

Take off

Innovation Matrix

Foundation cont'd

In-situ concrete ready mixed
designated concrete; C7.5 - 40mm
aggregate

197.00

0.7

0.45

62.055

m³

Piling

Inside columns 2 piles per column
outside columns 3 piles per column

2

Outside columns 22 nr

~~22~~ 3

66

Inside columns

14/2

28

66

28

94 nr

Excavated material + concrete

.450 diameter of pile required

20.00 depth of pile

$\pi r^2 \times 20$

$\pi / 0.225^2 / 20$

= 3.1809

Take off Innovation Matrix

X Foundation

Excavation.

0.75 depth

0.7 trench width

0.10.150 wall width

0.7

0.150

2/0.55

foundation spread 2.75mm

SW Preparation B

72000 2/150 26200

300 2/150 300

550 2/275 550

72850

27050

Mean Girth

72000

26200

2/98200

196400

4/2/1/150

600

Centre line of trench 197000

197000

0.750

0.70

103.425

Excavation commencing

\$

ms Disposal of excavated material.

Piling cont'd
Concrete required + material
to be disposed

3.108

94

298.995 m³

✓

62.055

298.995

+ Concrete required

361.05

m³

+

+ Material to be carted off site

298.995

103.425

402.42

m³

+

+ SUPERSTRUCTURE
Frame of Building

WIDTH OF BUILDING

8600

9000

8600

26200

Frame of Building cont'd

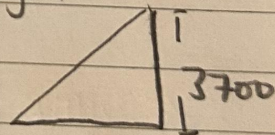
Length

9000
 9000
 9000
 9000
 9000
 9000
 9000
 9000
 9000
9000
 72000

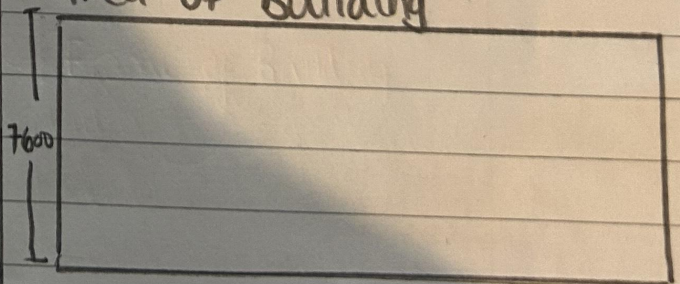
Height to roof

3800
 3800
7600

Apex height



Area of Building



72000

(2 times both sides of Building)

2

72000

7600

1094.4

$$\begin{array}{r}
 2 \\
 26200 \\
 \hline
 7600 \\
 \hline
 398.24
 \end{array}$$

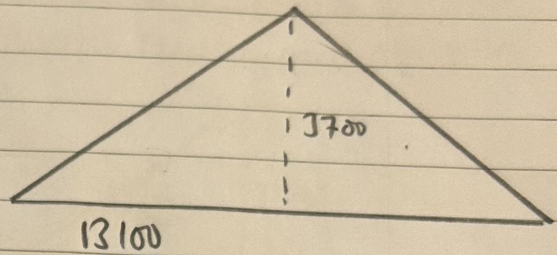
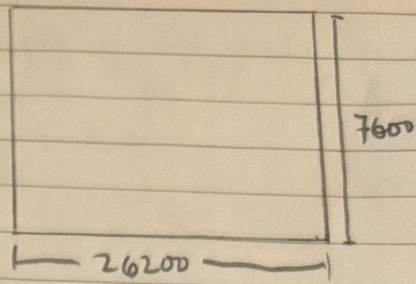
$$\begin{array}{r}
 2\frac{1}{2} \\
 13100 \\
 \hline
 3700 \\
 \hline
 48.47
 \end{array}$$

$$\begin{array}{r}
 2\frac{1}{2} \\
 13100 \\
 \hline
 3700 \\
 \hline
 48.47
 \end{array}$$

$$\begin{array}{r}
 1094.4 \\
 398.24 \\
 48.47 \\
 48.47 \\
 \hline
 1589.58
 \end{array}$$

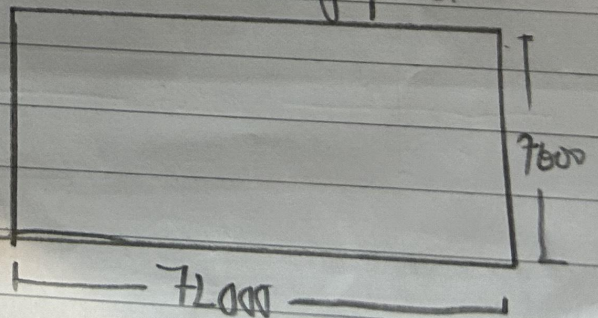
$$\begin{array}{r}
 2 \\
 72000 \\
 \hline
 7600 \\
 \hline
 1094.4
 \end{array}$$

Frame of Building cont'd



Area of Building

Walls - (East and west elevations)
 01. Metal Cladding panel.

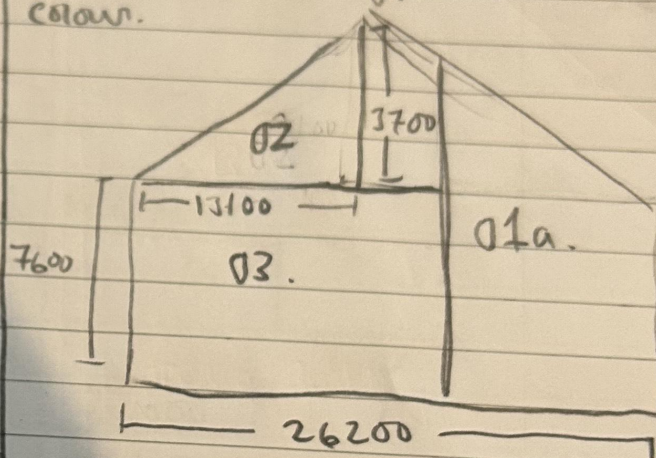


Walls cont'd

Deduction of 48 gaps

48		7.2
8.04	7200	1.2
<u>414.72</u>	1200	<u>8.64</u>
1094.4		
(414.72)		
<u>679.68</u>		

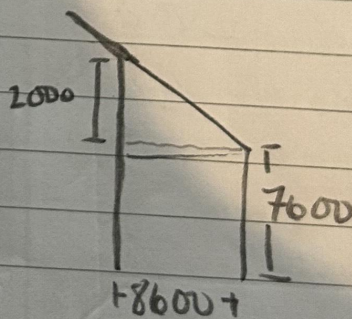
Primary entrance. (South Elevation)
01a. Metal Cladding panel alternative colour.



1/2	
2000	
<u>8600</u>	
	<u>8.6</u>

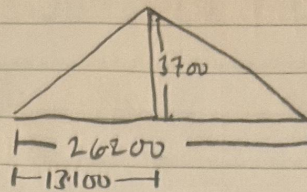
7600	
<u>8600</u>	
	<u>65.36</u>

8.6	
<u>65.36</u>	
<u>73.96</u>	



Walls cont'd

02. Transparent Cladding panel.



$2\frac{1}{2}$

3700

13100

48.475

3700

13100

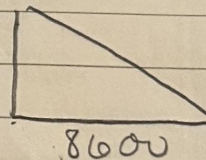
0.5

24.235 (10)

48.475

Deduction

2000



8600

2.000

8.600

0.5

8.6

48.475

(8.6)

03.

39.875

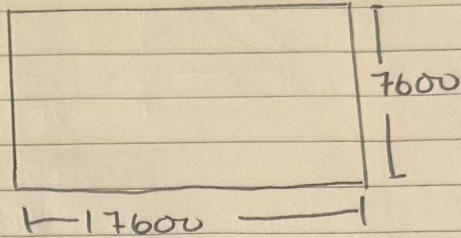
03. Integrated Window System

8600

9000 +

17600

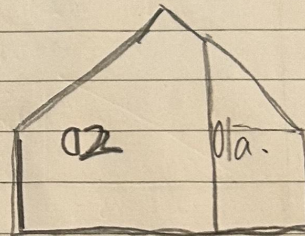
Walls cont'd
 primary entrance
 03. Integrated window system.



7600
 17600

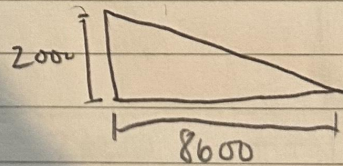
133.76

Secondary entrance (North elevation)
 01a. Metal cladding panel.
 alternative colour.



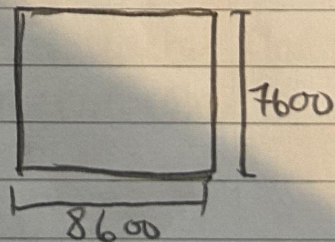
$\frac{1}{2}$ 2000
 8600

8.600



7600
 8600

65.36

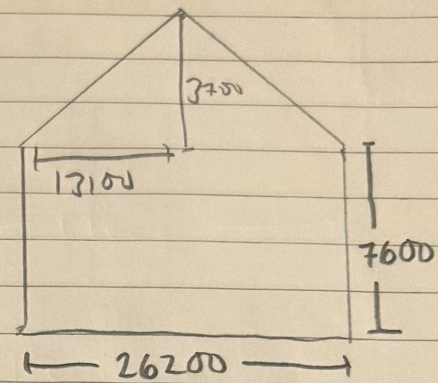


8.6

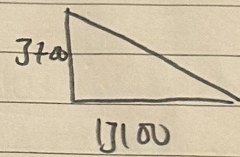
65.36

73.96

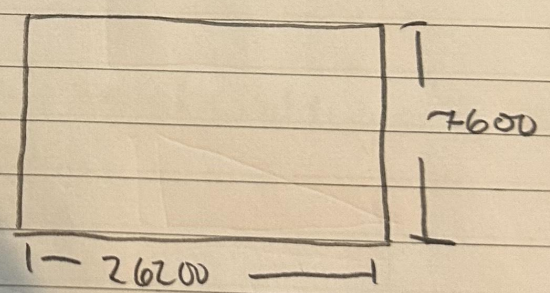
Walls cont'd
 Secondary Entrance (South Elevation)
 02. Transparent cladding panel.



$$2\frac{1}{2} \begin{array}{r} 3700 \\ 13100 \\ \hline \end{array} \quad \underline{48.47}$$



$$\begin{array}{r} 7600 \\ 26200 \\ \hline \end{array} \quad \underline{\underline{199.12}}$$



Deduction of Metal Cladding panel alternative colour.

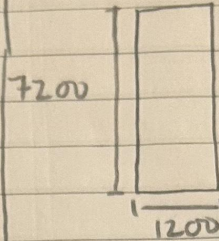
$$\begin{array}{r} 48.47 \\ 199.12 \\ (73.96) \\ \hline \underline{\underline{173.63}} \end{array}$$

$$73.96 = 01a.$$

Walls cont'd
 East and West Elevation
 03. Integrated window system.
 24 + 24
48.

48
 7200
1200

414.72



Totals
 01a. Metal cladding panel.
 679.68

679.68

01a. Metal cladding panel alternative
 color.

77.96

77.96

77.96

77.96

147.92

02. Transparent cladding
 39.875

39.875

177.63

177.63

213.51

03. Integrated window systems

414.72

414.72

133.76

133.76

548.48