

Fabrication of cage

Quantity: 80 pieces

Material:

1. Main Frame (Square Hollow Section (SHS)): **50 x 50 x T4.5mm**
2. Secondary Frame (SHS): **40 x 40 x T4mm**
3. Flip Door Frame: **40 x 40 x T4mm + Mild Steel Plate (3mm thickness)** welded to internal of Flip Door Frame
4. Base plate: Mild Steel Plate (3mm thickness)



Secondary Frame (SHS): **40 x 40 x T4mm**

Main Frame (Square Hollow Section (SHS)): **50 x 50 x T4.5mm**

Flip Door Frame: **40 x 40 x T4mm + Mild Steel Plate (3mm thickness)** welded to internal of Flip Door Frame

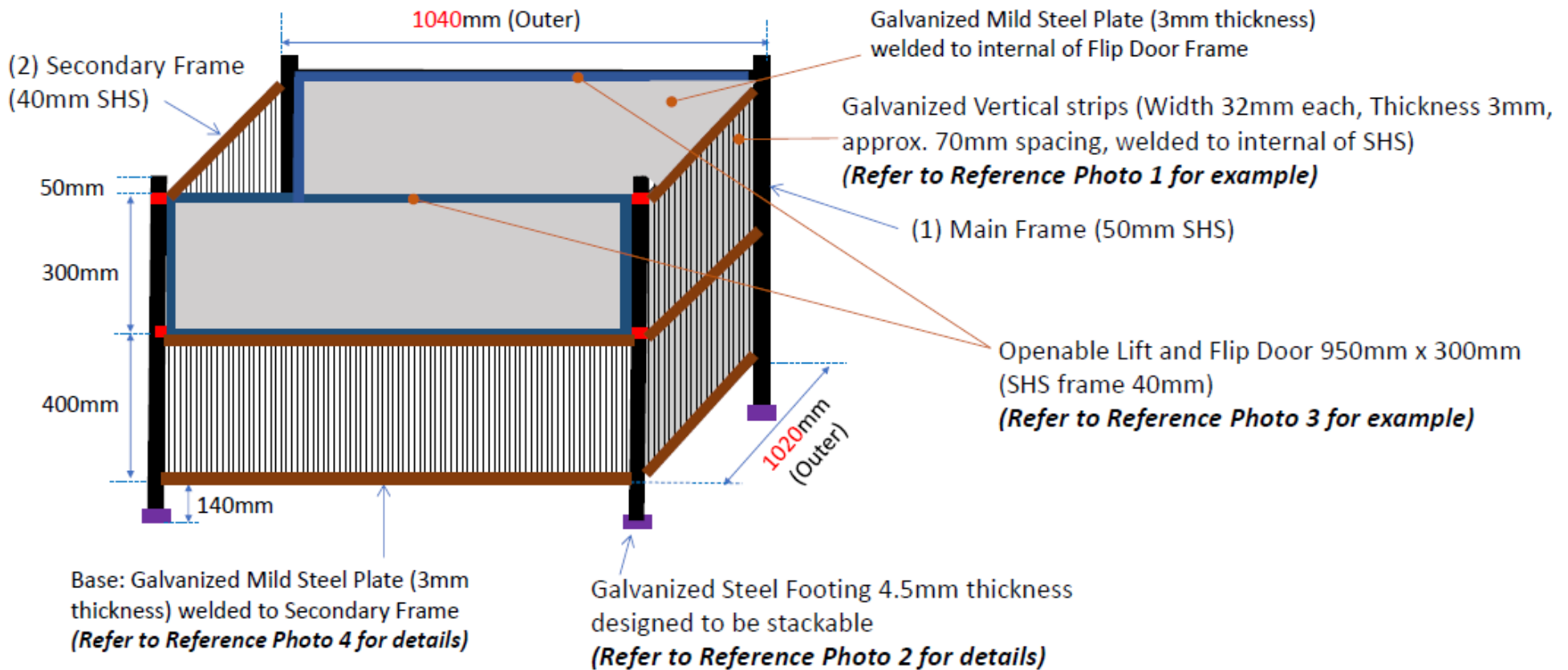
Base plate: Mild Steel Plate (3mm thickness)

Please note:

The cage to be fabricated using mild steel then the entire cage to be hot dip galvanized once welding is completed

ANNEX A: Cube Cage (for 100mm cubes)



Note: Drawing is not to scale



Specs:

- (1) Main Frame (Square Hollow Section (SHS)): **50 x 50 x T4.5mm**
- (2) Secondary Frame (SHS): **40 x 40 x T4mm**
- (3) All materials to be Hot-Dip Galvanized.

Legend:

-  50mm SHS
-  40mm SHS

Please note:

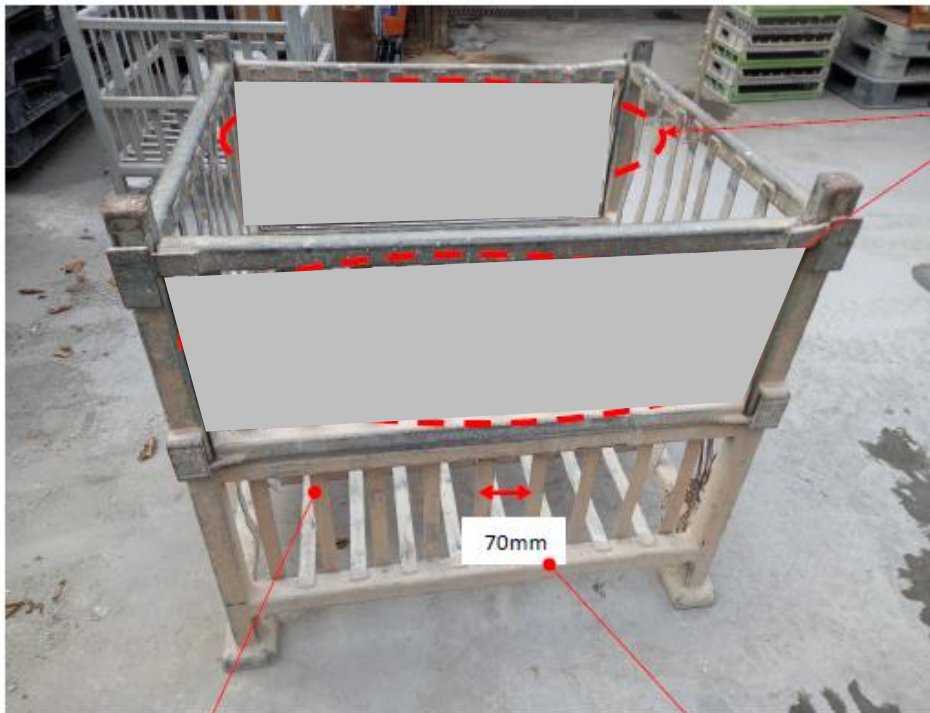
There are 2 Flip Door Frames per cage (see video for illustration)

Cube Cage (continue)

Note: Drawing is not to scale

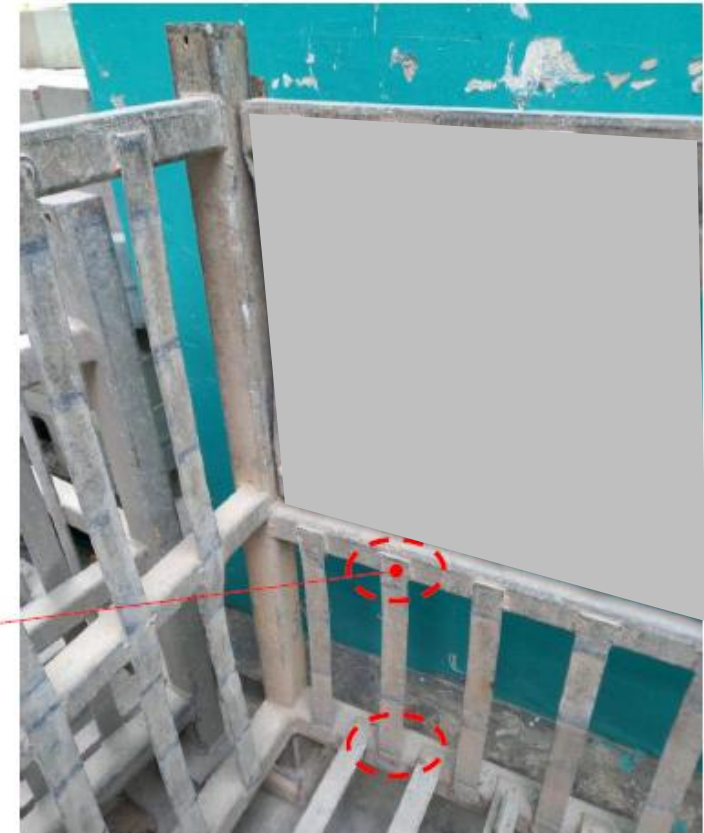
Reference Photo 1: Galvanized Flip Door Plate and Vertical Strips

Note: Photo of existing cage for illustration purpose, refer to page 1 for actual details.



New Design shall be Galvanized Mild Steel Plate (3mm thickness) welded to internal of Flip Door Frame

All Vertical strips to be welded at inner dimension of SHS



Vertical Strips 30mm width

Vertical Strips Spacing approx. 70mm

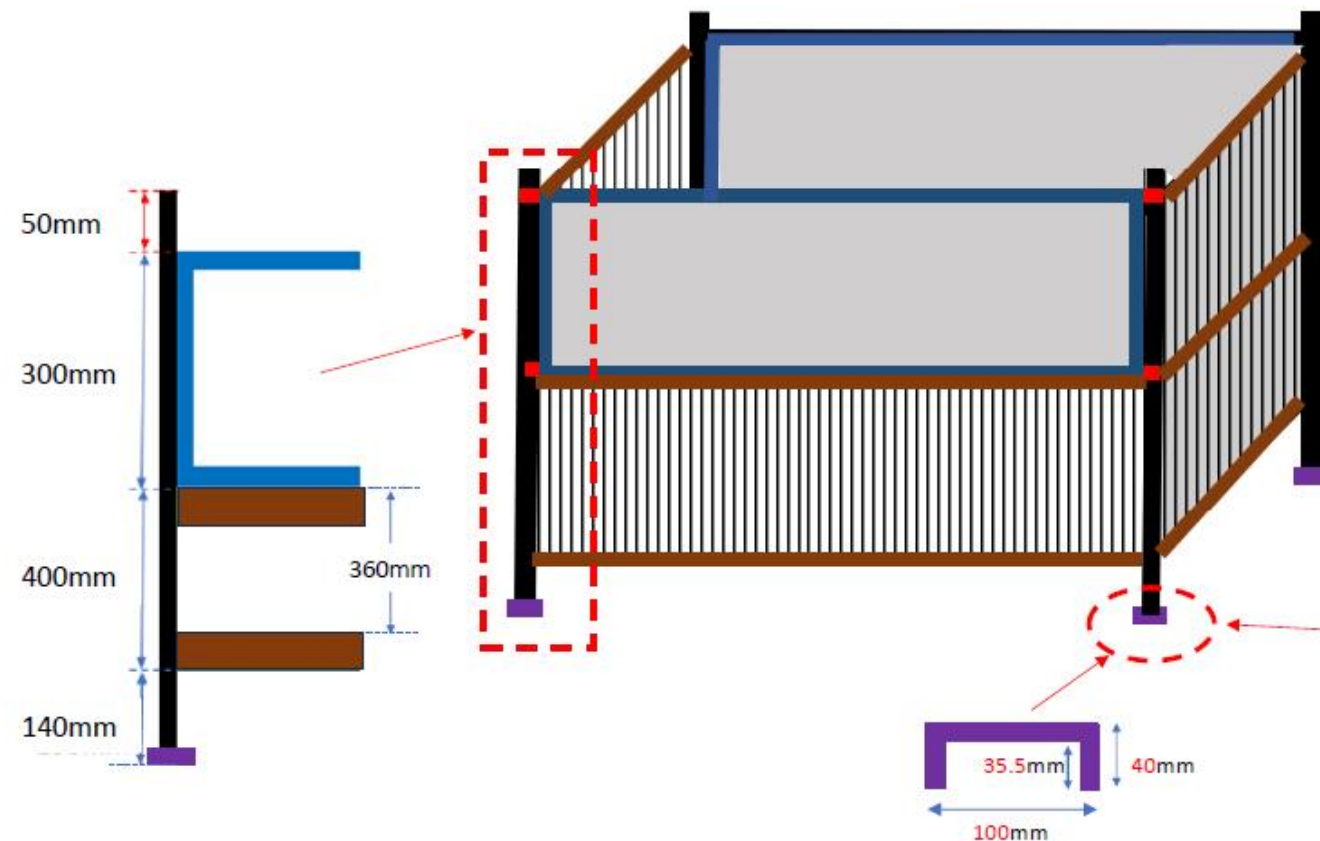
Please note:

Footings are designed to be stackable (see video for illustration)

Cube Cage (continue)

Note: Drawing is not to scale

Reference Photo 2: Measurement Details and Example of Existing stackable cube cages



Footing Details

Note: Photo of existing cage for illustration purpose, refer to page 1 for actual details.



Reference Photo for Stackable Cages

Please note:

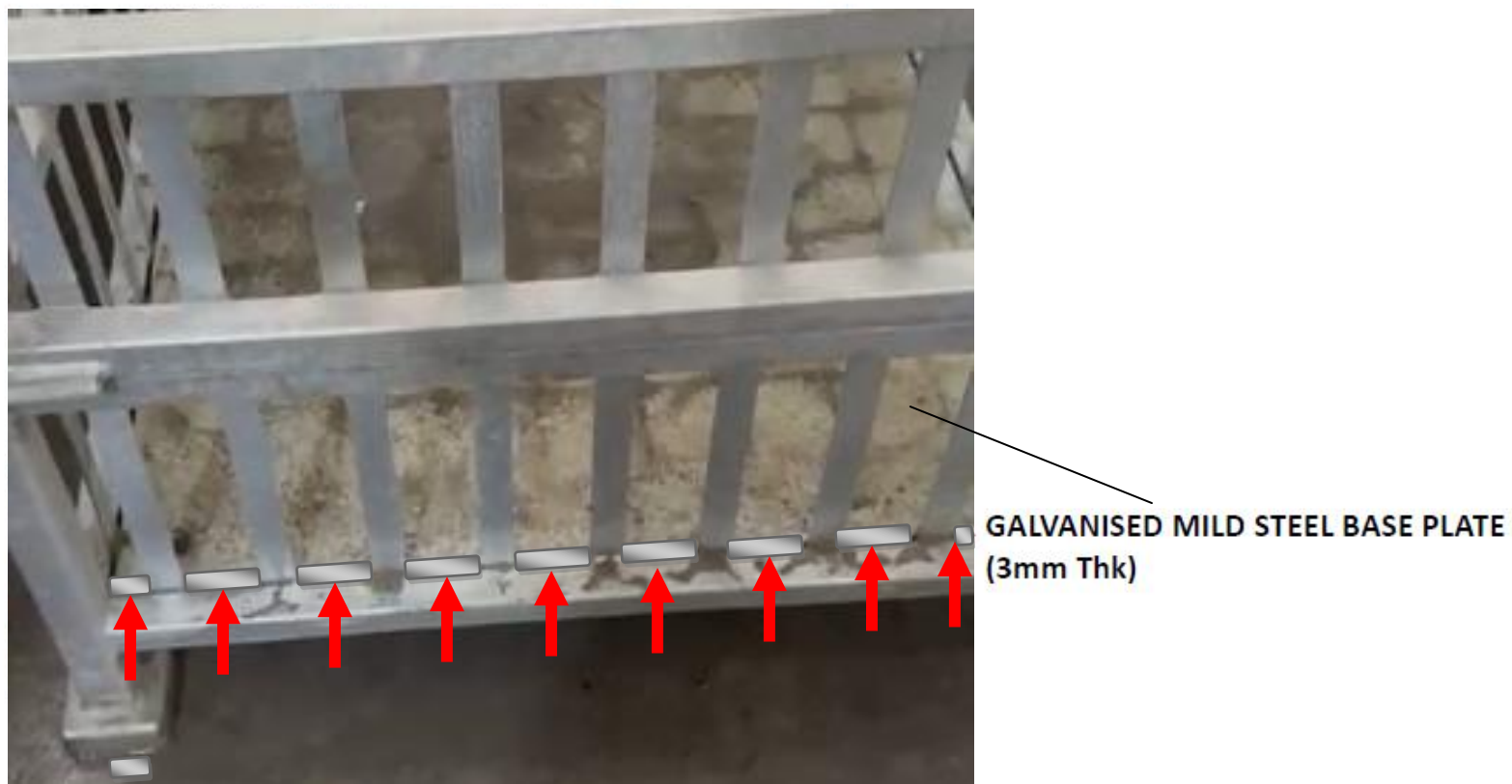
Welding to be applied for entire joint between Base Plate and Secondary Frame

Cube Cage (continue)

Note: Drawing is not to scale

Reference Photo 4: Illustration of Galvanized Mild Steel Base Plate welded to Secondary Frame

Note: Photo of existing cage for illustration purpose, refer to page 1 for actual details.



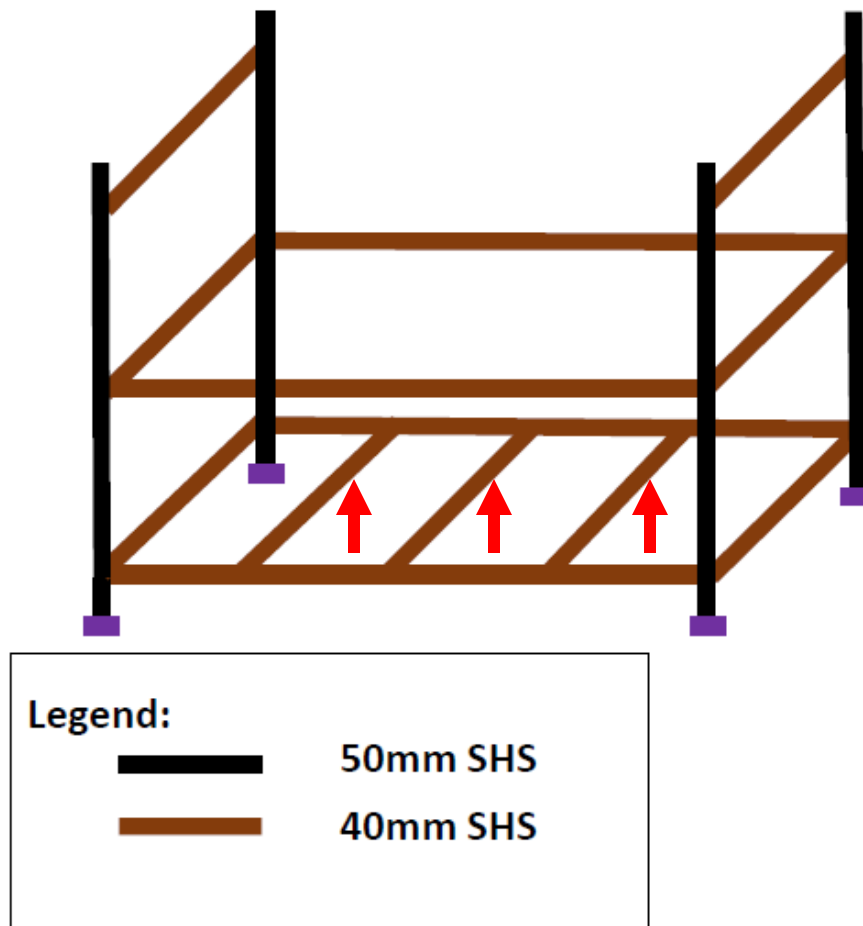
Please note:

There are also 3 Secondary Frame (SHS): 40 x 40 x T4mm to support base plate

Frame Details

Note: Drawing is not to scale

Cube Cage



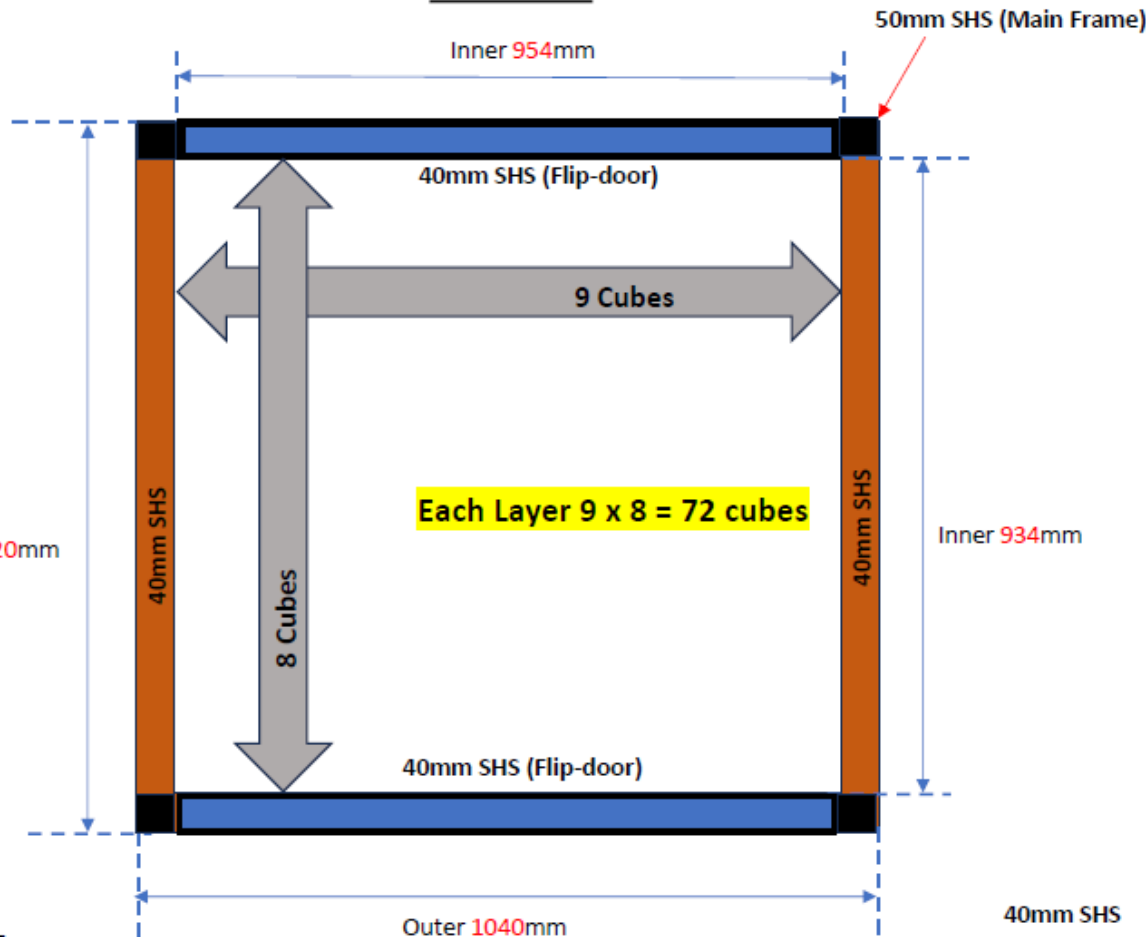
Please note:

The cage must be able to hold load of 504 cubes (1.2 tonne)

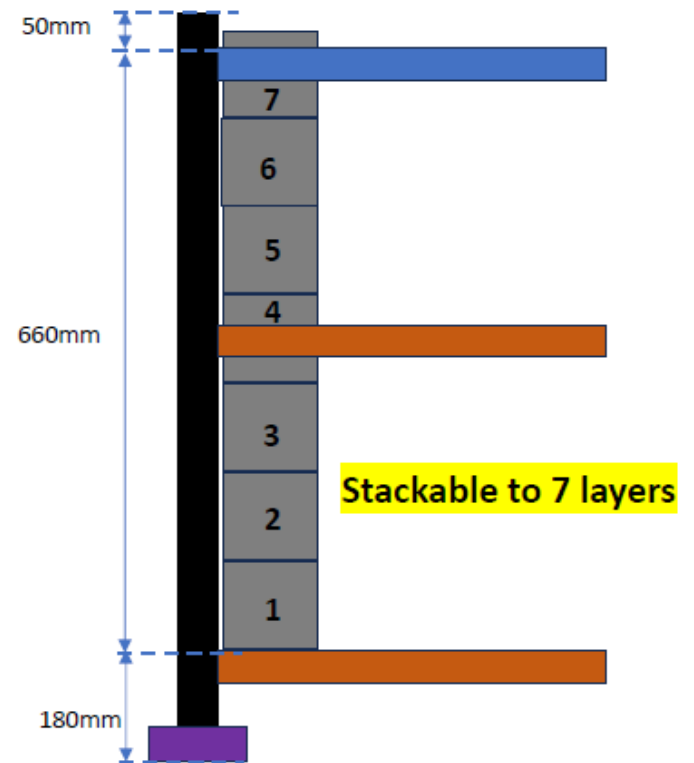
New Cage Capacity: $9 \times 8 \times 7 = 504$ cubes

Note: Drawing is not to scale

Plan View



Side View



40mm SHS