>
750 mm per meter of tube	<b>K \$ 650.00</b> <b>1.60</b>	<b>K \$ 1 100.00</b> <b>1.60</b>

**Automatic Temperature Controller**average, EA - **add \$ 1 100.00**good, EA - **add \$ 2 300.00****Watering Systems**pre-heating system, EA - **add \$ 1 500.00**overhead system, per m<sup>2</sup> - **add \$ 2.50**bench system, per m<sup>2</sup> - **add \$ 3.00**spaghetti system, per m<sup>2</sup> - **add \$ 4.50****CO<sup>2</sup> Generator**EA - **add \$ 400.00**

(average nine generators per acre needed)

**Humidifier**average, EA - **add \$ 200.00**good, EA - **add \$ 250.00****Plant Benches**plastic, per m<sup>2</sup> - **add \$ 18.50**wooden, per m<sup>2</sup> - **add \$ 27.00****Light Growing Systems**intensified light fixtures, per m<sup>2</sup> - **add \$ 39.50**

**4.892.045 UNIT COST ADJUSTMENTS Continued****Shading Systems**

automated retractable foil blanket shade systems, including rollers, motors and wiring, per m<sup>2</sup> of roof area

Small Areas, 0 - 2325 m<sup>2</sup>  
 single pull blanket system, per m<sup>2</sup> - **add \$ 22.00**  
 multiple pull blanket system, per m<sup>2</sup> - **add \$ 35.50**

Medium Areas, 2325 - 4650 m<sup>2</sup>  
 multiple pull blanket system, per m<sup>2</sup> - **add \$ 30.00**

Large Areas, over 4650 m<sup>2</sup>  
 multiple pull blanket system, per m<sup>2</sup> - **add \$ 28.50**

**Cooling Systems**

costs include cellulose cell, drainage system, supports, tanks, pump, motor, piping, electrical and installation

coolpad evaporative cold water system, per m<sup>2</sup> - **add \$ 9.00**

**Computer Control Systems**

costs are for a basic One Zone System and include a computer base station; temperature, humidity and light sensors, wiring and controls

One Zone environmental climatic control system	<b>EA</b>	<b>\$ 10 650.00</b>
Additional Zones and controls, per zone	<b>add EA</b>	<b>\$ 880.00</b>
Additional Sensors in added Zones, per sensor	<b>add EA</b>	<b>\$ 1 020.00</b>
Datalog Weather Sensing Station, including steel mast, sensors and wiring to computer control	<b>add EA</b>	<b>\$ 4 400.00</b>

**Hydroponic (Soil - Less) Growing Systems**

Spray and Fog Watering Boom System, including pump, drive, overhead boom, nozzles, 30.5 m track system, piping and installation, per m <sup>2</sup>	<b>add \$</b>	<b>22.00</b>
Track Variation - for each metre of track system greater than or less than 30.5 m in length	<b>add or deduct</b>	<b>\$ 59.00</b>
Trickle or Dripper Systems, including plastic tubing, drip nozzles, reservoir, pump, compensators and electrical, per m <sup>2</sup>		<b>\$ 4.40</b>
optional solution reclamation system including sloped beds, gutters and drains, per m	<b>add \$</b>	<b>33.00</b>

**4.892.045 UNIT COST ADJUSTMENTS Continued****Hydroponic (Soil - Less) Growing Systems Continued**

Ebb and Flow Systems, including sloped tray beds,  
bottom flood reclamation closed loop system, drains  
piping, reservoir, pump and electrical, per m<sup>2</sup> \$ 64.00

**Automated Fertilizer Management Systems**

costs include batch tanks, plastic lines and nozzles,  
electronic batch, manifold, injection, metering and  
monitoring controls, computer and installation

Small System - 0 to 0.405 ha

contains 3 heads, 25 mm lines

EA \$ 5 360.00

additional or less heads

add or deduct EA \$ 1 880.00

Average System - 0.5 to 1.9 ha

contains 6 heads, 25 mm lines

EA \$ 10 700.00

additional or less heads

add or deduct EA \$ 2 230.00

Large System - 2.0 ha and over

contains 10 heads, 50 mm lines

EA \$ 25 800.00

additional or less heads

add or deduct EA \$ 2 580.00

**Wall Openings**

(areas replaced by doors and windows)

adjustments for openings are not applicable in this classification

**Note:** Wall Cost

aluminum frame and glass - m<sup>2</sup>

\$ 30.00

aluminum frame and acrylic polycarbonate - m<sup>2</sup>

\$ 65.00

**4.892.046 GENERAL INFORMATION**

The Suggested Age Life for this classification is 30 years.

**4.894.040 MODEL TYPE 894  
QUALITY 04**

**SOLARIUM - STANDARD**

**4.894.041 GENERAL DESCRIPTION**

**Wall Heights**

Architect Fees: 5.6% Exterior Wall - 2.4 m

**CODE COMPONENT DESCRIPTION - BASE STRUCTURE**

- 0700 Piles** - reinforced concrete  
**0920 Concrete Pads** - reinforced  
**1120 Grade Beams** - reinforced concrete or equivalent  
**1524 Concrete Slab - On Grade** - 100 mm light reinforced  
**Framing** - painted light gauge aluminum members  
**Base Wall Construction** - clear safety tempered single glazed panels; finished pony stub wall, colored aluminum panels or glazed to the floor  
**Base Roof Construction** - painted light gauge aluminum sloped members, straight eaves  
**Roof Finish** - clear, safety tempered, single glazed panels  
**6514 Heating** - average forced air and ventilation  
**6704 Electrical Basic** - average wiring  
**6904 Electrical Fixtures** - average lighting

**4.894.042 BASE RATES (in dollars)**

ST Code	Structure	All Sizes - m <sup>2</sup>	
		K	AR
61	Main Level & Concrete Slab	2 400	468
70	Upper Level	2 400	417
72	Upper Level Cantilever Extension	2 400	515

ST Code 61 designates the base structure of a main level with a concrete slab on grade.

ST Code 70 designates the base structure of an upper level.

ST Code 72 designates the base structure of an unsupported portion of an upper level



**4.894.043 INSTALLATIONS**

Heating	<b>AR \$11.70</b>
Electrical Basic	<b>AR 8.00</b>
Electrical Fixtures	<b>AR 13.00</b>

**4.894.044 PRECALCULATED ADJUSTMENTS (in dollars)****Height**

per metre of height - **add or deduct**

**All Sizes**

<b>K</b>	<b>AR</b>
<b>660</b>	<b>73.00</b>

**Heating**

average multi-zone forced air - **add total cost of heating times 0.5**

average air conditioning - **add total cost of heating times 1.6**

average multi-zone forced air and air conditioning - **add total cost of heating times 2.1**

**4.894.045 UNIT COST ADJUSTMENTS****End Wall**

deleted end wall section, per m<sup>2</sup> - **deduct \$ 167.00**

**Floor Finish**

average sheet vinyl, per m<sup>2</sup> - **add \$ 35.50**

average vinyl tile, per m<sup>2</sup> - **add \$ 18.50**

average carpet, per m<sup>2</sup> - **add \$ 17.00**

average quarry tile, per m<sup>2</sup> - **add \$ 83.00**

**Windows**

equivalent to base wall panels

**Doors, Exterior**

patio doors - equivalent to base wall panels

average clear aluminum door, EA - **add \$ 670.00**

**Wall Openings**

(areas replaced by doors and windows)

adjustments for openings are not applicable for this Classification

**4.894.046 GENERAL INFORMATION**

Model Type 894 Solarium is a three-sided structure which is built and normally found attached to another commercial structure, usually a store, restaurant, hotel, office, etc. The base structure Base Rates for MT 894 have been designed accordingly.

The Base Cost of a building is calculated by applying appropriate Total Base Rates to the building's floor area.

Determine floor areas per level from exterior measurements.

Total Base Cost is produced when Base Cost is combined with applicable height adjustments.

Wall Height is determined by measuring the height of the solarium wall, where it attaches or adjoins a main structure or building.

The base floor of a Structure Code 70 Solarium Upper Level is formed by the base roof of the existing structure or building that the solarium is situated on.

Structure Code 72 Solarium rates contain an extended base floor necessary to support a cantilevered structure.

Base Structure designates a structure including interior finish.

For perimeter and/or design adjustments see section 1.160.000.

For Overall Structural Height adjustments see section 1.170.000.

An adjustment for Architect Fees must be made against any cost adjustments attributable to variations from Model Type specifications.

**4.894.060 MODEL TYPE 894  
QUALITY 06**

**SOLARIUM - CUSTOM**

**4.894.061 GENERAL DESCRIPTION**

**Wall Heights**

**Architect Fees:** 7.0%                      **Exterior Wall -** 2.4 m

**CODE            COMPONENT DESCRIPTION - BASE STRUCTURE**

- 0555 Concrete Footings** - medium reinforced  
**0702 Piles** - reinforced concrete  
**0924 Concrete Pads** - reinforced  
**1124 Grade Beams** - reinforced concrete or equivalent  
**1326 Foundation Walls** - 200 mm medium reinforced concrete  
**1526 Concrete Slab - On Grade** - 150 mm light reinforced  
**Framing** - bronzed or black anodized medium to heavy aluminum members, straight or curved; heavy cedar columns with aluminum capping or wood glu-lam finished and shaped columns  
**Base Wall Construction** - double glazed tinted safety panels, straight or curved, or double acrylic panels; finished pony stub wall or glazed panel walls to the floor  
**Base Roof Construction** - bronzed or black anodized, medium to heavy aluminum members, sloped or curved; heavy cedar beams with aluminum capping or shaped wood glu-lam finished members; straight or curved eaves  
**Roof Finish** - double glazed tinted safety panels, straight or curved; or double acrylic panels  
**6556 Heating** - roof top heat and air conditioning  
**6706 Electrical Basic** - good wiring  
**6906 Electrical Fixtures** - good lighting

**4.894.062 BASE RATES (in dollars)**

ST Code	Structure	All Sizes - m <sup>2</sup>	
		K	AR
61	Main Level & Concrete Slab	4 200	1 036
70	Upper Level	4 200	959
72	Upper Level Cantilever Extension	4 200	1 080

ST Code 61 designates the base structure of a main level with a concrete slab on grade.

ST Code 70 designates the base structure of an upper level.

ST Code 72 designates the base structure of an unsupported portion of an upper level.

**4.894.063 INSTALLATIONS**

Heating and air conditioning	<b>AR</b>	<b>\$36.60</b>
Electrical Basic - main	<b>AR</b>	<b>18.40</b>
- upper	<b>AR</b>	<b>8.40</b>
Electrical Fixtures	<b>AR</b>	<b>21.00</b>

**4.894.064 PRECALCULATED ADJUSTMENTS (in dollars)****Height**per metre of height - **add or deduct****All Sizes – m2**

<u>K</u>	<u>AR</u>
<b>1 690</b>	<b>176.00</b>

**Heating**average forced air - **deduct total cost of heating times 0.7**average forced air and air conditioning - **deduct total cost of heating times 0.52****Glazed Panels, glass or acrylic**single glazing, wall and roof area, per m<sup>2</sup> - **deduct \$ 175.00**clear glazing, wall and roof area, per m<sup>2</sup> - **deduct \$ 43.00****Framing**plain anodized aluminum members, wall and roof area, per m<sup>2</sup> - **deduct \$ 18.00****4.894.065 UNIT COST ADJUSTMENTS****End Wall**deleted end wall section, per m<sup>2</sup> - **deduct \$ 386.00****Floor Finish**good sheet vinyl, per m<sup>2</sup> - **add \$ 49.50**good vinyl tile, per m<sup>2</sup> - **add \$ 23.50**good carpet, per m<sup>2</sup> - **add \$ 25.00**good ceramic tile, per m<sup>2</sup> - **add \$ 136.00****Windows**

equivalent to base wall panels

**Doors, Exterior**

patio doors - equivalent to base wall panels

good bronze aluminum door, EA - **add \$ 1 000.00**good black aluminum door, EA - **add \$ 1 200.00****Wall Openings**

(areas replaced by doors and windows)

adjustments for openings are not applicable for this classification

**4.894.066 GENERAL INFORMATION**

Model Type 894 Solarium is a three-sided structure which is built and normally found attached to another commercial structure, usually a store, restaurant, hotel, office, etc. The base structure Base Rates for MT 894 have been designed accordingly.

The Base Cost of a building is calculated by applying appropriate Total Base Rates to the building's floor area.

Determine floor areas per level from exterior measurements.

Total Base Cost is produced when Base Cost is combined with applicable height adjustments.

Wall Height is determined by measuring the height of the solarium wall where it attaches or adjoins a main structure or building.

The base floor of a Structure Code 70 Solarium Upper Level is formed by the base roof of the existing structure or building that the solarium is situated on.

Structure Code 72 Solarium rates contain an extended base floor necessary to support a cantilevered structure.

Base Structure designates a structure including interior finish.

For perimeter and/or design adjustments see section 1.160.000.

For Overall Structural Height adjustments see section 1.170.000.

An adjustment for Architect Fees must be made against any cost adjustments attributable to variations from Model Type specifications.

**4.894.080 MODEL TYPE 894**  
**QUALITY 08**

**SOLARIUM - EXPENSIVE**

**4.894.081 GENERAL DESCRIPTION**

**Wall Heights**

Architect Fees: 9.0%      **Exterior Wall - 2.4 m**

**CODE      COMPONENT DESCRIPTION - BASE STRUCTURE**

**0555 Concrete Footings** - medium reinforced

**0702 Piles** - reinforced concrete

**0924 Concrete Pads** - reinforced

**1124 Grade Beams** - reinforced concrete or equivalent

**1328 Foundation Walls** - 300 mm medium reinforced concrete

**1526 Concrete Slab - On Grade** - 150 mm light reinforced

**Framing** - heavy bronzed or black anodized insulated aluminum members, straight, curved or custom shaped

**Base Wall Construction** - straight or shaped, heavy float laminated tempered safety glass or acrylic double glazed thermal insulated panels, bronze or silver tinted; finished pony stub wall or glazed to the floor

**Base Roof Construction** - heavy bronzed or black anodized insulated aluminum members, straight, curved or custom shaped

**Roof Finish** - sloped or shaped, heavy float laminated tempered safety glass or acrylic double glazed thermal insulated panels, bronze or silver tinted

**6546 Heating** - good hot water and ventilation

**6566 Air Conditioning** - good

**6706 Electrical Basic** - good wiring

**6907 Electrical Fixtures** - good to expensive lighting

**4.894.082 BASE RATES (in dollars)**

**All Sizes - m<sup>2</sup>**

ST Code	Structure	K	AR
<b>81</b>	<b>Main Level &amp; Concrete Slab</b>	<b>5 800</b>	<b>1 135</b>
<b>70</b>	<b>Upper Level</b>	<b>5 800</b>	<b>1 048</b>
<b>72</b>	<b>Upper Level Cantilever Extension</b>	<b>5 800</b>	<b>1 190</b>

ST Code 61 designates the base structure of a main level with a concrete slab on grade.

ST Code 70 designates the base structure of an upper level.

ST Code 72 designates the base structure of an unsupported portion of an upper level.

**4.894.083 INSTALLATIONS**

Heating - main	<b>AR</b>	<b>\$35.50</b>
- upper	<b>AR</b>	<b>27.60</b>
Air Conditioning - main	<b>AR</b>	<b>28.70</b>
- upper	<b>AR</b>	<b>22.30</b>
Electrical Basic - main	<b>AR</b>	<b>19.90</b>
- upper	<b>AR</b>	<b>15.40</b>
Electrical Fixtures	<b>AR</b>	<b>27.00</b>

**4.894.084 PRECALCULATED ADJUSTMENTS (in dollars)****Height**per metre of height - **add or deduct****All Sizes - m<sup>2</sup>**

<u>K</u>	<u>AR</u>
<b>1 910</b>	<b>181.00</b>

Glazed Panels, glass or acrylic

clear glazing, wall and roof area, per m<sup>2</sup> - deduct \$ **87.00****4.894.085 UNIT COST ADJUSTMENTS****End Wall**deleted end wall section, per m<sup>2</sup> - **deduct K \$ 300.00**  
**AR m<sup>2</sup> \$ 269.00****Floor Finish**expensive sheet vinyl, per m<sup>2</sup> - add \$ **71.00**  
expensive vinyl tile, per m<sup>2</sup> - **add \$ 34.50**  
expensive carpet, per m<sup>2</sup> - **add \$ 46.50**  
expensive ceramic tile, per m<sup>2</sup> - add \$ **260.00**  
expensive marble tile, per m<sup>2</sup> - **add \$ 320.00****Motorized Shade and Track System**wall or roof area, per m<sup>2</sup> - **add \$ 249.00****Windows**

equivalent to base wall panels

**Doors, Exterior**patio doors - equivalent to base wall panels  
good to expensive bronze aluminum door, EA - **add \$ 1 300.00**  
good to expensive black aluminum door, EA - **add \$ 1 500.00****Wall Openings**

(areas replaced by doors and windows)

adjustments for openings are not applicable for this classification

**4.894.086 GENERAL INFORMATION**

Model Type 894 Solarium is a three-sided structure which is built and normally found attached to another commercial structure, usually a store, restaurant, hotel, office, etc. The base structure Base Rates for MT 894 have been designed accordingly.

The Base Cost of a building is calculated by applying appropriate Total Base Rates to the building's floor area.

Determine floor areas per level from exterior measurements.

Total Base Cost is produced when Base Cost is combined with applicable height adjustments.

Wall Height is determined by measuring the height of the solarium wall where it attaches or adjoins a main structure or building.

The base floor of a Structure Code 70 Solarium Upper Level is formed by the base roof of the existing structure or building that the solarium is situated on.

Structure Code 72 Solarium rates contain an extended base floor necessary to support a cantilevered structure.

Base Structure designates a structure including interior finish.

For perimeter and/or design adjustments see section 1.160.000.

For Overall Structural Height adjustments see section 1.170.000.

An adjustment for Architect Fees must be made against any cost adjustments attributable to variations from Model Type specifications.



**SCHEDULE 5***Subsection 10(1), paragraphs 10(2)(a) and (d) and subsections 10(4), 10(6) and 14(1)***COMMERCIAL UNIT COSTS  
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Cast-In-Place Concrete .....	5.003.150
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Floor and Roof Framing System Columns .....	5.003.300
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Precast Prestressed Concrete .....	5.003.400
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Wall Insulation .....	5.007.100
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<b>DOORS &amp; WINDOWS .....</b>	<b>5.008.000</b>
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Waste Handling Equipment .....	5.011.350
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<b>CONVEYING SYSTEMS .....</b>	<b>5.014.000</b>
Dumbwaiters .....	5.014.050
Elevators .....	5.014.100
Moving Stairs and Walks .....	5.014.150
Conveyors and Chutes .....	5.014.200
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<b>ELECTRICAL .....</b>	<b>5.016.000</b>
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<b>HOTEL EQUIPMENT .....</b>	<b>5.020.000</b>
<b>SUPERMARKET EQUIPMENT .....</b>	<b>5.030.000</b>
Display Cases .....	5.030.050
<b>RESTAURANT EQUIPMENT .....</b>	<b>5.040.000</b>
<b>THEATRE EQUIPMENT .....</b>	<b>5.044.000</b>
<b>BANK EQUIPMENT .....</b>	<b>5.049.000</b>
<b>FERTILIZER EQUIPMENT .....</b>	<b>5.052.000</b>
<b>AUTOMOTIVE EQUIPMENT .....</b>	<b>5.075.000</b>
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Water & Lubrication Dispensers .....	5.075.100
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Vehicle Hoists .....	5.075.250
Vehicle Exhaust Systems .....	5.075.275
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Micro Computer Controlled Fuel Dispensing System .....	5.075.400
Modular Electronic Control Fuel Dispensing System .....	5.075.450
Motor Vehicle Propane Fuel Dispensing System .....	5.075.500
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<b>BULK OIL EQUIPMENT .....</b>	<b>5.077.000</b>
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Propane & Anhydrous Ammonia Equipment .....	5.077.150
<b>GRAIN TANKS &amp; DRYING EQUIPMENT .....</b>	<b>5.085.000</b>
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**SCHEDULE 5****COMMERCIAL UNIT COSTS  
ALPHABETICAL INDEX**

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	Anhydrous Ammonia & Propane Equipment .....	<b>5.077.150</b>
	Archribs — wood .....	<b>5.006.155</b>
	Automotive Equipment .....	<b>5.075.000</b>
<b>B</b>	Backfill .....	<b>5.002.215</b>
	Bank Equipment .....	<b>5.049.000</b>
	Beams — concrete .....	<b>5.003.185</b>
	— glued, laminated .....	<b>5.006.165</b>
	— wood (including posts) .....	<b>5.006.055</b>
	Blockwork — concrete .....	<b>5.004.100</b>
	Brickwork .....	<b>5.004.050</b>
	Bulk Oil Plant Equipment .....	<b>5.077.000</b>
<b>C</b>	Cabinets (kitchen, vanities) .....	<b>5.011.050</b>
	Caissons (piles) .....	<b>5.002.275</b>
	Carpeting .....	<b>5.009.515</b>
	Car Wash Systems .....	<b>5.075.300</b>
	Ceilings .....	<b>5.009.400</b>
	Ceiling Suspension Systems .....	<b>5.009.430</b>
	Cinema Equipment .....	<b>5.011.610</b>
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	— floor & roof framing systems .....	<b>5.003.300</b>
	— steel pipe .....	<b>5.005.100</b>
	— structural steel .....	<b>5.005.055</b>
	Component Cost Section .....	<b>5.900.000</b>
	Compressed Air Equipment .....	<b>5.075.050</b>
	Concrete — blockwork .....	<b>5.004.100</b>
	— cast-in-place .....	<b>5.003.150</b>
	— formwork .....	<b>5.003.050</b>
	— precast .....	<b>5.003.350</b>
	— reinforcement .....	<b>5.003.100</b>
	— specially finished .....	<b>5.003.500</b>
	— stairs .....	<b>5.003.450</b>
	— suspended floor or roof .....	<b>5.003.250</b>
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	Conveyors & Chutes .....	<b>5.014.200</b>
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	Cubicles and Compartments (toilet, shower) .....	<b>5.010.150</b>
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<b>D</b>	Dampproofing .....	<b>5.007.065</b>
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	Dishwashing Equipment .....	<b>5.011.260</b>
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Doors — metal .....	5.008.050
— wood (exterior) .....	5.008.100
— wood (interior) .....	5.008.150
— special (overhead, revolving, sliding) .....	5.008.200
— automatic equipment, hoists, etc. ....	5.008.350
— refrigeration .....	5.013.140
Drainage (weeping tile) .....	5.002.350
Dumbwaiters .....	5.014.050
<b>E</b> Eaves Troughs (rainwater disposal) .....	5.007.350
Electrical .....	5.016.000
Elevators .....	5.014.100
Escalators .....	5.014.155
Excavation .....	5.002.200
<b>F</b> Fans — air distribution .....	5.015.625
— commercial kitchen (and hoods) .....	5.011.170
Fences .....	5.002.415
Fertilizer Equipment .....	5.052.000
Finishes (interior, exterior) .....	5.009.000
Fire Extinguisher (hood mounted <sup>0</sup> 02) .....	5.011.175
Fire Protection Systems .....	5.015.500
Fixtures — lighting .....	5.016.500
— plumbing .....	5.015.240
Flashing .....	5.007.365
Flooring .....	5.009.500
Formwork (for concrete) .....	5.003.050
Footings .....	5.003.160
Foundation Walls .....	5.003.170
Framing — structural .....	5.006.050
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— Propane (Motor Vehicles) .....	5.075.500
<b>G</b> Garbage Compactors .....	5.011.360
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Grain Tanks & Drying Equipment .....	5.085.000
Granite .....	5.004.190
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<b>H</b> Handrails, Railings .....	5.005.315
Heaters .....	5.015.620
— hot water .....	5.015.235
Hoods & Fans (commercial kitchen) .....	5.011.170
Hoists — (and cranes) .....	5.014.300
— dumbwaiters .....	5.014.050
— door .....	5.008.365
— vehicle .....	5.075.250
Hotel Equipment .....	5.020.000
<b>I</b> Insulation — roof and deck .....	5.007.150
— wall .....	5.007.100
Intercom Systems (apartment) .....	5.011.400

<b>J</b>	Joint Reinforcement (masonry) .....	<b>5.004.255</b>
	Joists — concrete (purlin) .....	<b>5.003.420</b>
	— steel .....	<b>5.005.150</b>
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<b>K</b>	Kitchen Cabinets .....	<b>5.011.055</b>
<b>L</b>	Ladders (metal) .....	<b>5.005.310</b>
	Laminated Beams .....	<b>5.006.160</b>
	Lathing (and furring) .....	<b>5.009.150</b>
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	— poles .....	<b>5.075.370</b>
	Loading & Unloading Equipment (Bulk Oil) .....	<b>5.077.100</b>
	Loading Dock Equipment .....	<b>5.011.550</b>
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<b>M</b>	Mail (chutes, boxes) .....	<b>5.010.200</b>
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	Masonry .....	<b>5.004.000</b>
	— accessories .....	<b>5.004.250</b>
	Metals .....	<b>5.005.000</b>
	Millwork .....	<b>5.009.325</b>
	Moving Walks .....	<b>5.014.150</b>
<b>P</b>	Pads (concrete) .....	<b>5.003.165</b>
	Painting .....	<b>5.009.320</b>
	Paint Spray Booths .....	<b>5.075.550</b>
	Panelling (wood) .....	<b>5.009.305</b>
	Panels — precast concrete .....	<b>5.003.350</b>
	— sandwich .....	<b>5.009.075</b>
	— specialty .....	<b>5.009.425</b>
	Parging (stucco) .....	<b>5.009.055</b>
	Parking Equipment .....	<b>5.011.500</b>
	Partitions .....	<b>5.009.350</b>
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	Pilasters .....	<b>5.004.115</b>
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	Plaster .....	<b>5.009.200</b>
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	— flooring (poured) .....	<b>5.009.525</b>
	— structural .....	<b>5.006.300</b>
	Plumbing .....	<b>5.015.200</b>
	— fixtures .....	<b>5.015.240</b>
	— specialties .....	<b>5.015.250</b>
	Pneumatic Tube System .....	<b>5.014.250</b>
	Posts — steel .....	<b>5.005.100</b>
	— wood (and beams) .....	<b>5.006.055</b>
	Postal (boxes, chutes) .....	<b>5.010.200</b>
	Precast Concrete .....	<b>5.003.350</b>
	Propane — (& anhydrous ammonia) Equipment .....	<b>5.077.150</b>
	— Motor Vehicle Fueling .....	<b>5.075.500</b>
<b>R</b>	Railings, handrails (metal) .....	<b>5.005.315</b>
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	— doors .....	<b>5.013.140</b>
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	Restaurant Equipment .....	<b>5.040.000</b>

Roof — drainage .....	5.007.360
— insulation .....	5.007.150
— trusses .....	5.006.080
Roofing .....	5.007.250
<b>S</b> Scales (livestock, truck) .....	5.010.300
Security Systems (apartment) .....	5.011.400
Sheathing — wood (wall) .....	5.006.210
Sheet Piling .....	5.002.280
Shingles (roofing) .....	5.007.250
Shower (compartments, cubicles) .....	5.010.150
Siding (exterior finish) .....	5.009.050
Sinks (commercial & industrial) .....	5.015.245
Skylights .....	5.008.700
Snow Melting Equipment .....	5.013.200
Spread Pad Footings .....	5.003.165
— forms .....	5.003.060
Sprinkler Systems — automatic (fire) .....	5.015.505
— remote .....	5.015.510
Stairs — circular .....	5.005.307
— concrete .....	5.003.450
— metal .....	5.005.305
— wood .....	5.006.255
Steel (construction) .....	5.005.000
Stone (masonry) .....	5.004.150
Strip Footings .....	5.003.160
Stucco .....	5.009.055
Studding — steel .....	5.005.255
— wood .....	5.006.075
Subfloors (wood) .....	5.006.204
Supermarket Equipment .....	5.030.000
Suspended Floor or Roof Framing Systems .....	5.003.250
<b>T</b> Tank — above ground .....	5.077.055
— manifolds .....	5.077.070
— underground .....	5.075.205
— waste oil .....	5.075.210
Terrazo (special flooring) .....	5.009.525
Theatre Equipment .....	5.044.000
Tile — ceiling .....	5.009.405
— ceramic .....	5.009.315
— flooring .....	5.009.510
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Tire — fitting & removing equipment .....	5.075.065
— inflators .....	5.075.060
Toilet — compartments, cubicles .....	5.010.150
Trusses (wood) .....	5.006.080
<b>U</b> Underpinning .....	5.002.285
<b>V</b> Vapour Barrier .....	5.007.055
Vehicle — hoists .....	5.075.250
— propane fueling outlet .....	5.075.500
— wash systems .....	5.075.300

<b>W</b> Wallboard (gypsum) .....	<b>5.009.250</b>
Wallpaper (coverings) .....	<b>5.009.310</b>
Water Reel .....	<b>5.075.105</b>
Water Repellant Coating .....	<b>5.007.075</b>
Water Treatment (softeners) .....	<b>5.015.225</b>
Waterproofing .....	<b>5.007.060</b>
Weeping Tile .....	<b>5.002.355</b>
Windows — framing systems .....	<b>5.008.500</b>
— glazing .....	<b>5.008.750</b>
— skylights .....	<b>5.008.700</b>



**5.002.000 SITEWORK****5.002.050 DEMOLITION****5.002.055 LIGHT DEMOLITION** no salvage

	<b>m<sup>3</sup></b>
Low rise building	<b>\$ 9.60</b>

**5.002.060 HEAVY DEMOLITION**

<b>Concrete</b>	<b>m<sup>2</sup></b>
Foundation walls 300 mm	
Unreinforced	<b>\$ 32.00</b>
Reinforced	<b>65.50</b>
Slab-on-grade 100 mm	
Unreinforced	<b>7.50</b>
Reinforced	<b>12.00</b>
<b>Steel</b>	<b>19.50</b>

**5.002.160 STOCKPILE TOPSOIL**

	<b>m<sup>3</sup></b>
Strip and Stockpile topsoil	<b>\$ 2.20</b>

**5.002.165 SITE LEVELLING**

	<b>m<sup>2</sup></b>
Site grading	<b>\$ 0.70</b>

**5.002.200 EXCAVATION & BACKFILL****5.002.205 MACHINE EXCAVATION**

	<b>m<sup>3</sup></b>
Bulk Excavation incl. Disposal	<b>\$ 9.90</b>
Trench Excavation for Footing foundation walls	<b>14.00</b>

**Note:** To obtain cubical contents of bulk excavation add 1.2 m to length and width of basement for wall forms and working space.

**5.002.210 HAND EXCAVATION**

	<b>m<sup>3</sup></b>
Normal Soil	<b>\$ 42.00</b>

**5.002.215 BACKFILL**

	<b>m<sup>3</sup></b>
Excavated material and gravel	<b>\$ 13.50</b>

	<b>m<sup>2</sup></b>
Backfill for foundation walls below grade	<b>\$ 8.30</b>

**5.002.217 SAND AND GRAVEL FILL**

	<b>m<sup>2</sup></b>
75 mm	<b>\$ 1.30</b>
100 mm	<b>1.60</b>
125 mm	<b>2.20</b>
150 mm	<b>2.70</b>
300 mm	<b>5.30</b>
600 mm	<b>10.50</b>

	<b>m<sup>3</sup></b>
19 mm crushed stone	<b>\$ 24.00</b>

**5.002.220 DISPOSAL**

	<b>m<sup>3</sup></b>
Hauling	<b>\$ 5.60</b>

**5.002.250 PILE FOUNDATIONS****5.002.260 PRECAST CONCRETE PILES**

	<b>m</b>
300 x 300 mm	<b>\$ 82.50</b>
400 x 400 mm	<b>99.00</b>

**5.002.265 STEEL PILES**

	<b>m</b>
Steel H-Piles 300 mm, 79 kg/m	<b>\$ 120.00</b>
Steel pipe piles concrete filled 250 mm	<b>80.00</b>

**5.002.270 FRICTION PILES**

	<b>m</b>
300 mm	<b>\$ 15.50</b>
350 mm	<b>22.00</b>
400 mm	<b>25.00</b>

**5.002.275 CAISSONS**

<b>Drilled Bell Caissons</b>	<b>m</b>
400 mm	<b>\$ 47.00</b>
600 mm	<b>70.00</b>
750 mm	<b>97.00</b>
900 mm	<b>140.00</b>

**Note:** For structures, such as small warehouses, stores or offices 400 mm diameter friction piles approximately 6 m deep are usually sufficient. For other structures normally 1.00 percent to a maximum of 2.00 percent of total building cost is considered average for piling cost.

**5.002.280 SHEET PILING** left in place

	<b>m<sup>2</sup></b>
147 kg/m <sup>2</sup>	<b>\$ 258.00</b>

**5.002.285 UNDERPINNING** including

	<b>m<sup>3</sup></b>
Excavation and support concrete	<b>\$ 663.00</b>

**5.002.350 SITE DRAINAGE****5.002.355 WEEPING-TILE** perforated

	<b>m</b>
100 mm	<b>\$ 14.50</b>
150 mm	<b>20.50</b>

**5.002.400 SITE IMPROVEMENTS****5.002.405 PAVING**

<b>Bituminous Paving including gravel base</b>	<b>m<sup>2</sup></b>
50mm layer	<b>\$11.50</b>
75mm layer	<b>\$15.00</b>

**NOTE: Concrete paving see section 5.003.190**

**5.002.410 CURBS** precast

	<b>m</b>
<b>200 x 150 mm</b>	<b>\$ 23.50</b>

**5.002.415 GAURDRAILS AND POSTS**

Bumper Posts, 1.2 m painted steel pipe with concrete fill	<b>EA</b>	<b>\$100</b>
Guardrails, painted metal and posts	<b>per m</b>	<b>\$49.00</b>

**5.002.420 PARKING LOT PLUG-INS**

Double weatherproof receptacle, 2 stalls per post		
On building meter	<b>per stall</b>	<b>\$190</b>
On suite meter	<b>per stall</b>	<b>\$220</b>
Double weatherproof receptacle, 4 stalls per post		
On building meter	<b>per stall</b>	<b>\$130</b>
On suite meter	<b>per stall</b>	<b>\$160</b>

## 5.002.430 FENCES

Chain Link galvanized steel posts and wire mesh		No Security Top m	With Security Top m
	Height		
<b>11 Gauge</b>	1.2 m	\$ 17.00	\$ -
	1.5 m	21.50	-
	1.8 m	22.00	23.50
<b>9 Gauge</b>	1.2 m	\$ 20.50	-
	1.5 m	22.00	-
	1.8 m	26.00	28.00
	2.1 m	29.50	31.00
	2.4 m	33.00	35.00
	3.7 m	43.00	45.50
Height adjustment, per 300 mm, <b>add</b>		\$ 2.50	\$ 2.60
<b>6 Gauge</b>	1.8 m	\$ 36.50	\$ 38.00
	2.4 m	45.00	47.00
	3.7 m	64.00	66.50
Height adjustment, per 300 mm, <b>add</b>		\$ 4.80	\$ 4.90

**Note:** 11 Gauge fence is considered light-weight and is used for minimum security or protective purposes.

9 Gauge fencing is medium weight and the most commonly used for commercial and industrial purposes.

6 Gauge fencing is heavy duty and used only in high-risk security areas such as jails, defense establishments and/or where greater heights are necessary.

**Watchman** with T-rail steel posts and 150 x 150 mm page-wire mesh

Height	No Security Top m	With Security Top m
1.5 m	\$ 11.00	\$ 13.50
1.8 m	12.50	14.50
2.1 m	14.50	16.50

**5.002.435 TENNIS COURT FENCES**

Includes tennis net posts, enclosure fence with galvanized steel posts

<b>50 mm galvanized chain link mesh</b>		<b>m</b>
3.0 m high	\$	<b>41.00</b>
3.7 m high		<b>51.00</b>
Height adjustment, per 300 mm	<b>add or deduct</b>	<b>5.00</b>
<b>38 mm vinyl clad chain link mesh</b>		<b>m</b>
3.0 m high	\$	<b>47.00</b>
3.7 m high		<b>52.50</b>
Height adjustment, per 300 mm	<b>add or deduct</b>	<b>6.50</b>
<b>Tennis Court Man Gates, 0.9 m wide, up to 3.0 m high</b>		
Galvanized chain link mesh	<b>add EA</b>	<b>\$ 380</b>
Vinyl clad chain link mesh	<b>add EA</b>	<b>440</b>

**Note:** For a complete tennis court cost, additions must be made for excavation, fill, and surface finish such as asphalt, etc.

**5.002.440 BALL PARK BACKSTOPS**

Screen fencing for baseball or softball parks, including galvanized steel posts and chain link mesh with 1.2 m sloped overhang.

		<b>m</b>
3.7 m high and overhang		<b>\$ 148.00</b>
4.9 m high and overhang		<b>189.00</b>
6.1 m high and overhang		<b>205.00</b>
Height adjustment, per 300 mm	<b>add or deduct</b>	<b>\$ 40.00</b>

**Note:** The sloped projecting overhang is not part of the height adjustment. Height refers only to the vertical wall portion of the backstop screen.

**5.002.450 GATES**

**Vehicle Access** galvanized steel posts and chain link mesh

	<b>Height</b>	<b>No Security Top</b>		<b>With Security Top</b>	
		<b>m</b>	<b>\$</b>	<b>m</b>	<b>\$</b>
<b>Swing Type</b>	1.5 m		<b>72.00</b>		<b>88.00</b>
	1.8 m		<b>85.00</b>		<b>101.00</b>
	2.4 m		<b>113.00</b>		<b>132.00</b>
	3.7 m		<b>132.00</b>		<b>137.00</b>
<b>Sliding Type</b>	1.5 m		<b>183.00</b>		<b>200.00</b>
	1.8 m		<b>197.00</b>		<b>213.00</b>
	2.4 m		<b>225.00</b>		<b>230.00</b>
	3.7 m		<b>244.00</b>		<b>249.00</b>

**Man Gates** galvanized steel posts and chain link mesh 0.9 to 1.2 m wide

<b>Height</b>	<b>Each</b>
1.5 m	<b>\$ 240</b>
1.8 m	<b>260</b>
2.1 m	<b>280</b>
2.4 m	<b>310</b>
3.7 m	<b>400</b>

**5.002.455 GATE CONTROLS**

Where mechanical assisted and activated access or gate security control is required, the following items may be encountered and must be added to the costs of a standard gate system.

<b>Electric Slide Gate Operator</b> , includes concrete pad, metal housing, electric motor and drive, installation and push button controls	<b>EA</b>	<b>\$ 5 400</b>
<b>Electric Swing Gate Operator</b> , all specifications as the slide operator plus swing arm	<b>EA</b>	<b>\$ 6 000</b>
Telephone access station	<b>add EA</b>	<b>\$ 4 000</b>
Magnetic card station	<b>add EA</b>	<b>800</b>
Intercom station	<b>add EA</b>	<b>500</b>
Key lock station	<b>add EA</b>	<b>1 000</b>
Time clock control station	<b>add EA</b>	<b>500</b>
Radio transmitter control station	<b>add EA</b>	<b>350</b>
Combination code lock station	<b>add EA</b>	<b>2 000</b>
Vehicle loop detector system	<b>add EA</b>	<b>3 000</b>
<b>Micro Card Access Control System</b> - consists of 3 major components - one programmable micro card reader station, a central control micro computer programmer, and a micro printer verification status and data record control system	<b>EA</b>	<b>\$ 17 500</b>
Additional micro card reader stations	<b>EA</b>	<b>\$ 4 500</b>

**5.003.000 CONCRETE****5.003.050 FORMWORK****5.003.055 STRIP FOOTING FORMS 2 sides**

150 mm m	200 mm m	300 mm m
\$ 8.80	\$ 11.50	\$ 14.50

**Note:** For stepped footing increase above rates by 12.5%.

**5.003.060 SPREAD FOOTING (Pad) FORMS**

150 mm m	200 mm m	300 mm m
\$ 4.40	\$ 5.90	\$ 8.80

**5.003.065 FOUNDATION WALL AND GRADEBEAM FORMS**

	m <sup>2</sup>
2 sides	\$ 60.50

**5.003.070 SLAB ON GRADE FORMS**

	m
per 25 mm of thickness	\$ 0.70

**5.003.100 CONCRETE REINFORCEMENT****5.003.105 REINFORCING BARS installed per tonne \$ 840.00**

Steel Bars	Bar Sizes mm	Unit Weight kg/m	kg
	10	0.785	\$ 1.00
	15	1.570	1.00
	20	2.355	0.80
	25	3.925	0.80
	30	5.495	0.80
	35	7.850	0.80
	45	11.775	0.80
	55	19.625	0.80

**5.003.110 REINFORCING MESH 150 x 150 mm**

Wire Diameter mm	m <sup>2</sup>
4.88 x 4.88	\$ 2.90
4.12 x 4.12	2.10
3.40 x 3.40	2.00

**5.003.120 REINFORCING** in place

<b>Walls, floors</b>		<b>m<sup>2</sup></b>
Light	\$ 1.60 to 5.40	
Medium	5.40 to 11.00	
Heavy	11.00 to 21.50	
Extra Heavy	21.50 to 24.00	
<b>Strip Footings</b>		<b>m</b>
Light one 15 mm bar	\$ 1.50	
Medium two 15 mm bars	3.00	
Heavy four 15 mm bars	5.90	

**5.003.150 CAST-IN-PLACE CONCRETE****5.003.155 CONCRETE**

	<b>m<sup>3</sup></b>
25 MPa up to 150 mm	\$ 86.00
35 MPa over 150 mm	110.00

**5.003.160 STRIP FOOTINGS** unreinforced

<b>Width</b>	<b>Depth</b>			
	<b>150 mm m</b>	<b>200 mm m</b>	<b>250 mm m</b>	<b>300 mm m</b>
<b>300 mm</b>	<b>\$ 12.00</b>	<b>\$ 16.00</b>	<b>\$ 20.00</b>	<b>\$ 24.00</b>
<b>350 mm</b>	<b>12.50</b>	<b>17.00</b>	<b>21.00</b>	<b>25.50</b>
<b>400 mm</b>	<b>13.50</b>	<b>17.50</b>	<b>22.00</b>	<b>26.50</b>
<b>450 mm</b>	<b>14.00</b>	<b>18.50</b>	<b>23.00</b>	<b>28.00</b>
<b>500 mm</b>	<b>14.50</b>	<b>19.50</b>	<b>24.50</b>	<b>29.00</b>
<b>550 mm</b>	<b>15.00</b>	<b>20.50</b>	<b>25.50</b>	<b>30.50</b>
<b>600 mm</b>	<b>16.00</b>	<b>21.00</b>	<b>26.50</b>	<b>32.00</b>

**5.003.165 SPREAD PAD FOOTINGS**

<b>Unreinforced</b>			
600 x 600 x 150 mm		EA \$	15
750 x 750 x 200 mm		EA	27
750 x 750 x 300 mm		EA	39
900 x 900 x 300 mm		EA	51
1 200 x 1 200 x 300 mm		EA	76
1 200 x 1 200 x 450 mm		EA	110
1 500 x 1 500 x 450 mm		EA	160
<b>Reinforced</b>			
900 x 900 x 250 mm		EA \$	47
1 200 x 1 200 x 250 mm		EA	85
1 500 x 1 500 x 300 mm		EA	150
1 800 x 1 800 x 375 mm		EA	240
2 100 x 2 100 x 425 mm		EA	360
2 400 x 2 400 x 500 mm		EA	520
2 700 x 2 700 x 575 mm		EA	740
3 000 x 3 000 x 625 mm		EA	950
3 600 x 3 600 x 725 mm		EA	1 600
3 900 x 3 900 x 775 mm		EA	1 900
4 200 x 4 200 x 825 mm		EA	2 400
4 500 x 4 500 x 875 mm		EA	2 900



**5.003.170 FOUNDATION WALLS** unreinforced

	m <sup>2</sup>
150 mm	\$ 53.00
200 mm	56.50
250 mm	59.00
300 mm	62.50

**5.003.175 CONCRETE GRADEBEAMS** reinforced

Depth	Width		
	200 mm m	300 mm m	450 mm m
600 mm	\$ 57.00	\$ 65.50	\$ 79.50
900 mm	83.00	97.00	118.00
1 200 mm	112.00	128.00	155.00
1 500 mm	-	160.00	195.00
1 800 mm	-	191.00	232.00

**5.003.180 CONCRETE COLUMNS** reinforced

	Square m	Round m
300 mm	\$ 64.00	\$ ---
400 mm	91.50	60.00
500 mm	121.00	78.00
600 mm	156.00	92.00
700 mm	195.00	125.00
800 mm	245.00	151.00
900 mm	272.00	186.00
1 000 mm	312.00	230.00

**5.003.185 CONCRETE BEAMS reinforced**

Depth	Width		
	200 mm m	250 mm m	300 mm m
200 mm	\$ 29.50	\$ -	\$ -
250 mm	39.00	43.00	-
300 mm	44.00	48.50	53.50
350 mm	50.00	55.50	61.00
400 mm	56.00	60.50	66.50
450 mm	62.00	66.50	72.50
500 mm	66.50	73.00	79.50
550 mm	74.00	80.00	85.00
600 mm	79.00	87.00	91.50

Over 600 mm deep, beam becomes a Slab Band or Beam laid flat

750 mm	66.50	77.00	93.50
900 mm	71.00	89.50	107.00
1 050 mm	87.50	98.50	120.00
1 200 mm	96.50	109.00	134.00

Depth	Width		
	350 mm m	400 mm m	450 mm m
350 mm	\$ 66.50	\$ -	\$ -
400 mm	70.50	76.50	-
450 mm	78.00	85.00	88.50
500 mm	84.50	90.50	96.50
550 mm	91.50	98.00	107.00
600 mm	100.00	104.00	112.00

Over 600 mm deep, beam becomes a Slab Band or Beam laid flat

750 mm	103.00	113.00	122.00
900 mm	118.00	128.00	139.00
1 050 mm	132.00	144.00	156.00
1 200 mm	146.00	159.00	173.00

Depth	Width		
	500 mm m	550 mm m	600 mm m
500 mm	\$ 105.00	\$ -	\$ -
550 mm	113.00	116.00	-
600 mm	118.00	125.00	131.00

Over 600 mm deep, beam becomes a Slab Band or Beam laid flat

750 mm	131.00	142.00	151.00
900 mm	150.00	161.00	172.00
1 050 mm	168.00	180.00	192.00
1 200 mm	186.00	199.00	211.00

**5.003.190 SLAB ON GRADE** unreinforced

	<b>m<sup>2</sup></b>
50 mm	<b>\$ 7.20</b>
75 mm	<b>8.90</b>
100 mm	<b>11.00</b>
125 mm	<b>13.00</b>
150 mm	<b>15.00</b>
175 mm	<b>17.00</b>
200 mm	<b>19.00</b>
225 mm	<b>21.50</b>
250 mm	<b>23.50</b>
300 mm	<b>27.50</b>

**5.003.195 CONCRETE SLAB** for metal deck, unreinforced

	<b>m<sup>2</sup></b>
50 mm	<b>\$ 7.50</b>
64 mm	<b>8.60</b>
75 mm	<b>9.50</b>
88 mm	<b>10.50</b>
100 mm	<b>11.50</b>
113 mm	<b>12.50</b>
125 mm	<b>13.50</b>
138 mm	<b>14.50</b>
150 mm	<b>15.50</b>

**Note:** add for reinforcing

**5.003.200 CONCRETE SLAB**, exposed aggregate, unreinforced

	<b>m<sup>2</sup></b>
50 mm	<b>\$ 16.00</b>
75 mm	<b>18.00</b>
100 mm	<b>20.00</b>
125 mm	<b>22.00</b>
150 mm	<b>24.00</b>
175 mm	<b>28.50</b>
200 mm	<b>30.50</b>
225 mm	<b>32.50</b>
250 mm	<b>34.50</b>
300 mm	<b>38.50</b>

**5.003.205 CONCRETE TOPPING**

	<b>m<sup>2</sup></b>
25 mm	<b>\$ 5.10</b>
38 mm	<b>6.90</b>
50 mm foamcell	<b>8.30</b>

**5.003.250 SUSPENDED FLOOR OR ROOF FRAMING SYSTEMS**

<b>Type</b>	<b>Bay Size</b>	<b>Live Loads</b>		
		<b>2.4 kN/m<sup>2</sup> m<sup>2</sup></b>	<b>4.8 kN/m<sup>2</sup> m<sup>2</sup></b>	<b>9.6 kN/m<sup>2</sup> m<sup>2</sup></b>
<b>Flat Plate</b>	4.6 x 4.6 m	\$ 45.00	\$ 49.50	\$ -
	4.6 x 6.1 m	49.00	55.00	-
	4.6 x 7.6 m	55.50	62.00	-
	4.6 x 9.1 m	60.00	68.00	-
	6.1 x 6.1 m	50.50	55.00	-
	6.1 x 9.1 m	61.00	66.50	-
	6.1 x 12.2 m	73.00	81.00	-
	7.6 x 7.6 m	57.00	62.50	-
	7.6 x 10.7 m	66.50	73.50	-
	7.6 x 12.2 m	79.50	-	-
7.6 x 13.7 m	-	88.50	-	
<b>One-Way Joist Slab</b>	4.6 x 6.1 m	\$ 46.00	\$ 49.00	\$ -
	4.6 x 7.6 m	47.00	51.50	-
	4.6 x 9.1 m	48.50	52.50	-
	6.1 x 9.1 m	50.50	55.00	-
	6.1 x 10.7 m	52.50	57.00	-
	6.1 x 12.2 m	56.50	62.00	-
	7.6 x 12.2 m	58.50	65.00	-
	7.6 x 13.7 m	-	68.00	-
<b>One-Way Beam and Slab</b>	4.6 x 6.1 m	\$ 55.00	\$ 59.00	\$ 69.00
	6.1 x 7.6 m	59.50	62.00	72.00
	7.6 x 9.1 m	63.50	69.00	80.00
	7.6 x 12.2 m	69.50	-	-
	10.7 x 13.7 m	-	104.00	-
<b>Two-Way Beam and Slab</b>	4.6 x 6.1 m	-	\$ 63.50	\$ 71.50
	6.1 x 7.6 m	-	70.50	80.50
	7.6 x 9.1 m	-	79.50	91.00
<b>Flat Slab</b>	6.1 x 6.1 m	\$ 53.00	\$ 56.50	\$ 63.00
	6.1 x 9.1 m	65.00	70.00	78.50
	6.1 x 12.2 m	78.00	85.00	97.50
	7.6 x 7.6 m	60.00	64.50	76.00
	7.6 x 10.7 m	71.00	76.50	-
	7.6 x 12.2 m	84.00	-	91.00
	7.6 x 13.7 m	-	91.50	111.00
	9.1 x 9.1 m	67.50	-	83.50
	9.1 x 12.2 m	78.50	82.50	99.50
	9.1 x 13.7 m	-	84.50	-
	9.1 x 15.2 m	91.00	99.00	116.00

**5.003.250 SUSPENDED FLOOR OR ROOF FRAMING SYSTEMS - CONT'D**

		<b>Live Loads</b>		
Type	Bay Size	2.4 kN/m <sup>2</sup> m <sup>2</sup>	4.8 kN/m <sup>2</sup> m <sup>2</sup>	9.6 kN/m <sup>2</sup> m <sup>2</sup>
<b>Waffle Slab (1 m Modules)</b>	7.6 x 7.6 m	\$ 51.50	\$ 56.00	\$ -
	7.6 x 10.7 m	54.50	60.00	-
	7.6 x 12.2 m	61.00	-	-
	7.6 x 13.7 m	-	67.00	-
	9.1 x 9.1 m	54.00	-	-
	9.1 x 12.2 m	60.00	59.50	-
	9.1 x 13.7 m	-	66.00	-
	9.1 x 15.2 m	66.00	66.50	-
	10.7 x 10.7 m	60.00	66.50	-
	10.7 x 13.7 m	66.00	73.50	-
	10.7 x 16.8 m	72.00	80.50	-
	12.2 x 12.2 m	65.00	72.00	-
	12.2 x 15.2 m	69.00	76.50	-
	12.2 x 18.3 m	76.50	85.00	-
<b>Waffle Slab (1.5 m Modules)</b>	7.6 x 7.6 m	\$ -	\$ 52.00	\$ -
	9.1 x 12.2 m	-	60.50	-
	9.1 x 13.7 m	-	63.50	-
	9.1 x 15.2 m	-	66.00	-
	10.7 x 10.7 m	-	59.50	-
	12.2 x 12.2 m	-	63.00	-
	12.2 x 15.2 m	-	68.00	-
	15.2 x 15.2 m	-	73.50	-

**5.003.300 FLOOR & ROOF FRAMING SYSTEM COLUMNS****5.003.305 INTERIOR COLUMNS**

Type	Bay Size	Live Loads		
		2.4 kN/m <sup>2</sup> m	4.8 kN/m <sup>2</sup> m	9.6 kN/m <sup>2</sup> m
<b>Flat Plate</b>	4.6 x 4.6 m	\$ 64.00	\$ 64.00	\$ -
	4.6 x 6.1 m	64.00	90.00	-
	4.6 x 7.6 m	80.50	90.50	-
	4.6 x 9.1 m	97.00	103.00	-
	6.1 x 6.1 m	78.00	81.50	-
	6.1 x 9.1 m	112.00	129.00	-
	6.1 x 12.2 m	163.00	174.00	-
	7.6 x 7.6 m	112.00	122.00	-
	7.6 x 10.7 m	161.00	174.00	-
	7.6 x 13.7 m	237.00	251.00	-
	9.1 x 9.1 m	157.00	-	-
<b>One-Way Joist Slab</b>	4.6 x 6.1 m	\$ -	\$ 67.50	\$ -
	4.6 x 7.6 m	-	70.50	-
	4.6 x 9.1 m	-	77.50	-
	6.1 x 9.1 m	-	94.00	-
	6.1 x 10.7 m	-	111.00	-
	6.1 x 12.2 m	-	132.00	-
	7.6 x 12.2 m	-	157.00	-
	7.6 x 13.7 m	-	176.00	-
<b>One-Way Beam and Slab</b>	4.6 x 6.1 m	\$ 64.00	\$ 64.00	\$ 69.00
	6.1 x 7.6 m	68.00	74.50	81.50
	7.6 x 9.1 m	87.00	98.50	110.00
<b>Flat Slab</b>	6.1 x 6.1 m	\$ 78.00	\$ 81.50	\$ -
	6.1 x 9.1 m	101.00	116.00	-
	6.1 x 12.2 m	149.00	166.00	-
	7.6 x 7.6 m	78.00	163.00	-
	7.6 x 10.7 m	163.00	175.00	-
	7.6 x 13.7 m	214.00	251.00	-
	9.1 x 9.1 m	157.00	166.00	-
	9.1 x 12.2 m	214.00	227.00	-
	9.1 x 15.2 m	289.00	306.00	-
<b>Waffle Slab (1 m Modules)</b>	7.6 x 7.6 m	-	\$ 107.00	\$ -
	7.6 x 10.7 m	-	139.00	-
	7.6 x 13.7 m	-	178.00	-
	9.1 x 9.1 m	-	138.00	-
	9.1 x 12.2 m	-	186.00	-
	9.1 x 15.2 m	-	243.00	-
	10.7 x 10.7 m	-	189.00	-
	10.7 x 13.7 m	-	251.00	-
	10.7 x 16.8 m	-	319.00	-
	12.2 x 12.2 m	-	249.00	-
	12.2 x 15.2 m	-	310.00	-
	12.2 x 18.3 m	-	390.00	-
	15.2 x 15.2 m	-	410.00	-

**5.003.305 INTERIOR COLUMNS - CONT'D**

<b>Type</b>	<b>Bay Size</b>	<b>Live Loads</b>		
		<b>2.4 kN/m<sup>2</sup></b>	<b>4.8 kN/m<sup>2</sup></b>	<b>9.6 kN/m<sup>2</sup></b>
		<b>m</b>	<b>m</b>	<b>m</b>
<b>Waffle Slab</b>	7.6 x 7.6 m	\$-	\$ 99.00	\$ -
<b>(1.5 m Modules)</b>	7.6 x 10.7 m	-	135.00	-
	7.6 x 13.7 m	-	165.00	-
	9.1 x 9.1 m	-	139.00	-
	9.1 x 12.2 m	-	174.00	-
	9.1 x 15.2 m	-	212.00	-
	10.7 x 10.7 m	-	178.00	-
	10.7 x 13.7 m	-	222.00	-
	10.7 x 16.8 m	-	255.00	-
	12.2 x 12.2 m	-	225.00	-
	12.2 x 15.2 m	-	279.00	-
	12.2 x 18.3 m	-	353.00	-
	15.2 x 15.2 m	-	371.00	-

**5.003.310 EXTERIOR COLUMNS**

<b>Type</b>	<b>Bay Size</b>	<b>Live Loads</b>		
		<b>2.4 kN/m<sup>2</sup></b>	<b>4.8 kN/m<sup>2</sup></b>	<b>9.6 kN/m<sup>2</sup></b>
		<b>m</b>	<b>m</b>	<b>m</b>
<b>Flat Plate</b>	4.6 x 4.6 m	\$ 64.00	\$ 64.00	\$ -
	4.6 x 6.1 m	64.00	64.00	-
	4.6 x 7.6 m	64.00	64.00	-
	4.6 x 9.1 m	64.00	64.00	-
	6.1 x 6.1 m	64.00	64.00	-
	6.1 x 9.1 m	77.00	78.00	-
	6.1 x 12.2 m	109.00	112.00	-
	7.6 x 7.6 m	72.00	78.00	-
	7.6 x 10.7 m	106.00	122.00	-
	7.6 x 13.7 m	139.00	156.00	-
	9.1 x 9.1 m	99.50	-	-

## 5.003.310 EXTERIOR COLUMNS - CONT'D

Type	Bay Size	Live Loads		
		2.4 kN/m <sup>2</sup> m	4.8 kN/m <sup>2</sup> m	9.6 kN/m <sup>2</sup> m
<b>One-Way Joist Slab</b>	4.6 x 6.1 m	\$ -	\$ 64.00	\$ -
	4.6 x 7.6 m	-	64.00	-
	4.6 x 9.1 m	-	64.00	-
	6.1 x 9.1 m	-	68.00	-
	6.1 x 10.7 m	-	73.50	-
	6.1 x 12.2 m	-	85.50	-
	7.6 x 12.2 m	-	96.50	-
	7.6 x 13.7 m	-	110.00	-
<b>One-Way Beam and Slab</b>	4.6 x 6.1 m	\$ 64.00	\$ 64.00	\$ 64.00
	6.1 x 7.6 m	64.00	64.00	64.00
	7.6 x 9.1 m	64.00	68.00	72.00
<b>Flat Slab</b>	6.1 x 6.1 m	\$ 64.00	\$ 64.00	\$ -
	6.1 x 9.1 m	71.00	81.50	-
	6.1 x 12.2 m	95.00	102.00	-
	7.6 x 7.6 m	65.50	72.00	-
	7.6 x 10.7 m	95.00	103.00	-
	7.6 x 13.7 m	130.00	156.00	-
	9.1 x 9.1 m	99.00	106.00	-
	9.1 x 12.2 m	130.00	137.00	-
	9.1 x 15.2 m	163.00	179.00	-
	<b>Waffle Slab (1 m Modules)</b>	7.6 x 7.6 m	\$ -	\$ 70.00
7.6 x 10.7 m		-	93.00	-
7.6 x 13.7 m		-	108.00	-
9.1 x 9.1 m		-	100.00	-
9.1 x 12.2 m		-	119.00	-
9.1 x 15.2 m		-	144.00	-
10.7 x 10.7 m		-	120.00	-
10.7 x 13.7 m		-	149.00	-
10.7 x 16.8 m		-	185.00	-
12.2 x 12.2 m		-	148.00	-
12.2 x 15.2 m		-	182.00	-
12.2 x 18.3 m		-	220.00	-
15.2 x 15.2 m		-	230.00	-
<b>Waffle Slab (1.5 m Modules)</b>	7.6 x 7.6 m	\$ -	\$ 66.50	\$ -
	7.6 x 10.7 m	-	86.50	-
	7.6 x 13.7 m	-	103.00	-
	9.1 x 9.1 m	-	88.00	-
	9.1 x 12.2 m	-	108.00	-
	9.1 x 15.2 m	-	128.00	-
	10.7 x 10.7 m	-	110.00	-
	10.7 x 13.7 m	-	133.00	-
	10.7 x 16.8 m	-	157.00	-
	12.2 x 12.2 m	-	135.00	-
	12.2 x 15.2 m	-	162.00	-
	12.2 x 18.3 m	-	157.00	-
	15.2 x 15.2 m	-	211.00	-



**5.003.350 PRECAST CONCRETE****5.003.355 ARCHITECTURAL WALL PANELS**

<b>Solid, non load bearing</b>	<b>m<sup>2</sup></b>
plain grey, smooth finish	<b>\$ 174.00</b>
plain grey, textured finish	<b>181.00</b>
plain grey, exposed aggregate	<b>192.00</b>
white, textured finish	<b>182.00</b>
white, exposed aggregates	<b>205.00</b>
<b>Sandwich panels, non bearing</b>	
plain grey, smooth finish	<b>\$ 205.00</b>
plain grey, textured finish	<b>212.00</b>
plain grey, exposed aggregate	<b>225.00</b>
white, textured finish	<b>214.00</b>
white, exposed aggregates	<b>236.00</b>
<b>Solid, load bearing</b>	
plain grey, smooth finish	<b>\$ 205.00</b>
white, textured finish	<b>214.00</b>
<b>Sandwich panels, load bearing</b>	
plain grey, smooth finish	<b>\$ 221.00</b>
white, textured finish	<b>236.00</b>

**Note:** For precast concrete panels with architecturally integrated window openings, multiply total wall area by appropriate panel cost and add for windows.(No allowance for wall area replaced by windows.)

**5.003.360 FLAT WALL PANELS**

	<b>m<sup>2</sup></b>
100 mm brushed finish	<b>\$ 105.00</b>
100 mm exposed aggregate finish	<b>138.00</b>
For 50 mm urethane insulation fire resistant	<b>add 26.50</b>
For 50 mm fibreplank insulation	<b>add 28.00</b>

**5.003.365 SITECAST TILTUP WALL PANELS**

	<b>Brushed Finish m<sup>2</sup></b>	<b>Exposed Aggregate Finish m<sup>2</sup></b>
138 mm panel	<b>\$ 69.00</b>	<b>\$ 76.00</b>
150 mm panel	<b>72.00</b>	<b>79.00</b>
175 mm panel	<b>77.50</b>	<b>83.50</b>
200 mm panel	<b>83.50</b>	<b>89.00</b>
For vertical ribs	<b>add 37.50</b>	<b>37.50</b>

**5.003.400 PRECAST PRESTRESSED CONCRETE****5.003.405 HOLLOW CORE SLABS**

	200 mm m <sup>2</sup>	300 mm m <sup>2</sup>
	\$ 64.50	\$ 76.00
		m
<b>Note:</b> Joint Filling	add	\$ 2.00
Concrete topping 25 mm	add	3.50
Machine trowelling	add	3.90

**Maximum Specified Loads Based on Spans 200**

mm		300 mm	
Span	Live load	Span	Live load
4.9 m	7.2 kN/m <sup>2</sup>	6.1 m	7.2 kN/m <sup>2</sup>
5.5 m	6.2 kN/m <sup>2</sup>	6.7 m	6.7 kN/m <sup>2</sup>
6.1 m	5.8 kN/m <sup>2</sup>	7.3 m	6.2 kN/m <sup>2</sup>
6.7 m	5.3 kN/m <sup>2</sup>	7.9 m	5.8 kN/m <sup>2</sup>
7.3 m	4.8 kN/m <sup>2</sup>	8.5 m	5.3 kN/m <sup>2</sup>
7.9 m	3.8 kN/m <sup>2</sup>	9.1 m	4.8 kN/m <sup>2</sup>
8.5 m	3.4 kN/m <sup>2</sup>	9.8 m	4.3 kN/m <sup>2</sup>
9.1 m	2.4 kN/m <sup>2</sup>	10.4 m	3.4 kN/m <sup>2</sup>
9.8 m	1.9 kN/m <sup>2</sup>	11.0 m	2.9 kN/m <sup>2</sup>
10.4 m	1.4 kN/m <sup>2</sup>	11.6 m	2.4 kN/m <sup>2</sup>
		12.2 m	1.9 kN/m <sup>2</sup>

**5.003.410 SINGLE TEE SLABS**

2.4 m top width for parkades, gymnasiums and auditorium roofs

Spans	Live Loads		
	1.5-2.4 kN/m <sup>2</sup> m <sup>2</sup>	2.4-3.6 kN/m <sup>2</sup> m <sup>2</sup>	3.6-4.8 kN/m <sup>2</sup> m <sup>2</sup>
12.2 m	\$ 119.00	\$ 119.00	\$ 131.00
15.2 m	119.00	131.00	144.00
18.3 m	127.00	144.00	147.00
21.3 m	144.00	150.00	-
24.4 m	147.00	154.00	-
27.4 m	150.00	150.00	-
30.5 m	147.00	154.00	-
33.6 m	150.00	-	-
36.6 m	154.00	-	-
39.6 m	154.00	-	-

**5.003.415 DOUBLE TEE SLABS**

2.4 m top width for moderate floor &amp; roof spans

Spans	Live Loads			
	1.5-2.4 kN/m <sup>2</sup> m <sup>2</sup>	2.4-3.6 kN/m <sup>2</sup> m <sup>2</sup>	3.6-4.8 kN/m <sup>2</sup> m <sup>2</sup>	4.8-6.0 kN/m <sup>2</sup> m <sup>2</sup>
9.1 m	\$ 90.50	\$ 90.50	\$ 93.00	\$ 93.00
12.2 m	93.00	95.50	95.50	99.00
15.2 m	95.50	99.00	103.00	-
18.3 m	99.00	103.00	-	-
21.3 m	103.00	-	-	-
22.9 m	103.00	-	-	-

**5.003.420 PRECAST PURLIN JOISTS**

Spacing	510 mm deep 7.6-12.2 m spans m <sup>2</sup>	710 mm deep 15.2-18.3 m spans m <sup>2</sup>
	2.4 m o.c.	\$ 28.50
2.1 m o.c.	32.00	48.50
1.8 m o.c.	38.00	57.00
1.5 m o.c.	45.50	68.50
1.2 m o.c.	57.00	85.00

**5.003.450 CONCRETE STAIRS****5.003.454 SHAFTS & STAIRWELLS**

<b>Concrete Block Elevator Shafts</b> including spray plaster finish	<b>Per m Rise</b>
Single	\$ 670.00
Double	1 170.00
Triple	1 670.00
Quadruple	1 985.00
<b>Concrete Elevator Shafts</b> including spray plaster finish	<b>Per m Rise</b>
Single	\$ 1 000.00
Double	1 650.00
Triple	2 300.00
Quadruple	2 680.00
<b>Mechanical Shafts</b> including spray plaster finish	<b>Per m Rise</b>
Concrete Block	\$ 340.00
Concrete	460.00
<b>Stairwells</b>	<b>Per m Rise</b>
Concrete Block and paint	\$ 885.00
Concrete Block and spray plaster	870.00
Concrete and paint	\$ 1 100.00
Concrete and spray plaster	1 080.00

**5.003.455 CONCRETE STAIRS** including landing and pipe railing

<u>Width</u>	<u>Unfinished</u> Per m Rise	<u>Painted</u> Per m Rise	<u>Quarry Tile</u> Per m Rise
0.9 m width	\$ 460.00	\$ 480.00	\$ 750.00
1.1 m width	520.00	545.00	840.00
1.2 m width	575.00	605.00	935.00
1.4 m width	635.00	665.00	1 030.00
1.5 m width	690.00	725.00	1 120.00
1.8 m width	805.00	845.00	1 310.00

**5.003.500 SPECIALLY FINISHED CONCRETE****5.003.505 BUSHHAMMERED CONCRETE** chipped off, walls

	m <sup>2</sup>
Light finish	\$ 26.50
Medium finish	36.50
Heavy finish	45.50

**5.003.510 BLASTED CONCRETE** walls

	m <sup>2</sup>
Light finish	\$ 7.80
Medium finish	9.70
Heavy finish	16.50

**5.003.515 CONCRETE FLOOR FINISHES**

<b>Standard Finished</b>	<b>m<sup>2</sup></b>
Screeding	<b>\$ 1.10</b>
Machine trowel	<b>2.30</b>
<b>Special Finishes</b>	
Machine grinding	<b>\$ 12.50</b>
Broom finish	<b>1.10</b>
Acid etching	<b>1.70</b>
Stair treads	<b>17.50</b>

**5.003.520 CONCRETE FLOOR HARDENERS**

<b>Standard Hardener — non metallic</b>	<b>m<sup>2</sup></b>
2 kg/m <sup>2</sup>	<b>\$ 0.90</b>
3 kg/m <sup>2</sup>	<b>1.10</b>
Colored Hardener — standard colors	
2 kg/m <sup>2</sup>	<b>\$ 4.00</b>
3 kg/m <sup>2</sup>	<b>4.70</b>

**5.003.525 CONCRETE COATINGS**

	<b>m<sup>2</sup></b>
Traffic Topping — grey polyurethane membrane	<b>\$ 29.50</b>
Traffic Topping — black epoxy neoprene membrane	<b>28.00</b>

**5.004.000 MASONRY****5.004.050 BRICKWORK****5.004.055 BRICK VENEER 90 mm**

		m <sup>2</sup>
Common Red Face	\$	84.50
Plain Red Face		95.00
Average Face (e.g. Rugtex)		102.00
Good Face (Pressed)		109.00
Excellent Face (Sculptured)		121.00
Luxurious Face (Glazed)		141.00
<b>Note:</b> Slop Joint	<b>deduct</b>	<b>12%</b>
Used Brick equate to Good Face Brick		

**5.004.065 BACK-UP BRICK common**

		m <sup>2</sup>
90 mm Single Wythe	\$	80.00
90 mm Double Wythe		139.00

**5.004.070 STRUCTURAL BRICK Giant**

		m <sup>2</sup>
100 x 100 x 400 mm Yellow/Red/Brown	\$	94.50
100 x 150 x 400 mm Yellow/Red/Brown		118.00
100 x 200 x 400 mm Yellow/Red/Brown		141.00

**5.004.100 CONCRETE BLOCKWORK****5.004.105 LIGHT WEIGHT** stretcher, running, or stackbond, plain face

		m <sup>2</sup>
90 mm		\$ 52.00
140 mm		55.00
190 mm		61.00
240 mm		69.00
290 mm		75.00
<b>Note:</b> Scored Blocks	<b>add</b>	<b>\$ 8.70</b>
Shadow Block	<b>add</b>	<b>19.00</b>
Ribbed Blocks	<b>add</b>	<b>20.50</b>
Screen Blocks	<b>add</b>	<b>24.00</b>
Exposed Aggregate Blocks	<b>add</b>	<b>8.70</b>
Colored Block	<b>add</b>	<b>5 %</b>

**Back-up Block**

		m <sup>2</sup>
90 mm		\$ 47.00
140 mm		49.50
190 mm		55.00
240 mm		62.00
290 mm		67.50

**5.004.110 ARCHITECTURAL BLOCK**

<b>Glazed Block</b> single face, stretcher or running bond	<b>m<sup>2</sup></b>
90 mm	<b>\$ 113.00</b>
140 mm	<b>122.00</b>
190 mm	<b>135.00</b>
240 mm	<b>150.00</b>
290 mm	<b>166.00</b>
<b>Note:</b> Double face	<b>add 45%</b>
Stack bond	<b>add 5%</b>

**5.004.115 STRUCTURAL BLOCK**

<b>Bondbeam or Lintel</b>	<b>m</b>
190 x 190 mm Wall	<b>\$ 24.50</b>
190 x 240 mm Wall	<b>27.50</b>
190 x 290 mm Wall	<b>30.50</b>
390 x 190 mm Wall	<b>40.00</b>
390 x 240 mm Wall	<b>48.50</b>
390 x 290 mm Wall	<b>56.00</b>
<b>Pilasters</b>	<b>m</b>
190 x 190 x 390 mm	<b>\$ 50.00</b>
240 x 190 x 390 mm	<b>55.50</b>
290 x 190 x 390 mm	<b>64.00</b>
390 x 190 x 390 mm	<b>86.50</b>

**Interlocking Panel Block** exterior and interior metal pan facing, reinforced concrete/ rigid insulation sandwich core.  
Pan size 190 x 380 mm, running bond.

	<b>m<sup>2</sup></b>
Painted Pan Face 240 mm thick	<b>\$ 89.50</b>
Galvanized Pan Face 240 mm thick	<b>93.50</b>

**5.004.120 DU-AL BLOCK**

	<b>m<sup>2</sup></b>
200 mm	<b>\$ 77.00</b>
250 mm	<b>80.50</b>
300 mm	<b>86.50</b>

**5.004.125 GLASS BLOCK**

	<b>m<sup>2</sup></b>
150 x 150 mm	<b>\$ 568.00</b>
200 x 200 mm	<b>323.00</b>
300 x 300 mm	<b>142.00</b>

<b>5.004.150</b>	<b>STONE</b>		
<b>5.004.155</b>	<b>IMITATION</b>		
			<b>m<sup>2</sup></b>
	Cultured		<b>\$ 124.00</b>
<b>5.004.160</b>	<b>FIELD STONE</b>		
			<b>m<sup>2</sup></b>
	Unsplit		<b>\$ 200.00</b>
	Split		<b>250.00</b>
<b>5.004.165</b>	<b>RUNDLE SHALE</b>		
			<b>m<sup>2</sup></b>
	Dry Stack, random shaped		<b>\$ 215.00</b>
<b>5.004.170</b>	<b>TYNDALL STONE</b>		
			<b>m<sup>2</sup></b>
	Rough Face		<b>\$ 178.00</b>
	Sawn Face		<b>285.00</b>
<b>5.004.175</b>	<b>SLATE</b>		
			<b>m<sup>2</sup></b>
	Thin 6.5 mm		<b>\$ 131.00</b>
	Thick 22 mm		<b>216.00</b>
<b>5.004.180</b>	<b>TRAVERTINE</b>		
			<b>m<sup>2</sup></b>
	Veined		<b>\$ 334.00</b>
<b>5.004.185</b>	<b>MARBLE</b>		
		<b>Over 2 m<sup>2</sup> m<sup>2</sup></b>	<b>Under 2 m<sup>2</sup> m<sup>2</sup></b>
	Good white, beige, pink	<b>\$ 384.00</b>	<b>\$ 617.00</b>
	Expensive black	<b>453.00</b>	<b>658.00</b>
	Luxurious imported black	<b>657.00</b>	<b>794.00</b>
<b>5.004.190</b>	<b>GRANITE black or red</b>		
		<b>Over 2 m<sup>2</sup> m<sup>2</sup></b>	<b>Under 2 m<sup>2</sup> m<sup>2</sup></b>
	Set in mortar	<b>\$ 655.00</b>	<b>\$ 821.00</b>
			<b>m<sup>2</sup></b>
	Panels, with steel pins and brackets		<b>\$ 215.00</b>
	Sandwich panels, with insulation and concrete		<b>440.00</b>



**5.004.195 STONE VENEER 6 - 25 mm**

	m <sup>2</sup>
Quartzite, thin	\$ 115.00
Quartzite, thick	120.00
Silver Mica	118.00
Rundle Shale	132.00
Split Marble	233.00

**5.004.200 SANDSTONE**

	m <sup>2</sup>
Ashlar Coursing	\$ 227.00

**5.004.205 LIMESTONE**

	m <sup>2</sup>
Ashlar Coursing	\$ 213.00
Single Coursing	307.00

**5.004.250 MASONRY ACCESSORIES****5.004.255 JOINT REINFORCEMENT** ladder or truss design

Standard	Every Course 200 mm m <sup>2</sup> (Heavy)	Every 2nd Course 400 mm m <sup>2</sup> (Medium)	Every 3rd Course 600 mm m <sup>2</sup> (Light)
90 mm wall	\$ 4.90	\$ 2.40	\$ 1.80
140 mm wall	4.90	2.60	1.60
190 mm wall	5.30	2.60	1.80
240 mm wall	5.40	2.70	1.80
290 mm wall	5.20	2.80	1.90
<b>Heavy Duty 5 mm galvanized</b>			
90 mm wall	\$ 6.60	\$ 3.40	\$ 2.10
140 mm wall	6.70	3.40	2.30
190 mm wall	7.00	3.50	2.30
240 mm wall	7.10	3.50	2.30
290 mm wall	7.30	3.60	2.40

**Note:** for Stack Bond minimum is every 2nd course

**5.005.000 METALS****5.005.050 STRUCTURAL METAL FRAMING****5.005.055 STRUCTURAL STEEL**

	<b>Tonne</b>	<b>kg</b>
<b>Beams</b>	<b>\$ 1 320.00</b>	<b>\$ 1.30</b>
<b>Columns</b>		
Wide flange	1 980.00	2.00
Tubular	2 200.00	2.20
<b>Spandrels</b>	<b>2 125.00</b>	<b>2.10</b>
<b>Trusses</b>	<b>2 310.00</b>	<b>2.30</b>
<b>Open Web Joists</b>	<b>1 880.00</b>	<b>1.90</b>

**5.005.100 STEEL PIPE COLUMNS/POSTS****5.005.105 PIPE COLUMNS**

<b>Diameter</b>	<b>m</b>
50 mm	\$ 12.00
63 mm	19.50
75 mm	25.50
88 mm	30.50
100 mm	36.00
125 mm	49.00
150 mm	63.50

**5.005.150 METAL JOISTS****5.005.155 OPEN WEB STEEL JOISTS**

<b>Span</b>	<b>Roof Loads</b>			
	1.9 kPa/m <sup>2</sup> m <sup>2</sup>	2.4 kPa/m <sup>2</sup> m <sup>2</sup>	2.9 kPa/m <sup>2</sup> m <sup>2</sup>	3.4 kPa/m <sup>2</sup> m <sup>2</sup>
3.7 m	\$ 6.80	\$ 6.80	\$ 7.00	\$ 7.20
4.6 m	7.70	8.10	8.80	9.30
5.2 m	8.80	9.30	10.00	11.00
6.1 m	9.80	10.50	11.50	12.00
7.6 m	11.00	12.00	13.00	14.00
9.1 m	13.00	14.00	14.50	15.50
10.7 m	14.00	15.00	15.50	17.00
12.2 m	16.50	17.50	18.50	20.00
13.7 m	18.50	20.00	21.50	23.00
15.2 m	21.00	22.50	24.00	26.00
18.3 m	25.50	27.50	29.50	32.00
21.3 m	30.50	32.50	35.00	38.00
24.4 m	35.00	37.50	40.00	44.00
27.4 m	39.50	42.50	46.00	50.00
30.5 m	44.50	51.50	51.50	56.00
33.5 m	49.00	53.00	56.50	62.00
36.6 m	54.00	58.00	62.00	68.00

**5.005.155 OPEN WEB STEEL JOISTS - CONT'D**

Span	Floor Loads			
	5.8 kPa/m <sup>2</sup> m <sup>2</sup>	6.2 kPa/m <sup>2</sup> m <sup>2</sup>	6.7 kPa/m <sup>2</sup> m <sup>2</sup>	7.2 kPa/m <sup>2</sup> m <sup>2</sup>
3.7 m	\$ 7.90	\$ 8.10	\$ 8.20	\$ 8.40
4.6 m	11.50	13.00	14.50	16.00
5.2 m	12.50	14.00	15.50	17.00
6.1 m	15.50	16.50	17.50	19.00
7.6 m	19.00	19.00	20.00	21.00
9.1 m	20.00	21.00	22.00	23.50
10.7 m	22.50	24.50	26.00	28.00
12.2 m	28.00	30.00	32.00	34.00

**5.005.200 METAL DECKING****5.005.205 ROOF DECKS non-cellular**

Thickness	Depth	
	38 mm m <sup>2</sup>	76 mm m <sup>2</sup>
0.9 mm	\$ 12.00	\$ 19.00
1.0 mm	13.00	20.00
1.2 mm	14.50	22.00
1.6 mm	16.00	23.50

**5.005.210 FLOOR DECKS non-cellular**

Thickness	Depth	
	38 mm m <sup>2</sup>	76 mm m <sup>2</sup>
0.9 mm	\$ 15.50	\$ 23.50
1.0 mm	16.50	24.50
1.2 mm	18.50	26.50
1.6 mm	20.50	27.50

**Flat V-Rib Pan galvanized**

Thickness	m <sup>2</sup>
0.5 mm	\$ 6.60
0.6 mm	7.50
0.8 mm	8.80

**5.005.250 LIGHT GAUGE METAL FRAMING****5.005.255 STEEL STUDDING 25 gauge 400 mm o.c.**

	m <sup>2</sup>
41 mm	\$ 7.80
64 mm	8.90
92 mm	9.90
152 mm	17.50

**5.005.300 METAL FABRICATIONS****5.005.305 METAL STAIRS**

<b>Steel Grate Treads</b>	with 1.2 x 1.2 m landing and pipe railing		<b>Per m Rise</b>
0.9 m wide			\$ 1 140.00
1.1 m wide			1 290.00
1.2 m wide			1 430.00
1.4 m wide			1 575.00
1.5 m wide			1 715.00
1.8 m wide			2 000.00
Landings	add or deduct per m <sup>2</sup>		435.00
<b>Pan Treads</b>			<b>Per m Rise</b>
	with finished concrete, 1.2 x 1.2 m landing and railing		
0.9 m wide			\$ 1 255.00
1.1 m wide			1 415.00
1.2 m wide			1 570.00
1.4 m wide			1 725.00
1.5 m wide			1 885.00
1.8 m wide			2 200.00
Landings	add or deduct per m <sup>2</sup>		791.00
<b>Pan Treads with Precast Terrazzo</b>			<b>Per m Rise</b>
	with 1.2 x 1.2 m landing and railing		
0.9 m wide			\$ 1 545.00
1.1 m wide			1 740.00
1.2 m wide			1 935.00
1.4 m wide			2 130.00
1.5 m wide			2 320.00
1.8 m wide			2 710.00
Landings	add or deduct per m <sup>2</sup>		842.00
<b>Pan Tread Closed Risers</b>			
0.9 m wide	add per tread		\$ 104
1.0 m wide	add per tread		116
1.2 m wide	add per tread		150
1.4 m wide	add per tread		184
1.5 m wide	add per tread		201
1.8 m wide	add per tread		247

**5.005.307 CIRCULAR STEEL STAIRS**

1.5 diameter	per tread	\$ 270
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**5.005.310 LADDERS**

<b>Open Steel Ladder</b>	<b>m</b>
400 mm wide	<b>\$ 90.50</b>
With safety loops	<b>272.00</b>

**5.005.315 HANDRAILS AND RAILINGS**

<b>Handrails on Wall Brackets</b>	<b>m</b>
Steel pipe rails, 50 mm	<b>\$ 31.50</b>
Plastic covered steel, 50 mm	<b>40.00</b>
<b>Steel Pipe Railing</b>	
50 mm, 900 mm high	<b>\$ 98.00</b>
13 mm tube pickets, 900 mm high	<b>135.00</b>
<b>Wrought Iron Railing</b>	
50 mm flat railings	<b>\$ 51.50</b>

**5.005.320 METAL GRATINGS**

<b>Walkway Gratings welded</b>	<b>m<sup>2</sup></b>
0.9 m span	<b>\$ 78.00</b>
1.2 m span	<b>91.50</b>
1.8 m span	<b>141.00</b>
3.1 m span	<b>228.00</b>
<b>Walkway Grating expanded metal</b>	
<b>Overall Thickness (Nominal)</b>	<b>m<sup>2</sup></b>
12.7 mm	<b>\$ 31.00</b>
15.9 mm	<b>40.50</b>
19.0 mm	<b>51.00</b>
25.4 mm	<b>61.00</b>
31.8 mm	<b>72.00</b>
<b>Standard Trench Grating frame and grate</b>	<b>m<sup>2</sup></b>
150 mm wide	<b>\$ 67.00</b>
300 mm wide	<b>85.50</b>
450 mm wide	<b>106.00</b>
<b>Ductalloy Trench Grating</b>	<b>m<sup>2</sup></b>
Medium duty 150 mm wide	<b>\$ 267.00</b>
Medium duty 300 mm wide	<b>479.00</b>
Heavy duty 300 mm wide	<b>563.00</b>
Extra heavy 450 mm wide	<b>993.00</b>

**5.005.325 STEEL FLOOR PLATE** anti-skid surface

<b>Thickness (Nominal)</b>	<b>m<sup>2</sup></b>
6.4 mm	<b>\$ 102.00</b>
9.5 mm	<b>144.00</b>
12.7 mm	<b>189.00</b>

**5.005.340 STEEL FLOOR SYSTEMS**

Includes steel framing, bracing and painted steel floor surface; nil insulation.

		<b>Checker Plate</b>	<b>Grated</b>
Small size 0 - 19 m <sup>2</sup>	<b>m<sup>2</sup></b>	<b>\$ 135</b>	<b>\$ 113</b>
Medium size 20 - 49 m <sup>2</sup>	<b>m<sup>2</sup></b>	<b>192</b>	<b>163</b>
Large size 50 m <sup>2</sup> & over	<b>m<sup>2</sup></b>	<b>269</b>	<b>229</b>

**5.006.000 WOOD & PLASTICS****5.006.050 STRUCTURAL FRAMING****5.006.055 POSTS AND BEAMS** solid fir

	<b>m</b>
89 x 89 mm	<b>\$ 5.10 11.50</b>
140 x 140 mm	<b>15.50</b>
140 x 191 mm	<b>19.50</b>
140 x 241 mm	<b>20.50</b>
191 x 191 mm	<b>25.50</b>
191 x 241 mm	<b>32.00</b>
241 x 241 mm	<b>39.00</b>
241 x 292 mm	<b>47.50</b>
292 x 292 mm	

**5.006.065 FLOOR JOISTS** including bridging

	<b>300 mm o.c.</b>	<b>400 mm o.c.</b>	<b>600 mm o.c.</b>
<b>Spruce</b>	<b>m<sup>2</sup></b>	<b>m<sup>2</sup></b>	<b>m<sup>2</sup></b>
38 x 89 mm	<b>\$ 7.80</b>	<b>\$ 6.20</b>	<b>\$ 4.80</b>
38 x 140 mm	<b>11.50</b>	<b>9.20</b>	<b>6.20</b>
38 x 184 mm	<b>16.50</b>	<b>12.50</b>	<b>8.70</b>
38 x 235 mm	<b>20.00</b>	<b>15.50</b>	<b>10.50</b>
38 x 286 mm	<b>25.00</b>	<b>19.00</b>	<b>13.00</b>
38 x 337 mm	<b>29.50</b>	<b>22.00</b>	<b>15.00</b>
<b>Fir</b>			
38 x 89 mm	<b>\$ 8.70 13.00</b>	<b>\$ 7.90</b>	<b>\$ 5.40</b>
38 x 140 mm	<b>18.00 23.50</b>	<b>10.50</b>	<b>7.00</b>
38 x 184 mm	<b>28.50 34.50</b>	<b>13.50</b>	<b>9.20</b>
38 x 235 mm		<b>18.50</b>	<b>12.50</b>
38 x 286 mm		<b>21.50</b>	<b>14.50</b>
38 x 337 mm		<b>25.50</b>	<b>17.50</b>

**5.006.075 WOOD STUDDING**

<b>Spruce</b>	<b>300 mm o.c. m<sup>2</sup></b>	<b>400 mm o.c. m<sup>2</sup></b>	<b>600 mm o.c. m<sup>2</sup></b>
38 x 38 mm	\$ 3.90	\$ 3.30	\$ 2.50
38 x 64 mm	6.90	5.40	4.10
38 x 89 mm	11.50	9.40	7.60
38 x 140 mm	18.00	15.00	11.50
38 x 184 mm	24.00	20.50	16.50
38 x 89 mm @ 400 mm double wall			19.00
38 x 89 mm @ 400 mm staggered wall			18.50
38 x 140 mm @ 400 mm staggered wall			29.50
<b>Fir</b>			
38 x 38 mm	\$ 4.50	\$ 3.60	\$ 2.70
38 x 64 mm	7.60	6.20	4.60
38 x 89 mm	13.00	10.50	8.70
38 x 140 mm	20.50	17.00	13.50
38 x 184 mm	27.50	24.00	19.00
38 x 89 mm @ 400 mm double wall			21.00
38 x 89 mm @ 400 mm staggered wall			20.50
38 x 140 mm @ 400 mm staggered wall			33.00

**Note:** Roof joists or ceiling joists of flat roof construction must be treated as floor joists.

**5.006.080 RAFTERS AND TRUSSES**

<b>Truss Rafters</b>	<b>m<sup>2</sup></b>
3.7 - 5.8 m	\$ 9.60
6.1 - 7.3 m	14.00
7.6 - 8.5 m	15.50
8.5 - 9.1 m	16.00
9.4 - 11.0 m	17.50
11.3 - 12.2 m	20.50
12.5 - 13.4 m	24.50
13.7 - 14.6 m	26.50
14.9 - 15.8 m	28.50
16.1 - 17.1 m	30.00
17.4 - 18.3 m	31.50

**Note:** Costs of trusses include gable ends, eave overhang, ladder trusses, etc. All truss rates are at "0" pitch. To calculate final in-place truss costs, select truss rate at applicable span (building width) and multiply by the appropriate pitch factor. The result will provide actual truss cost per m of main floor area.

<b>Roof Pitch</b>	<b>Multiplication Factors</b>	
3/12	1.03	
4/12	1.05	Roof pitch equals the number of millimetres of rise in 12 millimetres of horizontal run.
5/12 (30 degrees)	1.08	
6/12	1.12	
7/12	1.16	
8/12	1.20	
9/12	1.25	To find the number of square metres of roof surface, any pitch, take the entire flat or horizontal area of the roof (including overhang) and multiply by the Multiplication Factor.
10/12	1.30	
11/12 (45 degrees)	1.36	
12/12	1.41	
13/12	1.47	
14/12	1.54	
15/12	1.60	



**5.006.150 PREFABRICATED STRUCTURAL WOOD****5.006.155 ARCHRIBS** Shed Style

Type S2 - designed for 600 mm centres

Type S4 - designed for 1 200 mm centres

Type S8 - designed for 2 400 mm centres

**Rate per Span**

Width of Bldg		S2		S4		S8
7.3 m	EA	\$ 55	EA	\$ 76	EA	\$ -
8.5 m	EA	61	EA	81	EA	-
9.8 m	EA	73	EA	96	EA	260
11.0 m	EA	79	EA	120	EA	280
12.2 m	EA	93	EA	140	EA	350
14.0 m	EA	130	EA	180	EA	-
15.3 m	EA	150	EA	200	EA	500
18.39 m	EA	230	EA	-	EA	-
19.5 m	EA	-	EA	570	EA	840
21.3 m	EA	-	EA	700	EA	940

**Note:** All S2 and S4 archribs are 38 mm wide except widths 19.5 m and 21.3 m are 76 mm wide. All S8 archribs are 76 mm wide. Facia rafters are 1/2 the rate of the equivalent width archrib.

**Archrib End Wall Area Table**

Span	Height	Arch Length	Area Per End
7.3 m	4.47 m	12.60 m	24.7 m <sup>2</sup>
8.5 m	4.65 m	13.86 m	30.8 m <sup>2</sup>
9.8 m	4.82 m	15.14 m	36.6 m <sup>2</sup>
11.0 m	5.00 m	16.42 m	42.7 m <sup>2</sup>
12.2 m	5.18 m	17.68 m	49.1 m <sup>2</sup>
14.0 m	5.46 m	19.56 m	58.9 m <sup>2</sup>
15.3 m	5.64 m	20.84 m	65.8 m <sup>2</sup>
18.39 m	7.47 m	25.76 m	101.1 m <sup>2</sup>
19.5 m	7.67 m	27.02 m	110.6 m <sup>2</sup>
21.3 m	7.98 m	28.96 m	124.9 m <sup>2</sup>

**5.006.160 LAMINATED BEAMS** nailed

	Spruce m	Fir m
114 x 235 mm	\$ 16.50	\$ 19.00
152 x 235 mm	22.00	25.50
152 x 286 mm	27.00	32.00
190 x 286 mm	34.00	40.00
190 x 337 mm	39.50	46.50

**5.006.165 GLUED LAMINATED BEAMS**

38 mm nominal laminate thicknesses are associated with straight, pitched or tapered beams.

19 mm nominal laminate thicknesses are associated with curved beams or shaped arches.

	<b>Straight Members m<sup>3</sup></b>	<b>Curved Members m<sup>3</sup></b>	<b>Shaped Members m<sup>3</sup></b>
Industrial Grade	<b>\$ 689.00</b>	<b>\$ -</b>	<b>\$ -</b>
Paint Grade	<b>707.00</b>	<b>744.00</b>	<b>-</b>
Quality Grade	<b>713.00</b>	<b>756.00</b>	<b>842.00</b>

**Note:** Hardware **add** 10 to 15% to final cost.

A glued laminated beam must be classified and an estimate of cost per lineal metre determined from the above information and the following formula:

Determine actual volume of beam in m<sup>3</sup> per lineal metre.

$$m^3 = \frac{\text{actual width (mm)} \times \text{depth (mm)} \times 1 \text{ m (length)}}{1\,000\,000}$$

Cost per lineal metre of beam is:

$$\text{Volume (m' per m)} \times \text{Rate (\$ per m}^3\text{)} = \text{Cost (\$ per m)}$$

<b>Glued Laminated Beams</b> common sizes, industrial grade	<b>m</b>
152 x 254 mm	<b>\$ 38.00</b>
203 x 254 mm	<b>\$ 51.00</b>
203 x 305 mm	<b>\$ 59.00</b>
254 x 305 mm	<b>\$ 74.50</b>
254 x 365 mm	<b>\$ 85.00</b>

**5.006.165 GLUED LAMINATED BEAMS - CONT'D****Glued Laminated Beams 41 mm Nominal Stock**Based on 2.4 kN/m<sup>2</sup> Total Load

Size of Beam	Span	Spacing	Rate Per Metre		
			Industrial	Paint	Quality
76 x 305 mm	4.9- 5.5 m	2.4 m	\$ 31.50	\$ 32.50	\$ 32.50
76 x 343 mm	4.9- 6.1 m	3.7-2.4 m	35.00	36.00	36.50
76 x 381 mm	4.9- 5.5 m	4.9-3.7 m	38.50	40.00	40.50
76 x 419 mm	6.1- 7.3 m	3.7-2.4 m	43.00	44.50	44.50
127 x 343 mm	5.0 m	4.9 m	52.50	54.00	54.50
127 x 381 mm	5.5- 6.1 m	6.1-4.9 m	58.50	60.00	61.00
127 x 419 mm	6.1- 8.5 m	6.1-2.4 m	64.00	66.00	67.00
127 x 457 mm	7.3- 9.8 m	4.9-2.4 m	70.00	72.00	73.00
127 x 495 mm	7.3 m	6.1 m	76.00	78.00	79.00
127 x 533 mm	8.5- 9.8 m	4.9-3.7 m	81.50	84.00	85.00
127 x 610 mm	8.5-11.0 m	6.1-3.7 m	93.50	96.50	97.00
127 x 686 mm	9.8-12.2 m	6.1-3.7 m	105.00	108.00	109.00
171 x 648 mm	13.4 m	3.7 m	132.00	136.00	138.00
171 x 686 mm	11.0-12.2 m	6.1-4.9 m	140.00	144.00	146.00
171 x 724 mm	11.0-14.6 m	7.3-3.7 m	148.00	153.00	154.00
171 x 762 mm	12.2-13.4 m	6.1-4.9 m	155.00	160.00	162.00
171 x 800 mm	14.6-15.8 m	4.9 m	163.00	168.00	170.00
171 x 838 mm	12.2-17.1 m	7.3-3.7 m	171.00	177.00	178.00
171 x 876 mm	15.8 m	4.9 m	179.00	184.00	186.00
171 x 914 mm	13.4-18.3 m	7.3-3.7 m	187.00	193.00	194.00
171 x 953 mm	17.1 m	4.9 m	195.00	201.00	203.00
171 x 991 mm	14.6-19.5 m	7.3-3.7 m	202.00	208.00	210.00
171 x 1029 mm	20.7 m	3.7 m	210.00	217.00	219.00
222 x 914 mm	18.3 m	4.9 m	233.00	241.00	243.00
222 x 953 mm	15.8-17.1 m	7.3-6.1 m	243.00	251.00	253.00
222 x 991 mm	19.5-21.9 m	4.9-3.7 m	253.00	261.00	264.00
222 x 1029 mm	17.1-20.7 m	7.3-4.9 m	263.00	271.00	274.00
222 x 1067 mm	21.9-23.2 m	6.1-3.7 m	272.00	281.00	283.00
222 x 1105 mm	18.3-24.4 m	7.3-3.7 m	282.00	291.00	294.00
222 x 1143 mm	20.7-23.2 m	6.1-4.9 m	292.00	301.00	304.00
222 x 1181 mm	21.9-26.8 m	7.3-3.7 m	301.00	311.00	314.00
222 x 1219 mm	21.9-24.4 m	6.1-4.9 m	312.00	321.00	324.00
222 x 1257 mm	20.7 m	7.3 m	321.00	331.00	334.00
222 x 1295 mm	23.2-28 m	6.1-3.7 m	329.00	341.00	344.00
222 x 1334 mm	21.9-29.3 m	7.3-3.7 m	341.00	351.00	355.00
273 x 1219 mm	24.4 m	6.1 m	430.00	443.00	447.00
273 x 1257 mm	23.2 m	7.3 m	443.00	457.00	461.00
273 x 1295 mm	25.6-30.5 m	6.1-3.7 m	457.00	471.00	475.00
273 x 1372 mm	29.3 m	4.9 m	483.00	498.00	503.00
273 x 1410 mm	25.6-30.5 m	7.3-4.9 m	497.00	512.00	517.00
273 x 1486 mm	26.8-29.3 m	7.3-6.1 m	524.00	540.00	545.00
273 x 1562 mm	28-30.5 m	7.3-6.1 m	550.00	567.00	573.00
273 x 1638 mm	29.3 m	7.3 m	577.00	595.00	601.00

Note: Relate **Span** range to **Spacing** range as follows:

e.g. 76 x 343 mm glue laminated beam:

4.9 m Span relates to 3.7 m Spacing,

6.1 m Span relates to 2.4 m Spacing

**Glued Laminated Columns** - Determine costs in accordance with procedure used for glue laminated beams**Note:** Usual Appearance Grade Specifications**Quality** - Churches, Houses, Offices**Paint** - Schools, Stores, Halls**Industrial** - Warehouses and Factories

**5.006.200 SUBFLOORS, SHEATHING & DECKING****5.006.204 SUBFLOORS**

<b>Laid Square</b>		<b>Spruce m<sup>2</sup></b>	<b>Fir m<sup>2</sup></b>
19 x 89 mm	\$	<b>9.80</b>	<b>\$ 11.00</b>
19 x 140 mm		<b>10.50</b>	<b>12.50</b>
19 x 184 mm		<b>10.50</b>	<b>13.00</b>
19 x 89 mm T&G		<b>12.00</b>	<b>-</b>
19 x 140 mm T&G		<b>12.00</b>	<b>-</b>
<b>Laid Diagonal</b>			
19 x 89 mm	\$	<b>12.50</b>	<b>\$ 14.00</b>
19 x 140 mm		<b>13.00</b>	<b>15.50</b>
19 x 184 mm		<b>13.00</b>	<b>16.50</b>
19 x 89 mm T&G		<b>15.00</b>	<b>-</b>
19 x 140 mm T&G		<b>15.00</b>	<b>-</b>

**5.006.205 FLOORS AND ROOFS**

<b>Aspenite floors or flat roofs</b>		<b>m<sup>2</sup></b>
7.5 mm		<b>\$ 5.30</b>
9.5 mm		<b>5.50</b>
12.5 mm		<b>6.00</b>
<b>Plywood Sheathing floors or flat roofs</b>		
	<b>Standard Spruce m<sup>2</sup></b>	<b>Standard Fir m<sup>2</sup></b>
7.5 mm	<b>\$ 6.00</b>	<b>\$ 6.40</b>
9.5 mm	<b>6.70</b>	<b>6.80</b>
12.5 mm	<b>8.10</b>	<b>8.40</b>
15.5 mm	<b>9.40</b>	<b>9.90</b>
18.5 mm	<b>10.50</b>	<b>11.00</b>
<b>Plywood Sheathing floors or flat roofs</b>		
	<b>Select Spruce m<sup>2</sup></b>	<b>Select Fir m<sup>2</sup></b>
5 mm	<b>\$ 6.60</b>	<b>\$ 7.70</b>
6 mm	<b>7.20</b>	<b>8.30</b>
8 mm	<b>7.80</b>	<b>9.00</b>
11 mm	<b>9.20</b>	<b>10.50</b>
14 mm	<b>10.50</b>	<b>12.00</b>
17 mm	<b>12.00</b>	<b>13.00</b>

**5.006.205 FLOORS AND ROOFS - CONT'D**

<b>Plywood fir tongue and groove</b>				<b>m<sup>2</sup></b>
15.5 mm				<b>\$ 10.50</b>
18.5 mm				<b>14.00</b>
<b>Particle Board</b>				<b>m</b>
9.5 mm				<b>\$ 4.90</b>
12.5 mm				<b>6.00</b>
15.5 mm				<b>6.70</b>
<b>Floor or Roof Decking</b>	<b>Spruce m<sup>2</sup></b>	<b>Fir m<sup>2</sup></b>	<b>Cedar m<sup>2</sup></b>	
<b>Plain</b>				
38 x 89 mm	<b>\$ 16.50</b>	<b>\$ 19.00</b>	<b>\$ 28.00</b>	
38 x 140 mm	<b>17.00</b>	<b>20.00</b>	<b>28.50</b>	
38 x 184 mm	<b>17.50</b>	<b>20.50</b>	<b>-</b>	
38 x 235 mm	<b>19.00</b>	<b>22.50</b>	<b>-</b>	
38 x 286 mm	<b>19.50</b>	<b>24.00</b>	<b>-</b>	
<b>Tongue &amp; Groove</b>				
38 x 140 mm	<b>\$ 25.00</b>	<b>\$ 29.00</b>	<b>\$ 35.00</b>	
38 x 184 mm	<b>26.00</b>	<b>30.00</b>	<b>36.50</b>	
64 x 140 mm	<b>36.50</b>	<b>44.00</b>	<b>51.50</b>	
89 x 140 mm	<b>49.00</b>	<b>58.50</b>	<b>69.00</b>	

**5.006.210 WALLS AND SHEATHING**

<b>Plywood Sheathing</b>	<b>Standard Spruce m<sup>2</sup></b>	<b>Standard Fir m<sup>2</sup></b>
7.5 mm	<b>\$ 6.70</b>	<b>\$ 7.30</b>
9.5 mm	<b>7.50</b>	<b>7.70</b>
12.5 mm	<b>8.80</b>	<b>9.20</b>
15.5 mm	<b>9.90</b>	<b>10.50</b>
18.5 mm	<b>11.00</b>	<b>11.50</b>
	<b>Select Spruce m<sup>2</sup></b>	<b>Select Fir m<sup>2</sup></b>
5 mm	<b>\$ 7.40</b>	<b>\$ 8.50</b>
8 mm	<b>8.60</b>	<b>9.80</b>
11 mm	<b>9.90</b>	<b>11.00</b>
14 mm	<b>11.50</b>	<b>12.50</b>
17 mm	<b>12.50</b>	<b>13.50</b>
<b>Wood Fibre Sheathing</b>		
11 mm Asphalt Impregnated		<b>\$ 6.20</b>

**5.006.250 ARCHITECTURAL WOODWORK****5.006.255 WOOD STAIRS**

Basement Stairs	Width			
	0.9 m	1.2 m	1.5 m	1.8 m
Straight painted (per metre rise)	\$ 90.00	\$ 110.00	\$ 133.00	\$ 152.00
Straight unpainted (per metre rise)	68.50	82.00	97.50	110.00
<b>U or L Stairs including landing</b>				
Unfinished (per metre rise)	-	\$ 138.00	\$ 172.00	\$ 192.00
Painted (per metre rise)	-	167.00	207.00	235.00
Stair Finish	Width			
Tile or Sheet Vinyl	1.2 m	1.5 m	1.8 m	
Low Grade (per metre rise)	\$ 51.00	\$ 64.00	\$ 76.50	
Fair (per metre rise)	62.50	78.00	93.50	
Average (per metre rise)	96.50	121.00	145.00	
Good (per metre rise)	164.00	205.00	246.00	
<b>Carpeting</b>				
Fair (per metre rise)	\$ 81.50	\$ 102.00	\$ 122.00	
Average m(per metre rise)	109.00	137.00	164.00	
Good (per metre rise)	143.00	179.00	214.00	
Note: For wrap around stairs		add	5%	
For angle or pie shape stairs		add	10%	
For upholstered stairs 1 end		add	40%	
2 ends		add	100%	

**5.006.260 WOOD FIRE ESCAPES**

	Per m rise
1.2 m unpainted stairs, posts, railings	\$ 93.00
1.2 m as above painted	142.00
1.5 m unpainted stairs, posts, railings	104.00
1.5 m as above painted	162.00
	<b>m<sup>2</sup></b>
Landings unpainted	add \$ 36.00
painted	add 43.50

**5.007.000 THERMAL & MOISTURE PROTECTION****5.007.050 WATERPROOFING AND DAMPPROOFING****5.007.055 VAPOUR BARRIER**

	m <sup>2</sup>
Building paper 1 ply	\$ 1.10
2 ply	1.40
Roof felt 1 ply and flood coat	1.80
2 ply and flood coat	3.60
Vapour barrier on grade 2 mil	0.40
4 mil	0.60
6 mil	0.70
Vapour barrier on frame 2 mil	1.10
4 mil	1.30
6 mil	1.40
Thermal barrier - unfinished gypsum board	2.70

**5.007.060 FLUID APPLIED WATERPROOFING** rubberized asphalt sheet reinforced

	m <sup>2</sup>
On horizontal surfaces	\$ 9.30
On vertical surfaces	15.00

**5.007.065 DAMPPROOFING** asphalt

	m <sup>2</sup>
1 coat	\$ 2.20
2 coats	4.20
3 coats	7.70

**5.007.075 WATER REPELLENT COATING** silicone base on concrete and masonry walls

	m <sup>2</sup>
1 coat	\$ 3.80
2 coats	5.60
3 coats	7.70

**5.007.100 WALL INSULATION****5.007.105 LOOSE FILL**

Concrete block	m <sup>2</sup>
90 mm	\$ 1.50
140 mm	4.70
190 mm	7.10
240 mm	8.30
290 mm	11.50

**5.007.110 FIBREGLASS BATT**

	<b>m</b>
1.2 RSI 65 mm	<b>\$ 2.90 3.30</b>
1.4 RSI 70 mm	<b>3.60</b>
1.7 RSI 89 mm	<b>4.20</b>
2.1 RSI 110 mm	<b>6.00</b>
3.5 RSI 152 mm	<b>7.60</b>
4.9 RSI 216 mm	<b>8.40</b>
5.6 RSI 250 mm	<b>9.20</b>
6.2 RSI 300 mm	<b>11.50</b>
7.0 RSI 350 mm	

**5.007.115 RIGID BOARD polystyrene**

	<b>Whiteboard m<sup>2</sup></b>	<b>Blueboard m<sup>2</sup></b>
25 mm	<b>\$ 11.00</b>	<b>\$ 20.00</b>
38 mm	<b>12.00</b>	<b>21.50</b>
50 mm	<b>13.00</b>	<b>23.00</b>
75 mm	<b>16.00</b>	<b>-</b>
100 mm	<b>19.50</b>	<b>-</b>

**5.007.150 ROOF AND DECK INSULATION****5.007.155 WOOD FIBREBOARD**

	<b>m<sup>2</sup></b>
Asphalt impregnated 13 mm board	<b>3.20</b>
25 mm	<b>5.40</b>

**5.007.160 MINERAL FIBREBOARD perlite panels**

	<b>m</b>
25 mm	<b>\$ 4.30</b>
38 mm	<b>6.50</b>
50 mm	<b>8.00</b>

**5.007.165 GLASS FIBREBOARD asphalt impregnated panels**

	<b>m</b>
25 mm	<b>\$ 6.50</b>
38 mm	<b>8.50</b>
50 mm	<b>11.50 12.50</b>
63 mm	<b>14.50 19.00</b>
75 mm	
100 mm	



**5.007.170 RIGID BOARD polystyrene**

	Whiteboard m <sup>2</sup>	Blueboard m <sup>2</sup>
25 mm	\$ 2.30	\$ 5.90
38 mm	3.40	8.10
50 mm	4.50	10.00
63 mm	5.60	12.50
75 mm	6.80	15.00
100 mm	9.00	20.00
125 mm	11.00	-
150 mm	13.50	-
175 mm	15.50	-
200 mm	18.80	-

**5.007.180 PERIMETER AND UNDER-SLAB INSULATION****Rigid board polystyrene**

	Whiteboard m <sup>2</sup>	Blueboard m <sup>2</sup>
25 mm	\$ 7.20	\$ 9.50
38 mm	8.50	12.00
50 mm	9.50	14.00

**5.007.250 ROOFING****5.007.255 ASPHALT SHINGLES**

	m <sup>2</sup>
10.3 kg/m <sup>2</sup>	\$ 6.20
11.5 kg/m <sup>2</sup>	8.30
11.5 kg/m <sup>2</sup> low slope	10.00

**5.007.260 WOOD SHINGLES**

	m <sup>2</sup>
Cedar #1	\$ 17.50
Cedar #1 low slope	26.00
Cedar shakes	15.50
Cedar shakes low slope	25.00
Pine shakes (sawn)	15.50
Pine shakes (sawn) low slope	25.00

**5.007.262 METAL SHINGLES**

	m <sup>2</sup>
Colored aluminum, standard type	\$ 33.00
Colored aluminum, diamond locking	35.00

**5.007.265 SLATE**

	m <sup>2</sup>
	\$ 88.00

**5.007.270 BUILT-UP ROOFING** asphalt and gravel

	m <sup>2</sup>
4-ply, over wood roof deck	\$ 18.00
4-ply, over poured concrete	16.50
3-ply, over insulation	16.00
4-ply, over insulation	18.00

**Note:** The above built-up roofing does not include insulation, vapour barrier, decking and joists.

**5.007.275 ROLLED ROOFING**

	m <sup>2</sup>
20.4 kg	\$ 2.10
24.9 kg	2.20
29.5 kg	2.60
40.8 kg	2.70

**5.007.280 CONCRETE TILE**

	m <sup>2</sup>
Normal slope	\$ 21.50
Low slope	32.00

**5.007.285 METAL TILE**

	m <sup>2</sup>
Steel, color enamelled	\$ 38.00
Steel, stone chip and acrylic coated	44.50

**5.007.290 SHEET METAL ROOFING**

	m <sup>2</sup>
Copper, 0.45 kg	\$ 198.00

**5.007.295 CORRUGATED OR V RIBBED METAL ROOFING**

	Galvanized m <sup>2</sup>	Colored m <sup>2</sup>
30 gauge	\$ 14.00 14.50	\$ 18.00
28 gauge	15.50 17.50	19.00
26 gauge	19.00 21.00	20.00
24 gauge		22.00
22 gauge		23.50
20 gauge		25.50

**5.007.350 ROOF ACCESSORIES****5.007.360 RAIN WATER DISPOSAL**

	<b>m</b>
Aluminum 100 mm	<b>\$ 7.40 8.30</b>
Aluminum 125 mm	<b>7.60 9.10</b>
Galvanized steel 100 mm	
Galvanized steel 125 mm	

**Note:** Use horizontal measurements only.

**5.007.365 FLASHING**

	<b>m<sup>2</sup></b>
Galvanized steel 26 gauge	<b>\$ 36.50</b>
Aluminum 0.8 mm 22 gauge	<b>41.00</b>
Stainless Steel 0.4 mm	<b>52.00</b>
Copper 0.45 kg	<b>71.00</b>
Butyl 1.6 mm	<b>29.50</b>

**5.008.000 DOORS & WINDOWS****5.008.050 METAL DOORS AND FRAMES****5.008.055 HOLLOW STEEL**

Economy	EA	\$ 290
Low Grade	EA	320
Fair	EA	400
Average	EA	480
Good	EA	620
Expensive	EA	880

Note: add for opening including glazing add	EA	\$ 70
for fire-rated doors 1 1/2 hr.	EA	70
3 hr.	EA	150

**5.008.065 ALUMINUM**

	Clear	Bronze	Black
Fair	EA \$ 540	EA \$ —	EA \$ —
Average	EA 670	EA 760	EA 890
Good	EA 890	EA 1 000	EA 1 200
Good to Expensive	EA 1 100	EA 1 300	EA 1 500
Expensive with wood panel insert with metal panel insert			EA \$ 1 800 EA 2 500
Luxurious monumental bronze			EA \$ 4 800
<b>Note: add</b> for panic bars			EA \$ 280

**Add** 75% for additional door in one frame up to Good to Expensive  
**Add** 100% for additional door in one frame for Expensive and Luxurious

**5.008.100 EXTERIOR WOOD DOORS finished**

	In Wood Frame	In Steel Frame
Economy	EA \$ 190	EA \$ —
Low Grade	EA 310	EA 300
Fair	EA 370	EA 370
Average	EA 460	EA 460
Good	EA 550	EA 580
Expensive	EA 650	EA 760
Note: <b>add</b> for opening, including glazing	<b>add</b>	EA \$ 70
100% for additional door in one frame		

**5.008.150 INTERIOR WOOD DOORS****5.008.155 PASSAGE DOORS**

	<b>Standard Height</b>		<b>Full Height</b>	
<b>Solid Core finished</b>				
Low Grade	EA	\$ 260	EA	\$ —
Fair	EA	330	EA	—
Average	EA	410	EA	500
Good	EA	470	EA	550
Expensive	EA	580	EA	690
Luxurious	EA	800	EA	910
<b>Hollow Core finished</b>				
Low Grade	EA	\$ 220		
Fair	EA	260		
Average	EA	320		
Good	EA	380		
Expensive	EA	500		

**Note:** add 100% for additional door in one frame.

**5.008.200 SPECIAL DOORS****5.008.215 OVERHEAD DOORS**

<b>Wood Sectional</b>			<b>m<sup>2</sup></b>
Wood panel			\$ 100.00
Flush hollow wood slab			97.00
Flush insulated wood slab			115.00
<b>Steel Sectional, painted</b>			
		<b>Single Skin m<sup>2</sup></b>	<b>Insulated Double Skin m<sup>2</sup></b>
24 gauge		\$ 87.00	\$ 121.00
20 gauge		95.50	132.00
16 gauge		132.00	184.00
<b>Aluminum Sectional</b>			<b>m<sup>2</sup></b>
Glass panel			\$ 166.00
Aluminum panel			240.00
<b>Fibreglass Sectional</b>			<b>m<sup>2</sup></b>
up to 20 m <sup>2</sup>			\$ 144.00
over 20 m <sup>2</sup>			168.00
<b>Steel Multiblade vertical lift</b>			<b>m<sup>2</sup></b>
up to 45 m <sup>2</sup>			\$ 671.00
up to 90 m <sup>2</sup>			556.00
over 90 m <sup>2</sup>			529.00

**5.008.215 OVERHEAD DOORS - CONT'D**

<b>Rolling Overhead Industrial Steel</b>	<b>m<sup>2</sup></b>
Non fire rated	
up to 9 m <sup>2</sup>	<b>\$ 154.00</b>
over to 9 m <sup>2</sup>	<b>142.00</b>
Fire rated, Class A, 3 hour	
up to 7.5 m <sup>2</sup>	<b>289.00</b>
over 7.5 m <sup>2</sup>	<b>225.00</b>
<b>*Note: overhead doors with glazing add</b>	<b>m<sup>2</sup></b>
3 mm	<b>\$ 18.00</b>
4 mm	<b>21.50</b>
6 mm acrylic	<b>74.00</b>
6 mm wired	<b>101.00</b>

Note: **add** for hoists (see Sec. 5.008.365)  
**add** for accessories (see Sec. 5.008.370)

**5.008.220 ROLLING COUNTER SHUTTERS**

	<b>m<sup>2</sup></b>
Aluminum or steel	<b>\$ 516.00</b>

**5.008.225 STOREFRONT GRILLS**

	<b>Rolling Overhead m<sup>2</sup></b>	<b>Sliding m<sup>2</sup></b>
Aluminum, clear	<b>\$ 235.00</b>	<b>\$ 164.00</b>
Aluminum, colored	<b>304.00</b>	<b>235.00</b>

Note: **add** for hoists (see Sec. 5.008.365)  
**add** for accessories (see Sec. 5.008.370)

**5.008.235 SLIDING DOORS pocket stacking**

	<b>Multi Track m<sup>2</sup></b>	<b>Single Track m<sup>2</sup></b>
Clear	<b>\$ 296.00</b>	<b>\$ 343.00</b>
Bronze	<b>379.00</b>	<b>398.00</b>
Black	<b>414.00</b>	<b>426.00</b>

**5.008.240 REVOLVING DOORS**

Standard height 2m  
Standard diameter 2m

Manual Type	6 mm Glass		12.5 mm Glass (No Centre Post)	
	Anodized Aluminum	EA	\$ 20 700	EA
Bronze	EA	31 100	EA	32 600
<b>Stainless Steel</b>				
Satin Finish	EA	\$ 25 200	EA	\$ 26 700
Mirror Finish	EA	31 100	EA	32 600
<b>Add:</b> Tinted Glass			EA	\$ 590
Glass Ceiling			EA	1 100
Power Assistance Operated			EA	5 180

**5.008.250 AIRCRAFT HANGER DOORS**

Costs include steel framing, track, rollers, electric geared motors, wiring, winches, cables, brackets, mountings, controls, safety chains, insulation, exterior and interior finish, trim, and installation.

	m <sup>2</sup>	
<b>Bi-Fold Overhead, wood clad</b>		
Non-insulated	\$ 257.00	
Insulated	278.00	
<b>Bi-Fold Overhead, metal-clad</b>		
Average single clad, non-insulated	\$ 263.00	
Good single clad, non-insulated	269.00	
Average double clad, insulated	286.00	
Good double clad, insulated	303.00	
	0 - 275 m <sup>2</sup> m <sup>2</sup>	276 m <sup>2</sup> & Over m <sup>2</sup>
<b>Sliding, wood clad</b>		
Non-insulated	\$ 409.00	\$ 489.00
Insulated	430.00	510.00
<b>Sliding, metal clad</b>		
Average single clad, non-insulated	\$ 414.00	\$ 494.00
Good single clad, non-insulated	421.00	501.00
Average double clad, insulated	441.00	521.00
Good double clad, insulated	455.00	535.00

**5.008.350 HARDWARE & SPECIALTIES****5.008.360 AUTOMATIC EQUIPMENT****Automatic Entrance Mechanism only**

Overhead mounted for	single door	EA	\$ 2 540
	double doors	EA	4 370
Floor mounted for	single door	EA	3 100
	double doors	EA	5 500

**Note:** add for doors (see sec. 5.008.065)

**Automatic Slide Bi-parting**

Bi-part 3.7 m opening, inc. doors	EA	\$8 300
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		m2
<b>Add: Tinted Glass</b>		<b>\$ 15.00</b>

**5.008.365 DOOR HOISTS**

<b>Chain Hoist</b>	EA	\$ 120
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**Gear Hoist**

Light	EA	\$ 810
Medium	EA	960
Heavy	EA	1 500
Large Industrial	EA	1 800

**5.008.370 DOOR ACCESSORIES**

		m
<del>Safety Edge</del>		<del>\$ 72.00</del>
Pressure Treadle	EA	\$ 170
Electric Timer	EA	83
Photo Cell Detector	EA	440
Loop Detector	EA	1 100
Key Switch, Pedestal	EA	220
Magnetic Card, Hanging or Pedestal mounted	EA	660

**5.008.375 OVERHEAD DOOR OPENERS****Belt, chain or gear drive\***

Fair	EA	\$ 310
Average	EA	380
Custom	EA	410
Expensive	EA	460

**Note:** The above rates are applicable for residential type openers used on small overhead sectional doors that may be found with structures such as car washes, bulk oil warehouses, etc.



**5.008.380 ACCESS DOORS & HATCHES** exterior, double leaf

	<b>Plain Steel</b>		<b>Galvanized</b>	
<b>Cellar Doors</b>				
1.4 x 1.0 m	EA	\$ 970	EA	\$ 1 000
<b>Interior Floor Doors</b>				
0.9 x 0.9 m	EA	\$ 380	EA	\$ 410
<b>Exterior Floor Doors</b>				
0.9 x 0.9 m	EA	\$ 440	EA	\$ 500
<b>Roof Hatches</b>				
0.8 x 0.9 m	EA	\$ 320	EA	\$ 340
0.8 x 1.4 m	EA	400	EA	430
0.8 x 2.3 m	EA	640	EA	690
Add for glazed opening			EA	\$ 150

**5.008.500 WINDOW FRAMING SYSTEMS****5.008.505 ALUMINUM (STORE FRONT TYPE)**

<b>Single Glazed</b>	<b>Clear m<sup>2</sup></b>	<b>Bronze m<sup>2</sup></b>	<b>Black m<sup>2</sup></b>
Fair	\$ 88.50	\$ -	\$ -
Average	136.00	154.00	237.00
<b>Sealed Units</b>			
Fair	\$ 157.00	\$ -	\$ -
Average	172.00	189.00	268.00
Good	184.00	231.00	286.00
Good to Expensive	201.00	249.00	314.00
Expensive	237.00	287.00	343.00
<b>Note:</b> Stainless steel			add 35%
<b>Tinted Glass</b>			m <sup>2</sup>
Green, Gray, or Bronze		Add	\$ 15.00
<b>Reflective Glass</b> light & heat			m <sup>2</sup>
Bronze, Silver, Gold or Chrome		add	\$ 31.00
Insulating Glass (Sealed Units)		add	53.00
Triple Glazing		add	55.50
Framing, Reinforcing		add	40.00

**5.008.550 METAL WINDOWS****5.008.555 STEEL WINDOWS**

<b>Industrial Type</b> 500 mm x 500 mm panes				<b>m<sup>2</sup></b>
Prime Coated				<b>\$ 114.00</b>
Baked Enamel				<b>128.00</b>
<b>Note:</b> Ventilating Units		<b>add</b>	<b>EA</b>	<b>\$ 55</b>
<b>Tubular Type</b> Non Thermally Broken				
<b>Punched Openings or Ribbon Type</b> fixed				<b>m<sup>2</sup></b>
Prime Coated				<b>\$ 247.00</b>
Baked Enamel				<b>253.00</b>
<b>Note:</b> Ventilating Units		<b>add</b>	<b>EA</b>	<b>\$ 350</b>
Wired glass, transparent, 6 mm		<b>add</b>	<b>EA</b>	<b>50</b>
<b>Note:</b> Translucent glass, 6 mm thick equal to clear glass				

**5.008.560 ALUMINUM WINDOWS**

	Single Glazed m <sup>2</sup>	Double Glazed m <sup>2</sup>
Low Grade	\$ 98.50	\$ 157.00
Fair	101.00	173.00
Average (Plain)	106.00	182.00
Good (Baked Enamel)	112.00	191.00
Expensive (Anodized Color)	119.00	200.00
<b>Note: add</b> for ventilating units		
Plain Finish Unit	EA \$ 130	EA \$ 180
Baked Enamel Unit	EA 140	EA 190
Color Finish Unit	EA 160	EA 200
		<b>m<sup>2</sup></b>
Tinted Glass	<b>add</b>	<b>\$ 13.00</b>
Triple Glazing	<b>add</b>	<b>48.00</b>

**5.008.600 WOOD & PLASTIC WINDOWS****5.008.605 WOOD WINDOWS painted**

	Single Glazed m <sup>2</sup>	Double Glazed m <sup>2</sup>
Economy	\$ 74.50	\$ -
Low Grade	102.00	161.00
Fair	122.00	193.00
Standard	137.00	215.00
Good	148.00	228.00
Expensive	156.00	239.00
<b>Note: add</b> for ventilating units	<b>EA \$ 130.00</b>	<b>to \$ 180.00</b>
		m <sup>2</sup>
Tinted Glass	<b>add</b>	<b>\$ 13.00</b>
Triple Glazing	<b>add</b>	<b>48.00</b>

**5.008.615 ALUMINUM OR PLASTIC COVERED WOOD**

		m <sup>2</sup>
Single Glazed		<b>\$ 141.00</b>
Double Glazed		<b>226.00</b>
<b>Note: add</b> for ventilating units	<b>EA</b>	<b>\$ 170.00</b>
		m <sup>2</sup>
Tinted Glass	<b>add</b>	<b>\$ 13.00</b>
Triple Glazing	<b>add</b>	<b>48.00</b>

**5.008.650 WINDOW WALL/CURTAIN WALLS****5.008.655 SINGLE GLAZED 2.4 - 2.7 m Spans (floor to floor)****Modules (Mullion Spacing)**

<b>Finish</b>	<b>0.6 m m<sup>2</sup></b>	<b>0.9 m m<sup>2</sup></b>	<b>1.2 m m<sup>2</sup></b>	<b>1.5 m m<sup>2</sup></b>
Clear Anodized	\$ 235.00	\$ 221.00	\$ 204.00	\$ 235.00
Baked Enamel	248.00	229.00	217.00	248.00
Color Anodized	255.00	235.00	224.00	254.00

**3.1 - 3.7 m Spans (floor to floor)**

Clear Anodized	\$ 254.00	\$ 235.00	\$ 222.00	\$ 260.00
Baked Enamel	259.00	247.00	229.00	265.00
Color Anodized	265.00	254.00	235.00	272.00

**5.008.660 DOUBLE GLAZED 2.4 - 2.7 m Spans (floor to floor)****Modules (Mullion Spacing)**

<b>Finish</b>	<b>0.6 m m<sup>2</sup></b>	<b>0.9 m m<sup>2</sup></b>	<b>1.2 m m<sup>2</sup></b>	<b>1.5 m m<sup>2</sup></b>
Clear Anodized	\$ 378.00	\$ 353.00	\$ 321.00	\$ 378.00
Baked Enamel	391.00	358.00	326.00	391.00
Color Anodized	398.00	365.00	333.00	402.00

**3.1 - 3.7 m Spans (floor to floor)**

Clear Anodized	\$ 410.00	\$ 378.00	\$ 353.00	\$ 407.00
Baked Enamel	424.00	391.00	358.00	424.00
Color Anodized	430.00	398.00	365.00	430.00

		<b>m<sup>2</sup></b>	
<b>Note:</b> Tinted Glass		<b>add</b>	<b>\$ 15.00</b>
Triple Glazing		<b>add</b>	<b>55.50</b>
<b>Reflective Glass</b>			
Single Glazed		<b>add</b>	<b>\$ 31.00</b>
Insulating (Sealed Units)		<b>add</b>	<b>53.00</b>

**5.008.700 SKYLIGHTS****5.008.705 PLASTIC SKYLIGHTS**

	Single Skin m <sup>2</sup>	Double Skin m <sup>2</sup>
To 1.0 m <sup>2</sup>	\$ 308.00	\$ 410.00
To 1.9 m <sup>2</sup>	236.00	297.00
Over 1.9 m <sup>2</sup>	197.00	257.00

**5.008.710 ALUMINUM-FRAMED SKYLIGHTS**

	Less than 19-45 m <sup>2</sup> m <sup>2</sup>	19-45 m <sup>2</sup> m <sup>2</sup>	over 45 m <sup>2</sup> m <sup>2</sup>
<b>Single, Clear Wired Glass</b>			
Clear anodized finish			
Baked enamel finish	\$ 383.00	\$ 345.00	\$ 326.00
Colour anodized finish	421.00	364.00	345.00
	479.00	402.00	364.00
<b>Double, Clear Wired Glass</b>			
Clear anodized finish	\$ 767.00	\$ 671.00	\$ 498.00
Baked enamel finish	843.00	728.00	536.00
Colour anodized finish	919.00	805.00	574.00

**5.008.750 GLAZING****5.008.755 SHEET GLASS installed**

	m <sup>2</sup>
2 mm	\$ 37.00
3 mm	41.00

**5.008.760 FLOAT/PLATE GLASS installed**

	Clear m <sup>2</sup>	Tinted m <sup>2</sup>
4 mm	\$ 45.50	\$ -
5 mm	51.50	-
6 mm	55.00	66.00
7 mm	63.50	-
8 mm	71.00	83.00
10 mm	84.00	98.50
12 mm	107.00	118.00
<b>Heat Strengthened Glass</b>		<b>m<sup>2</sup></b>
Add to cost of Clear Float/Plate		\$ 60.00
Add to cost of Tinted Float/Plate		69.50

**5.008.765 WIRED GLASS**

	m <sup>2</sup>
Transparent (Polished) Glass, 6 mm thick	\$ 106.00
Translucent (Cast) Glass, 6 mm thick	62.50
Double Glass Installation: Silver	216.00
Gold	227.00
Spandrel Glass 6 mm Black	96.00
6 mm Silver	215.00
6 mm Gold	227.00

**5.008.770 LAMINATED GLASS**

	m <sup>2</sup>
Single Lamination, 6 mm thick	\$ 181.00
Bullet Resistant: 30 mm thick	431.00
50 mm thick	685.00

**5.008.775 INSULATING GLASS Sealed Units****Clear (2 panes)**

	m <sup>2</sup>
<del>3 mm</del>	<del>\$ 112.00</del>
4 mm	114.00
5 mm	120.00
6 mm	125.00

**Tinted (1 pane only) Solar Gray or Bronze**

3 mm	\$ 127.00
4 mm	136.00
5 mm	145.00
6 mm	163.00

**5.008.780 MIRROR GLASS**

	m <sup>2</sup>
<del>Unframed Mirrors, 6 mm, smooth edge</del>	<del>\$ 126.00</del>
<b>Framed (Tamper Proof) Mirrors, 6 mm, stainless steel frame</b>	<b>\$ 203.00</b>
<b>Transparent, One-way, 6 mm</b>	<b>\$ 149.00</b>
<b>Wall Tiles</b>	
300 x 300 mm Plain	\$ 33.50
300 x 300 mm Veined	37.00

**5.008.800 GLASS BALUSTRADES for stair side panels and balcony walls.**Panels are 18.5 mm tempered safety plate glass and 1050 to 1150 mm **high**

	m
<del>50 mm brass or chrome railings and post system</del>	<del>\$ 610</del>
75 mm brass or chrome railings and post system	\$ 690

**5.009.000 FINISHES****5.009.050 EXTERIOR CLADDING****5.009.055 STUCCO**

<b>On Wire Mesh</b>	<b>m<sup>2</sup></b>
Scratch stucco	\$ 21.00
2 coat stucco	30.00
3 coat stucco	32.00
<b>On Metal Lath</b>	<b>m</b>
2 coat stucco	\$ 32.00
3 coat stucco	41.50
<b>Parging 2 coats</b>	<b>m<sup>2</sup></b>
12.5 mm	\$ 11.00
<b>Acrylic Stucco</b>	<b>m<sup>2</sup></b>
1 coat system	\$ 53.50
2 coat system	91.00

**5.009.060 WOOD SIDING**

<b>Grooved Waferboard 9.5 mm</b>	<b>m<sup>2</sup></b>
	<del>\$ 8.30</del>
<b>Cedar</b>	<b>m<sup>2</sup></b>
Economy	\$ 20.00
Low Grade	22.50
Fair	23.50
Average	25.00
Average to Good	27.00
Good	29.00
Good to Expensive	30.00
Expensive	31.50
Luxurious	35.00
<b>Diagonal Cedar</b>	<b>m<sup>2</sup></b>
Fair	\$ 33.50
Average	37.00
Average to Good	42.00
Good	47.50
Expensive	52.50

**5.009.065 ASBESTOS CEMENT**

<b>Flat Panels</b>	<b>m<sup>2</sup></b>
6 mm textured finish	<b>\$ 47.00</b>
6 mm coloured finish	<b>59.50</b>
<b>Corrugated Panels</b>	<b>m<sup>2</sup></b>
6 mm coloured finish	<b>\$ 47.00</b>
<b>Sandwich Panels</b>	<b>m<sup>2</sup></b>
38 mm coloured finish	<b>\$ 112.00</b>

**5.009.070 METAL SIDING**

<b>Aluminum/Vinyl</b>	<b>m<sup>2</sup></b>	
Uninsulated	<b>\$ 17.00</b>	
Insulated	<b>18.50</b>	
<b>Corrugated or V Ribbed Metal Siding</b>	<b>Galvanized m<sup>2</sup></b>	<b>Colored m<sup>2</sup></b>
30 gauge	<b>\$ 14.00</b>	<b>\$ 18.00</b>
28 gauge	<b>14.50</b>	<b>19.00</b>
26 gauge	<b>15.50</b>	<b>20.00</b>
24 gauge	<b>17.50</b>	<b>22.00</b>
22 gauge	<b>19.00</b>	<b>23.50</b>
20 gauge	<b>21.00</b>	<b>25.50</b>
<b>Single Skin Metal Siding</b>		
<b>Exposed Fasteners</b> 15.9 to 75 mm profiles, 600 to 900 mm coverage	<b>Average m<sup>2</sup></b>	<b>Good m<sup>2</sup></b>
Prefinished Steel 26 gauge	<b>\$ 32.00</b>	<b>\$ 35.50</b>
24 gauge	<b>33.50</b>	<b>38.50</b>
22 gauge	<b>40.50</b>	<b>46.00</b>
Prefinished Aluminum 0.6 mm	<b>\$ 28.50</b>	<b>\$ 31.50</b>
0.8 mm	<b>35.50</b>	<b>40.50</b>
1.0 mm	<b>41.00</b>	<b>47.50</b>
<b>Concealed Fasteners</b> flat, rib or V groove up to 38 mm profiles, 150 to 300 mm coverage	<b>Average m<sup>2</sup></b>	<b>Good m<sup>2</sup></b>
Prefinished Steel 26 gauge	<b>\$ 33.50</b>	<b>\$37.50</b>
24 gauge	<b>35.50</b>	<b>40.50</b>
22 gauge	<b>42.50</b>	<b>48.50</b>
Prefinished Aluminum 0.6 mm	<b>\$ 31.00</b>	<b>\$ 34.50</b>
0.8 mm	<b>40.50</b>	<b>48.00</b>
Anodized Aluminum, expensive quality formed profiles 19 to 22 mm depth, extruded shapes	<b>Good m<sup>2</sup></b>	<b>Expensive m<sup>2</sup></b>
	<b>\$ 104.00</b>	<b>\$ 154.00</b>
<b>Insulated Panels, flat</b>		<b>Good m<sup>2</sup></b>
Prefinished Steel 20 gauge, 25 mm rigid insulation		<b>\$ 84.00</b>



**5.009.070 METAL SIDING - CONT'D****Single Skin Metal Fascia Panels**

<b>Exposed Fasteners, same profiles and coverage as siding</b>	<b>Average m<sup>2</sup></b>	<b>Good m<sup>2</sup></b>
Prefinished Steel 26 gauge	\$ 33.50	\$ 38.50
24 gauge	35.50	41.50
22 gauge	42.50	49.50
Prefinished Aluminum 0.6 mm	\$ 28.50	\$ 31.50
0.8 mm	35.50	40.50
<b>Concealed Fasteners, same profiles and coverage as siding</b>	<b>Average m<sup>2</sup></b>	<b>Good m<sup>2</sup></b>
Prefinished Steel 26 gauge	\$ 34.50	\$ 38.50
24 gauge	38.00	42.00
22 gauge	45.50	50.50
Prefinished Aluminum 0.6 mm	\$ 31.50	\$ 44.00
0.8 mm	37.50	49.50
Anodized Aluminum same profiles and coverage as siding		m <sup>2</sup>
Custom		\$ 104.00
Expensive		154.00

**Single Skin Soffit Panels**

<b>Concealed Fasteners, same profiles and coverage as fascia panels</b>	<b>Average m<sup>2</sup></b>	<b>Good m<sup>2</sup></b>
Prefinished Steel 26 gauge	\$ 26.50	\$ 30.00
24 gauge	32.50	36.50
Prefinished Aluminum 0.6 mm	\$ 31.50	\$ 44.00
0.8 mm	37.50	49.50
Anodized Aluminum	<b>Custom m<sup>2</sup></b>	<b>Expensive m<sup>2</sup></b>
	\$ 104.00	\$ 154.00

**Note:** Fascia and Soffit Panel Costs **do not** include cost of framing system

**Metal Roofing Panel Systems**

Prefinished steel or aluminum panels with concealed fasteners, ribbed batten or standing seam profiles 38 mm deep, 300 mm coverage, 26 gauge or 0.8 mm thickness.	<b>Average m<sup>2</sup></b>	<b>Good m<sup>2</sup></b>
	\$ 57.50	\$ 89.00
<b>Linear Siding</b>		m <sup>2</sup>
Baked enamel		\$ 57.50
Mirror finish (nickel, brass, chrome, stainless steel)		123.00

**5.009.075 SANDWICH PANELS**

	<b>Enamelled One Side m<sup>2</sup></b>	<b>Enamelled Two Sides m<sup>2</sup></b>
<b>Steel, with foamed insulation</b>		
38 mm thick	<b>\$ 101.00</b>	<b>\$ 104.00</b>
50 mm thick	<b>103.00</b>	<b>106.00</b>
75 mm thick	<b>106.00</b>	<b>108.00</b>
100 mm thick	<b>110.00</b>	<b>113.00</b>
<b>Aluminum, with foamed insulation</b>		
38 mm thick	<b>\$ 136.00</b>	<b>\$139.00</b>
50 mm thick	<b>138.00</b>	<b>140.00</b>
75 mm thick	<b>140.00</b>	<b>143.00</b>
100 mm thick	<b>145.00</b>	<b>147.00</b>

**Architectural Porcelain Enamel Steel Panel Systems**

<b>Exterior Wall Panels</b>	<b>m<sup>2</sup></b>
Uninsulated Panel System, 38 mm (with 100 mm fibreglass plank backing)	<b>\$ 268.00</b>
Uninsulated Panel 38 mm (with 125 mm fibreglass plank backing)	<b>273.00</b>
Insulated Sealed Panel System, 50 mm	<b>205.00</b>
<b>Soffit and Fascia Panel System</b> 38 or 50 mm panels	<b>m<sup>2</sup></b>
	<b>205.00</b>
<b>Suspended Ceiling Panel System</b>	<b>m<sup>2</sup></b>
150 to 300 mm drop	<b>\$ 148.00</b>
301 to 600 mm drop	<b>159.00</b>
900 to 1200 mm drop	<b>182.00</b>
<b>Interior Wall Panel Systems</b>	<b>m<sup>2</sup></b>
Average	<b>\$ 171.00</b>
Average to Good	<b>228.00</b>
Good	<b>285.00</b>
Expensive (architectural)	<b>342.00</b>

**5.009.080 MASONITE SIDING**

	<b>m<sup>2</sup></b>
Primed 300 mm	<b>\$ 25.50</b>
Colorlok	<b>29.50</b>
Groove Panel	<b>16.00</b>

**5.009.090 GLASS FIBRE** corrugated filon panels including wood strapping, coloured finish

	<b>m<sup>2</sup></b>
Light Gauge	<b>\$ 10.50</b>
Medium Gauge	<b>\$ 13.20</b>
Heavy Gauge	<b>\$ 16.30</b>

**5.009.095 SLICED BRICK PANELS** 400 mm x 1.2 m, 50 mm thick  
(sliced brick, polyurethane core, plywood backing)

	m <sup>2</sup>
Average Face	<b>\$ 71.50</b>
Good Face	<b>76.50</b>

**5.009.150 FURRING AND LATHING**

**5.009.155 STEEL CHANNEL FURRING**

	m <sup>2</sup>
19 mm	<b>\$ 3.70</b>
38 mm	<b>4.00</b>
<b>Metal Drop Ceiling, 1.2 x 400 mm</b>	<b>\$ 16.50</b>

**5.009.160 GYPSUM LATH**

	Walls m <sup>2</sup>	Ceilings & Exterior Soffits m <sup>2</sup>	Beams & Columns m <sup>2</sup>
Plain, 9 mm	<b>\$ 5.10</b>	<b>\$ 5.80</b>	<b>\$ 7.00</b>
Perforated, 9 mm	<b>5.30</b>	<b>6.20</b>	<b>7.50</b>
Foilback, 9 mm	<b>5.80</b>	<b>6.40</b>	<b>7.70</b>

**5.009.165 METAL LATH**

**Painted**

1.36 kg/m <sup>2</sup>	<b>\$ 5.40</b>	<b>\$ 6.40</b>	<b>\$ 7.70</b>
1.63 kg/m <sup>2</sup>	<b>6.10</b>	<b>6.70</b>	<b>8.20</b>
1.84 kg/m <sup>2</sup>	<b>6.60</b>	<b>7.00</b>	<b>8.50</b>

**Galvanized**

1.36 kg/m <sup>2</sup>	<b>\$ 6.10</b>	<b>\$ 6.70</b>	<b>\$ 8.20</b>
1.63 kg/m <sup>2</sup>	<b>6.60</b>	<b>7.00</b>	<b>8.50</b>
1.84 kg/m <sup>2</sup>	<b>6.90</b>	<b>7.50</b>	<b>9.00</b>

**5.009.200 PLASTER****5.009.215 SPRAYED PLASTER**

	<b>m<sup>2</sup></b>
Spraytex, 1 coat on gypsum	<b>\$ 3.70</b>
Span-tex, 1 coat on concrete	<b>5.20</b>

**5.009.220 PORTLAND CEMENT PLASTER**

	<b>Walls &amp; Ceilings m<sup>2</sup></b>	<b>Beams &amp; Columns m<sup>2</sup></b>
2 coats on metal lath	<b>\$ 22.50</b>	<b>\$ 29.00</b>
2 coats on masonry	<b>21.00</b>	<b>27.00</b>
2 coats on concrete	<b>22.50</b>	<b>25.00</b>
3 coats on metal lath	<b>32.00</b>	<b>38.50</b>
3 coats on masonry	<b>25.50</b>	<b>32.00</b>

**5.009.250 GYPSUM WALLBOARD**

<b>Standard</b>	<b>Walls &amp; Ceilings m<sup>2</sup></b>	<b>Beams &amp; Columns m<sup>2</sup></b>
9.5 mm unfinished	<b>\$ 5.70</b>	<b>\$ 8.90</b>
12.7 mm unfinished	<b>6.20</b>	<b>9.60</b>
9.5 mm finished	<b>8.80</b>	<b>13.50</b>
12.7 mm finished	<b>9.20</b>	<b>14.00</b>
15.9 mm finished	<b>10.00</b>	<b>15.00</b>
<b>Fire Resistant</b>		
12.7 mm finished	<b>\$ 9.30</b>	<b>\$ 14.00</b>
15.9 mm finished	<b>10.50</b>	<b>15.50</b>
15.9 mm finished, laminated	<b>17.00</b>	<b>-</b>
<b>Gypsum Panels, Vinyl Face</b>		
12.7 mm plain core	<b>\$ 14.50</b>	<b>\$ 19.00</b>
15.9 mm plain core	<b>16.00</b>	<b>21.00</b>
15.9 mm fire resistant core	<b>16.50</b>	<b>21.00</b>

**5.009.260 GYPSUM BACKING BOARDS**

<b>Standard</b>		<b>Walls &amp; Ceilings m<sup>2</sup></b>	<b>Beams &amp; Columns m<sup>2</sup></b>
9.5 mm	\$	<b>8.40</b>	<b>\$ 13.00</b>
12.7 mm		<b>8.60</b>	<b>13.00</b>
15.9 mm		<b>10.00</b>	<b>15.00</b>
<b>Fire Coded</b>			
9.5 mm	\$	<b>8.80</b>	<b>\$ 13.50</b>
12.7 mm		<b>9.20</b>	<b>14.00</b>
15.9 mm		<b>10.50</b>	<b>15.00</b>
<b>Foil Backed</b>			
9.5 mm	\$	<b>9.30</b>	<b>\$ 11.00</b>
12.7 mm		<b>11.00</b>	<b>12.50</b>
15.9 mm		<b>14.00</b>	<b>16.00</b>

**5.009.265 WOOD FIBRE WALLBOARD**

		<b>m<sup>2</sup></b>
11 mm Donnacona Plain (sound board)		<b>\$ 6.20</b>
11 mm Donnacona Primed		<b>7.60</b>

**5.009.300 WALL FINISHES****5.009.305 PANELING**

<b>Hardboard 6 mm</b>	<b>m<sup>2</sup></b>
Fair	\$ 9.40
Average	11.00
Average to Good	14.50
Good	16.50
<b>Plywood Paneling 6 mm excluding finish</b>	
Fir	\$ 17.00
Rotary Mahogany	19.50
Ribbon Mahogany	20.00
Ash	22.00
Knotty Pine	23.00
Birch	23.00
Knotty Cedar	23.50
Red Oak - random	29.00
- book matched	36.00
White Oak - random	41.50
- book matched	50.50
Teak - random	41.50
- book matched	50.50
Aromatic Cedar - random	42.50
- book matched	51.00
Black Walnut -.random	51.00
- book matched	60.00
Cherrywood - random	51.50
- book matched	61.00
Rosewood - random	51.50
- book matched	61.00
Satin Walnut - random	60.50
- book matched	72.00
Recessed Oak - straight	148.00
- curved	225.00
<b>Wood Paneling 19 x 140 mm excluding finish</b>	<b>m<sup>2</sup></b>
Pine	\$ 33.50
Cedar	39.50
Redwood	49.00
Fir	43.00
Birch	39.50
Mahogany	53.50
Walnut	68.00
Teak	70.00
Oak	49.00
<b>Metal Paneling</b>	<b>m<sup>2</sup></b>
Baked Enamel	\$ 57.50
Mirror Finish (nickel, brass, chrome, stainless steel) Light Gauge	123.00
'Stainless Steel - 18 gauge (for kitchens, etc.)	195.00

**5.009.310 WALL COVERINGS**

<b>Vinyl-Coated Fabric Wall Covering</b>	<b>m<sup>2</sup></b>
Plain Patterns	<b>\$ 13.50</b>
Decorative Patterns	<b>14.50</b>
Vinyl Wall Coverings	
Light	<b>\$ 18.00</b>
Medium	<b>22.50</b>
Heavy	<b>25.00</b>
Wallpaper	
Fair Patterns	<b>\$ 9.80</b>
Average Decorative Patterns	<b>12.50</b>
Good Embossed Patterns	<b>14.50</b>

**5.009.315 CERAMIC WALL TILE**

<b>Imitation Tile Panel</b>	<b>m<sup>2</sup></b>
	<b>\$ 25.00</b>
Marlite — Acrylic Fibreglass Panels (for kitchens, etc.)	<b>56.00</b>
<b>Ceramic Tile</b>	<b>m<sup>2</sup></b>
Low Grade	<b>\$ 47.00</b>
Fair	<b>66.00</b>
Average	<b>78.50</b>
Good	<b>101.00</b>
Good to Expensive	<b>145.00</b>
Expensive	<b>260.00</b>
Luxurious	<b>971.00</b>
Unique	<b>1894.00</b>
	<b>m<sup>2</sup></b>
<b>Terra Cotta</b>	<b>\$ 71.00</b>
<b>Slate</b>	<b>\$ 136.00</b>
<b>Mosaic Tile</b>	<b>m<sup>2</sup></b>
Fair	<b>\$ 71.00</b>
Average	<b>94.50</b>
Good	<b>124.00</b>
Expensive	<b>166.00</b>
<b>Marble Tile</b>	<b>m<sup>2</sup></b>
Good	<b>\$ 154.00</b>
Good to Expensive	<b>207.00</b>
Expensive	<b>296.00</b>
<b>Backing Board</b>	<b>\$ 59.00</b>

**5.009.320 PAINTING**

<b>Interior</b> Standard Paint, Sprayed or Rolled	<b>Two Coat m<sup>2</sup></b>	<b>Three Coat m<sup>2</sup></b>
General Surface	\$ 4.40	\$ 5.10
Concrete Block	4.70	5.80
Open Web Steel Joists (measure 2 x height)	6.40	-
Structural Steel (measure exposed area or girth)	5.80	8.70
Pipes and Ducts (measure girth)	6.30	-
Trim	6.60	8.40
		<b>m</b>
Pipes not exceeding, 50 mm diameter		\$ 1.80
<b>Interior</b> Plastic Paint	<b>Two Coat m<sup>2</sup></b>	<b>Three Coat m<sup>2</sup></b>
Concrete	\$ 6.80	\$ 9.40
Concrete Block	7.30	9.80
Drywall	6.30	8.80
<b>Exterior</b> Standard Paint	<b>Two Coat m<sup>2</sup></b>	<b>Three Coat m<sup>2</sup></b>
General Surfaces	\$ 5.00	\$ 6.70
Concrete Block	6.10	7.80
Exterior Trim	5.90	7.70
Fascias	5.30	6.90

**5.009.325 MILLWORK**

<b>Baseboards and Trim</b>	<b>m</b>
Economy	\$ 2.40
Low Grade	2.90
Fair	3.60
Average	3.80
Average to Good	4.50
Good	5.70
Good to Expensive	8.70
Expensive	10.00
Luxurious	15.00
Vinyl - 40 mm	\$ 3.50
- 57 mm	4.40
Rubber - 64 mm	3.90
- 102 mm	4.20



**5.009.350 PARTITIONS****5.009.355 DEMOUNTABLE PARTITIONS** including studding

	<b>m<sup>2</sup></b>	
<b>Gypsum</b> painted or vinyl covered, lead soundproofing	<b>\$ 68.50</b>	
<b>Steel</b> baked enamel or vinyl clad	<b>79.00</b>	
baked enamel or vinyl clad, lead soundproofing	<b>98.50</b>	
	<b>12.5 mm</b>	<b>15.9 mm</b>
<b>Vinyl faced gypsum</b>	<b>m<sup>2</sup></b>	<b>m<sup>2</sup></b>
Average	<b>\$ 54.00</b>	<b>\$ 63.00</b>
Good	<b>65.00</b>	<b>68.00</b>
Expensive	<b>76.50</b>	<b>83.00</b>
	<b>Clear</b>	<b>Tinted</b>
<b>Glazed</b>	<b>m<sup>2</sup></b>	<b>m<sup>2</sup></b>
Average	<b>\$ 141.00</b>	<b>\$ 157.00</b>
Good	<b>149.00</b>	<b>165.00</b>
Expensive	<b>162.00</b>	<b>179.00</b>

**5.009.360 FOLDING PARTITIONS**

<b>Wood</b>	<b>m<sup>2</sup></b>
Room divider, classroom type	<b>\$ 217.00</b>
Bifold partitions, gymnasium type	<b>236.00</b>

**5.009.400 CEILING PANELS AND TILES****5.009.405 CEILING TILE**

<b>Wood Fibre</b>	<b>Stapled m<sup>2</sup></b>	<b>Glued m<sup>2</sup></b>	<b>With Wood Furring m<sup>2</sup></b>
300 x 300 mm	\$ 11.00	\$ 12.50	\$ 17.50
400 x 400 mm	10.00	12.00	15.00
300 x 600 mm	9.50	11.00	13.00
<b>Note:</b> Acoustic or sculptured tile		<b>add</b>	\$ 1.90
<b>Mineral Fibre</b> with wood furring			<b>m<sup>2</sup></b>
300 x 300 mm			\$ 21.50
400 x 400 mm			19.00
<b>Metal Pans</b>	<b>Steel Painted m<sup>2</sup></b>	<b>Aluminum m<sup>2</sup></b>	<b>Stainless Steel m<sup>2</sup></b>
305 x 305 mm	\$ 25.50	\$ 31.50	\$ 53.00
305 x 610 mm	20.00		48.00

**5.009.420 SUSPENDED CEILINGS** including suspension system

	<b>600 x 1200 mm Grid m<sup>2</sup></b>	<b>600 x 600 mm Grid m<sup>2</sup></b>	<b>300 x 300 mm Grid m<sup>2</sup></b>
Fibreglass Panel	\$ 10.50 11.00	\$ 12.00 13.00	\$ 18.00
Mineral Board	14.50 14.50	16.50	18.00
Fire-rated Mineral Board Boldface Panel	20.50	16.00	19.00
Fire-rated Ceramic Panel		22.50	-
			-

**5.009.425 SPECIALTY PANELS**

<b>Eggcrate</b>	<b>m<sup>2</sup></b>
Acrylic 13 x 13 x 13 mm cubes	<b>\$ 31.00</b>
Polystyrene 9 x 9 x 13 mm cubes	<b>20.00</b>
13 x 13 x 13 mm cubes	<b>19.50</b>
<b>Luminous</b>	<b>m<sup>2</sup></b>
Prismatic acrylic	<b>\$ 17.00</b>
Prismatic polystyrene	<b>20.50</b>
<b>Cork Style</b> 600 x 600 mm	<b>26.00</b>
<b>Soft Fabric Style</b> 600 x 600 mm	<b>74.00</b>
<b>Mirror Glass Panel</b> 600 x 600 mm	<b>131.00</b>
<b>Wood Veneer Panel</b> 600 x 600 mm	<b>155.00</b>
<b>Fineline Grid</b> 600 x 600 mm	<b>28.50</b>
<b>Linear Softwood</b> flexible strip system	<b>114.00</b>
<b>Linear Hardwood</b> flexible strip system	<b>144.00</b>
<b>Coffered Ceiling System</b> (without light fixture)	<b>30.00</b>

**5.009.430 SUSPENSION SYSTEMS**

<b>Concealed T Bar System</b>	<b>m<sup>2</sup></b>		
	<b>\$ 8.80</b>		
<b>Exposed T Bar System</b>	<b>m<sup>2</sup></b>		
600 x 600 mm grid 600 x 1200 mm grid	<b>\$ 8.00</b> <b>6.70</b>		
<b>Wood Furring Strips</b>	<b>300 mm o.c.</b> <b>m<sup>2</sup></b>	<b>400 mm o.c.</b> <b>m<sup>2</sup></b>	<b>600 mm o.c.</b> <b>m<sup>2</sup></b>
25 x 51 mm	<b>\$ 6.80</b>	<b>\$ 4.90</b>	<b>\$ 3.50</b>
25 x 76 mm	<b>7.30</b>	<b>5.50</b>	<b>3.60</b>
25 x 102 mm	<b>7.50</b>	<b>5.80</b>	<b>3.80</b>

**5.009.500 FLOOR FINISHES****5.009.505 WOOD FLOORING**

	<b>Birch/Maple</b>	<b>Oak/Plain Sawn</b>
<b>Wood Strip Flooring</b> 57 mm wide x 20 mm thick	<b>m<sup>2</sup></b>	<b>m<sup>2</sup></b>
Fair	<b>\$ 38.50</b>	<b>\$ 35.50</b>
Average	<b>40.50</b>	<b>37.50</b>
Good	<b>43.00</b>	<b>39.50</b>
Expensive	<b>45.50</b>	<b>42.00</b>
<b>Flat Grain Fir</b>		<b>\$ 71.00</b>
<b>Edge Grain Fir</b>		<b>94.50</b>
<b>Cherrywood</b>		<b>178.00</b>
<b>Parquet Flooring</b> 8 mm thick		<b>m<sup>2</sup></b>
Fair (Maple)		<b>\$ 47.50</b>
Average (Oak)		<b>94.50</b>
Good (Teak)		<b>101.00</b>
Expensive (Walnut)		<b>142.00</b>

**5.009.510 RESILIENT FLOORING**

	<b>m<sup>2</sup></b>
<b>Vinyl, sheet flooring</b>	<b>m<sup>2</sup></b>
Economy	<b>\$ 15.50</b>
Low Grade	<b>18.00</b>
Fair	<b>29.50</b>
Average	<b>35.50</b>
Average to Good	<b>43.50</b>
Good	<b>49.50</b>
Good to Expensive	<b>59.00</b>
Expensive	<b>71.00</b>
<b>Vinyl, tile flooring</b>	<b>m<sup>2</sup></b>
Economy vinyl asbestos 1.6 mm	<b>\$ 9.70</b>
Low Grade vinyl asbestos 1.6 mm	<b>9.90</b>
Fair vinyl asbestos 2 mm	<b>13.00</b>
Average vinyl asbestos 3 mm	<b>18.50</b>
Good solid vinyl (solid color) 3 mm	<b>23.50</b>
Expensive solid vinyl (marblized) 3 mm	<b>34.50</b>
<b>Synthetic Turf</b> 10 mm	<b>10.50</b>

**5.009.515 CARPETING**

<b>Yard Goods</b>	<b>m<sup>2</sup></b>
Fair nylon or polypropylene	\$ 12.50
Average nylon or polypropylene	17.00
Average to Good antron nylon	21.00
Good nylon	25.00
Good to Expensive heavy antron nylon	31.00
Expensive acrylic or light weight wool	46.50
100% berber wool	54.00
wool prints with under cushion	59.00
Luxurious heavy berber wool or cut pile	94.50

**Note:** Expensive or Luxurious special design, color, etc., **add** additional  
\$ 116.00 to \$ 175.00 or more per square metre.

<b>Carpet Tiles glue down 450 x 450 mm</b>	<b>m<sup>2</sup></b>
Average nylon and polypropylene	\$ 33.50
Good 100% nylon or antron	43.50
Expensive 100% wool	54.50

**5.009.520 MASONRY FLOORING**

<b>Ceramic Tile</b>	<b>m<sup>2</sup></b>
Fair	\$ 89.00
Average	107.00
Good	136.00
Expensive	260.00
Luxurious	971.00

	<b>m</b>
<b>Ceramic Baseboard</b>	\$ 17.00

<b>Quarry Tile</b>	<b>m<sup>2</sup></b>
Unglazed	\$ 83.00
Terra Cotta Clay	83.00
Quarry Tile Stair Nosing	38.50

<b>Mosaic Tile</b>	<b>m<sup>2</sup></b>
Fair	\$ 83.00
Average	107.00
Good	136.00
Expensive	178.00

<b>Marble Tile</b>	<b>m<sup>2</sup></b>
Good	\$ 178.00
Good to Expensive	231.00
Expensive	320.00

**5.009.525 SPECIAL FLOORING**

<b>Portland Cement Terrazzo</b>	<b>m<sup>2</sup></b>	
Floor with 3 mm zinc strip 750 x 750 mm Grid	<b>\$ 52.50</b>	
<b>Precast Terrazzo</b>	<b>m</b>	
Stair Treads (steel stairs)	<b>\$ 73.50</b>	
	<b>Epoxy</b>	<b>Latex</b>
	<b>Type</b>	<b>Type</b>
<b>Plastic Matrix Accessories</b>	<b>m2</b>	<b>m2</b>
6 mm thick	<b>\$ 65.50</b>	<b>\$ 50.50</b>
9 mm thick	<b>71.00</b>	<b>55.00</b>
<b>Trim and Accessories terrazzo cove base trim</b>	<b>m</b>	
100 mm high	<b>\$ 26.50</b>	
150 mm high	<b>24.50</b>	
<b>Poured Plastic Flooring</b>	<b>m2</b>	
Urethane Resin with coloured chips (glossy finish)	<b>\$ 30.00</b>	
	<b>General</b>	<b>Computer</b>
	<b>Office</b>	<b>Floor</b>
	<b>Areas</b>	<b>Areas</b>
<b>Access Floors Raised 600 mm x 600 mm grids</b>	<b>m2</b>	<b>m2</b>
Laminated Finish	<b>\$ 122.00</b>	<b>\$ 133.00</b>
Carpeted Finish	<b>149.00</b>	<b>154.00</b>

**5.009.530 SPECIAL COATINGS**

<b>Fire Resistant Coatings</b> sprayed fireproofing 2 hour rating, based on floor or roof area	<b>m2</b>
Beams — average	<b>\$ 0.90</b>
Columns — average	<b>2.50</b>
Open Web Steel Joists	<b>7.40</b>
Floor Decks	<b>3.90</b>

**5.010.000 SPECIALTIES****5.010.150 COMPARTMENTS AND CUBICLES****5.010.155 TOILET AND SHOWER PARTITIONS** metal

	<b>Standard Cubicle</b>	<b>Alcove Type</b>
Floor mounted, overhead braced	EA      \$ 370	EA      \$ 270
Floor mounted, pilaster type	EA      400	EA      330
Ceiling Hung	EA      520	EA      520

**5.010.200 POSTAL SPECIALTIES****5.010.205 MAIL CHUTES** with glass fronts

	<b>Normal Letter Size 200 x 62 mm m</b>	<b>Bundle Size 375 x 100 mm m</b>
Aluminum	\$ 413.00	\$ 675.00
Bronze	674.00	-
Stainless Steel	453.00	754.00
<b>Collection Boxes</b>		
Aluminum		EA      \$ 2 100
Stainless Steel		EA      2 300

**5.010.210 MAIL BOXES****Apartment Type**

Back loading	EA      \$ 55.00
Front Loading	EA      63.00

**Post Office Type**

Drawer Type	EA      \$ 110.00
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**5.010.300 SCALES** excluding pit construction**5.010.305 LIVESTOCK SCALES****Mechanical** including full beam capacity indicator

9 tonne capacity, 4.9 x 2.4 m platform	EA      \$ 10 800
18 tonne capacity, 9.1 x 4.3 m platform	EA      20 400

**5.010.310 TRUCK SCALES****Mechanical** including full beam capacity indicator

18 tonne capacity, 9.1 x 3.0 m platform	EA	\$ 16 700
45 tonne capacity, 18.3 x 3.0 m platform	EA	36 300
68 tonne capacity, 18.3 x 3.0 m platform	EA	42 100
<b>Note: add</b> for registering beam type		\$ 1 400
<b>add</b> for direct dial type		4 700
<b>add</b> for automatic print type		3 900

**Electronic** including digital indicator print out

45 tonne capacity, 18.3 x 3.0 m platform	EA	\$ 55 700
68 tonne capacity, 18.3 x 3.0 m platform	EA	74 300



**5.011.000 EQUIPMENT****5.011.050 CABINETS****5.011.055 KITCHEN CABINETS**

m

Economy	\$ 278.00
Low Grade	451.00
Fair	577.00
Average	884.00
Average to Good	1 010.00
Good	1 346.00
Good to Expensive	1 653.00
Expensive	2 021.00
Luxurious	2 804.00

**5.011.060 VANITIES**

m

Economy	\$ 162.00
Low Grade	235.00
Fair	271.00
Average	397.00
Average to Good	451.00
Good	794.00
Good to Expensive	938.00
Expensive	1 191.00
Luxurious	1 606.00

**5.011.170 HOODS AND FANS** Commercial kitchen exhaust hoods, wall or ceiling mounted including filter, air curtain jets, air intakes and exhauster.

	Galvanized Steel m	Stainless Steel m
1 150 mm wide x 525 mm high	\$ 475.00	\$ 606.00
1 800 mm wide x 525 mm high	739.00	951.00
2 300 mm wide x 525 mm high	844.00	1 214.00

**5.011.175 HOOD MOUNTED FIRE EXTINGUISHER**, carbon dioxide, including CO<sub>2</sub> cylinder, piping and 2 to 4 heads

EA \$ 2 600

**5.011.250 FOOD SERVICE EQUIPMENT****5.011.260 DISHWASHING EQUIPMENT****Hood and Door Dishwashers**

Front opening, free standing or under counter, stainless steel

12 racks per hour, 40 persons per meal EA \$ 4 000

15 racks per hour, 45 persons per meal EA 4 600

Stainless steel semi-automatic type

38 racks per hour, 50 persons per meal EA \$ 6 100

53 racks per hour, 100 - 250 persons per meal EA 9 000

Automatic two tank rack type, two inspection doors, stainless steel

234 racks per hour, 300 - 700 persons per meal EA \$ 26 300

360 racks per hour, 500 - 900 persons per meal EA 27 300

**5.011.300 REFRIGERATING EQUIPMENT****5.011.320 ICE MAKING MACHINES**

Self-Contained Cubers	Baked Enamel		Stainless Steel	
	EA	\$	EA	\$
15.9 kg storage capacity	EA	\$ 1 300	EA	\$ 1 600
81.7 kg storage capacity	EA	2 600	EA	3 200
158.8 kg storage capacity	EA	4 000	EA	5 000
<b>Self-Contained Flaker</b>				
68.0 kg storage capacity	EA	\$ 3 200	EA	\$ 3 400

**5.011.325 REACH-IN REFRIGERATOR** self contained, medium temperature

	Finish		Capacity m <sup>3</sup>	Doors		
	Ext.	Int.		Long	Half	
Fair	Enamel	Enamel	0.6	EA	\$ 2 100	\$ 2 200
Average	S. Steel	Enamel	0.6	EA	2 500	2 700
Good	S. Steel	S. Steel	0.6	EA	2 900	3 100

**Note:** add 35% to above types for approximately 1.4 m<sup>3</sup> capacity

add 75% to above types for approximately 2.2 m<sup>3</sup> capacity

**5.011.330 REACH-IN FREEZER** self contained

	Finish		Capacity m <sup>3</sup>		Doors	
	Ext.	Int.			Long	Half
Fair	Enamel	Enamel	0.6	EA	\$ 2 700	\$ 3 100
Average	S. Steel	Enamel	0.6	EA	3 200	3 300
Good	S. Steel	S. Steel	0.6	EA	3 600	3 900

**Note:** add 35% to above types for approximately 1.4 m<sup>3</sup> capacity

add 75% to above types for approximately 2.2 m<sup>3</sup> capacity

**5.011.350 WASTE HANDLING EQUIPMENT****5.011.360 GARBAGE COMPACTORS** - wet or dry

**Small** - apartments, schools, motels

Includes photo eye sensor, odor suppressor and chute hopper

0.19 m<sup>3</sup> to 0.38 m<sup>3</sup> capacity, 1.5 to 2.2 kW Motor

EA \$ 7 500

**Light Duty** - restaurants, hotels, small office towers, stores

Includes pressure gauge, walk on ramp, safety rails,  
remote control, container guide rails, hopper, 1.15 m<sup>3</sup> capacity,  
3.7 to 7.5 kW Motor

EA \$ 14 400

**Medium to Heavy Duty** - shopping centres, office towers,  
distribution centres, plants

Includes all items in Light Duty class plus  
security chute, safety lock, override panels,  
emergency stop, 1.53 m<sup>3</sup> to 1.91 m<sup>3</sup> capacity, 7.5 to 11.2 kW Motor

EA \$ 19 000

Manual side cart dumper

add EA \$ 780

Hydraulic cart dumper

add EA \$ 4 800

Chutes

add as found

**Note:** Costs do not include container bins

**5.011.365 WASTE SHREDDER COMPACTORS**

Includes hopper, power unit, controls, hydraulic  
winch floor clamp, 18.5 kW hydraulic motor

EA \$ 42 700

Steel door protector plates

add EA \$ 2 400

**Note:** Costs do not include container bins

**5.011.370 VERTICAL BALER COMPACTORS - dry materials**

0.75 kW - 68 kg to 104 kg bale	EA	\$ 6 500
3.7 kW - 181 kg to 227 kg bale	EA	8 700
5.6 kW - 136 kg to 272 kg bale	EA	13 000
7.5 kW - 272 kg to 499 kg bale	EA	13 500
11.8 kW - 408 kg to 544 kg bale	EA	15 600

**Note:** Suggested age life for compactor, shredder or baler is 10 years.

**5.011.400 INTERCOM AND SECURITY SYSTEMS****5.011.420 APARTMENT SECURITY**

Entrance directory and base unit		EA	\$ 1 000
Intercom per suite	add	EA	100

**5.011.500 PARKING EQUIPMENT****5.011.505 BARRIER GATES** including steel casing with motor and 2.4 m wooden gate arm

One way	EA	\$ 3 000
Two way	EA	3 200

**5.011.510 BARRIER GATE CONTROL DEVICES** vehicle detector for entrance or exit, including power supply and sensor mat

Coin or Token Control	EA	\$ 620
Ticket Dispenser including Control	EA	4 800

**5.011.515 REVENUE CONTROL DEVICES**

Cash register	EA	\$ 6 100
Cash control logic enclosure	EA	900
Fee indicator	EA	1 000
Clock	EA	580
Rate computer	EA	720

**5.011.520 CASHIER OR ATTENDANT'S BOOTH** prefabricated

<b>Exterior Use</b> 1.2 x 2.1 m steel construction, including insulation, fluorescent lighting, duplex outlet, counter, aluminum framed windows with horizontal slider on two sides	EA	\$ 5 800
<b>Interior Use</b> 1.7 x 1.2 m steel construction, excluding insulation	EA	\$ 5 500

**5.011.550 LOADING DOCK EQUIPMENT****5.011.555 DOCK LEVELLERS** platform

	<b>Mechanical</b>		<b>Hydraulic</b>	
Size 1.8 x 1.8 m	EA	\$ 2 800	EA	\$ 3 600
Size 1.8 x 2.4 m	EA	3 400	EA	4 100

**5.011.560 DOOR SEALS**

<b>Truck Docks 2.3 x 2.4 m</b>	<b>Fixed</b>		<b>With Adjustable Head</b>	
2.4 m high	EA	\$ 1 000	EA	\$ 1 500
2.7 m high	EA	1 100	EA	1 600
3.1 m high	EA	1 200	EA	1 700
<b>Rail Docks</b>	<b>Fixed</b>		<b>With Adjustable Head</b>	
To 9.3 m <sup>2</sup>	EA	\$ 1 800	EA	\$ 2 100
9.3 to 13.4 m <sup>2</sup>	EA	2 200	EA	2 400

**5.011.565 PROTECTIVE BUMPERS** 100 mm projection for truck docks

	<b>Horizontal 250 mm Wide</b>		<b>Vertical 500 mm Wide</b>	
To 350 mm deep	EA	\$ 160	EA	\$ 180
475 mm deep	EA	-	EA	280
900 mm deep	EA	220	EA	-

**5.011.600 THEATRE EQUIPMENT****5.011.605 DRIVE-IN EQUIPMENT**

**Screen** including framing and concrete foundations

	<b>Reinf. Conc. m<sup>2</sup></b>	<b>Steel Frame m<sup>2</sup></b>	<b>Wood Frame m<sup>2</sup></b>
Painted plywood screen	\$ 290.00	\$ 230.00	\$ 180.00
Painted asbestos screen	300.00	240.00	190.00
Painted aluminum screen	-	123.00	-

**Ticket Booth** wood frame and covering

Cheap (small, single)	EA	\$ 3 300
Average (medium, single)	EA	4 200
Expensive (large, double)	EA	5 000

**Sound Systems** including trenching, wiring, fittings, transmitting base and back up system

**Standard Post and Speaker System**

Base sound system for single screen	EA	\$ 13 000
Sound for additional screen	add EA	3 500
Speakers - per car	add EA	90

**Clip-On Aerial System**

Base sound system for single screen	EA	\$ 13 000
Sound for additional screen	add EA	3 500
Aerial system - per car	add EA	23

Free-Air Broadcast System - using converted existing cable field

Base sound system for single screen	EA	\$ 6 000
Sound for additional screen	add EA	2 000
Antenna system - per car	add EA	19

**Free-Air Broadcast System** - using new induction cable antenna field and high watt output

Base sound system for single screen	EA	\$ 6 000
Sound for additional screen	add EA	2 000
Antenna system - per car	add EA	10

**Service Points** including trenching, wiring, fittings

Heater including controls	EA	\$ 150
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**Note:** Suggested age life on equipment 20 years

**5.011.650 BUILT-IN MAINTENANCE EQUIPMENT****5.011.655 POWERED WINDOW WASHING EQUIPMENT****Equipment** 2 point suspension

6.1 m stage, 20 storeys

**EA \$ 139 100**

6.1 m stage, 40 storeys

**EA 193 200****Tracks****m**

Steel

**\$ 230.00**

**5.011.660 VACUUM SYSTEMS**

Base Unit for a commercial built-in vacuum system includes basic costs of a motor, vacuum pump, dirt canister, exhaust vent piping, electrical wiring and installation.

Per Inlet includes piping system, inlet valve and wall or floor plate and must be added on a per inlet basis as found.

**Average System** - suitable for apartments, fast food restaurants, small/medium churches & stores, low-rise offices, CRU's in malls, etc.

- normally has no outside venting
- single motor, 1.5kW and 11.5 amps or less
- maximum coverage is 550m<sup>2</sup>.

<b>Base Unit</b>		<b>EA</b>	<b>\$ 700</b>
Per inlet, PVC piping	<b>add</b>	<b>EA</b>	<b>65</b>
Per inlet, 50mm metal piping	<b>add</b>	<b>EA</b>	<b>200</b>

**Custom System** - most commonly found in apartments, restaurants, larger stores, churches, laboratories, funeral homes, offices, breweries, fire halls, golf and curling clubs, cultural centres, communication centres, etc.

- unit has 2 motors, 1.9kW each, 21 amps
- minimum coverage per level is 325m<sup>2</sup>
- maximum coverage area per base unit is 1100m<sup>2</sup>

<b>Base Unit</b>		<b>EA</b>	<b>\$ 1 050</b>
Per inlet, PVC piping	<b>add</b>	<b>EA</b>	<b>65</b>
Per inlet, 50mm metal piping	<b>add</b>	<b>EA</b>	<b>200</b>

**Expensive System** - large system for hotels, high-rise offices, cathedrals, transit garages, industrial complexes, etc.

- 5.6kW motor, 21.6 amps, 230/460 volt system
- 75mm airflow
- separate motor, canister and vacuum pump

<b>Base Unit</b>		<b>EA</b>	<b>\$ 11 400</b>
Per inlet, 75mm metal <b>pipe trunk line and 50mm</b> metal branch lines	<b>add</b>	<b>EA</b>	<b>250</b>

**Continuous Run System** - designed and used as part of a business such as large car washes, denture labs, sawdust collection, etc.

- 2.2kW motor, 16.6 amps, 230 volt circuit
- separate motor, dirt canister and vacuum **pump**

<b>Base Unit</b>		<b>EA</b>	<b>\$ 3 950</b>
Per inlet, PVC piping	<b>add</b>	<b>EA</b>	<b>65</b>
Per inlet, 50mm metal piping	<b>add</b>	<b>EA</b>	<b>200</b>
Per inlet, 75mm metal piping	<b>add</b>	<b>EA</b>	<b>250</b>



**5.013.000 SPECIAL CONSTRUCTION****5.013.100 REFRIGERATION SYSTEMS****5.013.105 PREFABRICATED WALK-IN COOLERS** including door

<b>2.4 m high, up to 12 m<sup>2</sup></b>	<b>Constant</b>	<b>\$ 2 000</b>
	<b>Area Rate m<sup>2</sup></b>	<b>278.00</b>
Wall Height Variation <b>add or deduct</b> per 0.3 m height	<b>Constant</b>	<b>\$ 140</b>
	<b>Area Rate m<sup>2</sup></b>	<b>23.00</b>
<b>2.4 m high, over 12 m<sup>2</sup></b>	<b>Constant</b>	<b>\$ 2 800</b>
	<b>Area Rate m<sup>2</sup></b>	<b>204.00</b>
Wall Height Variation <b>add or deduct</b> per 0.3 m height	<b>Constant</b>	<b>\$ 250</b>
	<b>Area Rate m<sup>2</sup></b>	<b>14.00</b>
<b>Note: Stainless Steel add 45%</b>		
Partition Panel <b>add</b>		<b>m<sup>2</sup></b>
<hr/>		
Aluminum or Galvanized Steel		<b>\$ 91.50</b>
Stainless Steel		<b>161.00</b>

**5.013.110 PREFABRICATED WALK-IN FREEZERS** including door

<b>2.4 m high, up to 12 m<sup>2</sup></b>	<b>Constant</b>	<b>\$ 2 200</b>
	<b>Area Rate m<sup>2</sup></b>	<b>410.00</b>
Wall Height Variation <b>add or deduct</b> per 0.3 m height	<b>Constant</b>	<b>\$ 160</b>
	<b>Area Rate m<sup>2</sup></b>	<b>27.00</b>
<b>2.4 m high, over 12 m<sup>2</sup></b>	<b>Constant</b>	<b>\$ 2 900</b>
	<b>Area Rate m<sup>2</sup></b>	<b>376.00</b>
Wall Height Variation <b>add or deduct</b> per 0.3 m height	<b>Constant</b>	<b>\$ 290</b>
	<b>Area Rate m<sup>2</sup></b>	<b>16.00</b>
<b>Note: Stainless Steel add 45%</b>		
Partition Panel <b>add</b>		<b>m<sup>2</sup></b>
<hr/>		
Aluminum or Galvanized Steel		<b>\$ 91.50</b>
Stainless Steel		<b>161.00</b>

**Note: add** for compressors from 5.013.115

**5.013.115 WALK-IN REFRIGERATION EQUIPMENT****COOLER COMPRESSORS** temperature to 2°C, 2.4 m high ceiling

<b>Maximum Coolable Area</b>	<b>Compressor Rating</b>		
2.3 m <sup>2</sup>	249 W	EA	\$ 1 900
4.6 m <sup>2</sup>	373 W	EA	2 100
8.8 m <sup>2</sup>	560 W	EA	2 300
13.0 m <sup>2</sup>	746 W	EA	2 600
18.6 m <sup>2</sup>	1.12 kW	EA	3 100
25.0 m <sup>2</sup>	1.49 kW	EA	3 800
34.4 m <sup>2</sup>	2.24 kW	EA	4 800
45.5 m <sup>2</sup>	2.98 kW	EA	5 500
58.5 m <sup>2</sup>	3.73 kW	EA	6 000

**Note:** For 2.7 m and 3.0 m heights use next larger size compressor.**FREEZER COMPRESSORS** temperature to -23°C, 2.4 m high ceiling

<b>Maximum Coolable Area</b>	<b>Compressor Rating</b>		
Reach in only	373 W	EA	\$ 2 500
1.9 m <sup>2</sup>	560 W	EA	2 800
3.7 m <sup>2</sup>	746 W	EA	3 100
6.5 m <sup>2</sup>	1.10 kW	EA	3 800
10.2 m <sup>2</sup>	1.49 kW	EA	4 600
23.2 m <sup>2</sup>	2.24 kW	EA	5 400
30.7 m <sup>2</sup>	2.98 kW	EA	6 400
37.2 m <sup>2</sup>	3.73 kW	EA	7 500
	4.48 kW	EA	8 600
	7.46 kW	EA	10 500

**Note:** For 2.7 m and 3.0 m heights use next larger size compressor.

### 5.013.120 REFRIGERATION PREFABRICATED INSULATION PANEL SYSTEMS

These panels may be used in the design and construction of detached or attached refrigerated structures, or large refrigerated areas within an existing building. Typical installations may be found at locker plants, meat packing plants, ice cream plants, and produce storage areas at distribution warehouses.

Panels are prefabricated at various widths, lengths and thicknesses, with 2 sides of finished steel or aluminum and a urethane insulated core. Cooler panels are normally 22 gauge metal while freezer panels are 20 gauge metal or heavier.

**Exterior Panels**, dependent on structure size, these panels may be self-supporting or have structural framework support. Exterior wall panels usually replace typical base wall components found in a warehouse or store type structure and may be further protected against damage by installation of an additional exterior cladding such as metal siding or some other protective covering.

**Roof Panels** are normally attached to O.W.S.J., replacing the usual steel deck and insulation, but must be moisture and weather protected - generally by built-up roofing.

**Interior Wall and Ceiling Panels** are for indoor installation within an existing structure and are used as insulated lining, ceiling or partitioning, either on perimeter areas or for the construction of a partial or specific refrigerated area within a structure.

1. Insulated panel costs are applied to the actual insulated surface area of walls, floors and ceilings.
2. To estimate the total cost of a refrigerated structure, first determine the cost of the basic building, then adjust component costs for exterior, roof, interior panels and floor system, add appropriate costs for refrigeration mechanical system and doors.
3. The following rating chart is a guide to select the appropriate interior wall and ceiling panels. The guide may also be used to select the appropriate refrigerated mechanical system (5.013.130).

#### TEMPERATURE GUIDE

<b>Room Type</b>	<b>Rated Temperature Range</b>
Cooler	+ 2 to +16 <sup>0</sup> C
Chiller	+ 2 to -15 <sup>0</sup> C
Freezer	-15 to -26 <sup>0</sup> C
Sharp Freeze	-26 to -40 <sup>0</sup> C

**5.013.121 INSULATED EXTERIOR WALL AND ROOF PANELS**

	<b>m<sup>2</sup></b>
Baked enamel	<b>\$ 130.00</b>
Pebbled aluminum	<b>130.00</b>
Galvanized steel	<b>118.00</b>
Stainless steel	<b>178.00</b>

**5.013.122 INSULATED INTERIOR WALL, PARTITION OR CEILING PANELS**

<b>Panel Thickness</b>	<b>Cooler/Chiller up to 100 mm m<sup>2</sup></b>	<b>Freezer 100 to 150 mm m<sup>2</sup></b>	<b>Sharp Freeze over 150 mm m<sup>2</sup></b>
Baked enamel	<b>\$ 107.00</b>	<b>\$ 118.00</b>	<b>\$ 130.00</b>
Pebbled aluminum	<b>107.00</b>	<b>118.00</b>	<b>130.00</b>
Galvanized steel	<b>96.00</b>	<b>107.00</b>	<b>118.00</b>
Stainless steel	<b>154.00</b>	<b>166.00</b>	<b>178.00</b>

**5.013.123 GLASS WALL PANELS, non-operative twin glazed thermo sealed units**

**per m<sup>2</sup>**      **\$ 900.00**

**5.013.124 INSULATED FLOOR PANEL SYSTEM**

In a room or building with an insulated floor system, the following is normally found.

Panels only - galvanized steel or aluminum, 12 to 14 gauge metal 2 sides, 100 mm urethane insulation core, per m<sup>2</sup>      **\$ 142.00**

Total Floor System - includes the following components in sequence; 150 mm gravel fill, heavy mesh reinforcing, 100 mm concrete sub-floor, 6 mil vapour barrier, 100 mm insulated panel, heavy mesh reinforcing, 100 mm concrete finished floor c/w hardener, per m<sup>2</sup>      **\$ 174.00**

Total floor system with 125 mm concrete sub-floor and 125 mm finished floor, per m<sup>2</sup>      **\$ 179.00**

Total floor system with 150 mm concrete sub-floor and 150 mm finished floor, per m<sup>2</sup>      **\$ 185.00**

**Note:** The above total floor systems are usually found in large facilities where pallet loads are moved.

**5.013.125 OTHER REFRIGERATION INSULATING SYSTEMS**

When other types of insulating systems and materials are found, the following table, based on polystyrene whiteboard, may be used as a guide to determine insulation requirements.

**OTHER REFRIGERATION INSULATION SYSTEM GUIDE**

<b>Room Type</b>	<b>Rate Temperature Range</b>	<b>Insulation Thickness (Whiteboard)</b>
Cooler	+16 to + 2 <sup>o</sup> C	50 mm to 75 mm
Chiller	+ 2 to -15 <sup>o</sup> C	100 mm to 125 mm
Freezer	-15 to -26 <sup>o</sup> C	150 mm to 175 mm
Sharp Freeze	-26 to -40 <sup>o</sup> C	200 mm to 225 mm

**Note:** Insulation materials other than polystyrene whiteboard may be used but for equivalent insulating factors they must be related to whiteboard insulation equivalents. See Unit Cost Schedule, section 5.007.000 for other wall and roof insulation costs.

**5.013.130 REFRIGERATION MECHANICAL SYSTEMS**

Based on 3.0 m Height

<b>Size Range</b>	<b>to 230 m<sup>2</sup></b>	<b>to 700 m<sup>2</sup></b>	<b>to 1850 m<sup>2</sup></b>	<b>to 4650 m<sup>2</sup></b>	<b>to 9300 m<sup>2</sup></b>
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**COOLER**

Constant	\$ 650	\$ 2 600	\$ 7 100	\$17 200	\$39 100
Area Rate m <sup>2</sup>	\$ 70.00	\$ 61.50	\$ 55.00	\$ 49.50	\$ 44.50

Height Adjustment, per 300 mm of height **add or deduct**

Constant	\$ 70	\$ 250	\$ 700	\$ 1 700	\$ 3 900
Area Rate m <sup>2</sup>	\$ 7.00	\$ 6.00	\$ 5.50	\$ 5.00	\$ 4.50

**CHILLER**

Constant	\$ 800	\$ 2 650	\$ 8 650	\$17 250	\$65 000
Area Rate m <sup>2</sup>	\$ 83.00	\$ 75.50	\$ 66.50	\$ 62.00	\$ 51.50

Height Adjustment, per 300 mm of height **add or deduct**

Constant	\$ 100	\$ 250	\$ 850	\$ 1 700	\$ 6 500
Area Rate m <sup>2</sup>	\$ 8.50	\$ 7.50	\$ 6.50	\$ 6.00	\$ 5.00

**FREEZER**

Constant	\$ 900	\$ 3 600	\$ 8 650	\$17 250	-
Area Rate m <sup>2</sup>	\$101.00	\$ 89.00	\$ 82.00	\$ 77.50	-

Height Adjustment, per 300 mm of height **add or deduct**

Constant	\$ 90	\$ 350	\$ 900	\$ 1 700	-
Area Rate m <sup>2</sup>	\$ 10.00	\$ 9.00	\$ 8.00	\$ 7.50	-

**SHARP FREEZE**

Constant	\$ 1 000	\$ 3 600	\$10 250	-	-
Area Rate m <sup>2</sup>	\$123.00	\$112.00	\$102.00	-	-

Height Adjustment, per 300 mm of height **add or deduct**

Constant	\$ 90	\$ 350	\$ 1 050	-	-
Area Rate m <sup>2</sup>	\$ 12.50	\$ 11.00	\$ 10.00	-	-

**Note:** Refrigeration mechanical system costs reflect equipment capacity sufficient to maintain the rated temperature of the storage area.

Area is determined on the inside dimensions of the storage area. Standard inside height is 3.0 m - adjust costs in accordance with rates provided for each 300 mm of height, or portion thereof, more or less than 3.0 m.

**5.013.140 REFRIGERATION DOORS**

**Cooler Doors** insulated with 75 mm polyurethane  
or 150 mm cork or fibreglass

<b>Left or Right Hand Swing Doors</b>	<b>Enamel on Steel and Galvanized m<sup>2</sup></b>		<b>Stainless Steel m<sup>2</sup></b>	
Up to 1.9 m <sup>2</sup>	<b>\$ 467.00</b>		<b>\$ 547.00</b>	
1.9 m <sup>2</sup> to 3.7 m <sup>2</sup>	<b>354.00</b>		<b>434.00</b>	
<b>Double Doors</b>				
Over 1.9 m <sup>2</sup> to 3.7 m <sup>2</sup>	<b>\$ 917.00</b>		<b>\$ 1 094.00</b>	
<b>Single Sliding Doors</b>				
Over 1.9 m <sup>2</sup> to 3.7 m <sup>2</sup>	<b>\$ 982.00</b>		<b>\$ 1 094.00</b>	
Over 3.7 m <sup>2</sup> to 5.6 m <sup>2</sup>	<b>660.00</b>		<b>772.00</b>	
Over 5.6 m <sup>2</sup> to 7.4 m <sup>2</sup>	<b>499.00</b>		<b>611.00</b>	
Over 7.4 m <sup>2</sup> to 9.3 m <sup>2</sup>	<b>418.00</b>		<b>531.00</b>	
<b>Double Sliding Doors</b>				
Over 3.7 m <sup>2</sup> to 5.6 m <sup>2</sup>	<b>\$ 660.00</b>		<b>\$ 772.00</b>	
Over 5.6 m <sup>2</sup> to 7.4 m <sup>2</sup>	<b>547.00</b>		<b>660.00</b>	
Over 7.4 m <sup>2</sup> to 9.3 m <sup>2</sup>	<b>483.00</b>		<b>595.00</b>	
<b>Reach-in Doors</b>				
	<b>Solid Hinged with Frame</b>		<b>Glass Hinged with Frame</b>	
0.6 m x 0.6 m	<b>EA</b>	<b>\$ 300</b>	<b>EA</b>	<b>\$ 460</b>
0.6 m x 0.9 m	<b>EA</b>	<b>460</b>	<b>EA</b>	<b>560</b>
0.6 m x 1.2 m	<b>EA</b>	<b>600</b>	<b>EA</b>	<b>640</b>
0.6 m x 1.4 m	<b>EA</b>	<b>-</b>	<b>EA</b>	<b>700</b>
0.6 m x 1.8 m	<b>EA</b>	<b>-</b>	<b>EA</b>	<b>730</b>
0.8 m x 2.0 m	<b>EA</b>	<b>-</b>	<b>EA</b>	<b>810</b>
<b>Glass Sliding Display Doors</b>				
2 Door 1.4 m x 1.8 m			<b>EA</b>	<b>\$ 1 200</b>
3 Door 2.1 m x 1.8 m			<b>EA</b>	<b>1 700</b>

**5.013.140 REFRIGERATION DOORS - CONT'D**

**Freezer Doors** insulated with 100 mm polyurethane  
or 200 mm cork or fibreglass

	<b>Enamel on Steel and Galvanized m<sup>2</sup></b>	<b>Stainless Steel m<sup>2</sup></b>
<b>Left or Right Hand Swing Door</b>		
Not exceeding 1.9 m <sup>2</sup>	<b>\$ 563.00</b>	<b>\$ 676.00</b>
Over 1.9 m <sup>2</sup> to 3.7 m <sup>2</sup>	<b>434.00</b>	<b>546.00</b>
<b>Overlap Doors</b>		
Not exceeding 1.9 m <sup>2</sup>	<b>\$ 949.00</b>	<b>\$ 1 062.00</b>
Over 1.9 m <sup>2</sup> to 3.7 m <sup>2</sup>	<b>676.00</b>	<b>789.00</b>
Over 3.7 m <sup>2</sup> to 5.6 m <sup>2</sup>	<b>467.00</b>	<b>579.00</b>
<b>Double Doors</b>		
Over 3.7 m <sup>2</sup> to 5.6 m <sup>2</sup>	<b>\$ 692.00</b>	<b>\$ 853.00</b>
Over 5.6 m <sup>2</sup> to 7.4 m <sup>2</sup>	<b>595.00</b>	<b>708.00</b>
Over 7.4 m <sup>2</sup> to 9.3 m <sup>2</sup>	<b>483.00</b>	<b>595.00</b>
<b>Single Sliding Doors</b>		
Over 1.9 m <sup>2</sup> to 3.7 m <sup>2</sup>	<b>\$ 1 291.00</b>	<b>\$ 1 416.00</b>
Over 3.7 m <sup>2</sup> to 5.6 m <sup>2</sup>	<b>869.00</b>	<b>998.00</b>
Over 5.6 m <sup>2</sup> to 7.4 m <sup>2</sup>	<b>660.00</b>	<b>772.00</b>
Over 7.4 m <sup>2</sup> to 9.3 m <sup>2</sup>	<b>531.00</b>	<b>676.00</b>
<b>Double Sliding Doors</b>		
Over 3.7 m <sup>2</sup> not exceeding 5.6 m <sup>2</sup>	<b>\$ 868.00</b>	<b>\$ 997.00</b>
Over 5.6 m <sup>2</sup> not exceeding 7.4 m <sup>2</sup>	<b>659.00</b>	<b>789.00</b>
Over 7.4 m <sup>2</sup> not exceeding 9.3 m <sup>2</sup>	<b>611.00</b>	<b>724.00</b>
<b>Reach-in Doors</b>		
	<b>Solid Hinged with Frame</b>	<b>Glass Hinged with Frame</b>
610 x 610 mm	<b>EA \$ 480</b>	<b>EA \$ -</b>
610 x 914 mm	<b>EA 640</b>	<b>EA -</b>
610 x 1 219 mm	<b>EA 780</b>	<b>EA -</b>
610 x 1 422 mm	<b>EA -</b>	<b>EA 870</b>
610 x 1 626 mm	<b>EA -</b>	<b>EA 1 100</b>
762 x 1 727 mm	<b>EA -</b>	<b>EA 1 300</b>

**5.013.200 SNOW MELTING EQUIPMENT - embedded in concrete**

	<b>m<sup>2</sup></b>
Electric system, includes mat heater and controls	<b>\$ 64.00</b>
Glycol system, includes piping, pump, heat exchanger, glycol and controls	<b>57.00</b>

**Note:** Cost does not include concrete



**5.013.300 LOADING DOCK RAMPS**

Standard ramp costs include reinforced concrete foundation and walls, heavy reinforced concrete sloped slab and a bottom drain system. Standard depth is grade level at open end and sloped to 1.5 m at building dock end.

**BASE RATES (in dollars)**

Size Ranges - m <sup>2</sup>	Size 1 (0-49)		Size 2 (50-249)		Size 3 (250 & over)	
	K	AR	K	AR	K	AR
	1 200	100.00	3 000	63.00	6 200	51.00

**PRECALCULATED ADJUSTMENTS (in dollars)**

Height  
per metre of height - add or deduct

Size Ranges - m <sup>2</sup>	Size 1 (0-49)		Size 2 (50-249)		Size 3 (250 & over)	
	K	AR	K	AR	K	AR
<b>Foundation Wall</b>	<b>680</b>	<b>35.70</b>	<b>1 720</b>	<b>15.20</b>	<b>3 400</b>	<b>8.80</b>

**UNIT COST ADJUSTMENTS**

Concrete Steps - refer to 5.003.455

Steel Ladders - refer to 5.005.310

Steel Pipe Railing - refer to 5.005.315

Metal Gratings - refer to 5.005.320

Concrete Drain Trenches - refer to 5.075.225

Bumper Posts

1.2 m pipe filled with concrete, EA - add \$ **100**

Loading Dock Equipment - refer to 5.011.550

Ramp Heating and Snow Melting Equipment - refer to 5.013.200

**5.013.400 COMMUNICATIONS****5.013.410 GUYED STEEL TOWERS**

up to 122.0 metres high

<b>Size</b>		<b>Per m of Height</b>
254 mm	Ham Radio, Police and Fire Bands	<b>\$ 125</b>
508 mm	Taxi and Public Service Bands	<b>197</b>
588 mm	Radio, UHF, UHF Bands	<b>246</b>
1016 mm	Micro Wave Towers	<b>492</b>
1219 mm	Micro Wave Towers	<b>640</b>
1372 mm	Master TV System	<b>713</b>
1829 mm	Master TV System	<b>984</b>
2134 mm	Master TV System	<b>1 476</b>

Size - length of one side of the base of the tower.

The above costs include all concrete pads and foundations, guy wires, painting, aircraft warning lighting, integral ladder for maintenance work and all erection costs.

The above costs do not include antennas, coaxial cable, etc., or the erection of any of these items.

**5.014.420 OTHER COMMUNICATION TOWERS AND STRUCTURES**

Single Pole Wood Structure	<b>\$231.00 per m</b>
H-Frame or Two Pole Structure	<b>\$551.00 per m</b>
Self Supporting Triangular Pole Structure	<b>\$460.00 per m</b>
Communications Shelter (Comshell)	<b>\$9,244.00 per unit</b>
Troposcatter Site (30.5 m length)	<b>\$249,120.00 per unit</b>
Satellite Dish (3.0 m diameter)	<b>\$5,600.00 per unit</b>

**5.013.500 RACQUETBALL/HANDBALL/SQUASH COURTS**

All courts are pre-manufactured as a partial or full packaged unit and may be installed into any type of pre-constructed building. Each court unit is considered and valued as a finish module only.

Standard racquetball/handball court size is 6.1 m x 12.2 m x 6.1 m high. Standard squash court size is 6.4 m x 9.8 m x 6.1 m high.

The following installed components are contained in the Base Rates for a standard court.

**Front Wall** - the major playing surface facing players, comprised of steel studs and 29 mm thick panels of bonded hardboard and plastic laminate surfaces over a high density particle board core.

**Side Walls** - steel studs and 21 mm thick tongue and groove panels with plastic laminate surfaces.

**Rear Wall** - identical frame and panel system as the side walls and also includes a solid core wood court entry door with safety glass viewport.

**Ceiling** - 6.1 m high, steel stud joists, 15.9 mm thick tongue and groove panels with plastic laminate surfaces and light fixture openings.

**Floor** - fully cushioned, wood sleepers, plywood underlay, 20 mm maple hardwood floor system laid over structural concrete slab.

**Light**

**Fixtures** - metal halide or 6 tube x 1.2 m fluorescent fixtures, flush mounted, heat and impact resistant, twin acrylic and tempered glass lenses, and remote multi-level switching and voltage control system.

**Note:** Only the light fixtures and their installation are part of a court cost. The basic electrical and wiring system must be provided and valued with **the** main structural building.

**BASE RATES**

	<b><u>Base Rate Per Court</u></b>
Racquetball / Handball Court	<b>\$ 61 900</b>
Squash Court	<b>\$ 52 400</b>

**5.013.500 RACQUETBALL/HANDBALL/SQUASH COURTS continued****PRECALCULATED ADJUSTMENTS****Masonry Walls and Ceilings**, wall surface area

where structural portions of a building are concrete, concrete block or brick, and form part of a court perimeter, the following court finish systems may be found applied:

wood strapping and hardboard panelled wall/ceiling finish - **no adjustment**

4 ply fibreglass acrylic masonry coating system, per m<sup>2</sup> - **deduct \$163.50**

**Fixed Glass Wall Panels**, wall surface area

12.7 mm tempered safety glass with supports, per m<sup>2</sup> - **add \$414.00**

**Glass Doors**

in fixed glass rear walls - **add EA \$1050.00**

**Moveable Glass Backwall and Door**

aluminum framed, mounted on castors and track, converts a court from racquetball to squash or other uses - **add per court \$9500.00**

**5.014.000 CONVEYING SYSTEMS****5.014.050 DUMBWAITERS** including automatic call or send controls and car

**Note:** add hoisting and ancillary equipment together

**Dumbwaiter Hoisting Equipment Electric**

	<b>34 kg Capacity</b>		<b>90 kg Capacity</b>		<b>227 kg Capacity</b>	
Speed - 15 mpm 2 stops	EA	\$ 9 700	EA	\$ 16 100	EA	\$ 22 500
Speed - 30 mpm 4 stops	EA	14 500	EA	24 200	EA	32 200
Speed - 45 mpm 4 stops	EA	19 300	EA	27 400	EA	37 000

**Note:** add \$3 500 for each additional stop

**Ancillary Equipment**

Bi - Parting entrance with steel frame,  
sound deadened door panels, and glass window

		<b>Paint</b>	<b>Stainless Steel</b>
per stop	add	EA \$ 790	EA \$ 1 100

**5.014.100 ELEVATORS** including controls**5.014.105 FREIGHT ELEVATOR HOISTING EQUIPMENT** medium duty**Hydraulic Hoisting Equipment** (up to 5 Floors)

		<b>908 kg Capacity</b>
Speed - 30 mpm	<b>EA</b>	<b>\$ 46 900</b>

**Electrical Hoisting Equipment**  
(up to 6 Floors)

		<b>1 816 kg Capacity</b>		<b>2 724 kg Capacity</b>		<b>3 632 kg Capacity</b>
Speed - 23 mpm	<b>EA</b>	<b>\$ 67 600</b>	<b>EA</b>	<b>\$ 74 100</b>	<b>EA</b>	<b>\$ 82 100</b>
Speed - 61 mpm	<b>EA</b>	<b>80 500</b>	<b>EA</b>	<b>88 600</b>	<b>EA</b>	<b>97 400</b>

**Note:** The above rates are for Hydraulic or Electrical Hoisting Equipment only. **Add** for car, entrances from 5.014.105 Ancillary Equipment.

**Note:** The following ancillary equipment must be **added** to Hoisting Equipment to determine the cost of a Freight Elevator System.

**Ancillary Equipment**

Standard Freight Car	<b>EA</b>	<b>\$ 7 200</b>
Standard Freight Entrance baked enamel finish	<b>EA</b>	<b>2 700</b>

**5.014.110 PASSENGER ELEVATOR HOISTING EQUIPMENT****Pre-manufactured Hydraulic Hoisting Equipment**

(5 floors) 38 mpm, 1 135 kg capacity (apartments and offices)

EA \$ 53 100

**Pre-manufactured Geared Electric Hoisting Equipment**

(5 floors) 90 mpm, 1 135 kg capacity (apartments and offices)

EA \$ 104 700

**Note:** The above rates are for Hoisting Equipment only. **Add** for car, entrances, etc. from 5.014.115, Passenger Elevator Ancillary Equipment.**Custom Hydraulic Hoisting Equipment (up to 5 floors)**

	<b>Apartments &amp; Offices 908 kg</b>	<b>Banks &amp; Stores 1 816 kg</b>	<b>Hospitals 2 724 kg</b>
Speed - 60 mpm	EA \$ 70 800	EA \$ 78 900	EA \$ 86 900

**Note:** The above rates are for Hoisting Equipment only. **Add** for car, entrances, etc. from 5.014.115 Passenger Elevator Ancillary Equipment.**Custom Geared Electric Hoisting Equipment**

	<b>Apartments 681 kg</b>	<b>Offices &amp; Hotels 1 362 kg</b>	<b>Banks &amp; Stores 2 043 kg</b>
Speed - 30 mpm Suitable for 5 - 7 floors <b>Base Rate: 5 floors</b>	EA \$ 72 500	EA \$ 78 900	EA \$ 83 700
Speed - 60 mpm Suitable for 5 - 10 floors <b>Base Rate: 5 floors</b>	EA 85 300	EA 91 800	EA 99 800
Speed - 90 mpm Suitable for 5 - 25 floors <b>Base Rate: 10 floors</b>	EA 124 000	EA 132 000	EA 141 700

**Note:** Base Rates are "per elevator"**Note:** The above rates are for Hoisting Equipment only. **Add** for car entrances, etc. from 5.014.115, Passenger Elevator Ancillary Equipment.

## 5.014.110 PASSENGER ELEVATOR HOISTING EQUIPMENT - CONT'D

**Gearless Hoisting Equipment**

	<b>Hotels &amp; Offices 908 kg</b>	<b>Stores &amp; Offices 1 816 kg</b>	<b>Hospitals &amp; Institutions 2 270 kg</b>
Speed - 120 mpm Suitable for 6 - 12 floors <b>Base Rate: 10 floors</b>	<b>EA \$ 143 100</b>	<b>EA \$ 157 800</b>	<b>EA \$ 165 800</b>
Speed - 183 mpm Suitable for 8 - 20 floors <b>Base Rate: 10 floors</b>	<b>EA 188 400</b>	<b>EA 206 100</b>	<b>EA 217 400</b>
Speed - 305 mpm Suitable for 15 - 20 floors <b>Base Rate: 20 floors</b>	<b>EA 281 800</b>	<b>EA 317 200</b>	<b>EA 333 300</b>
Speed - 458 mpm Suitable for 20 or more floors <b>Base Rate: 30 floors</b>	<b>EA 362 300</b>	<b>EA 394 500</b>	<b>EA 418 600</b>
<b>Note:</b> Base rates are "per elevator" Base Rates are based on the number of floors specified - for more or less floors <b>add</b> or <b>deduct</b> per stop			<b>EA \$ 4 200</b>
Express Elevators - for each floor by-passed <b>deduct</b> per stop			<b>EA \$ 2 100</b>

**Note:** The above rates are for Hoisting Equipment only. **Add** for car, entrances, etc. from 5.014.115, Passenger Elevator Ancillary Equipment.



**5.014.115 PASSENGER ELEVATOR ANCILLARY EQUIPMENT**

**Note:** The following ancillary equipment costs must be **added** to Hoisting Equipment (from 5.014.110) to determine the cost of a Passenger Elevator system.

**Passenger Car****Baked Enamel Finish**

Average	EA	\$ 10 600
Good	EA	15 900

**Brushed Stainless Steel** with laminated type finishes EA \$ 27 500

**Polished Stainless Steel** with wood veneer panelling and good ceiling EA \$ 33 000

**Bronzed** with good finished walls and ceiling EA \$ 33 000

**Glass Rear Wall** replaces back wall of a standard car to selected car class **add** EA \$ 5 500

**Glass Observation Car**

**Custom** - conventional shape 2 or 3 sides glazed EA \$ 33 000

**Expensive** - with added shape and expensive finishes EA \$ 44 000

**Luxurious or Unique** - specialty curved glass shapes with excellent finishes and special lighting EA \$ 55 000

**Passenger Shaft Entrance Doors**

<b>Baked Enamel</b>		<b>Single</b>		<b>Double</b>
Average	EA	\$ 2 100	EA	\$ 4 000
Good	EA	2 400	EA	4 500
<b>Stainless Steel</b>				
Brushed	EA	\$ 2 600	EA	\$ 5 300
Polished	EA	3 700	EA	6 900
<b>Bronze</b>	EA	\$ 3 900	EA	\$ 7 300
<b>Wood Panelled</b>		<b>add</b>		<b>15%</b>

**Note:** Do not apply Multiple Storey Adjustment to Elevator Hoisting and Ancillary Equipment costs.

**5.014.150 MOVING STAIRS AND WALKS****5.014.155 ESCALATORS**

<b>800 mm Wide</b>	<b>Stainless Steel Inner Panels</b>	<b>Glass Inner Panels</b>
3.10 m Rise	EA \$ 106 300	EA \$ 120 100
4.60 m Rise	EA 113 200	EA 127 000
6.10 m Rise	EA 120 100	EA 135 200
7.60 m Rise	EA 127 000	EA 142 100
<b>1 200 mm Wide</b>		
3.10 m Rise	EA \$ 110 400	EA \$ 124 200
4.60 m Rise	EA 120 100	EA 133 900
6.10 m Rise	EA 128 300	EA 144 900
6.60 m Rise	EA 138 000	EA 154 600

**5.014.160 MOVING WALKS**

<b>Horizontal Type</b>	<b>Stainless Steel Inner Panels m</b>	<b>Glass Inner Panels m</b>
1 118 mm wide	\$ 10 600	\$ 11 900
<b>Inclined Type 4.9 m Rise - Glass or Stainless Steel Inner Panels</b>		
914 mm wide		EA \$ 568 400
1 118 mm wide		EA 610 500

**5.014.200 CONVEYORS AND CHUTES****5.014.205 GRAVITY CONVEYORS WITH STEEL FRAME**

	Conveyor Width		
	375 mm m	525 mm m	675 mm m
<b>Light Duty</b>			
38 mm diameter rollers, 45.4 kg capacity	\$ 126.00	\$ 140.00	\$ 154.00
<b>Medium Duty</b>			
50 mm diameter rollers, 136.2 capacity	182.00	238.00	-
<b>Heavy Duty</b>			
63 mm diameter rollers, 272.4 kg capacity	392.00	448.00	756.00
<b>Extra Heavy Duty</b>			
88 mm diameter rollers, 1 134 kg capacity	1 750.00	2 310.00	3 122.00

**5.014.210 POWER BELT CONVEYORS** standard speed 18 to 30 mpm,  
electric motor and drive 373 watts

	Belt Width		
	375 mm m	575 mm m	975 mm m
	\$ 588.00	\$ 672.00	\$ 882.00

**5.014.215 CHUTES** Linen or Garbage Chutes 610 mm diameter

	m
Aluminum or Galvanized Steel	\$ 280.00
Aluminum	392.00
Stainless Steel	504.00
Chute Accessories (Sanitizer)	EA 170

**5.014.250 PNEUMATIC TUBE SYSTEM****Station Controlled** round or oval tubes

	Per Station
100 mm diameter	EA \$ 13 300
150 mm diameter	EA 19 600
100 x 150 mm diameter	EA 21 000

**5.014.300 HOISTS AND CRANES****5.014.305 OVERHEAD TRAVELLING BRIDGE CRANES**

Base Rates for an overhead travelling bridge crane contain the following major components.

**Bridge** - either a shaped or boxed heavy steel single girder or twin girders, which span the distance across or between two crane runway tracks, usually the width of a building, and supporting a mobile trolley and crane hoist system.

**Bridge end trucks** - are motorized gear driven wheeled trolleys or carriers attached to each end of a bridge, and run on a steel beam flange or steel track forming part of a crane runway. The trucks are used to move a bridge parallel along the length of a runway.

**Trolley** - an electric, motorized or manually operated steel framed carriage platform with wheels, which carries a mounted hoist and drive assembly laterally across the length of a bridge. A trolley may be either under running or top mounted on a single girder bridge, and is always top running mounted on a double girder bridge.

**Hoist** - is the lifting unit assembly mounted to a trolley and consists of a swivel safety hook, block pulleys, cable, cable drum, gear drives, electric motors, switches and control system.

**Electrical** - consists of installed power supply, separate panel breakers, load safety switches, conduit, flexible cable wiring, emergency limit switches, tagline cable loop trolley system and control panels.

**Light/Medium Duty: Single Girder Bridge Crane**

Top or under running, with floor controlled operation and internally located.

<b>Hoist Capacity (tonnes)</b>	<b>Base Rate 9.1 m Span</b>	<b>Add or Deduct Per 1.5 m Bridge Span</b>
0.91	\$ 18 200	\$ 680
1.81	19 430	780
2.72	22 100	780
4.54	28 700	950
6.80	32 700	950
9.07	38 970	1 050

**5.014.305 OVERHEAD TRAVELLING BRIDGE CRANES - CONTINUED****Heavy Duty: Double Girder Bridge Crane**

Top running, with floor controlled operation and internally located.

Hoist Capacity (tonnes)	Base Rate 9.1 m Span	Add or Deduct Per 1.5 m Bridge Span	
4.54	\$ 33 900	\$ 1 050	
6.80	40 300	1 085	
9.07	47 500	1 350	
13.61	68 850	1 400	
18.14	73 900	1 400	
22.68	87 300	1 600	
<b>Two Speed Bridge</b>			<b>add \$ 2 400</b>
Single Girder			<b>add \$ 2 400</b>
Double Girder			
<b>Steel Walkways on Crane Bridge, including</b>			<b>Constant \$ 1 850</b>
ladders per metre along bridge span			<b>add per m \$354</b>
<b>Cab Controlled Operation</b>			
open style cab			<b>add \$ 4 900</b>
enclosed cab			<b>add \$ 14 930</b>
<b>Exterior Operation</b>			
Bridge cranes operated partly in and outside a building or operated totally outside Bridge Crane Base Rate			<b>add 10%</b>
<b>Manual Hoists</b>			
Bridge cranes with a manual hoist – Bridge Crane Base Rate			<b>deduct 20%</b>

**Multiple Hoists**

Where more than one hoist is found on one bridge, only one cost for one bridge crane shall be applied.

The total combined lifting capacity of all the hoists found on a bridge must be used to select the appropriate crane base rate.

When the total combined lifting capacity falls between two of the above listed capacities the higher capacity must be used to determine and select the base rate. **No interpolation shall be applied.**

**5.014.305 OVERHEAD TRAVELLING BRIDGE CRANES - CONTINUED**

Examples:

2 hoists @ 4.54 tonnes each, equals a 9.07 tonne bridge crane with a base rate of:

single girder - \$ 38 970

double girder - \$ 47 500

2 hoists @ 4.54 tonnes each, plus 1 hoist @ 1.81 tonnes equals 10.89 tonnes total capacity. Therefore apply base rate for a 13.61 tonne crane of \$ 68 850.

**5.014.310 CRANE RUNWAYS**

A runway or craneway is a system of two parallel steel beam tracks on which one or more bridge cranes may operate and travel horizontally overhead. Two major types are found.

**Bracket Mounted Runway** - a system of steel beam tracks mounted on steel support brackets. The support brackets in turn are attached to and integrated with the steel column framing members of a building.

**Free Standing Runway** - a structural system consisting of reinforced concrete piles, pile caps, steel columns, steel bracing, steel beam tracks, electrical supply, and independently constructed. This type of runway may be located both internally or externally from a building.

**Runway Capacity** - total capacity of a runway is determined and calculated by combining the lifting capacity of all bridge cranes located and operating on a single runway. Where total capacity found falls between two listed capacities, the higher capacity shall be the applicable rating, to a maximum of 22.68 tonnes. **No interpolation shall be applied.**

**Bracket Mounted Runway**

Total Capacity (tonnes)	Base Rate	Add per m of Length
1.81	\$ 200	\$ 430
2.72	200	490
4.54	1 300	640
6.80	1 300	770
9.07	1 300	890
13.61	1 300	1 110
18.14	1 460	1 300
22.68	1 460	1 430

**Free Standing Runway**

Total Capacity (tonnes)	Base Rate	Add per m of Length
1.81	\$ 4 300	\$ 600
2.72	4 300	670
4.54	4 700	770
6.80	5 300	890
9.07	5 800	1 010
13.61	8 200	1 300
18.14	10 200	1 580
22.68	10 200	1 910

**5.014.330 MONORAIL TRACK HOISTS**

Base Rates for these systems include a crane runway of brackets, clamps, hangers, switches and steel beam monorail track, trolleys, hoists, electrical and installation costs.

The trolley is a carriage and wheel arrangement that moves the hoist along a runway. A monorail may have the following hoist and trolley combination:

- motorized trolley plus motorized hoist
- manual trolley plus motorized hoist
- manual trolley plus manual hoist.

**Monorail Hoists & Trolleys**

<b>Hoist Capacity (tonnes)</b>	<b>Manual Hoist Manual Trolley</b>	<b>Motorized Hoist Manual Trolley</b>	<b>Motorized Hoist Motorized Trolley</b>
0.45	\$ 660	\$ 2 180	\$ 2 660
0.91	800	2 650	3 230
1.81	1 090	3 590	4 380
2.72	1 370	4 530	5 530
3.63	1 650	5 470	6 680
4.54	1 940	6 410	7 830
6.80	1 550	8 430	10 290

**5.014.335 MONORAIL TRACK RUNWAYS**

A runway or craneway may have a straight or curved monorail track, and may be free-standing or suspended and integrated into the structural framing system of the floor or roof of a building. This latter arrangement is the most common monorail configuration.

<b>Total Capacity (tonnes)</b>	<b>Straight Runway/m</b>	<b>Curved Runway/m</b>
0.45	\$ 18	\$ 50
0.91	18	75
1.81	42	126
2.72	83	177
3.63	116	228
4.54	151	278
6.80	223	387

**Note:** Determine total capacity of track runway as other crane runway systems.



**5.014.350 JIB CRANES**

Jib cranes are also referred to as jib boom shop cranes. Costs include crane materials package, base, electrical and installation.

Three major types are commonly found.

**Wall Bracket Mounted** - has no post and jib or boom is mounted on brackets attached to a main steel framing member of a building.

**Post Side-Mounted, Partial Rotation** - jib or boom is mounted on hinges to the side of a free-standing steel post. Hinges allow boom to swing or rotate 180° - 220°.

**Post Top-Mounted, Full Rotation** - jib or boom is attached to a revolving steel sleeve and mounted on top of a steel post, allowing a full 360° of rotation.

**Wall Bracket Jib Cranes**

<b>Capacity (tonnes)</b>	<b>Hoist Type</b>	<b>Base Rate</b>	<b>Boom Length Add per m</b>
0.23	manual	<b>1 150</b>	<b>\$ 84</b>
	electric	<b>4 850</b>	<b>84</b>
0.45	manual	<b>1 150</b>	<b>86</b>
	electric	<b>5 050</b>	<b>86</b>
0.91	manual	<b>1 200</b>	<b>97</b>
	electric	<b>5 500</b>	<b>97</b>
1.36	manual	<b>1 500</b>	<b>130</b>
	electric	<b>6 750</b>	<b>130</b>
1.81	manual	<b>1 500</b>	<b>148</b>
	electric	<b>6 700</b>	<b>148</b>
2.72	manual	<b>2 000</b>	<b>276</b>
	electric	<b>11 050</b>	<b>276</b>
4.54	manual	<b>3 500</b>	<b>350</b>
	electric	<b>14 700</b>	<b>350</b>

**5.014.350 JIB CRANES - CONT'D****Post Side-Mounted Jib Cranes**

<b>Capacity (tonnes)</b>	<b>Hoist Type</b>	<b>Base Rate</b>	<b>Boom Length Add per m</b>
0.23	manual	\$ 1 600	\$ 326
	electric	5 300	326
0.45	manual	1 750	294
	electric	5 650	294
0.91	manual	2 100	353
	electric	6 400	353
1.36	manual	2 400	473
	electric	7 700	473
1.81	manual	2 450	570
	electric	7 700	570
2.72	manual	3 300	576
	electric	12 500	576
4.54	manual	4 600	739
	electric	15 800	739

**Post Top-Mounted Jib Cranes**

<b>Capacity (tonnes)</b>	<b>Hoist Type</b>	<b>Base Rate</b>	<b>Boom Length Add per m</b>
0.23	manual	1 800	\$ 308
	electric	5 500	308
0.45	manual	2 000	365
	electric	5 900	365
0.91	manual	1 700	578
	electric	6 000	578
1.36	manual	2 000	690
	electric	7 200	690
1.81	manual	2 000	740
	electric	7 250	740
2.72	manual	3 100	884
	electric	12 250	884
4.54	manual	3 600	1 295
	electric	14 800	1 295

**5.014.350 JIB CRANES - CONT'D****Post Column Height Adjustment**

All post heights in rate provide a jib boom clearance of 3.7 m. For post or column height adjustments, greater than or less than 3.7 m, **add or deduct** as follows:

<b>Capacity (tonnes)</b>	<b>Post Diameter</b>	<b>Height Adjustment per m</b>
0.23	200 mm	\$ 180
0.45	250 mm	260
0.91	300 mm	310
1.36	350 mm	340
1.81	400 mm	400
2.72	500 mm	640
4.54	600 mm	790

**5.015.000 MECHANICAL****5.015.200 PLUMBING****5.015.225 WATER TREATMENT** water softeners

<u>Capacity</u>	<u>Semi Automatic</u>		<u>Automatic</u>	
620 g	EA	\$ 480	EA	\$ 540
1116 g	EA	570	EA	670
1550 g	EA	670	EA	800
2325 g	EA	-	EA	1 200
3255 g	EA	-	EA	1 400

**5.015.230 WASTE WATER DISPOSAL AND TREATMENT**

**Septic Tank Systems and Disposal Field** including excavation, stone bedding and backfilling

3 273 litres	EA	\$ 3 700
9 092 litres	EA	6 000
22 730 litres	EA	10 800

**5.015.235 HOT WATER HEATERS****Gas fired**

286 L/h	EA	\$ 1 100
459 L/h	EA	1 500
596 L/h	EA	1 800
1 068 L/h	EA	2 200
1 373 L/h	EA	2 500

**Gas fired car wash unit** high recovery

791 L/h	EA	\$ 2 900
1 227 L/h	EA	3 100
1 754 L/h	EA	3 700
2 110 L/h	EA	4 200
2 655 L/h	EA	5 200

**Gas fired coin laundry unit**

1 227 L/h	EA	\$ 3 800
1 754 L/h	EA	4 700
2 110 L/h	EA	5 300
2 655 L/h	EA	6 300
3 073 L/h	EA	6 700

**5.015.240 PLUMBING FIXTURES****Drinking Fountains****Vitreous China** non-refrigerated

Wall hung 305 x 330 mm	EA	\$ 690
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Semi-recessed 381 x 660 mm	EA	800
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**Fibreglass**

Wall hung 254 x 356 mm	EA	\$ 660
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Semi-recessed 406 x 711 mm	EA	750
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**Refrigerated**

Wall mounted	EA	\$ 930
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Floor mounted	EA	960
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**5.015.245 COMMERCIAL AND INDUSTRIAL FIXTURES****Commercial Sinks** stainless steel with 203 mm high splash boards**Single Compartment** 356 mm deep

610 x 610 mm	EA	\$ 900
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610 x 762 mm	EA	1 000
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610 x 914 mm	EA	1 100
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**Double Compartment** 356 mm deep

381 x 610 mm	EA	\$ 1 100
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508 x 610 mm	EA	1 300
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610 x 762 mm	EA	1 500
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**Triple Compartment** 356 mm deep

381 x 610 mm	EA	\$ 1 700
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508 x 610 mm	EA	1 900
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610 x 610 mm	EA	2 100
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<b>Note:</b> For drainboards either side	<b>add</b>	EA	\$ 590
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**Laundry Sinks** steel enamelled

Single Bowl 533 x 610 mm	EA	\$ 580
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Double Bowl 533 x 813 mm	EA	660
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Single Compartment 559 x 559 mm	EA	640
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Double Compartment 559 x 1 118 mm	EA	750
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**Service Sinks** cast iron enamelled

Wall hung 457 x 559 mm	EA	\$ 1 300
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Mop receptor, floor type, 457 x 559 mm	EA	1 200
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**5.015.245 COMMERCIAL AND INDUSTRIAL FIXTURES - CONT'D****Washfountains****Precast Terrazzo**

Semi-circular 914 mm	EA	\$ 1 600
Semi-circular 1 372 mm	EA	1 900
Circular 914 mm	EA	1 800
Circular 1 372 mm	EA	2 000

**Stainless Steel**

Semi-circular 914 mm	EA	\$ 1 900
Semi-circular 1 372 mm	EA	2 400
Circular 914 mm	EA	2 000
Circular 1 372 mm	EA	2 800

**5.015.250 PLUMBING SPECIALTIES****Floor Drains** brass top including 3.3 m pipe

50 mm	EA	\$ 380
75 mm	EA	320
100 mm	EA	340

**5.015.500 FIRE PROTECTION****5.015.505 AUTOMATIC SPRINKLER SYSTEM**

Wet System	Protection Area Per Head				
	8.4 m <sup>2</sup>	9.3 m <sup>2</sup>	12.1 m <sup>2</sup>	15.6 m <sup>2</sup>	18.6 m <sup>2</sup>
<b>Exposed Piping</b>					
First Level					
<b>Constant</b>	\$ 2 800	\$ 2 500	\$ 1 900	\$ 1 500	\$ 1 300
<b>Area Rate m<sup>2</sup></b>	12.00	11.00	8.40	6.50	5.50
Additional Levels					
<b>Area Rate m<sup>2</sup></b>	10.00	9.30	7.30	5.50	4.60
<b>Concealed Piping</b>					
First Level					
<b>Constant</b>	\$ 2 800	\$ 2 500	\$ 1 900	\$ 1 500	\$ 1 300
<b>Area Rate m<sup>2</sup></b>	14.50	13.00	10.00	7.80	6.70
Additional Levels					
<b>Area Rate m<sup>2</sup></b>	13.00	11.50	8.70	6.80	5.80

**5.015.505 AUTOMATIC SPRINKLER SYSTEM - CONT'D****Flush Heads**

First Level

<b>Constant</b>	<b>\$ 2 800</b>	<b>\$ 2 500</b>	<b>\$ 1 900</b>	<b>\$ 1 500</b>	<b>\$ 1 300</b>
<b>Area Rate m<sup>2</sup></b>	<b>17.00</b>	<b>16.00</b>	<b>12.00</b>	<b>9.50</b>	<b>7.80</b>

Additional Levels

<b>Area Rate m<sup>2</sup></b>	<b>15.50</b>	<b>14.00</b>	<b>11.00</b>	<b>8.50</b>	<b>7.50</b>
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**Wet Pipe Systems** The wet pipe system employs automatic sprinklers attached to piping containing water under pressure at all times. When fire occurs, individual sprinklers are actuated by the heat and water flows immediately. This system is generally used wherever there is no danger of the water in the pipes freezing, and wherever there are no special conditions requiring one of the other systems.

**Dry System****Protection Area Per Head**

<b>Exposed Piping</b>	<b>8.4 m<sup>2</sup></b>	<b>9.3 m<sup>2</sup></b>	<b>12.1 m<sup>2</sup></b>	<b>15.6 m<sup>2</sup></b>	<b>18.6 m<sup>2</sup></b>
First Level					
<b>Constant</b>	<b>\$ 2 900</b>	<b>\$ 2 600</b>	<b>\$ 2 000</b>	<b>\$ 1 600</b>	<b>\$ 1 300</b>
<b>Area Rate m<sup>2</sup></b>	<b>12.50</b>	<b>11.00</b>	<b>8.70</b>	<b>6.70</b>	<b>5.50</b>
Additional Levels					
<b>Area Rate m<sup>2</sup></b>	<b>10.50</b>	<b>9.40</b>	<b>7.30</b>	<b>5.80</b>	<b>4.80</b>

**Concealed Piping**

First Level

<b>Constant</b>	<b>\$ 2 900</b>	<b>\$ 2 600</b>	<b>\$ 2 000</b>	<b>\$ 1 600</b>	<b>\$ 1 300</b>
<b>Area Rate m<sup>2</sup></b>	<b>15.00</b>	<b>13.50</b>	<b>10.00</b>	<b>8.00</b>	<b>6.70</b>

Additional Levels

<b>Area Rate m<sup>2</sup></b>	<b>13.00</b>	<b>11.50</b>	<b>9.00</b>	<b>7.00</b>	<b>5.80</b>
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**Flush Heads**

First Level

<b>Constant</b>	<b>\$ 2 900</b>	<b>\$ 2 600</b>	<b>\$ 2 000</b>	<b>\$ 1 600</b>	<b>\$ 1 300</b>
<b>Area Rate m<sup>2</sup></b>	<b>17.50</b>	<b>16.00</b>	<b>12.00</b>	<b>9.60</b>	<b>8.00</b>

Additional Levels

<b>Area Rate m<sup>2</sup></b>	<b>16.00</b>	<b>14.50</b>	<b>11.00</b>	<b>8.70</b>	<b>7.30</b>
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**Dry Pipe System** A dry pipe system has automatic sprinklers attached to piping containing air under pressure. When a sprinkler is opened by heat from fire, air pressure is reduced, the dry pipe valve is opened by water pressure, and water flows to any open sprinklers. Dry pipe systems operate more slowly than wet types, and are also more expensive to install and to maintain. For these reasons, they are normally installed only where necessary (generally where freezing is a problem).

**Pre-Action or Deluge Systems:** add 50% to Dry System cost

**5.015.505 AUTOMATIC SPRINKLER SYSTEM - CONT'D**

**Pre-Action Systems** Pre-action systems are designed primarily to counteract the operational delay of conventional dry pipe systems, and to eliminate the danger of water damage resulting from accidental damage to automatic sprinklers or piping.

In pre-action systems, the water supply valve is actuated independently of the opening of sprinklers; i.e., the valve is opened by the operation of an automatic fire detection system and not by the fusing of the sprinklers.

**Deluge Systems** The purpose of a deluge system is to deliver the most water in the least time. It wets down an entire fire area by admitting water to sprinklers or spray nozzles which are open at all times. By using automatic fire detection devices of the type used in pre-action systems or controls designed for individual hazards, it is possible to apply water to fire more quickly than with systems in which operation depends on the opening of sprinklers only as the fire spreads. Deluge systems are suitable for extra hazard occupancies in which flammable liquids are handled or stored, and where there is a possibility that fire may flash ahead of the operation of ordinary automatic sprinklers.

**5.015.510 SPRINKLER SYSTEM ANCILLARY EQUIPMENT**

The following precalculated rates contain additional costs for miscellaneous equipment found in a structure in conjunction with and complementing any type of sprinkler fire protection system.

Inclusive costs are for a normal quantity and quality of items which include interior and exterior siamese connections, valves, fire hose cabinets, exit signs, manual pull downs, alarm bells, emergency lights, wiring and installation, and must be added to sprinkler system costs.

<b>All Sizes - m<sup>2</sup></b>		<b>K</b>	<b>AR</b>
Hotel			
basement	<b>add</b>	<b>\$ 1 920</b>	<b>\$ 1.60</b>
main	<b>add</b>	<b>5 020</b>	<b>1.90</b>
upper	<b>add</b>	<b>1 580</b>	<b>1.30</b>
Store			
basement	<b>add</b>	<b>\$ 1 920</b>	<b>\$ 1.60</b>
main	<b>add</b>	<b>4 580</b>	<b>1.60</b>
upper	<b>add</b>	<b>1 920</b>	<b>1.60</b>
Office basement			
	<b>add</b>	<b>\$ 1 920</b>	<b>\$ 1.60</b>
main	<b>add</b>	<b>4 580</b>	<b>1.60</b>
upper	<b>add</b>	<b>1 580</b>	<b>1.30</b>
Warehouse			
basement	<b>add</b>	<b>\$ 1 920</b>	<b>\$ 1.60</b>
main	<b>add</b>	<b>4 240</b>	<b>1.30</b>
upper	<b>add</b>	<b>1 580</b>	<b>1.30</b>



**5.015.515 FIRE DETECTOR SYSTEMS**

A fire detector system replaces or supplements a sprinkler system. Where water is not wanted, or has no effective use, sprinkler heads, etc. are replaced by a series of interconnected sensors, which detect gases, heat, or smoke fumes. Detectors are also located in air ducts and ventilation systems. All sensors are in turn linked electronically to control panels and automatic alarm systems.

Sensor detector systems of three types are normally found.

Ionization - are very fast, highly sensitive, and react to combustion gases, odors or changes in air quality. Uses are found in high hazard volatile areas, vaults, document and data centres or sensitive equipment areas.

Thermal - respond to heat changes from pre-set temperature limits and are used in high heat areas such as manufacturing or mechanical rooms.

Smoke - have slow response time and react to concentrated smoke fumes only. Uses are mainly found in apartments, small commercial businesses, public buildings, and other low hazard areas.

	<b>Ionization Detector System</b>		<b>Thermal Detector System</b>		<b>Smoke Detector System</b>	
	<b>K</b>	<b>AR</b>	<b>K</b>	<b>AR</b>	<b>K</b>	<b>AR</b>
<b>All Sizes m<sup>2</sup></b>						
<b>Hotel</b>						
basement	\$ 1 340	\$ 4.30	\$ 540	\$ 1.70	\$ 270	\$ 0.90
main floor	1 560	8.60	630	3.50	310	1.70
upper floor		8.60	-	3.50	-	1.70
<b>Store</b>						
basement	\$ 1 560	\$ 10.10	\$ 630	\$ 4.10	\$ 310	\$ 2.00
main floor	1 560	10.60	630	4.30	310	2.10
upper floor		10.60	-	4.30	-	2.10
<b>Office</b>						
basement	\$ 1 340	\$ 4.30	\$ 540	\$ 1.70	\$ 270	\$ 0.90
main floor	1 560	10.60	630	4.30	310	2.10
upper floor	-	10.60	-	4.30		2.10
<b>Warehouse</b>						
basement	\$ 670	\$ 4.50	\$ 270	\$ 1.80	\$ 130	\$ 0.90
main floor	670	4.50	270	1.80	130	0.90
upper floor	-	4.50	-	1.80	-	0.90

**5.015.520 DETECTOR SYSTEM ANCILLARY EQUIPMENT**

The following precalculated rates are for additional combined costs for miscellaneous equipment found in a structure in conjunction with and complementing any type of fire detector system.

Normal quantities and quality of items will include a standpipe system, interior and exterior siamese connections, valves, fire hose cabinets, exit signs, manual pull downs, alarm bells, emergency lights, wiring and installation costs, and must be added to detector system costs.

<b>All Sizes - m<sup>2</sup></b>		<b>K</b>	<b>AR</b>
Hotel			
basement	<b>add</b>	<b>\$ 3 400</b>	<b>\$ 2.80</b>
main	<b>add</b>	<b>8 680</b>	<b>4.90</b>
upper	<b>add</b>	<b>3 070</b>	<b>2.50</b>
Store			
basement	<b>add</b>	<b>\$ 3 400</b>	<b>\$ 2.80</b>
main	<b>add</b>	<b>8 230</b>	<b>4.50</b>
upper	<b>add</b>	<b>3 400</b>	<b>2.80</b>
Office			
basement	<b>add</b>	<b>\$ 3 400</b>	<b>\$ 2.80</b>
main	<b>add</b>	<b>7 900</b>	<b>4.30</b>
upper	<b>add</b>	<b>3 070</b>	<b>2.50</b>
Warehouse			
basement	<b>add</b>	<b>\$ 3 400</b>	<b>\$ 2.80</b>
main	<b>add</b>	<b>8 230</b>	<b>4.50</b>
upper	<b>add</b>	<b>3 070</b>	<b>2.50</b>

**5.015.530 ANNUNCIATOR PANEL MONITORING ALARM SYSTEMS**

In conjunction with a sprinkler or sensor detector fire protection system, a central remote monitoring annunciator alarm system and control facility is normally found.

Annunciator panels are located in close proximity to a building entrance. This system consists of audio-visual display panels, monitoring equipment, electric indicators to show source, origin, or location of a fire, alarm initiating devices, zone indicators, mechanical control centers for water flow, gate valve and pressure switches, activating sprinkler systems, and automatic controls for fans, vents, doors and air handling system zones.

In higher and larger type buildings a voice communication system forms part of an alarm system, with provisions for 2-way communication with amplifier, loudspeakers, and emergency telephones.

Costs for these monitoring alarm systems must be added to the cost of sprinkler or detector system and costs for ancillary equipment in order to arrive at a total fire protection system cost.

**Annunciator and Control Panel**

- 2 zone display - **add EA \$ 1 500**
- 4 zone display - **add EA \$ 1 750**
- 8 zone display - **add EA \$ 2 000**
- 12 zone display - **add EA \$ 3 200**
- 24 zone display - **add EA \$ 4 500**
- 32 zone display - **add EA \$ 5 500**

**Annunciator and Control Panel with Voice Alarm System**

- 2 zone display - **add EA \$ 3 700**
- 4 zone display - **add EA \$ 5 900**
- 8 zone display - **add EA \$ 8 200**
- 12 zone display - **add EA \$ 12 300**
- 24 zone display - **add EA \$ 15 700**
- 32 zone display - **add EA \$ 19 100**

**Note:** The number of zones can usually be counted on the annunciator display panels.

**5.015.540 HALON GAS FIRE SUPPRESSION SYSTEMS**

Halon gas and carbon dioxide gas agent fire suppression systems are designed for use in isolated or high risk areas, unusual hazards or special environments, and where water sprinkler systems are of no use or undesirable. These are referred to as "clean" systems that leave no residue or do not contaminate contents such as documents, records or electronic equipment.

Total systems include costs of all electrical, mechanical, ancillary items and installation. Items included are gas storage cylinders, piping distribution system, discharge nozzles, automatic fire, heat and smoke photoelectric or ionization detectors, pull down stations, horn and bell alarms, annunciator control panel modules, activation modules for door closures, air system, computer system and exhaust system automatic shutdown. **No additional add-on costs are required with these systems.**

Systems are used in such locations as libraries, museums, bank and security vaults, electronic data processing, tape and data storage, transformer rooms, telephone exchanges, laboratories, radio and television facilities, and flammable liquid storage areas.

Size Ranges m2	Coverage Area per System					
	Size 1 (0-49)		Size 2 (50-249)		Size 3 (250 & over)	
	K	AR	K	AR	K	AR
Regular Floor Area	1 500	126	4 300	69	6 900	59
Access Floor Area	1 500	141	4 400	81	7 000	71

**5.015.550 STAND PIPE & FIRE HOSE EQUIPMENT****Fire Hose Rack**

Steel, painted with 22.9 m of hose EA \$ 340

**Fire Hose Cabinet recessed**

Steel, painted with 22.9 m of hose EA 560  
 Steel, painted with 22.9 m of hose and fire extinguisher EA 700  
 Chrome faced with 22.9 m of hose EA 830  
 Chrome faced with 22.9 m of hose and fire extinguisher EA 910

**Fire Extinguisher Cabinet recessed**

Steel, painted with glass door EA 290

**5.015.560 SPECIALTY ITEMS**

The following are some of the items included in the precalculated costs of an Ancillary Equipment System. Individual costs are provided for use where a smaller structure does not contain a complete fire protection system and may have only a partial alarm system.

**Siamese Pumper Connections**

	<b>Flush Wall Type</b>		<b>Projection Wall Type</b>		<b>Sidewalk Unit</b>	
60 x 60 x 100 mm	EA	\$ 430	EA	\$ 380	EA	\$ 500
60 x 60 x 125 mm	EA	510	EA	430	EA	600
75 x 75 x 100 mm	EA	530	EA	—	EA	—
75 x 75 x 125 mm	EA	580	EA	—	EA	—

**Polished Chrome add 10%****Check Valves** used with above connections 100

mm	EA	\$ 320
150 mm	EA	510
200 mm	EA	720

**Alarm Bells**

150 mm diameter	EA	\$ 80
250 mm diameter	EA	140

**Horns**

standard alert	EA	\$ 80
speaker and alert	EA	150

**Pull-Down Stations**

standard metal	EA	\$ 80
key-lock 2 stage	EA	120

**Exit Signs**

standard	EA	\$ 70
good	EA	120

**Emergency Lights**

good, twin head c/w battery pack	EA	\$190
expensive, 150 x 600 mm tube type	EA	310

**5.015.600 HEATING, COOLING, AIR DISTRIBUTION****5.015.620 HEAT TRANSFER EQUIPMENT****Suspended Unit Heaters****Gas Fired**

11.7 kW	EA	\$ 710
23.4 kW	EA	830
35.2 kW	EA	1 020
46.9 kW	EA	1 300
58.6 kW	EA	1 700
70.3 kW	EA	2 100
82.0 kW	EA	2 400
93.8 kW	EA	2 700

**Gas Fired Infra-red Ceramic Plate Units**

These units may be made up from 1 to 8 ceramic plates. Each plate has a potential input of 4.4 kW each. While the unit itself is not required to be vented, its use is limited to commercial buildings where the water vapour created can be exhausted by other means.

4.4 kW	EA	\$ 530
8.8 kW	EA	590
14.7 kW	EA	680
17.6 kW	EA	770
22.0 kW	EA	900
26.4 kW	EA	1 000
30.8 kW	EA	1 100
35.2 kW	EA	1 200

**Infra-red Steel Tube Radiant Heat Systems**

Two types of horizontal steel tube radiant heaters are found. A vacuum induced continuous loop system has gas fired burners at spaced intervals on a continuous perimeter mounted burning tube, a vacuum pump, air supply blower fan, filters, and a fume exhaust system made up of ducts, vents and chimney.

An individual unit forced air combustion tube system may be made up of a single unit or a series of spaced individual burner tube units. Each unit has a burner head control, burner tube, forced air fan, thermostat and zone controls.

Both systems are suspended and have aluminum or steel heat reflector pans and grills.

Continuous Loop System	<b>K</b>	<b>\$ 500</b>
	<b>ARm<sup>2</sup></b>	<b>\$ 18.00</b>
Individual Tube Unit System	<b>K</b>	<b>\$ 300</b>
	<b>ARm<sup>2</sup></b>	<b>\$ 14.00</b>

**5.015.620 HEAT TRANSFER EQUIPMENT - CONT'D**

**Horizontal Type Unit Heaters** These are rectangular in shape and are suspended from the wall or ceiling. Installation includes wiring, thermostat and an average amount of piping. They do not include the cost of the boiler or heat source.

**Steam**

10.6 kW	EA	\$ 500
18.5 kW	EA	600
36.6 kW	EA	840
52.7 kW	EA	1 100
70.3 kW	EA	1 400
103.2 kW	EA	2 100

**Hot Water**

6.7 kW	EA	\$ 500
11.7 kW	EA	600
23.4 kW	EA	840
33.7 kW	EA	1 100
47.2 kW	EA	1 400
73.3 kW	EA	2 100

**Vertical Projection Unit Heaters** These heaters are round in shape and hang from the ceiling. Installation includes wiring, thermostat and an average amount of piping. They do not, however, include the cost of the boiler or heat source.

**Steam**

4.9 kW	EA	\$ 740
10.7 kW	EA	840
14.7 kW	EA	1 000
26.1 kW	EA	1 400

**Hot Water**

2.8 kW	EA	\$ 740
7.6 kW	EA	840
10.4 kW	EA	1 000
19.1 kW	EA	1 400

**5.015.620 HEAT TRANSFER EQUIPMENT - CONT'D****RADIANT ROLL HEATING SYSTEMS**

A complete system includes a hot water boiler, water treatment system, pumps, water lines, gas line, supply and return headers, foil faced vapour barrier, rubberized propylene tubing mats or plastic piping, zone controls, electrical and installation costs.

Tubing or piping between wood floor joists or embedded in concrete usually have a spacing of 300 mm, while tubing or piping in concrete driveways and ramps will have a spacing of 75 mm.

**Floor System Application**

Concrete Slab-on-grade	<b>per m<sup>2</sup> - add</b>	<b>\$ 21.00</b>
Suspended Concrete Floor Framing Systems	<b>per m<sup>2</sup> - add</b>	<b>21.00</b>
Concrete Slab on Steel Deck	<b>per m<sup>2</sup> - add</b>	<b>21.00</b>
Wood Joisted Floor System	<b>per m<sup>2</sup> - add</b>	<b>23.00</b>
Parking Ramps, Driveways, Loading Dock Ramps	<b>per m<sup>2</sup> - add</b>	<b>81.00</b>

**NOTE:** Where this system is found embedded in gyperete or lightweight foamcell topping in conjunction with a wood joisted floor, an addition must also be made for costs of these toppings, and an addition made for costs of any insulation found.

The above rates must be applied to each level or floor of a structure, including basement slabs.



**5.015.625 AIR DISTRIBUTION****Vaneaxial Fans** belt drive, suspended

1.4 m <sup>3</sup> /s	EA	\$ 1 700
2.4 m <sup>3</sup> /s	EA	1 900
3.3 m <sup>3</sup> /s	EA	2 200
4.7 m <sup>3</sup> /s	EA	3 300
7.0 m <sup>3</sup> /s	EA	4 100
9.4 m <sup>3</sup> /s	EA	6 000

**Propeller Fans** direct drive, wall type not including exhaust shutters

305 mm 0.47 m <sup>3</sup> /s	EA	\$ 430
406 mm 0.94 m <sup>3</sup> /s	EA	490
610 mm 2.4 m <sup>3</sup> /s	EA	600
762 mm 3.8 m <sup>3</sup> /s	EA	650
914 mm 7.0 m <sup>3</sup> /s	EA	1 000
1 067 mm 9.4 m <sup>3</sup> /s	EA	1 800
1 219 mm 14.2 m <sup>3</sup> /s	EA	2 480
1 372 mm 18.0 m <sup>3</sup> /s	EA	2 500
1 524 mm 23.6 m <sup>3</sup> /s	EA	3 200
1 829 mm 28.3 m <sup>3</sup> /s	EA	4 500

**Roof Exhaust Fans** centrifugal, aluminum**Direct Drive**

0.08 m <sup>3</sup> /s	EA	\$ 370
0.15 m <sup>3</sup> /s	EA	400
0.26 m <sup>3</sup> /s	EA	430
0.39 m <sup>3</sup> /s	EA	490
0.65 m <sup>3</sup> /s	EA	820
1.10 m <sup>3</sup> /s	EA	1 100

**Belt Drive**

0.28 m <sup>3</sup> /s	EA	\$ 810
0.56 m <sup>3</sup> /s	EA	850
0.94 m <sup>3</sup> /s	EA	1 100
1.98 m <sup>3</sup> /s	EA	1 800
2.83 m <sup>3</sup> /s	EA	2 100
4.52 m <sup>3</sup> /s	EA	3 600
6.84 m <sup>3</sup> /s	EA	3 800

**5.015.625 AIR DISTRIBUTION - CONT'D**

**Recirculating Ceiling Fans** including variable speed control switch

**Average steel 3 blade**

		<b>Down Thrust</b>	<b>Up &amp; Down Thrust</b>
914 mm	EA	\$ 370	\$ -
1 422 mm	EA	480	EA 540
<b>Note:</b> Control Switch - up to 5 fans		add	EA \$ 170
- up to 10 fans		add	EA 200

**Good, no light fixture**

		<b>Steel</b>		<b>Wooden</b>	
		<b>3 Blade</b>	<b>4 Blade</b>	<b>3 Blade</b>	<b>4 blade</b>
914 mm	EA	\$ 490	\$ 580	\$ 600	\$ 710
1 219 mm	EA	540	630	680	800
1 422 mm	EA	610	-	770	-

**Light Fixture**

add EA \$ 51

**Exhaust or Fresh Air Outlets**

**Fixed Louvres**

m<sup>2</sup>

Galvanized Steel	\$ 303.00
Aluminum	357.00

**Combination Fixed and Operating Louvers**

	<b>Operation</b>		
	<b>Manual m<sup>2</sup></b>	<b>Electric m<sup>2</sup></b>	<b>Pneumatic m<sup>2</sup></b>
Galvanized Steel	\$ 366.00	\$ 462.00	\$ 396.00
Aluminum	413.00	510.00	444.00

**5.016.000 ELECTRICAL****5.016.300 ELECTRICAL FIXTURE ALLOWANCE IN MANUAL RATES**

<b>Model Type</b>	<b>01</b>	<b>02</b>	<b>Quality 03</b>	<b>04</b>	<b>06</b>	<b>08</b>
300 Stores m <sup>2</sup>	\$ -	\$ 6.20	\$ 10.00	\$ 13.00	\$ 21.00	\$ 27.00
350 Offices m <sup>2</sup>	-	10.00	13.00	16.00	27.00	35.00
500 Warehouse m <sup>2</sup>	1.50	3.50	3.50	6.20	10.00	13.00

**5.016.350 SWITCHES AND RECEPTACLES****Switches 120-277V**

Toggle switches (quiet)

Single pole	EA	\$ 24
3-Way	EA	46

Toggle switches (silent mercury)

Single pole	EA	\$ 27
3-Way	EA	52
4-Way	EA	83

Toggle switches (premium grade)

Single pole with glow-handle	EA	\$ 36
Double pole	EA	50
3-Way	EA	61
4-Way	EA	82

**Switches 350V**

Fluorescent loads 15 AMP

Single pole	EA	\$ 39
Double pole	EA	62
3-Way	EA	84
4-Way	EA	110

Fluorescent loads 20 AMP

Single pole	EA	\$ 45
Double pole	EA	67
3-Way	EA	86
4-Way	EA	120

**15 AMP Receptacles**

Standard, duplex U ground	EA	\$ 25
Weatherproof, duplex U ground	EA	\$ 88

**20 AMP Receptacles**

Standard, duplex U ground	EA	\$ 41
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**30 AMP Receptacles**

Range and dryer type, 4 wire, 120/240	EA	\$ 95
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**50 AMP Receptacles**

Range and dryer type, 4 wire, 120/240	EA	\$ 120
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**5.016.500 LIGHTING FIXTURES****5.016.505 FLUORESCENT LIGHTING FIXTURES interior**

	600 mm		1200 mm		2400 mm	
<b>Surface mounted strip</b>						
1 Tube 40 Watt	EA	\$ 52	EA	\$ 56	EA	\$ 73
2 Tube 40 Watt	EA	63	EA	68	EA	-
74 Watt	EA	-	EA	-	EA	77
4 Tube 40 Watt	EA	-	EA	92	EA	-
74 Watt	EA	-	EA	-	EA	120
<b>Surface mounted wrap around lens</b>						
2 Tube 40 Watt	EA	\$ -	EA	\$ 75	EA	\$ -
4 Tube 40 Watt	EA	-	EA	130	EA	-
<b>Surface mounted lay-in lens</b>						
2 Tube 40 Watt	EA	\$ -	EA	86	EA	\$ -
4 Tube 40 Watt	EA	-	EA	150	EA	-
<b>Surface mounted dropped opal diffuser</b>						
2 Tube 40 Watt	EA	\$ -	EA	140	EA	\$ -
4 Tube 40 Watt	EA	-	EA	230	EA	-
6 Tube 40 Watt	EA	-	EA	380	EA	-
8 Tube 40 Watt	EA	-	EA	430	EA	-
<b>Recessed lay-in acrylic lens</b>						
2 Tube 40 Watt	EA	\$ -	EA	76	EA	\$ -
4 Tube 40 Watt	EA	-	EA	95	EA	-
<b>Recessed hinge frame acrylic lens</b>						
2 Tube 40 Watt	EA	\$ -	EA	97	EA	\$ -
4 Tube 40 Watt	EA	-	EA	110	EA	-
<b>Recessed air handling lay-in acrylic lens</b>						
2 Tube 40 Watt	EA	\$ -	EA	\$ 140	EA	\$ -
4 Tube 40 Watt	EA	-	EA	210	EA	-
<b>Industrial turret type</b>						
1 Tube 40 Watt	EA	\$ -	EA	\$ 60	EA	\$ -
74 Watt	EA	-	EA	-	EA	100
2 Tube 40 Watt	EA	-	EA	89	EA	-
74 Watt	EA	-	EA	-	EA	130
High Bay VHO	EA	-	EA	190	EA	230
4 Tube 40 Watt	EA	-	EA	-	EA	170
<b>Note: add Wire guard</b>	1.2 m			EA		\$ 20.00
	2.4 m			EA		39.00
<b>add Metal louvre guard</b>	1.2 m			EA		33 00
	2.4 m			EA		65.00

**5.016.510 VAPOUR OR DUST TIGHT FLUORESCENT FIXTURES** interior or exterior

Surface mounted strip with extruded clear acrylic lamp enclosures	1200 mm		2400 mm		4800 mm	
	EA	\$	EA	\$	EA	\$
1 Tube 40 Watt	EA	\$ 130	EA	\$ -	EA	\$ -
105 Watt	EA	-	EA	160	EA	-
2 Tube 40 Watt	EA	180	EA	-	EA	-
105 Watt	EA	-	EA	240	EA	270
<b>Surface mounted moulded fibreglass unit</b>						
2 Tube 40 Watt	EA	\$ 170	EA	\$ -	EA	\$ -
<b>Recessed unit</b>						
2 Tube 40 Watt	EA	\$ 160	EA	\$ -	EA	\$ -
<b>Hinged frame unit</b>						
2 Tube 40 Watt	EA	\$ 170	EA	\$ -	EA	\$ -
3 Tube 40 Watt	EA	190	EA	-	EA	-
<b>Hinged frame explosion proof unit</b>						
2 Tube 40 Watt	EA	\$ 280	EA	\$ -	EA	\$ -
3 Tube 40 Watt	EA	290	EA	-	EA	-

**5.016.515 INCANDESCENT**

<b>Industrial types</b>	<b>1200 mm</b>		<b>2400 mm</b>		<b>4800 mm</b>	
RLM Dome 200 Watt	EA	\$ 40	EA	\$ -	EA	\$ -
500 Watt	EA	51	EA	-	EA	-
<b>Prismatic glass reflector</b>						
200 Watt	EA	\$ 50	EA	\$ -	EA	\$ -
500 Watt	EA	110	EA	-	EA	-
<b>Vapour tight ceiling mounted</b>						
60 Watt	EA	\$ 49	EA	\$ -	EA	\$ -
100 Watt	EA	63	EA	-	EA	-
200 Watt	EA	84	EA	-	EA	-
<b>Outdoor Vapour or dust tight</b>						
150 Watt	EA	\$ 100	EA	\$ -	EA	\$ -
200 Watt	EA	130	EA	-	EA	-
<b>Explosion proof ceiling mounted</b>						
150 Watt	EA	\$ 190	EA	\$ -	EA	\$ -
200 Watt	EA	230	EA	-	EA	-
<b>Commercial types</b>						
Glass enclosed 150 Watt	EA	\$ 59	EA	\$ -	EA	\$ -
Pot light 150 Watt	EA	88	EA	-	EA	-
Wash basin 60 Watt	EA	65	EA	-	EA	-
Wall washer 200 Watt	EA	100	EA	-	EA	-
<b>Exit Lights</b>						
Face type, wall or ceiling	EA	\$ 110	EA	\$ -	EA	\$ -
Surface mounted 25 Watt	EA	75	EA	-	EA	-
Recessed 25 Watt	EA	66	EA	-	EA	-

**5.016.520 MERCURY VAPOUR****Single 250 Watt**

Low Bay, open pot	EA	\$ 250
Recessed, open pot	EA	300

**Single 400 Watt**

Low Bay, open pot	EA	\$ 200
High Bay, open pot	EA	210
Recessed Exterior, square covered	EA	390
Recessed Interior, square covered	EA	460

**Double 400 Watt**

Low Bay, open pot	EA	\$ 460
High Bay, open pot	EA	490

**Single 1000 Watt**

High Bay, open pot	EA	\$ 310
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**Wall Fixtures**

175 Watt covered	EA	\$ 230
250 Watt covered	EA	260

**5.016.525 METAL HALIDE**

Single 400 Watt, open pot	EA	\$ 250
Single 1000 Watt, open pot	EA	400

**5.016.530 HIGH PRESSURE SODIUM (HPS)****Single 400 Watt**

High Bay, open pot	EA	\$ 340
Recessed Exterior, square covered	EA	560
Recessed Interior, square covered	EA	640

**5.019.000 SUGGESTED AGE LIFE TABLES****5.019.100 AUTOMOTIVE EQUIPMENT AND BULK OIL EQUIPMENT****20 YEAR LIFE**

Compressors  
Tire Inflators  
Tire Fitting Equipment  
Water Dispenser  
Lubrication Dispenser  
Vehicle Hoists  
Vehicle Wash Systems  
Vacuum Cleaner  
Paint Spray Booths

Pumps  
Truck Loaders  
Bottom Truck Unloaders  
Bulk Plant Meters  
Barrel Fillers  
Railway Tank Car Unloaders  
Steel Fill Stand  
Concrete Spill Slab

Gasoline Dispensers  
Submersible Pumps  
Self-Serve Remote Consoles  
Intercom  
Micro-Computer Controlled Fuel  
Dispenser System  
Solid State Modular Electronic Control  
Fuel Dispensing System  
Underground Tanks  
Waste Oil Tank  
Propane Fueling System Meter  
Propane Fueling System Dispenser

Propane Pumping Systems  
Anhydrous Ammonia Pumping Systems  
Propane/Anhydrous Ammonia Compressors  
Propane/Anhydrous Ammonia Meters  
Railway Tank Car Unloading Lines  
Aviation Equipment  
Hoists (other than vehicle hoists)  
Cranes

**35 YEAR LIFE**

Above Ground Tanks  
Piping  
Pump Manifolds  
Tank Manifolds  
Tank Catwalks  
Tank Farm Berms

Vehicle Propane Fueling System Tanks  
Outdoor Lighting  
Propane/Anhydrous Ammonia Tanks  
Steel Skids

**5.019.100A COMMUNICATION EQUIPMENT****35 YEAR LIFE**

Guyed Steel Tower

**5.019.200 SITE IMPROVEMENTS****20 YEAR LIFE**

Bituminous Paving  
Concrete Paving

**35 YEAR LIFE**

Industrial Fences  
Yard Lighting  
Guard Rails and Posts  
Parking Lot Plug-ins

**5.019.300 GRAIN BIN, FERTILIZER, CONCRETE & OILWELL CEMENTING EQUIPMENT****20 YEAR LIFE**

Fertilizer Blending Equipment  
Grain Bin Unloading & Aeration Equipment

Concrete Batching Equipment  
Oilwell Cementing Equipment



**5.019.400 RAILWAY EQUIPMENT**

**20 YEAR LIFE**

Tank Pumping Units

**35 YEAR LIFE**

Storage Tanks  
Loading Platforms  
Stock Yards

**5.020.000 HOTEL EQUIPMENT****5.020.050 TAVERN EQUIPMENT AND FIXTURES****5.020.060 SERVE BARS**

These units consist of a front wall section with a waiter and customer counter top, and a rear section with a bartender work counter and bottom storage cabinets. Incorporated into a serve bar may be such items as a glass washer, jockey station, water station, rinse sinks, glass cooler, liquor dispensers and beer tap boxes, which must be valued separately from the serve bar.

<b>Low Grade</b> , masonite panelling or painted wood	<b>per m</b>	<b>\$ 400</b>
<b>Fair</b> , finished plywood and formica	<b>per m</b>	<b>510</b>
<b>Average</b> , arborite and wood with stainless steel tops	<b>per m</b>	<b>660</b>
<b>Good</b> , padded vinyl, wood moulding or brass trim, good wood or stainless steel tops	<b>per m</b>	<b>840</b>
<b>Expensive</b> , oak, walnut, teak or glass panelling with marble, corian or glass counters	<b>per m</b>	<b>1 180</b>

**5.020.070 BEER TAP SYSTEMS**

<b>Single Zam</b> - 2 keg capacity, 1 tap, c/w air lines and refrigeration	<b>EA</b>	<b>\$ 3 300</b>
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<b>Double Zam</b> - 4 keg capacity, 2 taps, c/w air lines and refrigeration	<b>EA</b>	<b>\$ 3 900</b>
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**Direct Draw** - complete self-contained cabinet system

1 keg and 1 tap	<b>EA</b>	<b>\$ 1 400</b>
2 kegs and 2 taps	<b>EA</b>	<b>2 500</b>
<b>3</b> kegs and 3 taps	<b>EA</b>	<b>2 800</b>
4 kegs and 4 taps	<b>EA</b>	<b>3 050</b>
Additional, per keg and tap	<b>add EA</b>	<b>300</b>

**Cold Line or Cool Loop System** - complete system with refrigeration, air pressure pump, beverage lines, taps and cold air or glycol coil, 138 mm insulated flexible duct work

Single tap system	<b>EA</b>	<b>\$ 2 500</b>
Double tap system	<b>EA</b>	<b>2 800</b>
Additional taps	<b>add EA</b>	<b>500</b>

**5.020.080 GLASS WASHERS**

Costs include electrical, plumbing hook-ups and installation into serve bar.

<b>Rotary</b>	0.6 m diameter	<b>EA</b>	<b>\$ 3 400</b>
<b>in-Line</b>	0.9 m	<b>EA</b>	<b>4 730</b>
<b>In-Line</b>	1.2 m	<b>EA</b>	<b>5 400</b>
<b>In-Line</b>	1.8 m	<b>EA</b>	<b>5 670</b>
<b>In-Line</b>	2.1 m	<b>EA</b>	<b>5 940</b>
<b>in-Line</b>	2.4 m	<b>EA</b>	<b>6 070</b>

T-Bar - for any above "In-Line Washer" installed as a T-Bar installation		<b>add</b>	<b>450</b>
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**5.020.090 MISCELLANEOUS EQUIPMENT**

**Cooler Chests**, glass cooler and/or mug froster, installed

600 mm	<b>EA</b>	<b>1 500</b>
1 200 mm	<b>EA</b>	<b>1 970</b>

<b>Water Station</b> - 460 mm x 560 mm including glass fill, drip tray, waste sumps and bottom cabinet	<b>EA</b>	<b>860</b>
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**Jockey Stations** - including bottle inserts, ice sinks, fruit  
trays and bottom cabinets

1.07 m	<b>EA</b>	<b>\$ 1 170</b>
1.5 m including water fill station	<b>EA</b>	<b>2 050</b>

**Walk-in Coolers** - add as found (5.013.105)

**Compressors** - add as found (5.013.115)

**Bottle Service Doors** - Reach-in - add as found (5.013.140)

**Example - Beer Tavern Bar**

Good Class Bar - 6.1 m length		
Serve Bar - 6.1 m <i>qi</i> ) \$ 840		\$ 5 124
Direct Draw Beer Tap System - 4 taps		3 050
Glass Washer - 2.4 m in-line		6 070
Glass Cooler Chest - 1200 mm		1 970
Water Station		860
Jockey Station - 1.07 m		1 170
Sink Unit - double s.s. sink		240
	<b>Total System</b>	<b>\$ 18 484</b>

**5.020.100 COCKTAIL LOUNGE EQUIPMENT AND FIXTURES****5.020.110 FRONT SERVICE BARS**

These units are the same as the tavern serve bars

<b>Average</b>	<b>per m</b>	<b>\$ 660</b>
<b>Good</b>	<b>per m</b>	<b>840</b>
<b>Expensive</b>	<b>per m</b>	<b>1 180</b>

**Note:** Custom elbow and foot rails **add** as follows:

Padded elbow rail	<b>per m</b>	<b>\$ 125</b>
Wood moulded elbow rail	<b>per m</b>	<b>160</b>
Brass elbow rail	<b>per m</b>	<b>145</b>
Brass or wood foot rail	<b>per m</b>	<b>160</b>

**5.020.120 BAR SINKS**

Stainless steel, single compartment, 250 x 330 mm	<b>EA</b>	<b>\$ 150</b>
Stainless steel, single compartment, 400 x 450 mm	<b>EA</b>	<b>170</b>
Stainless steel, double compartment, 400 x 450 mm	<b>EA</b>	<b>240</b>

**Note:** For a complete cocktail lounge serve bar, items such as cooler chests, water stations and jockey stations must **be added** as found.

**5.020.130 COCKTAIL BACK BARS**

These are custom built units having three components - refrigerated storage cabinets, non-refrigerated storage cabinets, back wall liquor display and security doors.

**Storage Cabinets**

Refrigerated, including compressor	<b>per m</b>	<b>\$ 1 380</b>
Non-refrigerated	<b>per m</b>	<b>820</b>

**Liquor Display** including shelving, light fixtures and glass mirror or wood panelling

Average	<b>per m</b>	<b>\$ 830</b>
Good	<b>per m</b>	<b>1 350</b>
Expensive (stained glass or design panels)	<b>per m</b>	<b>1 930</b>

**Liquor Display Security Doors**

Folding or swinging shutters, metal or wood	<b>per m</b>	<b>\$ 415</b>
Roll down, metal or wood	<b>per m</b>	<b>700</b>
Sliding, concealed, wood	<b>per m</b>	<b>1 350</b>

**5.020.140 OVERHEAD GLASS RACKS**

Custom built, wood, slotted for stemware

<b>Average</b>	<b>per m</b>	<b>\$ 260</b>
<b>Good</b>	<b>per m</b>	<b>655</b>

**5.020.150 BAR CANOPIES**

Custom units, including electrical

<b>Average</b>	<b>per m</b>	<b>470</b>
<b>Good</b>	<b>per m</b>	<b>1 120</b>

**5.020.160 WINE CABINETS**

4 Bottle, refrigerated	<b>EA</b>	<b>1 470</b>
5 Bottle, non-refrigerated	<b>EA</b>	<b>1 010</b>
Combination - 2 compartment, 6 bottle refrigerated and 6 bottle non-refrigerated	<b>EA</b>	<b>3 500</b>
Bag and Box Cabinet, including 2 dispenser faucets	<b>EA</b>	<b>1 500</b>

**Example - Cocktail Lounge Bar**

All sizes assumed, good class rates

4.9 m front serve bar	@ \$ 840/m	\$ 4 116
4.9 m brass elbow rail	@ \$ 145/m	710
4.9 m brass foot rail	@ \$ 160/m	784
1 - double compartment sink		240
1 - direct draw beer tap system - 2 taps		2 500
1 - cooler chest for glasses - 1200 mm		1 970
1 - water station		860
2 - jockey stations 1.07 m	@ \$ 1 170 EA	2 340
		<u>Sub Total \$ 13 520</u>

**3.7 m Good Class Back Bar**

1.2 m refrigerated cabinet	@ \$ 1 380/m	\$ 1 656
2.4 m non-refrigerated cabinet	@ \$ 820/m	1 968
3.7 m liquor display	@ \$ 1 350/m	4 995
3.7 m security doors	@ \$ 415/m	1 535
1.2 m overhead glass rack	@ \$ 655/m	786
3.7 m canopy	@ \$ 1 120/m	4 144

Sub Total \$15 084

Total Lounge Bar \$28 604

**5.020.200 LIQUOR CONTROL SYSTEMS****5.020.210 ELECTRONIC LIQUOR DISPENSER SYSTEMS Flex Faucet System**

Consists of flex line, hand-held push button gun head dispenser, 6 preset portion controls, electronic modules, reserve bottle system and racks, manifolds, lines and drink tally counters.

24 bottle system	<b>EA</b>	<b>\$ 8 260</b>
36 bottle system	<b>EA</b>	<b>9 500</b>
48 bottle system	<b>EA</b>	<b>14 500</b>

**Multiple Dispenser Console**

Consists of a stainless steel console box, normally mounted under the serve bar counter, with glass pushed micro switches, pouring spouts, stainless steel lines and manifolds, reserve bottle racks and tally counters.

Base Console - can be expanded by adding up to 7 auxiliary consoles at different locations for pouring from 1 reservoir.

Brands - means different types of liquors. Base console has 4 brands and may be expanded by multiples of 2.

Bottles - minimum reservoir is 2 bottles per brand

- first expansion is a 4 bottle increase (from 2 to 6 bottles per brand)

- second and any further expansion is in multiples of 6 bottles per brand; i.e.

6 to 12, 12 to 18, etc.

**Base Systems** (first console with 2 bottles per brand reservoir)

4 brand - 8 bottles	<b>EA</b>	<b>\$ 5 810</b>
6 brand - 12 bottles	<b>EA</b>	<b>6 870</b>
8 brand - 16 bottles	<b>EA</b>	<b>9 000</b>
10 brand - 20 bottles	<b>EA</b>	<b>11 050</b>
12 brand - 24 bottles	<b>EA</b>	<b>13 120</b>

**Auxiliary Consoles** (extra console with no bottle reservoir)

4 brand	<b>add EA</b>	<b>\$ 3 040</b>
6 brand	<b>add EA</b>	<b>4 200</b>
8 brand	<b>add EA</b>	<b>5 400</b>
10 brand	<b>add EA</b>	<b>6 570</b>
12 brand	<b>add EA</b>	<b>7 680</b>

**5.020.200 LIQUOR CONTROL SYSTEMS CONT'D****Bottle Reservoirs**

2 bottles for each brand is included in base system costs

First expansion - from 2 to 6 bottles	<b>add per brand</b>	<b>EA</b>	<b>\$ 340</b>
Additional expansions - multiple of 6 bottles	<b>add per brand</b>	<b>EA</b>	<b>440</b>

**Key or Card Reader Stations**

Before a console station and manifold will pour it must be activated by a waiter's card and the number and type of drinks key punched in.

6 key station - up to 6 waiters	<b>EA</b>	<b>\$ 3 100</b>
12 key station - up to 12 waiters	<b>EA</b>	<b>5 600</b>

**Note:** The above dispenser rates are not applicable to the computerized dispenser systems.

**Example - Multiple Dispenser System**

Base system - 6 brand, (1 rye, 1 gin, 1 scotch, 1 vodka,

1 light rum, 1 dark rum), 12 bottles		\$ 6 870
Auxiliary consoles - 2 x 6 brand @ 4 175		8 400
Bottle reservoir - has 18 bottles per brand, 108 bottles in total		
1st expansion 2 to 6 = 6 brands @ \$ 340		\$ 2 040
2nd expansion 6 to 12 = 6 brands @ \$ 440		2 040
3rd expansion 12 to 18 = 6 brands @ 440		2 040

Total System \$ 22 590

**5.020.220 COMPUTERIZED DISPENSER SYSTEMS**

These systems contain custom designed units, each fully automated and computer controlled. Each performs a specific function and contains features such as serve bars, sink stations, glass washers, cabinets, etc. Integration of these units completely replaces the standard hotel tavern serve bar, bartenders, jockey stations, water stations, tap box, cash registers, etc. Dispensing is activated by I.D. insert card and key punch computer terminal heads.

**Note:** Cocktail lounge bars, back bars, canopies, etc. that are not part of the computerized system must be **added** as found.

**Draft Beer Dispenser**

Includes glass washer and primary key punch station

EA \$ 54 000

**Bottled Beer and Juice Dispenser**

Includes refrigeration, glass washer and primary key punch station

EA \$ 49 100

**Liquor and Mix Dispensers**

Includes refrigeration, lines and primary key punch station

8 brands, 36 bottle reservoir

EA \$ 27 250

16 brands, 100 bottle reservoir

EA \$ 32 750

**Liquor Reserve Storage Cabinet**

Includes manifolds, lines and electronic counters, remote installation, in addition to primary bottle reservoir on dispenser

EA \$ 16 350

**Shooter Bar Dispenser**

Contains electronic controls and primary key punch station, automatically layers liquor

EA \$ 16 400

**Satellite Station**

Additional I.D. card and key punch station for manager or waiter stations, over and above primary station on dispenser unit

EA \$ 6 500



**5.020.220 COMPUTERIZED DISPENSER SYSTEMS CONT'D****Example - Computerized Dispenser System**

All sizes assumed

1 draft beer dispenser unit		\$ 54 000
1 bottled beer and juice dispenser unit		49 100
1 liquor and mix dispenser unit - 8 brand, 36 bottle		27 250
1 liquor reserve storage unit		16 350
1 shooter bar dispenser unit		16 400
glass washer		included
1 satellite waiter key punch station		6 500
1 satellite manager key punch station		6 500
		<hr/>
	Computerized System Sub Total	\$ 176 100

**Add: 3.7 m Good Lounge Back Bar**

1.2 m refrigerated cabinet	@ \$ 1 380/m	\$ 1 656
2.4 m non-refrigerated cabinet	@, 820/m	1 968
3.7 m good liquor display	@ 1 350/m	4 995
3.7 m security doors, wood	@ 700/m	2 590
1.2 m overhead glass rack	@ 655/m	786
3.7 m canopy	@ 1 200/m	4 144
		<hr/>
	Back Bar Sub Total	\$ 16 139
	Total System	\$ 192 239

**5.030.000 SUPERMARKET EQUIPMENT****5.030.050 DISPLAY CASES****5.030.055 MEAT DISPLAY CASES**

Service Type Fresh Meat	<b>Constant</b>	<b>\$ 4 700</b>
	<b>Add per m</b>	<b>1 600</b>
Single Deck Self Serve	<b>Constant</b>	<b>\$ 1 900</b>
	<b>Add per m</b>	<b>1 550</b>
Multi-Deck Self Serve	<b>Constant</b>	<b>\$ 4 000</b>
	<b>Add perm</b>	<b>2150</b>
Delicatessen & Pastry	<b>Constant</b>	<b>\$ 2 700</b>
	<b>Add per m</b>	<b>1 850</b>

**5.030.060 PRODUCE DISPLAY CASES**

Single Deck Non-Refrigerated	<b>Constant</b>	<b>\$ 600</b>
	<b>Add per m</b>	<b>960</b>
Multi Deck Non-Refrigerated	<b>Constant</b>	<b>\$ 900</b>
	<b>Add per m</b>	<b>1 050</b>
Single Deck Refrigerated	<b>Constant</b>	<b>\$ 4 400</b>
	<b>Add per m</b>	<b>1 550</b>
Multi-Deck Refrigerated	<b>Constant</b>	<b>\$ 4 500</b>
	<b>Add per m</b>	<b>1 750</b>

**5.030.065 PRODUCE ISLES**

Display 2 Sides Non-Refrigerated	<b>Constant</b>	<b>\$ 1 900</b>
	<b>Add per m</b>	<b>1 250</b>
Display 2 Sides Refrigerated	<b>Constant</b>	<b>\$ 7 800</b>
	<b>Add per m</b>	<b>1 350</b>

**5.030.070 DAIRY DISPLAY CASES**

Four Deck Case	<b>Constant</b>	<b>\$ 5 100</b>
	<b>Add per m</b>	<b>1 900</b>
Five Deck Case	<b>Constant</b>	<b>\$ 5 700</b>
	<b>Add per m</b>	<b>2 200</b>

**5.030.080 FROZEN FOOD DISPLAY CASES**

Single Deck Frozen Food & Ice Cream	<b>Constant</b>	<b>\$ 5 100</b>
	<b>Add per m</b>	<b>1 850</b>
Multi-Deck Frozen Food & Ice Cream	<b>Constant</b>	<b>\$ 5 900</b>
	<b>Add per m</b>	<b>3 600</b>
Vertical Frozen Food & Ice Cream Glass Door Freezer	<b>Constant</b>	<b>\$ 2 900</b>
	<b>Add per m</b>	<b>3 250</b>

**5.030.085 REACH-IN REFRIGERATED FOODS DISPLAY CASES**

Reach-In Refrigerated	<b>Constant</b>	<b>\$ 2 900</b>
	<b>Add per m</b>	<b>2 050</b>

**Note:** All refrigerated display case rates include necessary condensing equipment

**5.049.000 SECURITY EQUIPMENT**

**VAULTS, Security** - The logical construction of a vault is equal strengths of all components. No safety is gained by placing a heavy expensive door in a weak vault structure, and nothing is gained by constructing a heavy vault and placing therein a light door unless it is known that at some future date a heavier door is to be installed.

Vault classification, as established by the company insuring the contents, matches the door to the construction of the vault. The factors used to determine classification are the "effective thickness of door in mm", the thickness of concrete in mm, the weight of reinforcing steel in kg per square meters of actual wall, ceiling and floor area.

The following chart indicates classification characteristics.

<b>Class Number</b>	<b>Door</b>	<b>Concrete</b>	<b>Reinforcing</b>
No. 5	89 mm	300 mm	64 kg per m <sup>2</sup>
No. 6	89 mm	460 mm	93 kg per m <sup>2</sup>
No. 7	140 mm	460 mm	93 kg per m <sup>2</sup>
No. 8	152 mm	460 mm	93 kg per m <sup>2</sup>
No. 9	178 mm	460 mm	93 kg per m <sup>2</sup>
No. 10	254 mm	460 mm	181 kg per m <sup>2</sup>

The typical exterior width of security vaults is 3.4 m. When the span exceeds this limit additional reinforcing for structural purposes is required.

No particular limit is placed on the length of vaults. Long vaults are sometimes found divided into two end to end or side by side vaults with a common security wall.

**5.049.050 SECURITY VAULTS****COMPONENT DESCRIPTION**

- Concrete Footings** - adequate reinforced spread footings
- Foundation Walls** - adequate reinforced concrete
- Base Floor Construction** - heavy reinforced concrete slab
- Base Wall Construction** - heavy reinforced concrete
- Exterior Wall Finish** - gypsum wallboard and paint
- Base Roof Construction** - heavy reinforced concrete
- Interior Wall Finish** - plaster and paint
- Ceiling Finish** - plaster and paint
- Floor Finish** - good tile
- Electrical Basic** - good wiring
- Electrical Fixtures** - good lighting

**5.049.050 SECURITY VAULTS CONT'D****BASE RATES (in dollars)**

Single Vaults	0-19 m <sup>2</sup>		20 m <sup>2</sup> & over	
	K	AR	K	AR
Class 5	4 100	540	5 850	445
Class 6 to 9	5 750	715	8 150	588
Class 10	7 800	1 022	11 050	848
Two Storey Vaults	0-19 m <sup>2</sup>		20 m <sup>2</sup> & over	
	K	AR	K	AR
Class 5	7 200	966	10 800	772
Class 6 to 9	10 100	1 270	17 950	848
Class 10	14 200	1 804	20 950	1 441

**INSTALLATION RATES****Foundations, Reinforced Footings, Excavation**

	0-19 m <sup>2</sup>		20 m <sup>2</sup> & over	
	K	AR	K	AR
Class 5	\$ 300	\$ 20.00	\$ 400	\$ 13.00
Class 6, 9 & 10	350	24.00	500	16.00

**Plaster**, lining and ceiling, per m<sup>2</sup> of surface area                      m<sup>2</sup>    \$ 22.50

**Paint**, interior walls and ceiling, per m<sup>2</sup> of surface area                      m<sup>2</sup>    \$ 5.10

Walls, concrete including reinforcement

Class 5	m <sup>2</sup>	\$ 128.00
Class 6 to 9	m <sup>2</sup>	164.00
Class 10	m <sup>2</sup>	243.00

**Floor Finishes**, tile    m<sup>2</sup>    \$ 34.50

**Vent Piping**, galvanized pipe

Single	included
Two Storey	included

**UNIT COST ADJUSTMENTS**

Vault Doors	add as found
Day Gates	add as found
Ventilators	add as found
Alarm Systems	add as found

**5.049.060 STORAGE VAULTS****COMPONENT DESCRIPTION**

**Concrete Footings** - adequate reinforced spread footings  
**Foundation Walls** - adequate reinforced concrete  
**Base Floor Construction** - adequate reinforced concrete slab  
**Base Wall Construction** - heavy reinforced concrete  
**Exterior Wall Finish** - gypsum wallboard and paint  
**Base Roof Construction** - heavy reinforced concrete  
**Interior Wall Finish** - plaster and paint  
**Ceiling Finish** - plaster and paint  
**Floor Finish** - good tile  
**Electrical Basic** - good wiring  
**Electrical Fixtures** - good lighting

BASE RATES (in dollars	0-19 m <sup>2</sup>		20 m <sup>2</sup> & over	
	K	AR	K	AR
Single Storage Vault	2 350	370	4 500	254
Vault Under Security Vault	2 400	228	3 500	169

**INSTALLATION RATES**

<b>Plaster</b> , lining and ceiling, per m <sup>2</sup> of surface area	m2	\$ 22.50
<b>Paint</b> , interior walls and ceiling, per m <sup>2</sup> of surface area	m2	\$ 5.10
<b>Walls</b> , concrete including reinforcement per m <sup>2</sup> of surface area	m2	\$ 90.50
<b>Floor Finishes</b> , tile	m2	\$ 23.50
<b>Vent Piping</b> , galvanized pipe		
Single	included	
Under	included	

**UNIT COST ADJUSTMENTS**

Storage Vault Doors	add as found
Ventilators	add as found
Alarm Systems	add as found

**5.049.070 UNITIZED VAULTS**

Construction is of factory built heavy precast interlocking concrete panel sections for walls and roof and pre-cut primed steel plate floor sections.

Base Rates are for a basic vault "starter package" with an interior dimension of 1.9 m in length.

Add-on Module Rates must be combined with Base Rates to produce total cost and total length of a vault.

**COMPONENT DESCRIPTION**

**Substructure** - adequate reinforced concrete slab

**Base Floor Construction** - 25 mm primed steel plate

**Base Wall Construction** - 125 mm and 330 mm precast concrete panels

**Exterior Wall Finish** - paint

**Base Roof Construction** - 125 mm precast concrete panels

**Interior Wall Finish** - gypsum wallboard and paint

**Ceiling Finish** - gypsum wallboard and paint

**Electrical Basic** - good wiring

**Electrical Fixtures** - good lighting

**BASE RATES (in dollars)**

Basic Vault, 1.9 m long		<b>\$ 21 400</b>
Add-on Module, 1.0 m long	<b>add EA</b>	<b>\$ 5 700</b>

**UNIT COST ADJUSTMENTS**

Vault door and accessories	<b>add</b> as found	
Floor Finish	<b>add</b> as found	
Alarm System	<b>add</b> as found	
Ventilator - wall mounted	<b>add EA</b>	<b>\$ 1 180</b>

**5.049.080 INSTA VAULTS**

These vaults are similar to unitized vaults. Insta vaults are designed to replace a normal concrete vault of Class 6 or 9.

Panels are constructed of steel plate with high density steel fibre reinforced concrete bonded to one side. The steel surface is the interior vault surface.

Base Rates are for a basic vault "starter package" with an interior length of 1.9 m. Packages come with or without a steel panel floor. Floor panels are not required where 450 mm heavy reinforced concrete slabs are provided in a building.

Add-on Module Rates must be combined with Base Rates to produce total cost and total length of a vault.

**COMPONENT DESCRIPTION**

**Substructure** - adequate reinforced concrete slab  
**Base Floor Construction** - bonded reinforced concrete and steel plate  
**Base Wall Construction** - bonded reinforced concrete and steel plate  
**Exterior Wall Finish** - gypsum wallboard and paint  
**Base Roof Construction** - bonded reinforced concrete and steel plate  
**Interior Wall Finish** - gypsum wallboard and paint  
**Ceiling Finish** - gypsum wallboard and paint  
**Electrical Basic** - good wiring  
**Electrical Fixtures** - good lighting

**BASE RATES**

Basic Vault, with steel floor, 1.9 m long			<b>\$19 350</b>
Basic Vault without steel floor, 1.9 m long			<b>16 450</b>
Add-on Module, with steel floor, 1.0 m long	<b>add EA</b>	<b>5 400</b>	
Add-on Module, without steel floor, 1.0 m long	<b>add EA</b>	<b>4 100</b>	

**UNIT COST ADJUSTMENTS**

Vault door and accessories	<b>add as found</b>		
Floor Finish	<b>add as found</b>		
Alarm System	<b>add as found</b>		
Ventilator - wall mounted	<b>add EA</b>	<b>1 180</b>	



**5.049.090 MINIVAULT**

This is a "reach-in" steel vault and comes as a complete package with painted steel finish, 89 mm steel vault door and installation. Door opening is 0.9 m x 1.98 m.

Exterior size 2.15 m high x 1.23 m wide x 0.98 m deep	<b>EA</b>	<b>\$ 14 500</b>
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**UNIT COST ADJUSTMENTS**

Time Lock - 2 movement	<b>add</b>	<b>470</b>
Alarm System	<b>add</b>	<b>1 500</b>

**5.049.100 MONEY SAFES**

The following safe costs include a steel reinforced concrete mounting block. Safes may be mounted inside or on top of the block pedestal. The block may be located above or below the floor level.

**Fair Quality Safe**

Used in service stations, corner stores, small restaurants

**Small Size - In-Floor**

133 mm circular lift out door	<b>EA</b>	<b>950</b>
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**Medium Size - Above Floor**

190 mm circular front swinging door	<b>EA</b>	<b>1 390</b>
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**Average Quality Safe - Class 2 Label**

Used in medium sized grocery stores, hardware and drug stores. Walls are 114 mm thick, steel clad, steel shelves and may have alarm wiring.

Small - 775 x 775 x 700 mm	<b>EA</b>	<b>2 800</b>
Medium - 925 x 875 x 700 mm	<b>LA</b>	<b>3 450</b>
Large - 1 092 x 1 092 x 700 mm	<b>EA</b>	<b>4 700</b>

**Good Quality Safe - Class 1 Label**

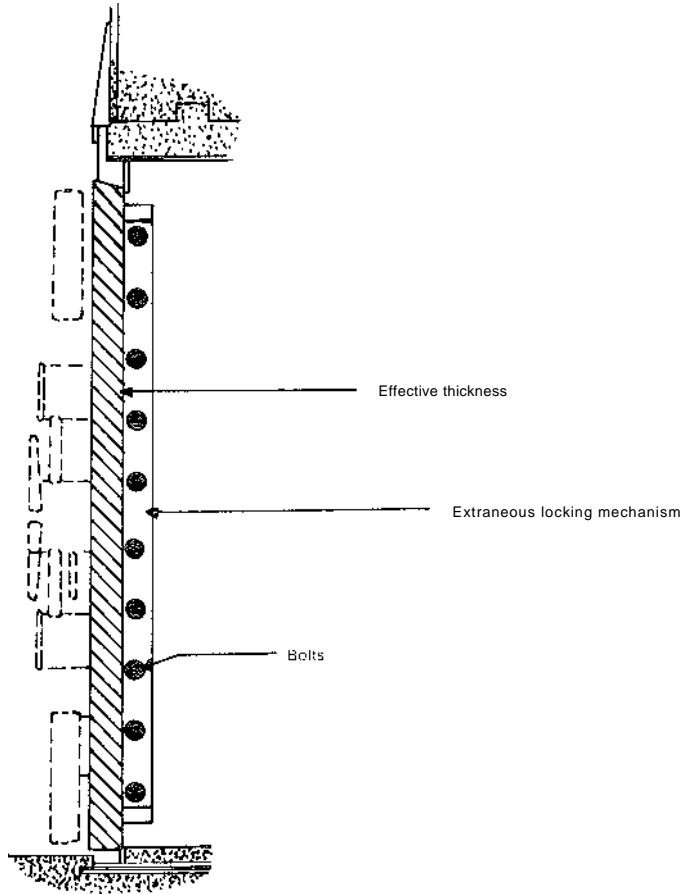
Safe with enamel and stainless steel finish, 147 mm thick walls, 216 mm thick door with step frame, full shelving, dual locks and alarm protection. In use at large grocery stores, jewelry stores and small credit unions, etc.

Small Size - 559 x 508 x 508 mm	<b>EA</b>	<b>\$ 4 950</b>
Medium Size - 1 168 x 508 x 517 mm	<b>EA</b>	<b>6 300</b>
Large Size - 1 625 x 508 x 517 mm	<b>EA</b>	<b>7 750</b>

**5.049.110 SECURITY DOORS - GENERAL INFORMATION**

Some of the items considered when establishing rates for security vault doors are freight, crating, loading at the source; installation which would include cartage, uncrating, positioning, grouting, shoring; federal sales tax applicable; finish and effective thickness. The "effective thickness" is that portion of the door which is of solid construction and does not include the thickness of the extraneous locking mechanism.

Storage vault doors are rated as to their degree of fire resistance. The extent of resistance in hours will be found on the underwriters' laboratory label carried on all models.



TYPICAL VAULT DOOR

**5.049.110 VAULT DOORS**

Security vault door costs include framework, door, anchors, locking devices, hardware, wiring and installation.

**89 mm**

fair - painted 800 x 1 950 mm	EA \$	7 070
average - painted 800 x 1 950 mm	EA	8 220
good - painted with stainless steel trim 800 x 1 950 mm	EA	9 950
expensive - stainless steel 900 x 1 950 mm	EA	11 350

**140 mm**

average - painted	EA	\$ 8 660
good - painted with stainless steel trim	EA	10 640
expensive - stainless steel	EA	13 310

**178 mm**

good - painted with stainless steel trim	EA	\$ 12 610
expensive - stainless steel	EA	14 300

**254 mm**

good - painted with stainless steel trim	EA	\$ 14 780
expensive - stainless steel	EA	16 660

**Circular Vault Doors**

203 mm	EA	\$ 28 100
254 mm	EA	31 200
305 mm	EA	35 700

**Day Gates**

	89 & 140 mm Vault Doors		178 & 254 mm Vault Doors	
Painted	EA	\$ 580	EA	\$ 700
Aluminum and Acrylic	EA	750	EA	770
Stainless Steel	EA	1 100	EA	2 350

**Time Locks**

2 movement	EA \$	470
3 movement	EA	800

**5.049.120 STORAGE VAULT DOORS**

A storage vault door is an insulated painted steel plate door normally with a ULC fire rated label. Costs include steel framework, door, anchors, locking devices, hardware and installation. Unlabelled doors usually have one continuous hinge while labelled doors have 3 heavy hinges.

	Main Floor Vault		Basement/ Upper Vault	
1 Hour Rated - unlabelled	EA	\$ 1 480	EA	\$ 1 600
2 Hour Rated - unlabelled	EA	1 850	EA	2 000
2 Hour Rated - labelled	EA	2 580	EA	2 730
4 Hour Rated - labelled	EA	2 880	EA	3 030
6 Hour Rated - labelled	EA	3 250	EA	4 240

**5.049.130 VAULT EMERGENCY VENTILATORS**

**Wall Mounted**, manual activated EA \$ 1 180

**Automatic Security Air Damper** - installed on heat supply duct and return air ducting, complete with alarm contact, fire detector. automatic closing and indicator lights EA \$ 10 450

**Note:** Normally there are 2 Security

Air Damper systems per vault.

**5.049.140 NIGHT DEPOSITORIES**

Costs are determined by 3 major criteria:

- size of interior receiving safe
  - standard safe 1 400 mm H x 775 mm W x 825 mm D
  - jumbo safe 1 525 mm H x 875 mm W x 825 mm D
- location of receiving safe
  - main floor or basement
- type of wall construction for head installation
  - masonry or framed wall
  - glass or metal panelled wall

	Standard Safe		Jumbo Safe	
Ground floor - masonry wall	EA	\$ 7 890	EA	\$ 9 000
Ground floor - glass/panel wall	EA	8 390	EA	9 500
Basement floor - masonry wall	EA	\$ 10 750	EA	\$ 11 860
Basement floor - glass/panel wall	EA	11 250	EA	12 360

**Note:** add alarm system costs to the above for total depository costs.

**5.049.150 CLEARING SAFES**

These are also termed as a courier and/or receipt clearing box. Costs include telescopic steel wall sleeve, stainless steel key-lock door with fascia and installation.

Standard Size, 375 to 400 mm high	EA	\$ 1 250
Large Size, 500 to 610 mm high	EA	1 650

**5.049.160 SAFETY DEPOSIT BOXES**

Complete with iron base and stand, boxes are 600 mm standard depth.

Opening Size	Rate Per		Opening	
	Enamelled Steel		Stainless Steel	
38 x 125 mm	EA	\$ 36	EA	\$ 49
64 x 125 mm	EA	43	EA	57
83 x 125 mm	EA	53	EA	72
125 x 125 mm	EA	60	EA	82
64 x 250 mm	EA	67	EA	91
125 x 250 mm	EA	106	EA	146
250 x 250 mm	EA	148	EA	205

**5.049.170 TELLERS LOCKERS**

Interior vault steel teller compartments with double combination locks, base and installation. Units come in 1 to 5 compartment basic units. Combinations and stacking will indicate total number of compartments.

1 Compartment	EA	\$ 760
2 Compartment	EA	1 010
3 Compartment	EA	1 490
4 Compartment	EA	1 720
5 Compartment	EA	2 220

**5.049.175 TELLERS WINDOWS**

These are walk-up or drive-up windows located in the side wall of a **bank**. Costs include steel framework, stainless steel and enamel finish, slide out transaction tray, radio intercom station, microphones, lights, bullet proof glass window, trim, alarm system and installation.

Single Teller Unit	EA	\$ 12 000
Double Teller Unit	EA	18 000
Triple Teller Unit	EA	24 000

**5.049.180 AUTOMATIC TELLER MACHINES**

An ATM is a programmable multiple transaction computerized banking machine handling functions such as cash withdrawals, deposits, bill payments, receipts and statements.

Costs include basic machine and enclosure, currency dispensers, deposit vault, printer, screen, keyboard, computer, integrated modems, interface cable, dedicated digital communication loops and lines, hard wired conduit electrical circuit, security system, alarm system integrated with bank system, weather shields, stainless steel trim and logo panels, hook-ups and installation.

Lobby Terminal - interior vestibule partition wall mounted	<b>EA</b>	<b>\$ 39 900</b>
Wall Terminal - exterior bank wall mounted	<b>EA</b>	<b>48 400</b>

**Note:** Additions must be made for costs of "lock-up rooms" and security doors enclosing ATM vaults and machines.

**Drive-Up Kiosk Island Terminal**

Includes steel panelled security kiosk, access door, lighting, heat, ventilation, air conditioning, shutters, weather shields, and automated lane closure panel. Controller modems and security alarm systems are included.

Basic Island Terminal and Kiosk	<b>EA</b>	<b>\$ 69 600</b>
Security Camera and VCR Unit	add	<b>EA \$ 5 100</b>
Concrete Islands, per m <sup>2</sup>	add	<b>97</b>
Concrete Driveway Aprons, per m <sup>2</sup>	add	<b>40</b>
Steel Bumper Posts	add	<b>EA 100</b>

**5.049.190 AUTOMATIC CASH MACHINES**

A cash machine has only one function of dispensing or withdrawing cash from a bank account. Costs include basic machine, trim and logo cabinet panels, hard wired electrical conduit circuit, modem, interface cable, dedicated digital loops and lines, and installations. Cash machines may be found in various locations such as stores, office buildings, terminals, etc.

Basic Terminal	<b>EA</b>	<b>\$ 32 500</b>
Security Alarm - store system integrated	<b>add</b>	<b>EA \$ 1 500</b>
Security Camera and VCR unit	<b>add</b>	<b>EA 5 100</b>

**5.049.200 SECURITY AND ALARM SYSTEMS**

A security alarm system will normally contain some or all of the following components depending on what the system is designed to protect.

Components consist of circuit control unit, zone annunciator, visual indicator panel, vault door alarm switch, circuit test panel, verify panel, central monitoring controls, contact sensors, heat sensors, audio detectors, vibration detectors, exterior alarms and hold-up buttons.

Other costs include conduit, wiring, installation, programming and testing.

**Bank Vault Systems**

village or small town	EA	\$ 4 700
medium town to small city	EA	3 550
large city	EA	4 600

**Night Depository Systems**

village to medium town	EA	\$ 470
large town to city	EA	1 380

**Money Safe Systems**

EA	\$ 1 500
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**Storage Vault Systems**

jewelry, fur vaults or other valuables		
city location	EA	\$ 1 890
other location	EA	2 200
record storage vaults, non-valuables	EA	300

**5.049.210 TELEVISION MONITORING SYSTEMS**

Commonly called a CCTV or Closed Circuit Television System. A basic system includes 4 cameras, wall or ceiling mounts, 2 monitors, switcher unit, VCR unit, cable and installation.

<b>Average Bank</b> , basic system	EA	\$ 12 500
Cameras, more or less than a basic system	<b>add or deduct</b>	EA \$ 2 000

**5.049.450 BUILDING SECURITY****Magnetic Card Door Access Systems****Single Access System**

An electronic locking system used for a single door operation and provides limited access for situations such as computer rooms, laboratories, apartment building front doors, etc.

Components include a card reader or a combination code lock station, electric door strike, power transformer and installation.

Total Cost, per door	<b>EA</b>	<b>\$ 3 300</b>
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**Multiple Access System**

card control or combination code lock access for any number of doors through a central electronic controller

a remote computerized programmer which can control hours of operation and access to various areas

records information on time of entry and departure of personnel who have entered or left an area or building

control of multiple card reader or combination code lock stations

optional information print-out

**Electronic Central Controller and Remote Programmer**

Base Rate: 1-4 door capacity	<b>EA</b>	<b>\$ 3 300</b>
over 4 door capacity	<b>EA</b>	<b>6 100</b>

Card Reader or Combination Code Lock Station	<b>add</b>	<b>EA</b>	<b>\$ 900</b>
Printer	<b>add</b>	<b>EA</b>	<b>1 500</b>



**5.052.000 FERTILIZER BLENDER EQUIPMENT****5.052.050 PADDLE BLENDERS (Boby or Irican)**

Horizontal drum and paddle type with electrical chain drive and controls.

**Interior Installation**

1.8 - 2.7 tonnes

Elevator type - overhead	EA	\$ 13 500
Elevator or Warehouse - main floor	EA	18 800
Converted Grain Elevator	EA	18 800

**Exterior Installation**

Costs include 4.3 x 5.5 m reinforced concrete slab on grade, spouting, slide gates, load out conveyor, built-in scale and digital read-out. Installed at elevator type or warehouse locations.

1.8 - 2.7 tonnes	EA	\$ 27 550
3.6 - 5.4 tonnes	EA	33 250

Concrete Slab variation **add or deduct per m<sup>2</sup> \$ 19.50**

**5.052.060 CEMENT MIXER TYPE BLENDERS (Speed King or Doyle)**

Costs include a 3.0 m x 10.4 m reinforced concrete slab on grade, spouting, slide gates, hopper scale, bottom conveyor, blender, load-out conveyor and electrical controls.

Capacity	Dial Scale		Digital Scale	
3.6 - 4.5 tonnes	EA	\$ 38 000	EA	\$ 40 350
7.3 tonnes	EA	42 750	EA	45 100

Concrete Slab variation **add or deduct per m<sup>2</sup> \$ 19.50**

**5.052.070 WEED SPRAY ADDITIVE UNIT**

Costs include a 315 litre tank, concrete base and supports, pump, meter, piping, valves, electrical controls and hook-ups. These units may be found with any of the above blender systems.

**add EA \$ 4 750**

**5.052.080 MULTI-BIN SCREW BLENDER (Ranco)**

This is a full mechanical system for unloading, storing, blending and loading fertilizer at a bulk warehouse facility.

The standard blender has 4 open top compartments aligned horizontally, bottom screw blender auger discharge, and electronic control center for presetting ratios and weights for mixing on a continuous flow basis. Capacity of the blender is 9,1 to 10.9 tonnes.

Operation of this system is by one man and payloader with a plant blending output of 63.5 to 100 tonnes per hour.

**Standard Plant System** **\$ 72 600**

**INSTALLATIONS**

A basic blending plant includes the following:

<b>Blender</b> - 4 compartment, electric drive and electronic control centre	<b>EA</b>	<b>\$ 31 800</b>
<b>Load-in Leg</b> - 11.6 m fibreglass and stainless steel leg with distributor, spouting, head drive and electrical	<b>EA</b>	<b>15 600</b>
<b>Load-out Leg</b> - 8.5 m leg, spouting, head drive and electrical	<b>EA</b>	<b>12 800</b>
<b>Over-bin Conveyor</b> - 16.8 m belt conveyor, discharge tripper, drive motor and electrical	<b>EA</b>	<b>12 400</b>
<b>Head Drives</b> - 5.6 to 7.5 kW motors and electrical system		<b>Included above</b>

**PRECALCULATED ADJUSTMENTS****Blender Bins**

more or less than standard 4

**Chemical Additive Bin****Weed Spray Unit**

add or deduct EA **\$ 5 100**

**Overbin Belt Conveyor**

add EA **\$ 2 740**

more or less than 16.8 length

add EA **\$ 3 800**

**Legs - Load-in**

more or less than 11.6 m high

add or deduct per m **360**

**Legs - Load-out**

more or less than 8.5 m high

add or deduct per m **840**

**Twin Screw Car Unloader**

**Transfer Belt Conveyor**, 10.7 m length

add or deduct per m **\$ 840**

**Transfer Belt Conveyor**, 6.1 m length

add EA **\$ 2 750**

add EA **\$ 8 700**

add EA **\$ 4 750**

**Note:** add as found for concrete piles, footings, foundations and slabs.

add as found for scales and pits to the preceding plant costs.

Car Unloaders and Transfer Conveyors may be portable and may not be liable to assessment.

**5.052.100 HOPPER BIN ELECTRONIC BLENDING PLANT**

This is a complete automated continuous flow bulk fertilizer plant facility with an integrated system of storage bins, where all functions including unloading, storing, blending, weighing and loading of fertilizer are electronically controlled.

A typical plant consists of a series of aligned welded hopper bottomed epoxy lined steel bins, a concrete receiving pit with drag conveyor, bottom screw tube blender conveyor with metering gates, bucket elevator leg and spouting, top in-load conveyor and gates, elevated surge bin and digital shipping scale with shed cover, wiring, electronic controls and control room shed.

Plant blending capacity is 54 to 100 tonnes per hour.

<b>Basic 5 Bin Plant Equipment System</b>	<b>EA</b>	<b>\$123 000</b>
<b>Hopper Bottom Welded Steel Bins</b>		
62 tonnes	<b>add EA \$</b>	<b>4 900</b>
88 tonnes	<b>add EA</b>	<b>6 000</b>
116 tonnes	<b>add EA</b>	<b>7 100</b>
132 tonnes	<b>add EA</b>	<b>7 800</b>

**Note: Bin** Costs must be added and combined with Equipment System Costs to arrive at a complete Blending Plant Cost.

**INSTALLATIONS**

A basic 5 bin plant equipment system includes the following components:

<b>Foundations</b> - reinforced concrete pilings, slabs and sitework required for 5 bins	<b>\$ 11 500</b>
<b>Receiving Pit and Inload Conveyor</b> - reinforced concrete pit with conveyor, electric drive, wiring and controls	<b>\$ 10 240</b>
<b>Bucket Elevator Leg</b> -11.6 m high, complete with spouting, distributor valves, 5.6 kW electric drive, controls and foundation	<b>\$ 20 200</b>
<b>Top Distribution Conveyor</b> - 25.0 m long, complete with catwalk, access panels, micro switch discharge load-in gates, electric drive, wiring and controls	<b>\$ 17 400</b>
<b>Metering Screw Augers</b> - 5, complete with 5 surge hoppers, 5 variable speed controllers, 5 electric drives, wiring and controls	<b>\$ 19 000</b>
<b>Spouts</b> - top conveyor recirculation spout and under scale inventory control spout	<b>\$ 2 900</b>
<b>Bottom Blender and Reclaim Conveyor</b> - 24.4 m long, screw tube auger type, complete with electric drive, wiring and controls	<b>\$ 21 000</b>
<b>Hopper Scale</b> - 5 tonne capacity, complete with surge bin, shed cover, elevated on steel columns, reinforced concrete piling foundation, load cells and digital automatic electronic indicator system	<b>\$ 17 260</b>
<b>Electric and Control Room Shed</b> - complete with foundations and slab floor	<b>\$ 3 500</b>

**5.052.100 HOPPER BIN ELECTRONIC BLENDING PLANT - CONT'D****PRECALCULATED ADJUSTMENTS**

<b>Dual Purpose Loading Leg</b> more or less than 11.6 m high	<b>add or deduct per m</b>	<b>\$ 550</b>
<b>Bottom Conveyor/Blender</b> more or less than 24.4 m length	<b>add or deduct per m</b>	<b>530</b>
<b>Top Conveyor</b> more or less than 25.0 m length	<b>add or deduct per m</b>	<b>470</b>
<b>Micro-Nutrient Additive Bin</b> 227 kg capacity	<b>add EA</b>	<b>\$ 3 200</b>
<b>Liquid Impregnation Pump</b> for liquid chemical injection	<b>add EA</b>	<b>\$ 2 800</b>
add for liquid holding tanks as found		

**Plant Equipment System Expansion or Reduction Adjustment**

Where a plant-site size consists of less than or more than a standard 5 bin installation, the following adjustments are required per bin:

Bin foundation	<b>add or deduct per bin add</b>	<b>\$ 2 300</b>
Bottom blender and reclaim conveyor	<b>or deduct per bin add or</b>	<b>\$ 2 750</b>
Top distribution conveyor	<b>deduct per bin add or</b>	<b>\$ 2 440</b>
Top micro switch discharge gate Metering screw auger, hopper, drive & controls	<b>deduct per bin</b>	<b>\$ 440</b>
	<b>add or deduct per bin Total</b>	<b>\$ 3 800</b>
	<b>Adjustment per bin</b>	<b>\$11 730</b>

**EXAMPLE ASSESSMENT****All Sizes Assumed for this Example**

Assume a blending plant has all necessary equipment components and storage bin capacity consists of 3 -116 tonne and 1 - 62 tonne welded steel hopper bottom bins.

Basic 5 Bin Plant Equipment System	<b>\$ 123 000</b>
Add:	
3 - 116 tonne bins @ \$ 7 100 per bin	<b>21 300</b>
1 - 62 tonne bin @ \$ 4 900 per bin	<b>4 900</b>
Size Adjustment: 4 Bin System	
Less equipment and foundations from 5 bin standard plant — 1 bin less	<b>-11 730</b>
<b>Total</b>	<b>\$ 137 470</b>

**Note:** If the above example plant contained 6 bins in total, an expansion adjustment of +\$ 11 730 would occur.

**5.075.000 AUTOMOTIVE EQUIPMENT****5.075.050 COMPRESSED AIR EQUIPMENT****5.075.055 COMPRESSORS**

<b>kW</b>	<b>Single Phase</b>		<b>Three Phase</b>	
0.4	EA \$	700	EA \$	—
0.6	EA	740	EA	—
0.8	EA	1 370	EA	1 300
1.2	EA	1 400	EA	1 340
1.5	EA	1 570	EA	1 440
2.2	EA	2 500	EA	2 200
3.7	EA	3 000	EA	2 700
5.6	EA	—	EA	3 100
7.5	EA	—	EA	4 550
11.2	EA	—	EA	4 680
14.9	EA	—	EA	6 880
18.6	EA	—	EA	7 180

**5.075.060 TIRE INFLATORS**

	<b>Standard Hose</b>		<b>Automatic Hose Reel</b>	
Hose with indicator	EA	\$ 240	EA	\$ 460
Wall Mounted indicator	EA	850	EA	1 120
Pedestal mounted indicator	EA	1 000		

**5.075.065 TIRE FITTING AND REMOVING EQUIPMENT**

Universal service station type with inflator	EA	\$ 1 980
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**5.075.100 WATER & LUBRICATION DISPENSERS****5.075.105 WATER DISPENSER**

Automatic Reel	EA	\$ 220
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**5.075.110 WATER/AIR ISLAND CALCOMETERS**

Same shape as gasoline calcometers, 1 air hose, 1 water hose, calibration gauges and self-contained air compressor

0.56 kW compressor, manual calibration	EA	\$ 3 600
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1.12 kW compressor, manual calibration	EA	\$ 4 900
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1.12 kW compressor, electronic calibrating, SS cabinet	EA	\$ 5 500
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**Note: Add as found** for concrete islands, paving and guard posts

**5.075.115 LUBRICATION DISPENSERS**

	<b>2 Reel</b>		<b>3 Reel</b>		<b>4 Reel</b>		<b>5 Reel</b>	
Floor Cabinet	EA	\$ 3 200	EA	\$ —	EA	\$ 6 000	EA	\$ —
Overhead	EA	3 500	EA	5 300	EA	7 050	EA	8 800

**5.075.150 GASOLINE DISPENSERS****5.075.155 STANDARD CONSUMER****Self-Contained** with pumping unit

	<b>Mechanical</b>		<b>Electronic</b>	
Single — 1 hose	EA	\$ 3 400	EA	\$ 4 800
Dual — 2 hose, 1 product	EA	5 350	EA	7 100
Dual — 2 hose, 2 product	EA	5 600	EA	7 300
Blending — 1 hose	EA	4 350	EA	—
Blending — 2 hose	EA	6 600	EA	—
4 Hose - 2 product (low profile, no canopy)	EA	—	EA	13 900
4 Hose - 2 product (high hose & canopy)	EA	—	EA	14 800
Multi-Product - 6 Hose	EA	—	EA	18 000

**Remote** without pumping unit

Single — 1 hose	EA	\$ 3 000	EA	\$ 4 300
<b>Dual</b> — 2 hose, 1 product	EA	4 800	EA	6 650
<b>Dual</b> — 2 hose, 2 product	EA	4 850	EA	6 700
<b>Blending</b> — 1 hose	EA	3 800	EA	—
<b>Blending</b> — 2 hose	EA	6 150	EA	—

**Note:** Remote Dispensers — **add** submersible **pumps** as found.**5.075.160 COMMERCIAL-HIGH GALLONAGE****Suction**

0.25 kW Motor 45 — 55 1/M	EA	\$ 2 500
0.56 kW Motor 55 — 90 1/M	EA	2 930
0.75 kW Motor 90 — 180 1/M	EA	3 850
1.12 kW Motor 230 — 270 1/M	EA	4 870

**Remote**

For use with 0.25 kW Submersible Pump	EA	\$ 1 950
For use with 0.56 kW Submersible Pump	EA	2 150
For use with 1.12 kW Submersible Pump	EA	2 500

**Note:** **Remote** Dispensers — **add** submersible **pumps** as found**Key Lock Units** — **add** to above dispensers

	<b>Mechanical Direct Mounted</b>		<b>Electrical Direct or Remote</b>	
<b>10 Key Bank</b>	EA	\$ 900	EA	\$ 1 550
Each additional 10 Key Bank	EA	900	EA	650

**5.075.165 SUBMERSIBLE PUMPS**

0.25 kW	EA	\$ 1 750
0.56 kW	EA	1 900
1.12 kW	EA	2 270

**5.075.170 SELF-SERVE REMOTE CONTROL CONSOLES**

	<b>Mechanical Dispenser</b>		<b>Electronic Dispenser</b>	
2 hose	EA	\$5 700	EA	\$5 400
3 hose	EA	5 700	EA	5 400
4 hose	EA	5 700	EA	5 550
5 hose	EA	6 700	EA	5 550
6 hose	EA	6 700	EA	5 550
7 hose	EA	6 700	EA	5 550
8 hose	EA	6 700	EA	5 550
9 hose	EA	9 250	EA	5 670
10 hose	EA	9 250	EA	5 670
11 hose	EA	9 250	EA	5 670
12 hose	EA	9 250	EA	5 670
16 hose	EA	10 150	EA	5 720
Cash register/Control Console (TRC14)		add EA	EA	\$ 8 300
Ticket Printer			EA	2 200

**5.075.175 INTERCOM**

Intercom master control		EA	\$ 740
Speaker reply and receive	EA	100	

**5.075.200 TANKS****5.075.205 UNDERGROUND TANKS** with normal fittings, piping and venting.

<b>Litres</b>	<b>Steel</b>		<b>Fibreglass</b>	
2 273	EA	\$ 4 300	EA	\$ 4 900
4 546	EA	4 950	EA	5 800
9 092	EA	6 300	EA	7 000
13 638	EA	7 300	EA	8 350
18 184	EA	9 200	EA	9 600
22 730	EA	9 700	EA	10 800
27 277	EA	10 850	EA	12 050
31 823	EA	11 750	EA	13 450
36 369	EA	12 650	EA	14 500
45 461	EA	13 750	EA	16 550

**5.075.210 WASTE OIL TANKS** no fittings or piping

<b>Litres</b>	<b>Steel</b>		<b>Fibreglass</b>	
1 137	EA	\$ 380	EA	\$ -
2 273	EA	700	EA	1 600
4 546	EA	1 380	EA	2 100

**5.075.220 GARAGE AND CAR WASH MUD SUMPS**

Reinforced concrete pit complete with steel grating cover		
1 m depth	m <sup>2</sup>	\$ 510
1.5 m depth	m <sup>2</sup>	\$ 610

**5.075.225 DRAIN TRENCHES** concrete

	<b>Constant</b>	<b>Area rate per m<sup>2</sup></b>
150 mm wide	\$ 320	\$ 28.50
300 mm wide	320	32.00
450 mm wide	320	35.50

**Note:** add for trench grating from 5.005.320

**5.075.230 AUTOMATED DIGITAL TANK GAUGING SYSTEMS****Underground System for service stations**

Basic 3 tank sensing probe system

EA \$ 11 200

**Options:** Additional sensing probes, per tank

Additional controller

add EA \$ 1 000

Digital record printer

add EA 4 000

add EA 550

Each basic system includes:

3 sensing probes, 1 per tank  
 steel conduit, tubing and trenching  
 wiring and electrical hook-ups  
 system controller  
 digital display read-out console  
 commissioning

**Note:** The controller forming part of the basic system will monitor a maximum of 8 tanks. Where more than 8 tanks are found in a system, an additional controller must be added.

**5.075.250 VEHICLE HOISTS****5.075.255 LIGHT DUTY HOISTS****Single Post** 3 629 kg

\$ 4 000

**Double Post** side by side, 3 629 kg

\$ 5 860

**Double Post** 4 536 kg

EA \$ 5 250

5 897 kg

EA 5 950

6 350 kg

EA 6 100

7 257 kg

EA 6 500

8 165 kg

EA 7 050

**Double Post** one moveable

4 990 kg

EA \$ 5 600

7 484 kg

EA 6 900

**5.075.260 HEAVY DUTY HOISTS****Double Post** one moveable

10 886 kg

EA \$ 8 050

11 839 kg

EA 9 200

16 330 kg

EA 9 450

19 505 kg

EA 11 450

22 680 kg

EA 15 150

**Double Post** with dual rear posts

24 494 kg

EA \$ 12 550

27 670 kg

EA 15 950

30 845 kg

EA 16 100

34 020 kg

EA 18 850

**Triple Post** two moveable

24 494 kg

EA \$ 14 250

with dual rear and front posts

27 670 kg

EA \$ 16 350



**5.075.265 SURFACE MOUNTED LIFT HOISTS**

H Frame, scissor folding	2 722 kg	EA	\$ 2 850
Two Post, twin folding side arms	3 175 kg	EA	\$ 6 250
	4 082 kg	EA	6 950
Four Post, roll on ramp lift	3 175 kg	EA	5 800
	4 082 kg	EA	7 650
	5 443 kg	EA	8 400
	9 979 kg	EA	11 450
	13 608 kg	EA	17 750
Four Post, alignment ramp hoist	5 443 kg	EA	\$ 10 650

**5.075.270 VEHICLE EXHAUST SYSTEMS**

		Port Opening Size			
<u>Under Floor</u>		75 mm	100 mm	125 mm	
Single bay		EA	\$ 2 900	\$ 3 050	\$ 3 350
Additional bay	add	EA	290	360	450
Dual bay		EA	3 200	—	—
Additional dual bay	add	EA	500	—	—
<b>Overhead Suspended</b>					
Single bay		EA	—	—	2 550
Additional bay	add	EA	—	—	320

**5.075.300 VEHICLE WASH SYSTEMS** excluding buildings & hot water tank**5.075.305 SELF WASH PRESSURE SYSTEM** including soap & waxing units

Standard Wash Unit	per bay	EA	\$ 2 460
Coin Operated Wash Unit	per bay	EA	3 000
Foaming Brush Wash Unit	per bay add	EA	1 000

**5.075.310 AUTOMATIC WASH SYSTEMS**

	<b>Roll Over</b>	<b>Drive Through</b>	<b>Conveyor (Surface Mounted)</b>
<b>Cars</b>			
1.8 m high, 5 brushes	EA \$ 24 000	EA \$ 31 000	EA \$ 89 600
<b>Leisure Vehicles</b>			
3.1 m high, 7 brushes	EA \$ 24 200	EA \$ 49 500	EA \$ 89 600
<b>Large Buses, Trucks, etc.</b>			
4.1 m high, 2-3 Brushes	EA \$ 46 200	EA \$ 53 700	EA \$ 82 600
<b>Note: add \$12 700 for blower on 1.8 or 3.0 m high systems</b>			
<b>add 10% for conveyer system in floor trench</b>			
<b>Vacuum Cleaner</b>			
1.12 kW			EA \$ 1 150
5.60 kW			EA \$ 3 630

**5.075.350 OUTDOOR LIGHTING****5.075.355 GROUND LEVEL LIGHTING FIXTURES** including concrete base

<b>Type</b>	<b>Watts</b>		
Incandescent	500	EA	\$ 710
	1 000	EA	770
Mercury Vapour	400	EA	770
	1 000	EA	970
Quartz-Iodine	500	EA	750
	1 500	EA	830
High-Pressure Sodium	100	EA	870
	150	EA	880

**5.075.360 MALL & GARDEN LIGHTING FIXTURES**, including pole

<b>Type</b>	<b>Pole Length</b>		
Incandescent 60-200 Watts	1.8 m	EA	\$ 420
	3.0 m	EA	450
Mercury Vapor 100-250 Watts	1.8 m	EA	500
	3.0 m	EA	530
High-Pressure Sodium 70-250 Watts	1.8 m	EA	530
	3.0 m	EA	560

**5.075.365 FIXTURES**

Type	Watts		
Incandescent	250	EA	\$ 120
	500	EA	130
	1 000	EA	180
Quartz (Tungsten Halogen)	500	EA	180
	1 500	EA	190
Mercury Vapor	250	EA	350
	400	EA	360
	1 000	EA	580
Metal Halide	175	EA	430
	400	EA	520
	1 000	EA	650
	1 500	EA	690
High Pressure	100	EA	420
Sodium (Slightly Yellow)	150	EA	450
	250	EA	500
	400	EA	510
	450	EA	570
	1 000	EA	700
Low Pressure	35	EA	370
Sodium (Dark Yellow)	90	EA	510
	180	EA	600
Fluorescent	2 Tube		
	120 (1.2 m)	EA	290
	4 Tube		
	240 (1.2 m)	EA	320
	4 Tube		
340 (1.8 m)	EA	340	
6 Tube			
510 (1.8 m)	EA	400	
4 Tube			
420 (2.4 m)	EA	420	

**Note:** add for poles

**5.075.370 POLES** including base and electrical hook-up

Height	Wood	Steel Pipe	Steel Davit	Steel Architectural
4.3 m	EA \$ —	EA \$ 610	EA \$ 740	EA \$ 660
4.9 m	EA —	EA 630	EA 770	EA 700
5.5 m	EA —	EA 740	EA 880	EA 740
6.1 m	EA 410	EA 780	EA 920	EA 800
7.6 m	EA 420	EA 880	EA 1 030	EA 900
9.1 m	EA 440	EA 900	EA 1 050	EA 920
10.7 m	EA 470	EA 940	EA 1 100	EA 960
12.2 m	EA 500	EA 1 020	EA 1 170	EA 1 040
13.7 m	EA 520	EA —	EA —	EA —

**Note:** Concrete poles add 10% to Architectural Rate  
Aluminum poles add 20% to Architectural Rate

**5.075.400 MICRO-COMPUTER CONTROLLED FUEL DISPENSING SYSTEM****5.075.405 PEDESTAL SELF-CONTAINED** for fleet non-resale

Basic 2 hose System	<b>add</b>	<b>EA</b>	<b>\$ 11 640</b>
Options: Additional hose	<b>add</b>	<b>EA</b>	<b>\$ 660</b>
Odometer and/or unit number entry	<b>add</b>	<b>EA</b>	<b>\$ 340</b>
Vehicle authorization expansion (to increase from 500 to 1000 units)	<b>add</b>	<b>EA</b>	<b>\$ 540</b>
Transaction memory expansion	<b>add</b>	<b>EA</b>	<b>\$ 340</b>

Each basic system includes:

self-contained computer and card reader  
station on pedestal at pump island  
controls up to two hoses  
authorization control up to 500 vehicles  
transaction memory up to 500 files  
trenching, cable, pulsers and hookups

This system is mostly used by large companies  
such as taxi-cab or government agencies.

**Note:** Gasoline dispensers must be **added** to above costs.

**5.075.410 PEDESTAL SELF-CONTAINED** for resale

Basic System	<b>EA</b>		<b>\$ 17 500</b>
Options: Receipt printer (plug-in module on head of card reader and computer)	<b>add</b>	<b>EA</b>	<b>\$ 1 890</b>

Each basic system includes:

self-contained 16 K micro-computer or card reader station  
on pedestal at pump island  
housing and weathershields  
normally controls only four hoses  
program and memory power backup  
pump controls and interface  
trenching, cable, pulser and hookups  
communication terminal  
only power source and return data lines

This system is mainly found at service stations and bulk oil facilities. The computer is located in the card reader station on pedestal. The System requires **no in-house modules** and is accessed by home office main computer. Large facilities may have 2 or 3 pedestals which must be **added** for individually.

**Note:** Gasoline dispensers must be **added** to above costs.

**5.075.415 COMPLETE IN-HOUSE** computer control system

Basic 4 hose system	EA	\$ 25 400
Basic 8 hose system	EA	27 290
Basic 12 hose system	EA	29 630
Basic 16 hose system	EA	31 530
Options: Ticket receipt printer	add EA	\$ 2 960
Additional card reader station	add EA	\$ 12 250

Each basic system includes:

one card reader station — island  
 micro-computer and cabinet — office  
 pump control cabinets — office  
 low voltage power junction terminal — office  
 computer keyboard access console — office  
 computer printer terminal — office  
 transcoder data terminal — office  
 modem connection — office  
 trenching, cable, electronic pulser units,  
 pump controls, card station data lines and  
 receipt printer lines

These systems are mainly found at large service stations and truck service centers.

**Note:** Gasoline dispensers must be **added** to above costs.

**5.075.450 SOLID STATE MODULAR ELECTRONIC CONTROL FUEL DISPENSING SYSTEM****5.075.455 CODE LOCK SYSTEM** no cards and no keys

24 positions	EA	\$ 3 240
132 positions	EA	\$ 4 710
148 positions	EA	\$ 5 970

**Note:** Gasoline dispensers must be **added** to above costs

**5.075.500 MOTOR VEHICLE PROPANE FUELING OUTLETS****5.075.505 PROPANE FUELING SYSTEMS**

Each system includes:

- tanks, fittings and paint
- steel skids and saddle or concrete base
- steel equipment platform and cabinets
- explosion proof motor and pump
- high pressure piping, hoses and fittings
- bottle filling station, controls and scale
- trenching, backfilling, conduit and electrical lines
- installation and hook-ups

Systems **do not** include:

- meters or calcometer dispensers
- steel bumper posts
- key lock and micro-computer systems
- concrete aprons and islands

Type	Capacity		Horizontal Tank System	Vertical Tank System
Single	3 800 litres	EA	\$ 7 500	\$ —
Single	5 700 litres	EA	8 180	10 820
Single	7 500 litres	EA	11 750	14 680
Single	19 000 litres	EA	22 160	25 460
Twin	2 @ 3 800 litres	EA	9 870	—
Twin	2 @ 7 500 litres	EA	15 900	—

Tank Capacity Expansion, where additional tanks are added to and hooked into a basic twin tank system.

3800 litres				\$ 3 750
7600 litres	per tank	add EA		\$ 5 650
	per tank	add EA		
Options: Bumper, 1.2 m concrete filled pipe		add EA		\$ 100
Guardrails, metal		add per m		\$ 49.00

**5.075.510 PROPANE FUELING SYSTEM METERS**

Mechanical T-head Neptune type with automatic temperature compensator controls and normally mounted inside cabinet at LPOG tanks.

**Add** as found to vehicle fueling system costs

	<b>Fleet and Non-Retail</b>	<b>Retail</b>
17 mm	<b>EA \$ 2 020</b>	<b>\$ 3 050</b>
25 mm	<b>EA 2 400</b>	<b>3 440</b>

**Note:** Fleet and non-retail systems do not contain an automatic temperature compensator and normally have a less expensive meter.

**5.075.515 PROPANE FUELING SYSTEM DISPENSERS**

These calcometer dispensers include electronic computing heads, stainless steel high pressure fittings, high pressure hoses and nozzles, automatic temperature compensators, dead-man switches, and are located either on the equipment platform at the tanks or remotely on a regular concrete pump island.

**Add** as found to vehicle fueling system costs

Single Hose Dispenser	<b>EA \$ 15 050</b>
Double Hose Dispenser	<b>EA 27 700</b>

**Note:** Meters and dispensers may be controlled by key-lock or micro-computer control systems which must be added as found from Sec. 5.075.160 and Sec. 5.075.400.

**5.075.550 PAINT SPRAY BOOTHS**

Structural elements for walls and roof are prefabricated painted metal panels. Units contain lights, wiring, overhead exhaust and venting system, observation windows, man door and vehicle doors.

In conjunction with a paint booth, a make-up air system must be installed, either in the ceiling or on the roof of the building housing the paint booth. The costs of these units, complete with all piping and duct work, are included in the following rates.

**5.075.555 CAR BOOTHS 4.3 m wide x 2.7 m high**

<u>Length</u>	<u>Solid Back</u>		<u>Drive Thru</u>	
7.9 m	EA	\$ 20 350	EA	\$ 21 060
8.5 m	EA	20 770	EA	21 500
Without Make Up Air System			deduct	\$ 10 600

**5.075.560 COMBINATION BOOTHS 4.3 m wide x 3.7 m high**

<u>Length</u>	<u>Solid Back</u>		<u>Drive Thru</u>	
8.5 m	EA	\$ 28 400	EA	\$ 29 600
Length Variation add or deduct per 300 mm				\$ 310
Lights add per 1.5 m of additional length				\$ 1 060
Without Make-Up Air System			deduct	\$ 12 740

These units will accommodate cars, vans and trucks

**5.075.565 DOWN DRAFT BOOTH**

Similar specifications to the combination drive thru booth except exhaust system has 4.3 m grated and filtered concrete floor pit with concrete under slab ducting.

Drive Thru 8.5 m x 4.3 m x 4.9 m EA \$ 34 900

**5.075.570 TRUCK BOOTHS 4.9 m wide x 4.9 m high**

<u>Length</u>	<u>Solid Back</u>		<u>Drive Thru</u>	
10.4 m	EA	\$ 37 780	EA	\$ 39 550
11.9 m	EA	39 350	EA	41 100
13.4 m	EA	40 880	EA	42 570
Length Variation add or deduct per 300 mm				\$ 370
Lights add per 1.5 m of additional length				\$ 1 060
Without make-up Air System			deduct	\$ 16 275



**5.075.575 AUTOMATIC MOBILE OVEN**

Roll-over dryer, rail mounted, motorized, infra-red electrical heat units, including rails and 1.8 m end oven storage booth extension.

Car or Combination Booth	<b>EA</b>	<b>\$ 9 060</b>
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Truck Booth	<b>EA</b>	<b>\$ 24 450</b>
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**5.075.580 DRYING BOOTH EXTENSION**

Attached three wall booth with chamber that allows drying of first vehicle while second is painted in main booth.

Add only to drive thru booths.

Car or Combination Booth	<b>EA</b>	<b>\$ 6 150</b>
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**5.077.000 BULK OIL PLANT EQUIPMENT****5.077.050 TANKS****5.077.055 ABOVE GROUND****Capacity**

Litres	Horizontal (Gravity)	Horizontal (Connected)	Vertical
2 273	EA \$ 800	EA \$ -	EA \$ 2 000
4 546	EA 1 200	EA -	EA 2 300
9 092	EA 1 850	EA -	EA 3 000
13 638	EA 2 350	EA 2 350	EA 3 700
18 184	EA -	EA 3 650	EA 4 400
22 730	EA -	EA 3 750	EA 5 900
36 368	EA -	EA -	EA 7 450
45 461	EA -	EA -	EA 8 900
54 552	EA -	EA -	EA 10 000
59 020	EA -	EA -	EA 10 550
68 190	EA -	EA -	EA 10 950
72 736	EA -	EA -	EA 11 350
90 920	EA -	EA -	EA 12 750
113 650	EA -	EA -	EA 16 650
136 380	EA -	EA -	EA 20 900

**5.077.060 PIPING** average per tank; includes fittings, valves and supports.

	Pipe Size				
	48.3 mm	60.3 mm	73.0 mm	88.9 mm	114.3 mm
Per Tank	\$ 3 750	\$ 4 300	\$ 4 850	\$ 5 400	\$ 6 150
Over 30.0 m add per m	\$ 11.20	\$ 12.80	\$ 14.40	\$ 16.00	\$ 18.40

**5.077.065 PUMP MANIFOLDS**

	Pipe Size				
	48.3 mm	60.3 mm	73.0 mm	88.9 mm	114.3 mm
Per Pump	\$ 800	\$ 900	\$ 1 000	\$ 1 100	\$ 1 300

**5.077.070 TANK MANIFOLDS**

	Pipe Size				
	48.3 mm	60.3 mm	73.0 mm	88.9 mm	114.3 mm
Per Tank	\$ 400	\$ 450	\$ 500	\$ 600	\$ 700

**5.077.075 TANK CATWALKS**

	m
Steel Ladder	\$ 106.00
Steel Stairway	160.00
Steel Catwalk	180.00
Wood Stairway	160.00
Wood Catwalk	80.00

**5.077.080 TANK FARM BERMS**

	<b>m</b>
Earth Berm	<b>\$ 130</b>
Concrete Berm 1.2 m high	<b>153</b>
Steel Berm Walkover	<b>EA \$ 1 000</b>
Wooden Berm Walkover	<b>EA 650</b>
Berm Sump & Drain	<b>EA 700</b>
Sump & Drain with Hand Pump	<b>EA 1 200</b>

**5.077.085 AUTOMATED DIGITAL TANK GAUGING SYSTEMS**

Above-Ground System for bulk oil plants

Basic 5 tank sensing probe system **EA \$ 14 700**

Options: Tank Variation - less than or more than basic system

**per tank, add or deduct EA \$ 1 300**

Additional controller	<b>add EA 4 000</b>
Digital record printer	<b>add EA 550</b>
Additional read-out console	<b>add 1 200</b>

Each basic system includes:

5 sensing probes, 1 per tank  
armoured steel cable and tubing  
wiring and electrical hook-ups  
system controller  
digital display read-out console  
commissioning

**Note:** The controller forming part of the basic system will monitor a maximum of 8 tanks. Where more than 8 tanks are found in a system, an additional controller must be added.

Read-out consoles may be located in an office structure or externally in a bulk plant yard.

**5.077.100 LOADING & UNLOADING EQUIPMENT****5.077.105 PUMPS** includes base, motor and electrical hook-up

<b>kW</b>	<b>Pipe Size</b>		
0.75	60.3 mm	<b>EA</b>	<b>\$ 2 450</b>
1.12	60.3 mm	<b>EA</b>	<b>2 500</b>
1.49	60.3 mm	<b>EA</b>	<b>2 650</b>
2.24	88.9 mm	<b>EA</b>	<b>3 600</b>
3.73	88.9 mm	<b>EA</b>	<b>3 700</b>
5.60	88.9 mm	<b>EA</b>	<b>5 100</b>
5.60	114.3 mm	<b>EA</b>	<b>5 700</b>
7.46	114.3 mm	<b>EA</b>	<b>6 250</b>
Twin Blackmer		<b>EA</b>	<b>\$ 3 300</b>
Quad Blackmer		<b>EA</b>	<b>7 200</b>
Six Gang Blackmer		<b>EA</b>	<b>8 800</b>

**5.077.110 TRUCK LOADERS** includes loading arm

<b>Pipe Size</b>		
60.3 mm	<b>EA</b>	<b>\$ 1 300</b>
73.0 mm	<b>EA</b>	<b>1 500</b>
88.9 mm	<b>EA</b>	<b>1 700</b>
114.3 mm	<b>EA</b>	<b>2 100</b>

**5.077.115 BOTTOM TRUCK UNLOADERS**

<u>Pipe Size</u>	<u>Unloaders</u>		<u>Spill Preventors</u>	
60.3 mm	EA	\$ 550	EA	\$ 230
73.0 mm	EA	600	EA	240
88.9 mm	EA	700	EA	250
114.3 mm	EA	800	EA	260

**5.077.120 BULK PLANT METERS**

<u>Pipe Size</u>	<u>Direct Reading</u>		<u>With Printer</u>	
42.2 mm	EA	\$ 1 600	EA	\$ 1 850
48.3 mm	EA	1 700	EA	2 000
60.3 mm	EA	2 000	EA	2 250
88.9 mm	EA	3 050	EA	3 300
114.3 mm	EA	5 450	EA	5 700

**5.077.125 BARREL FILLERS**

Hose and nozzle 42.2 - 48.3 mm	EA	\$ 460
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**5.077.130 RAILWAY TANK CAR UNLOADERS**

Overhead Unloader Steel stand post, concrete base, 88.9 mm line and fittings concrete base and fittings.	EA	\$ 2 250
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**Unloading Pivot Arm Assembly****Size**

60.3 mm	add	EA	\$ 500
73.0 mm	add	EA	800
88.9 mm	add	EA	1 000

**Bottom Unloader** includes lines, pipe and fittings

**Size**

60.3 mm	EA	\$ 440
73.0 mm	EA	800
88.9 mm	EA	1 080
114.3 mm	EA	1 300

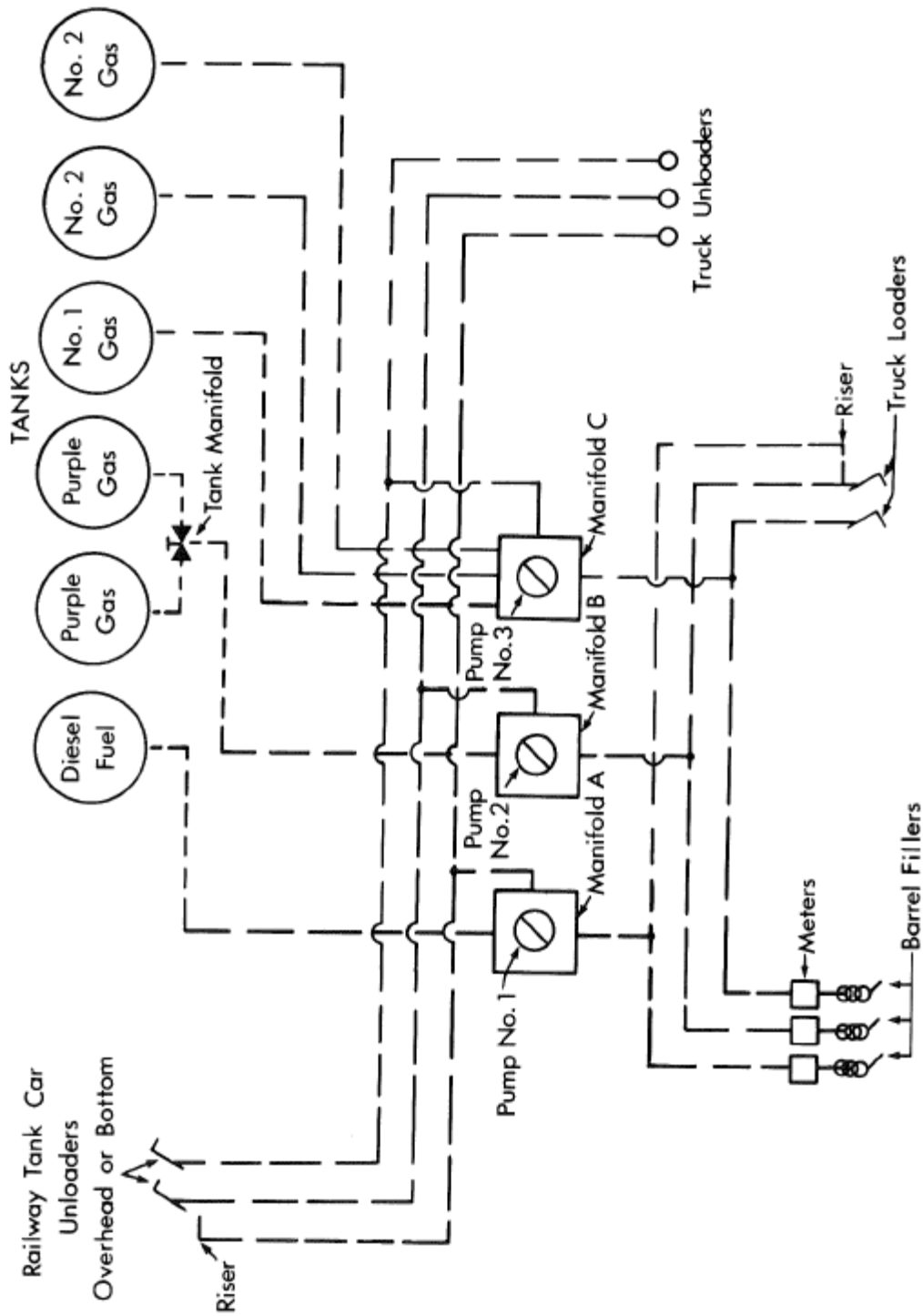
**5.077.135 STEEL FILLSTAND WITH STAIRS**

Loading Platform	Constant	\$ 800
	Area Rate m <sup>2</sup>	354.00
Swing Platform	add per m <sup>2</sup>	215.00

**5.077.140 CONCRETE SPILL SLAB**

	<u>m2</u>		
150 mm Reinforced Concrete	add	EA	\$ 24.40
Catch Basin Interceptor	add	EA	\$ 1 400

5.077.145 TYPICAL BULK OIL INSTALLATION



The previous illustration depicts the layout of a small bulk oil plant showing the general arrangement of tanks, piping, and equipment. Different combinations of equipment, may be found but the general hook up will be similar to the illustration.

When large tank farms are encountered the yard piping is added on a per metre basis.

#### EXAMPLE ASSESSMENT BASED ON PREVIOUS ILLUSTRATION All Sizes

##### Assumed for this Illustration

TANKS: 6, each 54 552 litres @ \$ 10 000 per tank x 6	<b>\$ 60 000</b>
PIPING: All yard piping 60.3 mm, @ \$4 300 per tank x 5 tanks	<b>25 800</b>
PUMP MANIFOLDS: Each manifold 60.3 mm piping, @ \$ 900 plus \$ 450 for each additional tank	
Manifold "A" \$ 900 (1 tank only)	<b>900</b>
Manifold "B" \$ 900 (treat as 1 tank only and add \$ 450 for the "Tank Manifold")	<b>1 350</b>
Manifold "C" \$ 900 for the first tank plus \$ 450 for each of the other two tanks	<b>1 800</b>
PUMPS: 1 x 0.75 kW @ \$ 2 450	<b>2 450</b>
1 x 1.12 kW @ \$ 2 500	<b>2 500</b>
1 x 1.49 kW @ \$ 2 650	<b>2 650</b>
TANK CAR UNLOADERS: Overhead Unloader \$ 2 250 plus \$ 500 for one unloading arm assembly	<b>2 750</b>
BOTTOM TRUCK UNLOADERS: 60.3 mm — 3 @ \$ 550	<b>1 650</b>
TRUCK LOADERS: 60.3 mm — 2 @ \$ 1 300	<b>2 600</b>
BARREL FILLERS: 3 @ \$ 460	<b>1 380</b>
METERS: 60.3 mm — 3 @ \$2 000 (Direct Reading)	<b>6 000</b>
<b>Total</b>	<b><u>\$ 111 830</u></b>

**Note:** add for Steel Fillstands, Concrete Spill Slabs, Tank Catwalks and Tank Farm Berms as found.

**5.077.150 PROPANE (LPG) AND ANHYDROUS AMMONIA (NH<sub>3</sub>) EQUIPMENT****5.077.155 DUAL PURPOSE HORIZONTAL TANKS**

Rates include sitework, concrete piers, tanks, saddles, painting, gauges, regulators, valves, vents, set up and installation.

Rates **do not** include piping, hoses, pumps, motors, compressors; mounting pads; electrical service, hook ups and controls.

**Capacity  
Litres**

1 900	EA \$	1 790
3 800	EA	2 940
5 700	EA	8 960
7 600	EA	10 750
19 000	EA	23 530
23 940	EA	30 300
34 580	EA	34 930
45 600	EA	40 450
68 400	EA	44 390
79 800	EA	49 260
96 140	EA	55 800
114 000	EA	56 200
135 280	EA	82 140
159 600	EA	87 340
171 000	EA	91 140
186 000	EA	97 000

**Note:** tanks are rated in U.S. gallons  
one U.S. gallon equals 3.8 litres

**Steel Skids Under Tanks** — add to above tank costs

**Tank sizes**

0 to 15 200 litres	EA	\$ 1 070
19 000 to 45 600 litres	EA	6 110
57 000 to 96 140 litres	EA	9 200
over 96 140 litres	EA	11 490

**5.077.160 PROPANE PUMPING SYSTEMS**

Pumping System Rates include concrete pad, pump, motor, controls, piping, hoses, valves, fittings scales and installation hook-ups necessary for bottle filling and tank truck loading.

**Bottle Fill and Tank Truck Loading****kW**

0.56	25 mm pump including fil	lines	EA	\$ 4 460
0.75	25 mm pump including fil	lines	EA	5 300
1.12	25 mm pump including fil	lines	EA	5 720
1.49	32 mm pump including fil	lines	EA	5 920
2.24	38 mm pump including fil	lines	EA	6 070
3.73	51 mm pump including fil	lines	EA	8 090
5.60	51 mm pump including fil	lines	EA	8 750
7.46	51 mm pump including fil	lines	EA	9 120
	Hand Operated Bottle Fill		EA	1 130

**5.077.165 ANHYDROUS AMMONIA (NH<sub>3</sub>) PUMPING SYSTEMS**

Pumping Systems are usually high carbon or stainless steel due to the high corrosive qualities of NH<sub>3</sub>, therefore these systems are more expensive than propane pumping systems.

Rates include pump, motor, concrete pad, piping (two — 51 mm vapor lines, one —76 mm liquid line), hoses (truck loading and unloading, vapor) valves, fittings, bleed lines, cabinets, controls and installation hook ups.

**Standard System — Single Load In and Single Load Out****kW**

3.73	51 mm pump and lines	<b>\$ 16 350</b>
5.60	51 mm pump and lines	<b>16 570</b>
7.46	51 mm pump and lines	<b>16 940</b>
7.46	76 mm pump and lines	<b>17 820</b>
11.19	76 mm pump and lines	<b>18 630</b>
14.92	102 mm pump and lines	<b>21 060</b>
18.65	102 mm pump and lines	<b>22 100</b>

**Dual System — Single Load In and Double Load Out**

**Add** to standard system (includes hoses, controls, hook ups and bypass piping)

**\$ 10 300**

**Note:** **add** to standard or dual systems for extra pumps, compressors, and meters as found.

**5.077.170 COMPRESSORS — PROPANE AND ANHYDROUS AMMONIA**

Compressor rates include compressor, lines, valves, fittings, guards, base plates, cabinets, controls, motors and installation.

Motors are totally enclosed, fan cooled, 3 phase, explosion proof

**KW**

3.73	51 mm lines	<b>EA</b>	<b>\$ 8 130</b>
5.60	51 mm lines	<b>EA</b>	<b>8 360</b>
7.46	51 mm lines	<b>EA</b>	<b>9 570</b>
7.46	76 mm lines	<b>EA</b>	<b>13 490</b>
11.19	76 mm lines	<b>EA</b>	<b>15 620</b>
18.65	76 mm lines	<b>EA</b>	<b>16 440</b>

Concrete bases or pads — **add** as found

**5.077.175 METERS**

Meter Rates include stainless steel fittings, temperature compensators, strainer, valves, air eliminator and totalizer

<b>Size</b>	<b>Propane</b>		<b>NH<sub>3</sub></b>	
17 mm	<b>EA</b>	<b>\$ 2 820</b>	<b>EA</b>	<b>\$ —</b>
25 mm	<b>EA</b>	<b>3 260</b>	<b>EA</b>	<b>—</b>
32 mm	<b>EA</b>	<b>5 280</b>	<b>EA</b>	<b>—</b>
38 mm	<b>EA</b>	<b>5 610</b>	<b>EA</b>	<b>6 430</b>
51 mm	<b>EA</b>	<b>6 640</b>	<b>EA</b>	<b>7 800</b>
76 mm	<b>EA</b>	<b>7 780</b>	<b>EA</b>	<b>9 550</b>
102 mm	<b>EA</b>	<b>8 640</b>	<b>EA</b>	<b>—</b>



**5.077.180 RAILWAY TANK CAR UNLOADING LINES**

Transfers propane and or anhydrous ammonia from rail tank car to storage vessel and includes piping, valves, fittings, one vapor line and hose, two liquid lines and hose

51 mm vapor and liquid lines **EA \$ 6 550**

**Note: add** for compressors and pumping units as found

**add** for unloading towers, stairs, catwalks as found

Various combinations of equipment will be found at propane or anhydrous ammonia bulk stations

The following example is based on a typical anhydrous ammonia systems.  
All sizes are assumed.

TANK: with piers — 114 000 litres	\$ 56 200
STEEL SKIDS: in addition to concrete piers	11 490
PUMPING SYSTEM: single load in and single load out 7.46 kw — 51 mm pump and lines	16 940
DUAL SYSTEM: additional load out	10 300
COMPRESSOR: 7.46 kW — 51 mm	9 570
METER: one 38 mm	6 430
<b>Total</b>	<b>\$ 110 930</b>

**Note: add** as found for yard lighting and steel fences

Suggested age life: 25 years

**5.085.000 GRAIN & FEED STORAGE EQUIPMENT****5.085.050 STEEL GRAIN BINS****General Purpose - Flat Bottom**

Corrugated galvanized steel bolted bin including top fill cap, roof manhole and ladder, door and auger chute, hardware, concrete slab or wood skid and floor system, installation.

Capacity		Each Bin
Tonnes	Bushels	
33.4	1 175	\$ 1 620
38.3	1 350	1 710
41.2	1 450	1 770
42.6	1 500	1 810
46.8	1 650	1 950
54.0	1 900	2 120
56.8	2 000	2 230
65.3	2 300	2 530
71.0	2 500	2 650
73.8	2 600	2 800
76.7	2 700	2 810
79.5	2 800	2 830
89.5	3 150	3 070
93.7	3 300	3 170
96.5	3 400	3 240
109.3	3 850	3 660
113.6	4 000	3 710
119.3	4 200	3 820
125.0	4 400	4 060
130.6	4 600	4 110
133.5	4 700	4 160
142.0	5 000	4 430
167.7	5 905	5 700
185.0	6 517	5 960
197.8	6 966	6 650
220.0	7 816	6 850
234.9	8 270	7 770
261.3	9 202	8 560
284.6	10 023	8 770

Steel Ladder, exterior wall

**add per m \$ 26.50**

**5.085.060 STEEL GRAIN BINS****General Purpose - Hopper Bottom - Bolted**

Corrugated galvanized steel bolted tank including hopper cone and legs, bracing and anchors, slide gate discharge, auger boot, roof and wall ladders and manhole, reinforced concrete foundation and slab, installation.

Capacity		Each Bin
Tonnes	Bushels	
36.9	1 300	\$ 3 990
46.8	1 650	4 350
50.4	1 775	4 480
56.8	2 000	4 540
62.5	2 200	5 310
73.8	2 600	5 600
76.7	2 700	5 800

**5.085.070 STEEL BULK FEED TANKS****Hopper Bottom - Bolted**

Corrugated galvanized steel bolted tank including hopper cone and legs, bracing, anchors, slide gate discharge, auger boot, roof and wall ladders, roof manhole, setup and reinforced concrete foundation and slab, installation.

Capacity		Each Bin
Tonnes	Bushels	
5.4	190	\$ 1 670
7.8	275	1 800
10.2	360	1 930
12.8	450	2 070
14.2	500	2 430
18.2	640	2 680
22.3	785	2 830
26.4	930	2 970
30.5	1 075	3 130
34.8	1 225	3 560

**PRECALCULATED ADJUSTMENTS**

Pneumatic top cap and filling tube	<b>add EA</b>	<b>\$ 330</b>
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**5.085.080 STEEL GRAIN OR FERTILIZER BINS****General Purpose - Hopper Bottom - Welded**

Includes hopper cone and slide gate, auger boot, roof and wall ladder, roof manhole, steel legs, enamel paint finish; epoxy coated interior on fertilizer storage bins; reinforced concrete foundation and slab, installation.

<b>GRAIN STORAGE</b>		<b>FERTILIZER STORAGE</b>	
<b>Grain Capacity Bushels</b>	<b>Grain Bin Each</b>	<b>Fertilizer Capacity/Tonnes</b>	<b>Fertilizer Bin Each</b>
250	\$ 1 990	5.4	\$ 2 030
425	2 630	9.1	2 720
700	2 810	14.5	2 910
780	3 260	25.4	3 360
975	3 400	31.7	3 500
1 260	3 530	40.8	3 620
1 450	3 830	46.3	3 920
1 725	4 180	56.2	4 280
1 940	4 500	61.7	4 640
2 225	4 830	70.8	4 970
2 650	5 470	84.4	5 610
2 765	6 770	88.9	7 000
3 275	7 710	105.3	7 950
3 620	8 020	116.2	8 260
4 130	8 730	132.5	8 990

**PRECALCULATED ADJUSTMENTS**

Reinforced Concrete Foundation and Slab - nil

0 to 700 bushel capacity	<b>deduct</b>	<b>\$ 430</b>
780 to 1260 bushel capacity	<b>deduct</b>	<b>500</b>
1450 to 2650 bushel capacity	<b>deduct</b>	<b>590</b>
2700 to 5000 bushel capacity	<b>deduct</b>	<b>1 020</b>

Steel Skids

3.7 m diam. bins	<b>add</b>	<b>\$ 450</b>
4.3 m diam. bins	<b>add</b>	<b>550</b>
5.8 m diam. bins	<b>add</b>	<b>750</b>
Pneumatic Filler Tube	<b>add</b> EA	<b>250</b>
Inspection Windows	<b>add</b> EA	<b>30</b>
Extra Manhole	<b>add</b> EA	<b>35</b>

**Note:** Foundations located at most commercial installations where larger capacity bins are found normally incorporate reinforced concrete piles and heavy reinforced concrete perimeter footings in addition to the concrete slab foundations included as part of the above Base Costs. A further adjustment is therefore required to add for these items.

**5.085.090 WOOD GRAIN OR FERTILIZER BINS**

Used for grain or fertilizer storage and includes wood skids, wood plank floor with plywood overlay, plywood walls and roof, man door, exterior paint, roof ladder and manhole, installation. Interior plywood cone and bracing with auger boot on hopper models.

	Capacity		Flat Bottom Each	Hopper Bottom Each
	Tonnes	Bushels		
	24.5	875	—	\$ 1 620
	28.1	990	—	1 650
	28.4	1 000	980	—
	34.1	1 200	1 150	1 980
	46.1	1 625	1 380	2 570
	63.9	2 250	1 600	—

**5.085.100 BIN UNLOADING EQUIPMENT**

Installed in horizontal bin well in the concrete floor of a standard grain bin and includes double hopper tube, flanges, screw auger, exterior power drive head, motor, electrical, installation.

**Horizontal Bin Unloaders**

Bin Diameter	150 mm Tube		200 mm Tube	
5.8 m	EA	\$ 1 610	EA	\$ 2 160
6.4 m	EA	1 610	EA	2 190
7.3 m	EA	1 820	EA	2 600
8.2 m	EA	1 850	EA	2 640
9.1 m	EA	—	EA	2 670
10.1 m	EA	—	EA	2 740

**Bin Sweeps - add** as found to the above unloader costs

Bin Diameter	150 mm Sweep		200 mm Sweep	
5.8 m	EA	\$ 530	EA	\$ 570
6.4 m	EA	540	EA	580
7.3 m	EA	560	EA	620
8.2 m	EA	600	EA	650
9.1 m	EA	—	EA	680
10.1 m	EA	—	EA	740

**5.085.110 GRAIN BIN AERATION EQUIPMENT**

Several types of aeration systems may be found. The costs of the interior bin floor system must be combined with the appropriate fan cost to produce a total system cost.

Interior bin floor systems include corrugated galvanized perforated duct panels or planks, polyethylene wall transition cone duct, installation.

**Above Floor Tube Aeration Systems**

<b>Bin Diameter</b>	<b>500 mm Half Round In-Line</b>	<b>625 mm Half Round In-Line</b>	<b>625 mm Half Round V-Line</b>	<b>600 mm Full Round</b>
4.3 m	EA \$ 270	EA \$ 360	EA \$ 470	EA\$ 550
5.8 m	EA 300	EA 390	EA 560	EA 610
6.4 m	EA 320	EA 420	EA 620	EA 670
7.3 m	EA 350	EA 450	EA 680	EA 790
8.2 m	EA 370	EA 480	EA 740	EA 910
9.1 m	EA 390	EA 510	EA 800	EA 1 030
10.1 m	EA 410	EA 540	EA 860	EA 1 150

**Flush Plank Floor and Pit System**

Includes perforated steel planks, steel supports, recessed duct and 325 mm recessed concrete bin well.

**Bin Diameter**

4.3 m	EA \$ 640
5.8 m	EA 1 010
6.4 m	EA 1 200
7.3 m	EA 1 660
8.2 m	EA 2 140
9.1 m	EA 2 610
10.1 m	EA 3 170
11.0 m	EA 3 610

**5.085.110 GRAIN BIN AERATION EQUIPMENT CONT'D**

Fan costs include base and wall mounting, air cone, collars, electrical and installation.

Fan costs must be added to the cost of the appropriate interior bin aeration floor system to produce cost of total system.

**Aeration System Fans**

		<b>In-Line Centrifugal</b>		<b>High Speed Centrifugal</b>	
1 Phase	0.75 Kw	EA	\$ 1 010	EA	\$ —
	2.24 Kw	EA	1 250	EA	1570
	3.73 Kw	EA	1 510	EA	1840
	5.60 Kw	EA	1 740	EA	2250
	7.46 Kw	EA	—	EA	2670
3 Phase	0.75 Kw	EA	1 270	EA	—
	2.24 Kw	EA	1 600	EA	1410
	3.73 Kw	EA	1 760	EA	1570
	5.60 Kw	EA	2 060	EA	1730
	7.46 Kw	EA	—	EA	2080

**Note:** In-line Centrifugal – has a round cylindrical steel housing with motor internally mounted.

High Speed Centrifugal – has a square or rectangular slim-line compact steel housing with motor externally mounted.

Suggested Age Life: Wood Bins – 15 years

Steel Bins – grain storage, wood floor system	40 years
concrete slab	50 years
- fertilizer storage	20 years

**5.089.500 RAILWAY TRACKAGE & EQUIPMENT****5.089.525 ROADWAY & SUPERSTRUCTURE**

**Roadway and superstructure of the roadway**                      **\$ 14 080 per kilometre**

**Note:** Rates for roadway and superstructure of the roadway reflect depreciated base costs.

**5.089.550 TRACKAGE AND APPURTENANCES**

**5.089.555 TRACKAGE** outside the limits of a "roadway"                      **\$ 148 550 per kilometre**

**5.089.560 APPURTENANCES** outside the limits of a "roadway"

Turnout, 42.16 — 49.39 kg/m	<b>EA</b>	<b>\$ 9 400</b>
Turnout, 56.89 — 65.52 kg/m	<b>EA</b>	<b>9 900</b>
Wheel Stop	<b>EA</b>	<b>500</b>
Car Bumper	<b>EA</b>	<b>1 250</b>
Derailer (hand throw)	<b>EA</b>	<b>380</b>

**Note:** Rates for trackage and appurtenances reflect depreciated base costs.

**5.089.575 EQUIPMENT****5.089.580 STORAGE TANKS**

<b>Size</b>		
53.0 m <sup>3</sup>	<b>EA</b>	<b>\$ 10 530</b>
189.3 m <sup>3</sup>	<b>EA</b>	<b>23 900</b>
378.5 m <sup>3</sup>	<b>EA</b>	<b>40 270</b>
1 324.9 m <sup>3</sup>	<b>EA</b>	<b>162 220</b>
2 649.8 m <sup>3</sup>	<b>EA</b>	<b>302 080</b>

**Note:** Gallon (US) = 0.003 785 m<sup>3</sup>  
 Gallon (Imperial) = 0.004 546 m<sup>3</sup>  
 Barrel (42 US Gallons) = 0.158 987 m<sup>3</sup>

**5.089.585 TANK PUMPING UNITS**

<b>Size</b>		
378 LPM Complete Unit	<b>EA</b>	<b>\$ 3 900</b>
1 136 LPM Complete Unit	<b>EA</b>	<b>5 850</b>

**5.089.590 LOADING PLATFORMS**

		<b>m<sup>2</sup></b>
Earth and Timber		<b>\$ 88.00</b>
Concrete		<b>129.00</b>
Asphalt Surfacing	<b>add</b>	<b>11.00</b>

**5.089.595 STOCKYARDS**

		<b>m<sup>2</sup></b>
Pen Fencing (fence area)		<b>\$ 33.30</b>



**5.145.000 AVIATION EQUIPMENT****5.145.050 AIRCRAFT REFUELING CABINETS**

Costs include fibreglass cabinet, pump, motor, filter, separator, meter, valves, piping, starters, junction boxes, underground wiring, explosion proof fittings, aviation hose, over-wing nozzle and electric rewind hose reel.

Costs also include a 1.8 x 2.4 m reinforced concrete slab for mounting of the cabinet and equipment.

114 litres per minute, cabinet type	<b>EA</b>	<b>\$ 14 950</b>
114 litres per minute, overhead T-bar, rack mounted	<b>EA</b>	<b>13 700</b>
227 litres per minute, cabinet type	<b>EA</b>	<b>18 450</b>
455 Litres per minute, cabinet type	<b>EA</b>	<b>28 600</b>

**PRECALCULATED ADJUSTMENTS**

Under-wing loading nozzle		<b>add EA</b>	<b>1 000</b>
Red marker lights, explosion and weatherproof	<b>add per cabinet</b>		<b>600</b>
Interior cabinets lights, explosion and weatherproof	<b>add per cabinet</b>		<b>500</b>
Hand crank rewind hose reel	<b>deduct EA</b>	<b>985</b>	
Concrete slab size variation	<b>add or deduct per m<sup>2</sup></b>		<b>15.00</b>

**5.900.000 COMPONENT COST SECTION****COMMERCIAL COMPONENT KEY**

<b>CODE</b>	<b>COMPONENT</b>	<b>CODE</b>	<b>COMPONENT</b>
<b>0100</b>	Sitework	<b>3500</b>	Windows
<b>0300</b>	Excavation	<b>3700</b>	Exterior Doors
<b>0500</b>	Concrete Footings	<b>3900</b>	Shafts/Stairwells
<b>0700</b>	Piles	<b>4100</b>	Interior Wall Finish
<b>0900</b>	Concrete Pads	<b>4300</b>	Partitions
<b>1100</b>	Grade Beams	<b>4500</b>	Ceiling Finish
<b>1300</b>	Foundation Walls	<b>4700</b>	Interior Doors
<b>1500</b>	Concrete Slabs	<b>4900</b>	Baseboards
<b>1700</b>	Columns	<b>5100</b>	Floor Finish
<b>1900</b>	Beams	<b>5700</b>	Balconies
<b>2100</b>	Base Floor Construction	<b>6100</b>	Plumbing
<b>2300</b>	Stairs	<b>6300</b>	Plumbing Fixtures
<b>2500</b>	Base Wall Construction	<b>6500</b>	Heating
<b>2700</b>	Exterior Wall Finish	<b>6700</b>	Electrical
<b>2900</b>	Base Roof Construction	<b>6900</b>	Electrical Fixtures
<b>3300</b>	Roof Finish		

**5.900.030 EXCAVATION**

<b>Code</b>	<b>Component</b>	<b>m<sup>3</sup></b>
<b>0300</b>	Bulk Excavation and Disposal	<b>\$ 9.90</b>

**5.900.050 CONCRETE STRIP FOOTINGS**

<b>Code</b>	<b>Component</b>	<b>m</b>
<b>0500</b>	150 x 300 mm Unreinforced	<b>\$ 12.00</b>
<b>0501</b>	150 x 350 mm Unreinforced	<b>12.50</b>
<b>0502</b>	150 x 400 mm Unreinforced	<b>13.50</b>
<b>0503</b>	150 x 450 mm Unreinforced	<b>14.00</b>
<b>0504</b>	150 x 500 mm Unreinforced	<b>14.50</b>
<b>0505</b>	150 x 550 mm Unreinforced	<b>15.00</b>
<b>0506</b>	150 x 600 mm Unreinforced	<b>16.00</b>
<b>0507</b>	200 x 300 mm Unreinforced	<b>16.00</b>
<b>0508</b>	200 x 350 mm Unreinforced	<b>17.00</b>
<b>0509</b>	200 x 400 mm Unreinforced	<b>17.50</b>
<b>0510</b>	200 x 450 mm Unreinforced	<b>18.50</b>
<b>0511</b>	200 x 500 mm Unreinforced	<b>19.50</b>
<b>0512</b>	200 x 550 mm Unreinforced	<b>20.50</b>
<b>0513</b>	200 x 600 mm Unreinforced	<b>21.00</b>
<b>0514</b>	250 x 300 mm Unreinforced	<b>20.00</b>
<b>0515</b>	250 x 350 mm Unreinforced	<b>21.00</b>
<b>0516</b>	250 x 400 mm Unreinforced	<b>22.00</b>
<b>0517</b>	250 x 450 mm Unreinforced	<b>23.00</b>
<b>0518</b>	250 x 500 mm Unreinforced	<b>24.50</b>
<b>0519</b>	250 x 550 mm Unreinforced	<b>25.50</b>
<b>0520</b>	250 x 600 mm Unreinforced	<b>26.50</b>
<b>0521</b>	300 x 300 mm Unreinforced	<b>24.00</b>
<b>0522</b>	300 x 350 mm Unreinforced	<b>25.50</b>
<b>0523</b>	300 x 400 mm Unreinforced	<b>26.50</b>
<b>0524</b>	300 x 450 mm Unreinforced	<b>28.00</b>
<b>0525</b>	300 x 500 mm Unreinforced	<b>29.00</b>
<b>0526</b>	300 x 550 mm Unreinforced	<b>30.50</b>
<b>0527</b>	300 x 600 mm Unreinforced	<b>32.00</b>

**5.900.050 CONCRETE STRIP FOOTINGS - CONT'D**

<b>Code</b>	<b>Component</b>	<b>m</b>
<b>0528</b>	150 x 300 mm Medium Reinforcing Total Cost	\$ 12.00 <u>3.00</u> <b>15.00</b>
<b>0529</b>	150 x 350 mm Medium Reinforcing Total Cost	12.50 <u>3.00</u> <b>15.50</b>
<b>0530</b>	150 x 400 mm Medium Reinforcing Total Cost	13.50 <u>3.00</u> <b>16.50</b>
<b>0531</b>	150 x 450 mm Medium Reinforcing Total Cost	14.00 <u>3.00</u> <b>17.00</b>
<b>0532</b>	150 x 500 mm Medium Reinforcing Total Cost	14.50 <u>3.00</u> <b>17.50</b>
<b>0533</b>	150 x 550 mm Medium Reinforcing Total Cost	15.00 <u>3.00</u> <b>18.00</b>
<b>0534</b>	150 x 600 mm Medium Reinforcing Total Cost	16.00 <u>3.00</u> <b>19.00</b>
<b>0535</b>	200 x 300 mm Medium Reinforcing Total Cost	16.00 <u>3.00</u> <b>19.00</b>
<b>0536</b>	200 x 350 mm Medium Reinforcing Total Cost	17.00 <u>3.00</u> <b>20.00</b>
<b>0537</b>	200 x 400 mm Medium Reinforcing Total Cost	17.50 <u>3.00</u> <b>20.50</b>
<b>0538</b>	200 x 450 mm Medium Reinforcing Total Cost	18.50 <u>3.00</u> <b>21.50</b>
<b>0539</b>	200 x 500 mm Medium Reinforcing Total Cost	19.50 <u>3.00</u> <b>22.50</b>
<b>0540</b>	200 x 550 mm Medium Reinforcing Total Cost	20.50 <u>3.00</u> <b>23.50</b>

**5.900.050 CONCRETE STRIP FOOTINGS - CONT'D**

<b>Code</b>	<b>Component</b>	<b>m</b>
<b>0541</b>	200 x 600 mm	\$ 21.00
	Medium Reinforcing	<u>3.00</u>
	Total Cost	<b>24.00</b>
<b>0542</b>	250 x 300 mm	20.00
	Medium Reinforcing	<u>3.00</u>
	Total Cost	<b>23.00</b>
<b>0543</b>	250 x 350 mm	21.00
	Medium Reinforcing	<u>3.00</u>
	Total Cost	<b>24.00</b>
<b>0544</b>	250 x 400 mm	22.00
	Medium Reinforcing	<u>3.00</u>
	Total Cost	<b>25.00</b>
<b>0545</b>	250 x 450 mm	23.00
	Medium Reinforcing	<u>3.00</u>
	Total Cost	<b>26.00</b>
<b>0546</b>	250 x 500 mm	24.50
	Medium Reinforcing	<u>3.00</u>
	Total Cost	<b>27.50</b>
<b>0547</b>	250 x 550 mm	25.50
	Medium Reinforcing	<u>3.00</u>
	Total Cost	<b>28.50</b>
<b>0548</b>	250 x 600 mm	26.50
	Medium Reinforcing	<u>3.00</u>
	Total Cost	<b>29.50</b>
<b>0549</b>	300 x 300 mm	24.00
	Medium Reinforcing	<u>3.00</u>
	Total Cost	<b>27.00</b>
<b>0550</b>	300 x 350 mm	25.50
	Medium Reinforcing	<u>3.00</u>
	Total Cost	<b>28.50</b>
<b>0551</b>	300 x 400 mm	26.50
	Medium Reinforcing	<u>3.00</u>
	Total Cost	<b>29.50</b>
<b>0552</b>	300 x 450 mm	28.00
	Medium Reinforcing	<u>3.00</u>
	Total Cost	<b>31.00</b>
<b>0553</b>	300 x 500 mm	29.00
	Medium Reinforcing	<u>3.00</u>
	Total Cost	<b>32.00</b>

**5.900.050 CONCRETE STRIP FOOTINGS - CONT'D**

<b>Code</b>	<b>Component</b>	<b>m</b>
<b>0554</b>	300 x 550 mm Medium Reinforcing Total Cost	\$ 30.50 <u>3.00</u> <b>33.50</b>
<b>0555</b>	300 x 600 mm Medium Reinforcing Total Cost	32.00 <u>3.00</u> <b>35.00</b>
<b>0556</b>	250 x 300 mm Heavy Reinforcing Total Cost	20.00 <u>5.90</u> <b>25.90</b>
<b>0557</b>	250 x 350 mm Heavy Reinforcing Total Cost	21.00 <u>5.90</u> <b>26.90</b>
<b>0558</b>	250 x 400 mm Heavy Reinforcing Total Cost	22.00 <u>5.90</u> <b>27.90</b>
<b>0559</b>	250 x 450 mm Heavy Reinforcing Total Cost	23.00 <u>5.90</u> <b>28.90</b>
<b>0560</b>	250 x 500 mm Heavy Reinforcing Total Cost	24.50 <u>5.90</u> <b>30.40</b>
<b>0561</b>	250 x 550 mm Heavy Reinforcing Total Cost	25.50 <u>5.90</u> <b>31.40</b>
<b>0562</b>	250 x 600 mm Heavy Reinforcing Total Cost	26.50 <u>5.90</u> <b>32.40</b>
<b>0563</b>	300 x 300 mm Heavy Reinforcing Total Cost	24.00 <u>5.90</u> <b>29.90</b>
<b>0564</b>	300 x 350 mm Heavy Reinforcing Total Cost	25.50 <u>5.90</u> <b>31.40</b>
<b>0565</b>	300 x 400 mm Heavy Reinforcing Total Cost	26.50 <u>5.90</u> <b>32.40</b>
<b>0566</b>	300 x 450 mm Heavy Reinforcing Total Cost	28.00 <u>5.90</u> <b>33.90</b>