

INTRODUCTION

be provided when span exceeds the following; positive locking and long term stability. Suspension system shall formed insulated panels. These are provided with camlocks for warehouse coldstore is constructed on site from precision

6.5m for 150mm thk panels.

5.0m for 100mm thk panels

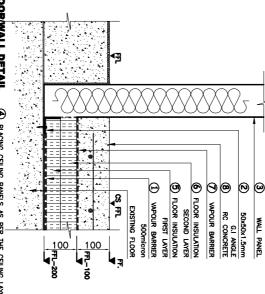
4.0m for 80mm thk panels.

3.5m for 50mm thk panels

PREPARATION

joining methods and seals. Prior to the commencement of works, familiarise yourself with

FLOOR/WALL **JOINING METHODS AND SEALS**



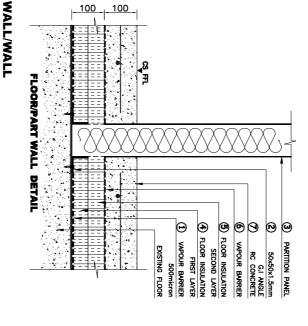
- FLOOR/WALL DETAIL 4 PLACING CEILING PANELS AS PER THE CEILING LAYOUT
- Make sure that the concrete floor is smooth and levelled. It is concrete floor using brush advisable to pour Bitumen and spread it uniformly on the
- 2. Put the Poly Ethelene sheet on top of this levelled concrete around the inner perimeter of the required coldroom. It can be floor. Then fix the 50x50x1.5mm G.I Angle on the conc floor fixed either be Fischer plug & screw or by Hilti Nail.
- 3. Then place the wall panel around the perimeter of the coldroom. Ensure that the wall panel is rigid and stable in it's wall panel tightly. position. G.I Angle should be fixed in such a way to hold the

100

WALL/WALL DETAIL

- 4. Start lying the ceiling panels as per the ceiling panel layout and start lock them together.
- ĊΊ performance, it should be laid staggered in different Then put the first layer of 50mm Thk floor insulation. For best directions.
- Then put the second layer of 50mm Thk floor insulation.
- Then spread the Poly Ethelene sheet on top of the Floor penetration of moisture. Insulation layer. Make sure that there is no way fro the
- φ are designed based on 100mm thk final concrete. concrete recommended is 100mm since our door openings Then pour the final concrete. Maximum thickness of the
- ဖွ Final coldroom floor finish may be either tiles or others depends on the Client's requirement.

FLOOR/PARTITION

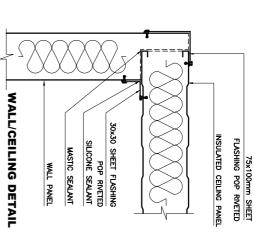


WALL/CEILING

2. Position and lock wall panels

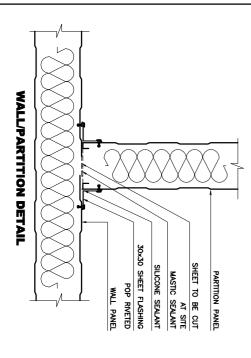
shown in fig.

Arbomast shall be applied between the tongue & groove as



- Apply Arbomast sealant on the top perimeter of the wall
- 2. Position the ceiling panel.3. Proceed with camlock the ceiling panel together.

WALL/PARTITION



WALL PANEL

ARBOMAST CAMLOCK

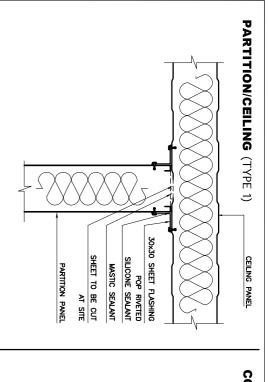
SILICONE

100

WALL/WALL CORNER DETAIL
[REST OF THE CORNERS]

SHEET FLASHING WALL PANEL

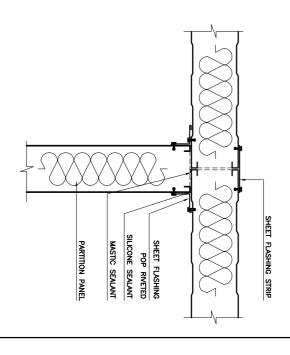
WALL PANEL

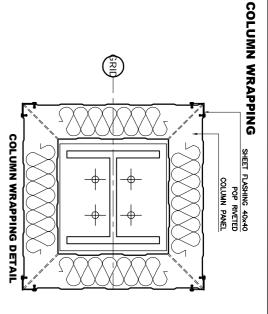


CEILING/PARTITION DETAIL

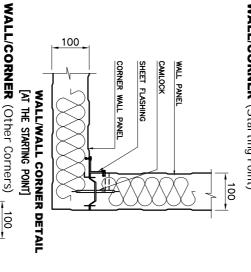
- 1. Apply Arbomast sealant on the top perimeter of the partition
- 2. Position the ceiling panel.3. Sheet in the ceiling panel above the partition wall panel to be cut at site to avoid thermal conductivity.

PARTITION/CEILING (TYPE 2)

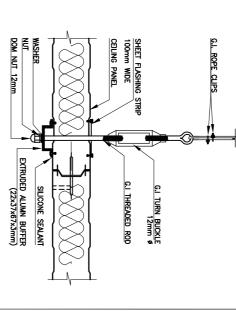




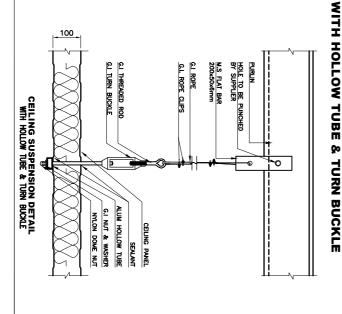
WALL/CORNER (Starting Point)



WITH BUFFER & TURN BUCKLE



CEILING SUSPENSION DETAIL WITH ALUMN BUFFER

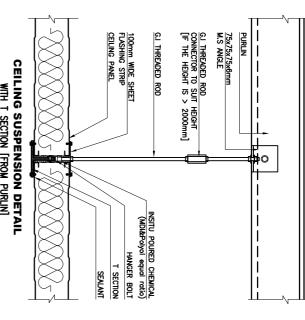


following: 4.0m for 80mm thk panels. 3.5m for 50mm thk panels. 5.0m for 100mm thk panels 6.5m for 150mm thk panels

Suspension system shall be provided when span exceeds the

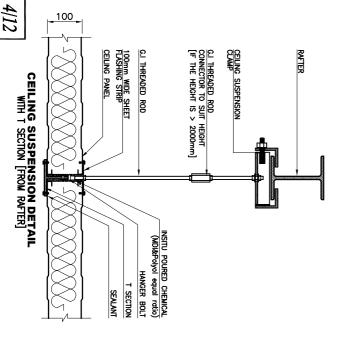
CEILING SUSPENSION ASSEMBLY

WITH T SECTION (FROM PURLIN)

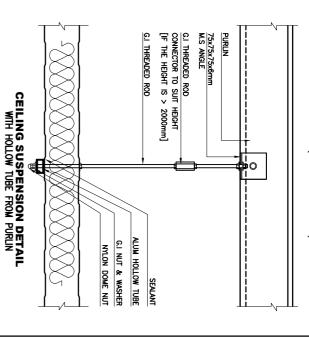


WITH T SECTION [FROM PURLIN]

WITH T SECTION (FROM RAFTER)



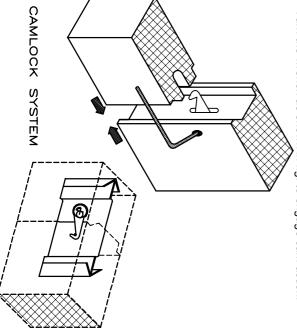
WITH HOLLOW TUBE (FROM PURLIN)



CAMLOCK SYSTEM

tight joints. G.I Camlocks. It's tongue & groove mechanism ensures air SCO's coldstore panels are locked together using 'KASON'

- 1. Insert the hexagonal locking wrench in it's lock hole making sure it is fully engaged.
- 2. Turn the wrench as shown in fig. to engage cam action

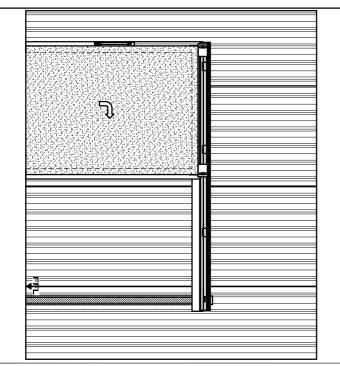


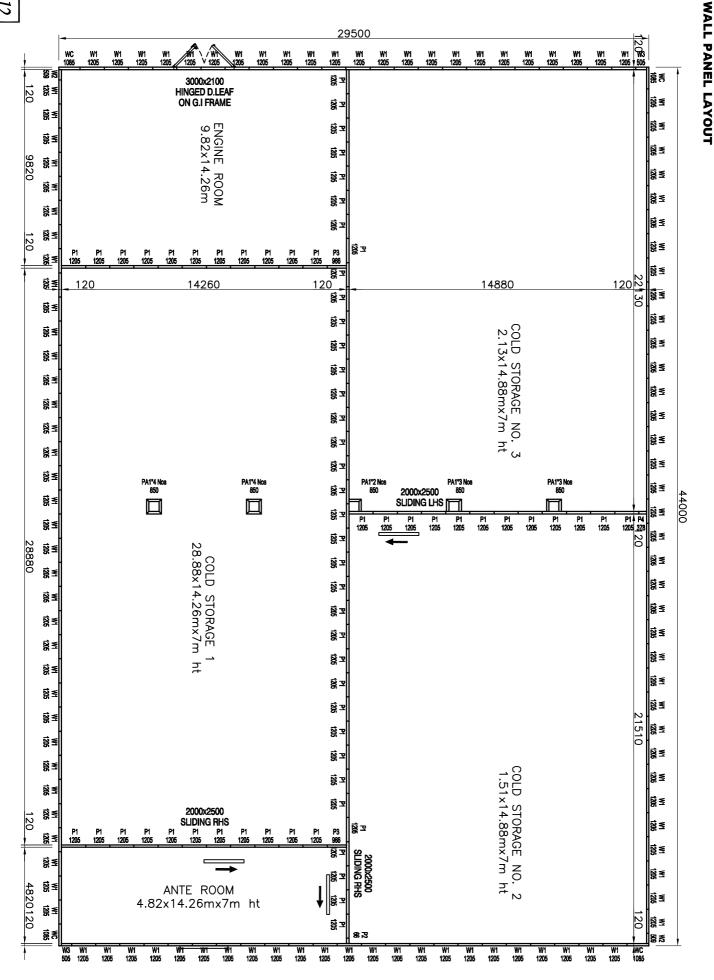
SLIDING DOORS

CAMLOCK SYSTEM

pre-hung and adjusted in the factory. Freezer application accessories will be mainly of Dan-doors, Denmark and ready for mounting on their brackets. They have been ie. door lock with safety release handle, gasket, heater wire requirements. Doors are supplied with complete accessories leaf & double leaf doors, according to the client's SCO can provide all sorts of doors ie. manual, electric, single relief valves have to be fixed at the site only. Door doors are provided with heater on the door leaf also. Pressure

ELEVATION SINGLE LEAF MANUAL SLIDING DOOR





CEILING PANEL LAYOUT

															. —	-										
C2 - 0438 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4975	====C1=1205x4375====	C1 - 1205 x 4375	4375 2												
C2-0438 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	=== :C =:1205	C1 - 1205 x 4375	20 4375 2												
C2 - 0438 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	 C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1206 x 4375	 C1 - 1205 x 4375 	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	IC1 - 1205 x 4375	=== ¢ 1=1 205x4375 ====	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1206 x 4375	C1 - 1205 x 4375	20 4375 2	T SECTION SUSPENSION								
C2-0438 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	=== C1-1205 x4375 ====	C1 - 1205 x 4375	20 4375 2												
C2-0438 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	=== C1-1205 x4375 ====	C1 - 1205 x 4375	20 4375 2	439											
C2-0438 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	======================================	C1 - 1205 x 4375	20 4375 2	43930											
C2-0438 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	=== -C f=1205x 437 5 ====	C1 - 1205 x 4375	20 4375 2												
C2-0438 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	=== C1=1205×4375====	C1 - 1205 x 4375	C1-1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	20 4375 2				
C2 - 0438 x 4375	C1 - 1205 x 4975	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	===C1 =205 x 4375== -	C1 - 1205 x 4375	20 4375 2												
C2 - 0438 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	C1 - 1205 x 4375	=== C1-1206 x4375====	C1 - 1205 x 4375	20 4375												

FLOOR CONSTRUCTION & WALL PANELS

Make sure that the concrete floor is smooth and levelled. It is advisable to pour bitumen and spread it uniformly on the concrete floor using brush.

Put the Poly Ethylene sheet on top of this levelled concrete floor. Then fix the 50x50x1.5mm G.I angle on the conc floor around the inner perimeter of the required coldroom. It can be fixed either by Fischer plug or by Hilti Nail.

Then place the wall panel around the perimeter of the coldroom. To begin with place the corner wall panel CW in position and then place the wall panel W1 next to CW and start lock them together. Ensure that the wall panel is rigid and stable in it's position. G.I Angle should be fixed in such a way to hold the wall panel tightly.

Continue laying wall panels and lock together. Except the first corner, all the other corners to be cut & suit at site according to the space available.

Start laying the ceiling panels as per the ceiling panel layout and start lock them together. Then put the first layer of 50mm thk floor insulation. For best performancem, it should be laid staggered in different directions.

Then put the second layer of 50mm thk floor insulation.

Then spread the Poly ethylene sheet on top of the Floor insulation layer. Make sure that there is no way for the penetration of moisture.

Then pour the final concrete. Maximum thickness of the concrete recommended is 100mm since our door openings are based on 100mm thk final concrete.

Final room floor finish may be either tiles or others depends on the Client's requirement. For a complete detail, please refer to the following drawings.

CEILING ASSEMBLY

Working from the panel layout drawing, fix the Ceiling Suspension line at the required locations as shown in the drawing. Then select the ceiling panel C1. Lay in it's exact position. Place panel C2 in position. Lock the panels together assuring that the top and bottom edges are flush.

Continue until the whole ceiling is in position. Closing ceiling panels to be cut & suit at site.

CAPPING LOCK HOLES

Insert the plastic caps provided in the camlock holes and in with the shaft of a hammer. Ensure tight and flush fitting

CLEANING

The finished coldstore should be cleaned thoroughly before loading. We recommend thinner or petrol applied with a soft cloth.

FLASHINGS

External and Internal joints are covered by flashings to improve the appearance of the coldstore.

The joint between the nanel and flashing shall be sealed by special white silicone.

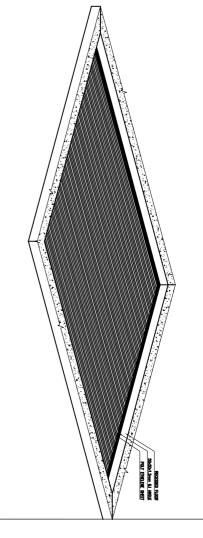
The joint between the panel and flashing shall be sealed by special white silicone. External joints at the ceiling suspension line shall be covered with a 100mm wide flat strip made

of the same cladding material. This to be riveted with the ceiling panel and the joints to be

properly sealed.

Some of the drawings showing the erection sequence are shown below for your reference

LAYING POLY ETHELENE SHEET & G.I ANGLE



LAYING WALL PANELS

