Cabinet Model Range:	Case Code Type:	Ref Number:	Date:	Rev:
Top Level Model – Half Glass Door Frozen Food	GC– Frozen Food	IM-007	27-10-20	01

Cabinet Range - GC

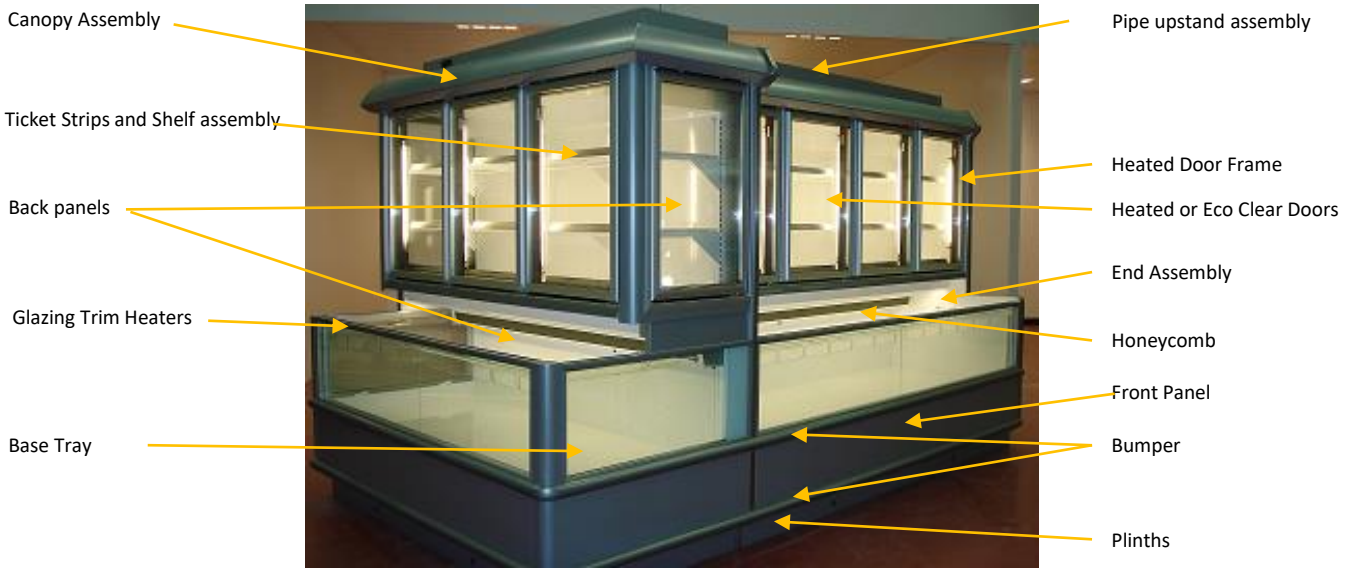
Installation Manual

General Inquiry Number 0121 250 1111

Cabinet Installation Manual

Case / Model No:Contents	Description:	SOP Number:	Date:	Rev:
Top Level Model; Half Glass Door Frozen Food	Contents	IM-007	29/10/2020	01

1 Cover Sheet & Index
2 Tools List
3 Cabinet Transport Methods
4 Packaging
5 Case Joint
6 Levelling
7 Multiplexing
8 Door Adjustment
9 Ends Fitment
10 Divider Kit
11 Profiling
12 Hoar Frost Kit
13 Glazing Capping & Weir Screen
14 Canopy Fitting
15 Pipe Upstands Fitting
16 Control Panel connection
17 Drainage
18 Plinth Fitting including sides



STANDARD OPERATING PROCEDURE

Cabinet Installation Manual

Case / Model No:	Description:	SOP Number:	Date:	Rev:
Generic	Installation Tools List	IM-007	20/10/2020	01

Cabinet Transport Method / Techniques

1.Transport dolly: Cabinet transport
2.Pump truck: Cabinet transport
3.Knife: Cabinet unwrapping
4.Roller crowbar: Cabinet setting
5.Level: Cabinet setting
6.10mm Wrench: Cabinet setting
7.12mm Wrench: Cabinet setting
8.3/8 Drive ratchet wrench: Cabinet setting
9.3/8 Drive 10mm socket: Cabinet setting
10.'C' Clamp: Cabinet setting
11.Battery operated drill: Canopy, end panel & fascia installation
12.1/8" Diameter drill bit: End panel installation
13.No. 2 Pozidrive screwdriver bit: End panel & deflector kit installation
14.PH2 Phillips screwdriver bit: Fascia installation
15.Terminal screwdriver (flat head): Glazed end trim heater wiring
16.Cable stripper : Glazed end trim heater wiring
17.10mm Hex nut runner: Canopy installation
18.2.5mm Hex Allen key: Canopy installation
19.Scissor jack: End panel installation
20.Silicon gun: End panel installation
21.Rubber mallet: Bumper installation
22.Tape measure: End panel, fascia & canopy installation
23.Pop Rivet Gun: Divider kit installation
24.PVC Pipe cutter: Drainage installation

Note:- All tools to be used by trained & competent people who must follow their company's method statements and risk assessments.

Cabinet Installation Manual

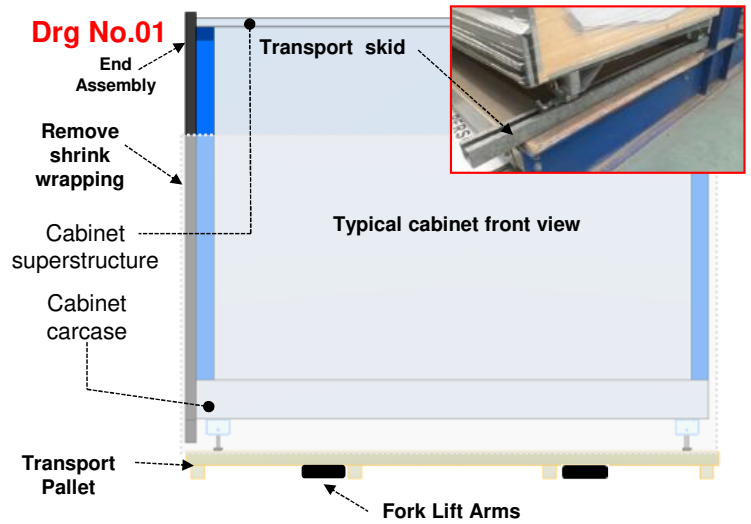
Case / Model No:	Description:	SOP Number:	Date:	Rev:
Generic	Cabinet Transport Methods	IM-007	26/10/2020	01

Cabinet Transport Method / Techniques

Depending on how the cabinet is presented, either fixed to the pallet base or fitted with skids - see drawing number 01, lift cabinet of the transport vehicle using correct lifting equipment. If lifting cabinet fitted with pallet, position lifting fork evenly on the underside of the pallet. If lifting the cabinet fitted with skids, please ensure the lifting forks DO NOT damage the control unit gear tray mounting brackets and the 'P' trap drain when positioned on the underside of the carcase assembly. See drawing number 02.
With the cabinet taken off the transport vehicle. For SKIDS lower the fork height approximately 1.3m from ground level and remove the skids form the cabinet foot assembly. For PALLET lower the cabinet to ground level and disconnect the pallet assembly from cabinet foot assembly.

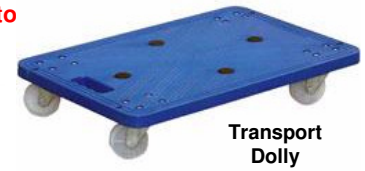
Then lower cabinet onto transport dolly's or leg dolly's positioned at each corner or end of the cabinet see drawing number 03. Check store ingress clearance height. Transport cabinet/s to installation location. Using a pallet truck lift cabinet up to remove the dolly's. Remove the cabinet shrink wrap using a safety knife ,so preventing the panels from getting scratched.

Drg No.01



DO NOT used opened end blades to remove shrink wrapping.

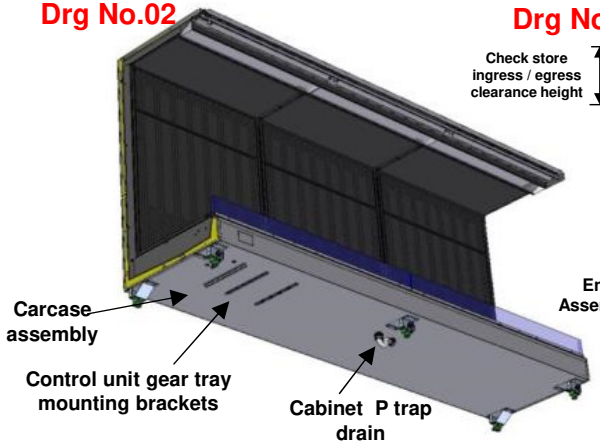
Used safety knife to remove shrink wrapping



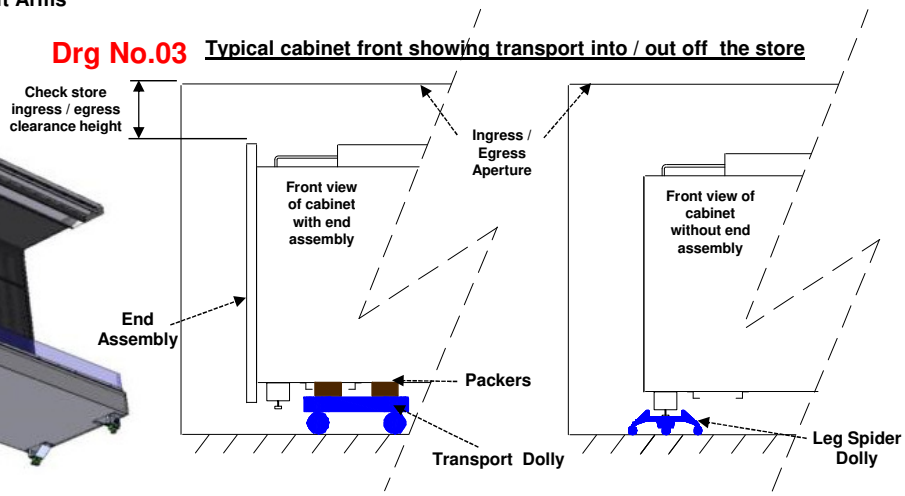
Transport Dolly

Leg Spider Dolly

Drg No.02



Drg No.03 Typical cabinet front showing transport into / out off the store



STANDARD OPERATING PROCEDURE

Cabinet Installation Manual

Case / Model No:	Description:	SOP Number:	Date:	Rev:
Half Glass Door	Shipping Packaging	IM-007	29/10/2020	02

Shipping Packaging

Stage 1 – Remove cabinet wrapping and protective polystyrene mouldings from the outside of the cabinet. Pic 1
Stage 2 - Temporary remove and store all loose parts located inside the cabinet to a location where parts can be stored free from damage. Pic 2.
Stage 3 – If applicable remove cabinet from pallets / wood frame
Stage 4 – For GC Cases Remove the transit brace from it's fixing points
Stage 5- For Integral Cases the Compressor Transit Bracket must be removed
Stage 6 - Remove shelf retaining clips or polystyrene blocks in preparation for multiplexing.

Note;
Items for disposal listed below are indicative and therefore not definitive. It must be ensured that all waste disposal process follow the on site guideline and that no waste is left on site or in a dangerous manor.
Where sites do not have waste disposal process available for the article listed below, these must be removed from site and disposed of in accordance with destinations regulations.

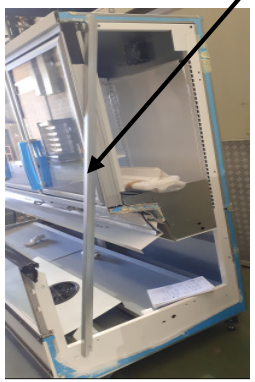
Items may include;
Plastic sheet / Bags
Bubble or foam wrap
Polystyrene
Wood
Mastic Cartridges
Foam Tape
Bumper and core
Screws / Nails
Metal work
Hard Plastic
Cable Ties
Rags
Cardboard
Paper

Picture 1
External wrapping

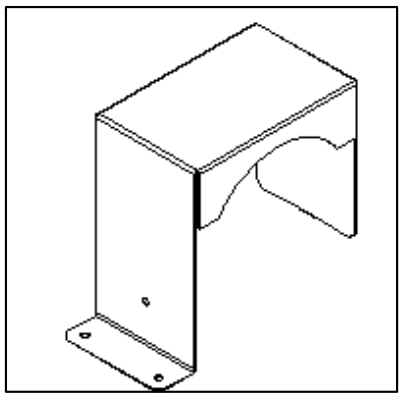
Picture 2
Loose Items

Picture 3
Pallets

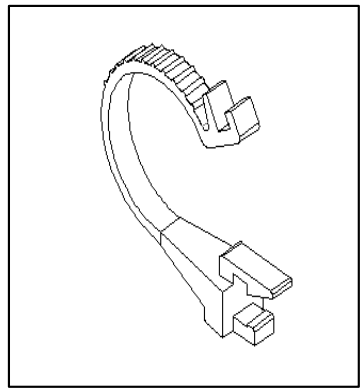
Picture 4
Transit Brace



Picture 5
Compressor Transit Bracket



Picture 6
Shelf Retaining Clip



STANDARD OPERATING PROCEDURE

Cabinet Installation Manual

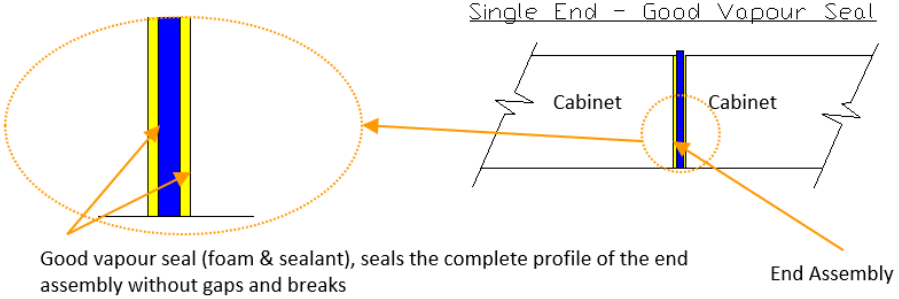
Case / Model No:	Description:	SOP Number:	Date:	Rev:
Half Glass Door Freezer	Cabinet Joint Sealing	IM-007	05/10/2020	01

Cabinet Joint Sealing

Stage 1 -Apply the seal to the end of the cabinet which comprises of foam sponge and silicone based sealant. Enough sealant needs to be applied so that it fills any gaps that might be there when the 2 surfaces are connected together.

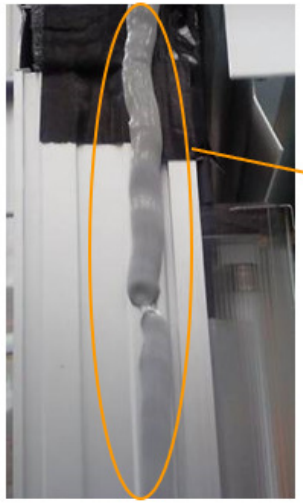
Note :If the vapour seal is fitted incorrectly with a gap, this will cause the refrigerated air to escape through the gap and hence cause condensation to occur on the exterior face of the cabinet

✓ **Scope of Work: (Picture) – Important:**



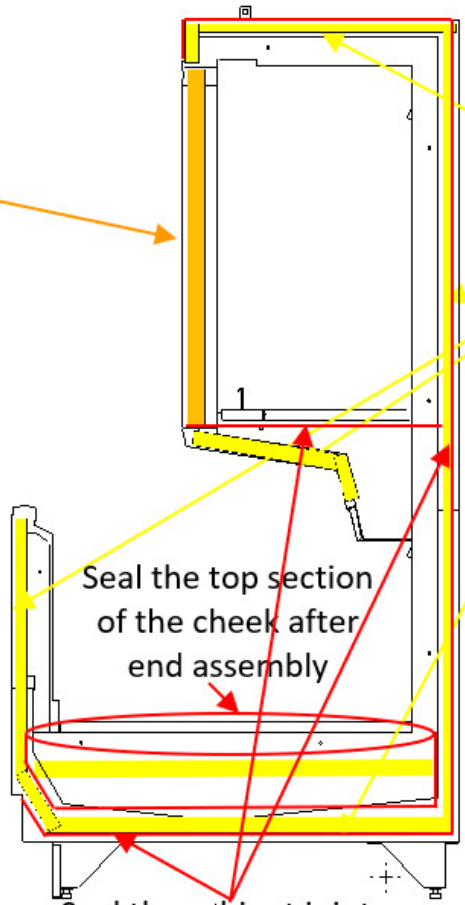
Good vapour seal (foam & sealant), seals the complete profile of the end assembly without gaps and breaks

Stage 1 – Fit seals



Orange marking
use sealant
Grey HA6 Bandit
RST silicone
Adhesive & sealant
Apply to door
Frame assemble

Use Clear Silicone
For case to case
& end wall seal



Yellow marking:

Use 19 x 12mm S/A Sponge Tape

Pt No. 0051027

Fit the sponge tape to the foamed s/ structure & carcase assembly, as shown in the picture above

STANDARD OPERATING PROCEDURE

Cabinet Installation Manual

Case / Model No:	Description:	SOP Number:	Date:	Rev:
Generic	Cabinet Levelling (Page 1 of 2)	IM-007	26/10/2020	01

Position the first - datum cabinet to the required installation position. Datum cabinet is the LHS cabinet configuration of the multiplex run. See drawing number 05.

With the LHS datum cabinet in position, set front foot assembly height to either 135 or 140mm. Measure the drainage pipework supplied to determine which height is required (135mm for 1 ¼ inch diameter drainage pipework & 1 ½ inch diameter drainage pipework). Please note the height measurement is taken from the underside of the carcase assembly and to the underside of and foot assembly. See drawing number 06 position 'A'.

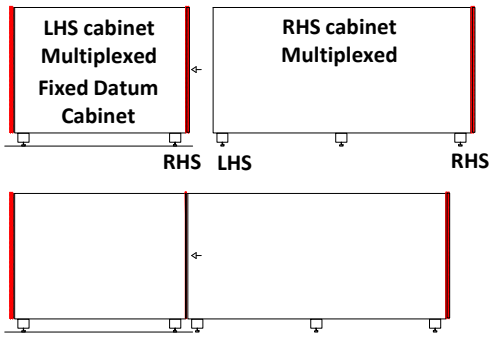
Place a tubular spirit level to the vertical end frame section – see drawing number 06 position 'B' and set the rear foot assembly height until the bubble within the level is centred between the two lines drawn on the spirit level vial.

Place a tubular spirit level onto the front panel– see drawing number 06 position 'C' and set the front foot assembly height at position 'E1' until the bubble within the level is centred between the two lines drawn on the spirit level vial. Check foot height measurement. Its must not drop below 130mm for 1 ¼ drain pipework and 135mm for 1 ½ drain pipework.. Were possible try to maintain the set height at position 'A'. This is all dependable how level the ground floor is. See drawing number 08.

Place a tubular spirit level to the vertical end frame section – see drawing number 06 position 'D' and set the rear foot assembly height until the bubble within the level is centred between the two lines drawn on the spirit level vial. See drawing number 07

Start to multiplex the cabinets together . Position RHS cabinet against the datum cabinet.

Drg No.05



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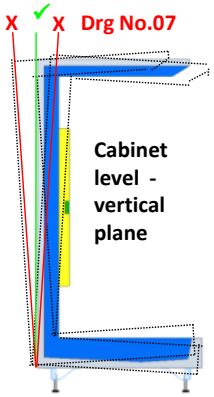
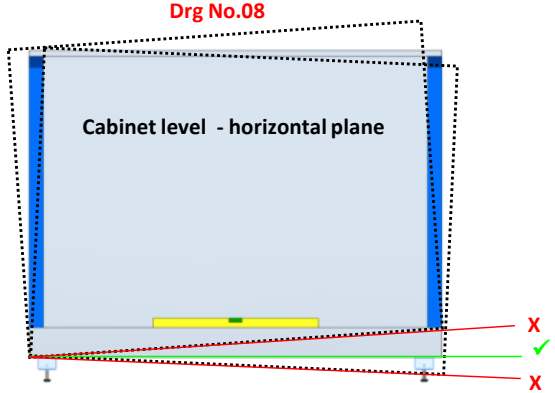
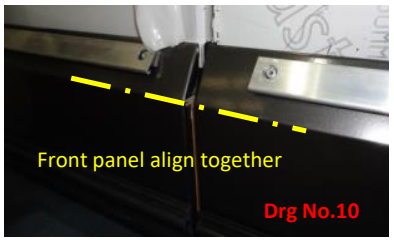


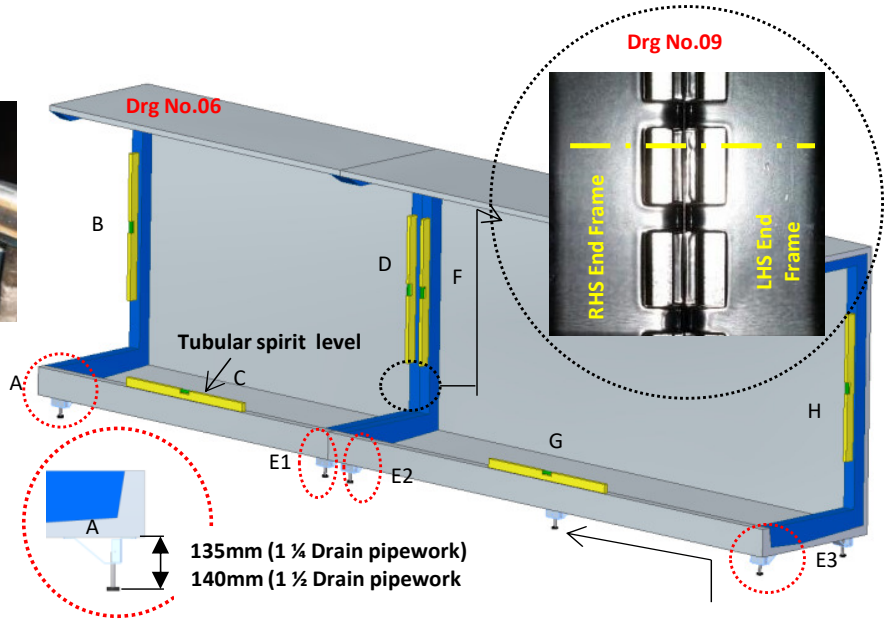
Drg No.08





Drg No.06

Drg No.09



Cabinet Installation Manual

Case / Model No:	Description:	SOP Number:	Date:	Rev:
Generic	Cabinet Levelling (Page 2 of 2)	IM-007	26/10/2020	01

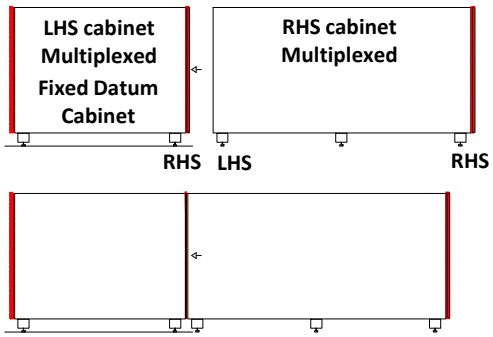
Set the front foot assembly height at position 'E2' , so the front panel from the RHS cabinet is aligned with the front panel on the LHS datum cabinet. See drawing number 06.

Place a tubular spirit level to the vertical end frame section – see drawing number 06 position 'F' and set the rear foot assembly height until the bubble within the level is centred between the two lines drawn on the spirit level vial and both the RHS end frame shelf bracket slots cut-outs from datum cabinet align with the slot cut –outs from LHS end frame from the RHS multiplex cabinet .

Place a tubular spirit level onto the front panel– see drawing number 06 position 'G' and set the front foot assembly height at position 'E3' until the bubble within the level is centred between the two lines drawn on the spirit level vial. Check foot height measurement. Its must not drop below 130mm for 1 ¼ drain pipework and 135mm for 1 ½ drain pipework

Set rear foot assembly at position 'H' to instructions above. Set mid front foot assembly height to ground level. Repeat processes above to multiplex cabinets.

Drg No.05



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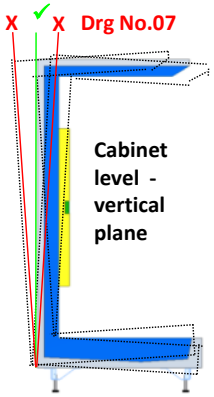

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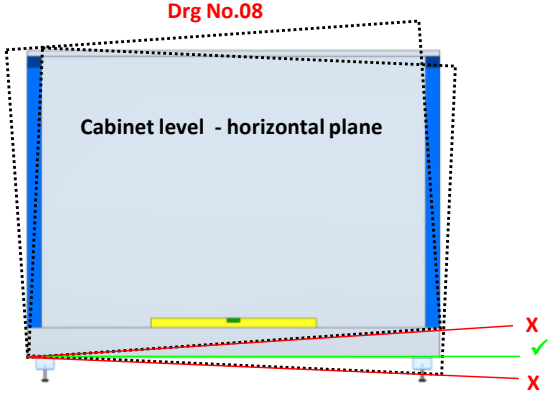
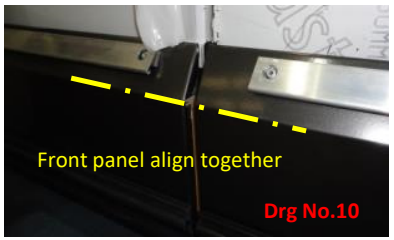
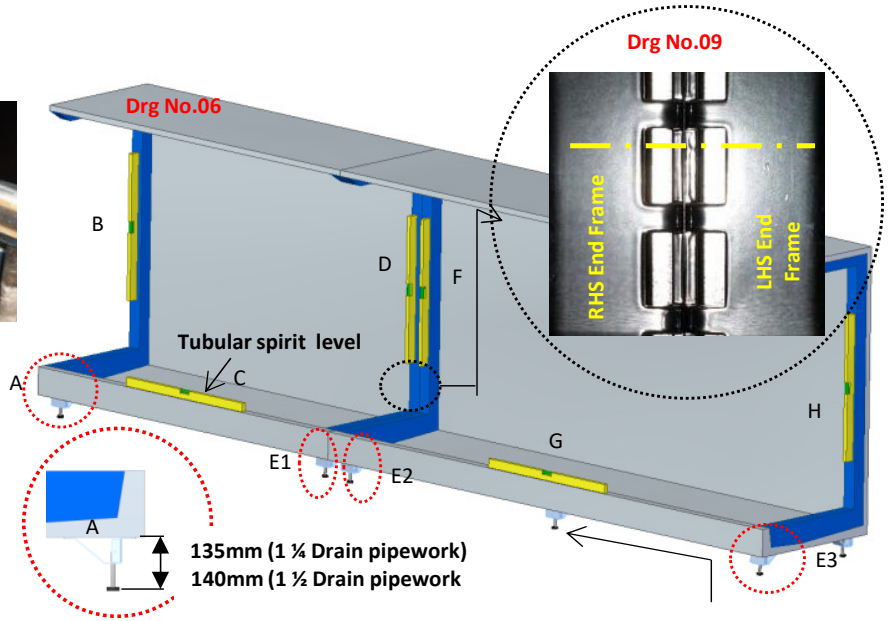




Drg No.06

Drg No.09



Cabinet Installation Manual

Case / Model No:	Description:	SOP Number:	Date:	Rev:
Generic	Cabinet Multiplexing	IM-007	05/10/2020	01

Cabinet Multiplexing

Once all the cabinets in the run to be multiplex have been levelled and the middle foot assembly set to ground level. Now we can start to multiplex the cabinet together.

For each multiplexing cabinets remove pre fitted parts from the cabinet 1st LHS bay – remove shelf assemblies, base trays, upper and lower back baffles . Store parts in safe area - free from damage. Part s to be refitted at later stage.

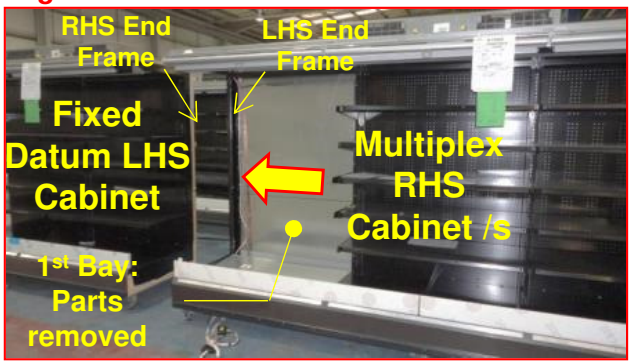
To start always bolt the LHS end frame from the joining multiplex cabinet to the RHS end frame of the datum cabinet OR previously multiplex cabinet . Fixing bolts are provided in the case to case fixing pack. See drawing number 10.

Also note that the LHS end frames do not require cage nuts to be fitted. If cage nuts are fitted please remove them before cabinet to cabinet fixing takes place.
Only RHS end frames have cage nuts fitted.

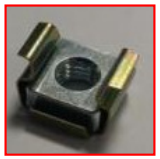
Bolting sequence example 1 to 7 , see drawing number 11
Check the mating end frame are fitted with cage nuts before starting.
Temporary re locate the fan baffle assembly . See drawing number 12. Start bolting sequence 1 and 2, checking the front panel alignment.
Bolting sequence example 3,4 and 5 see drawing number 13, 14, 15 , ensure both LHS & RHS end frame front faces are align together flush, drawing 16 before bolting.
Sequence 6 and 7 see drawing number 15 check the air discharge or honeycomb rear support panels from both joining cabinets align in both horizontal and vertical planes . If applicable temporary remove ceiling honey comb assembly to access the fixing in position 6.

See cabinet specific fixing kit for additional information.

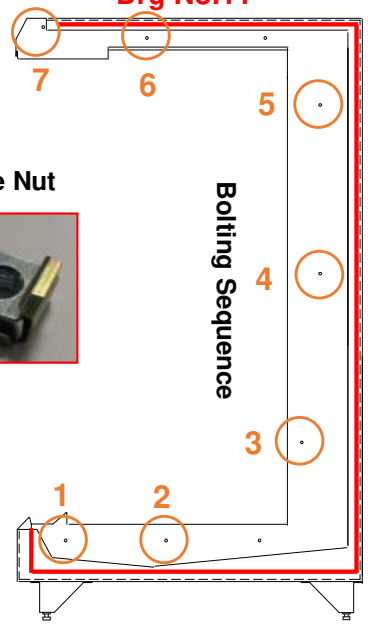
Drg No.10

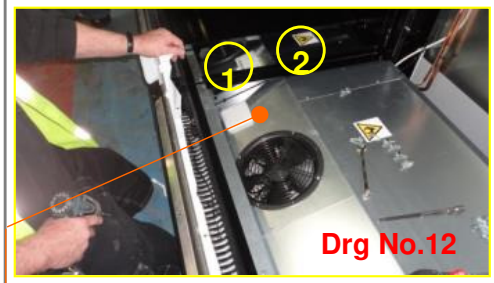


Cage Nut



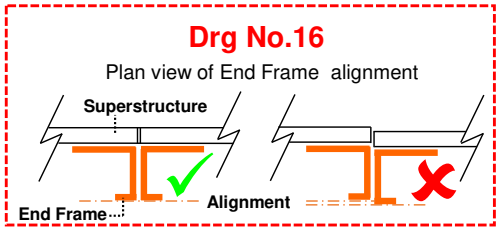
Drg No.11

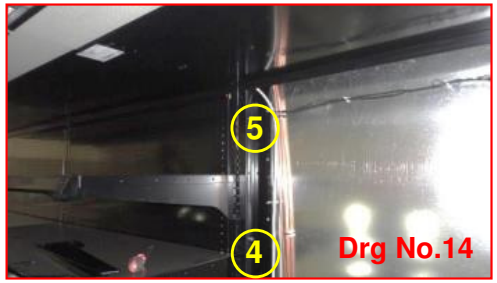


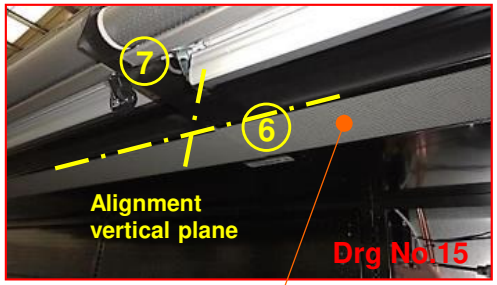


Cabinet to cabinet fixing bolts enclosed inside case to case fixing kit

Drg No.16







Temporary relocate LHS fan baffle assembly to access bolting sequence '1'

Temporary relocate the ceiling honeycomb to access bolting sequence '6'

Cabinet Installation Manual test

Case / Model No:	Description:	SOP Number:	Date:	Rev:
Top Level Generic	Schott Door Frames	IM-007	04/08/11	03

Task Description: Hanging/Changing doors (RH-LH)	Station No: In-house/Site	Date Issued: 04/08/11	Issue: 03

Door Disassembly

1. Disconnect from power source. Open door and remove lock plate (1a, fig 1.).
2. Lift door up and out to disengage bottom door pin from mounting plate and rest door on bottom of frame. (fig 2)
3. Remove cover plate for door cable and disconnect electrical cord. (fig 3)

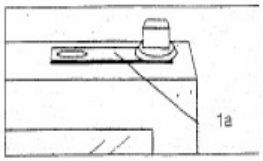


Fig. 1

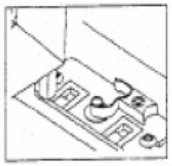


Fig. 2

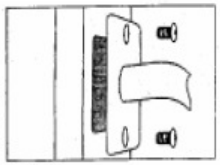
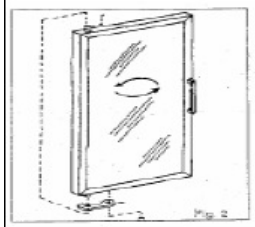


Fig. 3

Door Hinge Conversion

1. Remove door stop plate from bottom of door to opposite side, so that straight side of door stop place faces front of door, fig 2
2. Remove mounting plate and protection plate and attach them on opposite side (1:1). Place hold open assembly on opposite side of mounting plate (1:2).



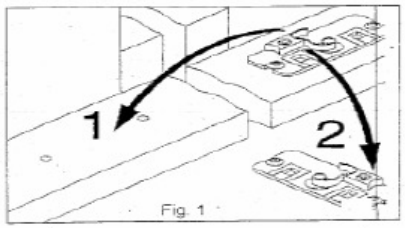


Fig. 1

Men:	Duration:	Quality:
	10mins/door	Check all parts are free from damage

Door Installation

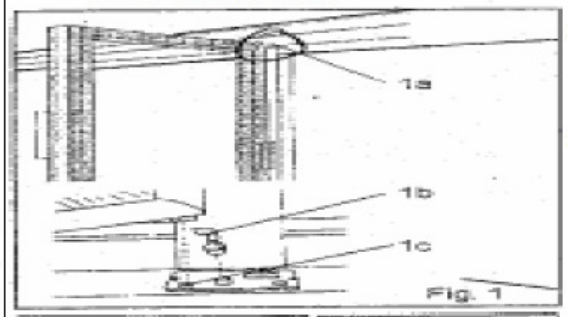


Fig. 1

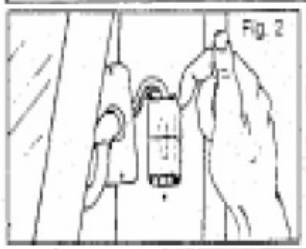


Fig. 2

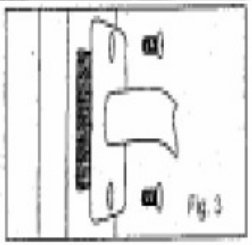


Fig. 3

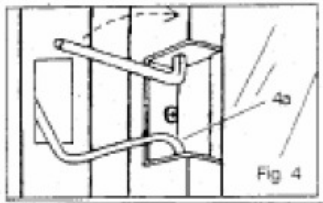


Fig. 4

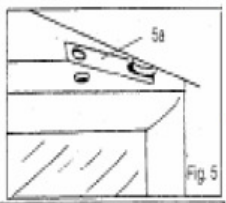


Fig. 5

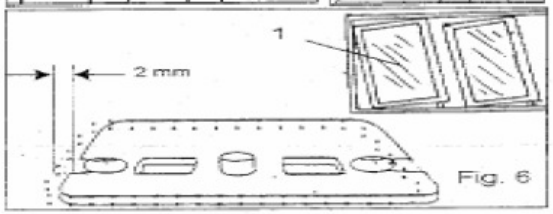


Fig. 6

1. Lift door into frame to engage top door hinge pin (1a).
2. Rest door on bottom of frame. Plug in door plug and press it into the frame (2). Fasten cover plate where door cord exists (3).
3. Place door hold-open spring (1b) on mounting plate pin. Put door on hinge plate so that door pin fits into hole (1c). Swing door open or closed to drop door into proper position. *Attention! Check that cable runs smoothly in door profile (4a).*
4. Adjust door closing tension by inserting an allen key (art No.711301) into frame hole and rotate tool approx. three "clicks". Proper tension is achieved when door is opened approx. 20mm and then closes by itself when released.
5. Screw on lock plate (5a) on top of door. It is important that this is done, in order to lock door safely in frame.
6. After installation, if door appears to sag (1), unscrew screws on bottom mounting plate and adjust it to desired position. Bottom plate can be moved 2mm in each direction.

Attention! Screws must be tightened even if bottom plate has not been adjusted.

Hard Copies Not Controlled – Ensure You Have Latest Issue

Cabinet Installation Manual

Case / Model No:	Description:	SOP Number:	Date:	Rev:
Generic	End Wall Fitting – Solid & Part Glazed	IM-007	26/10/2020	01

End Wall Fitting – Solid & Part Glazed

Stage 1 – Ensure the relevant cabinet joint sealing SOP has been followed.

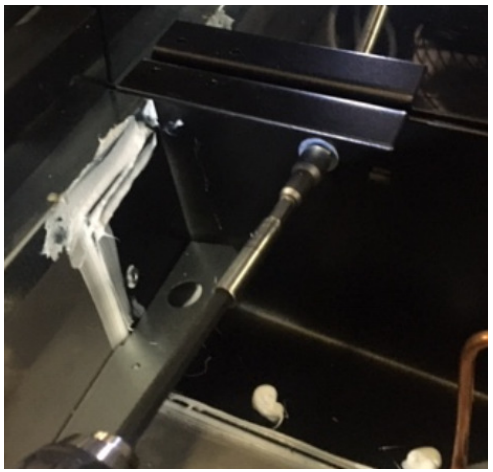
Stage 2 – Remove all the cage nuts from the end frame.

Stage 3 –An additional person will be required to hold the end wall in place while fitting. Use the provided fixings and washers to attach the end wall.

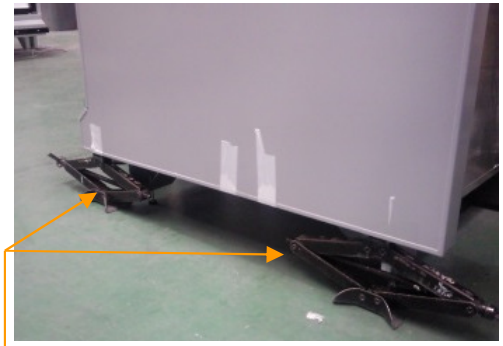
Stage 4 – Before carrying out this step ensure that the cabinet levelling SOP has been followed. Using scissor jack or shims set the height for the bottom of the end wall. Place the end wall on the support and using the front panel, door frame, front glazing unt or canopy area line up the end wall for best visual appearance. Using the provided fixing, screws/bolts & washers use the hole which had the cage nuts fitted to fix the end wall in place. Some cabinets will have additional case to case fixing brackets in the canopy area that can be used.

Stage 2 – Remove all the cage nuts from the end frame

Stage 3 – Fit the end assembly



Stage 4 – Fit the end assembly to the cabinet



Support the end assembly base with scissor jacks

Clamp to support the end assembly

Ensure the end assembly is aligned vertically level

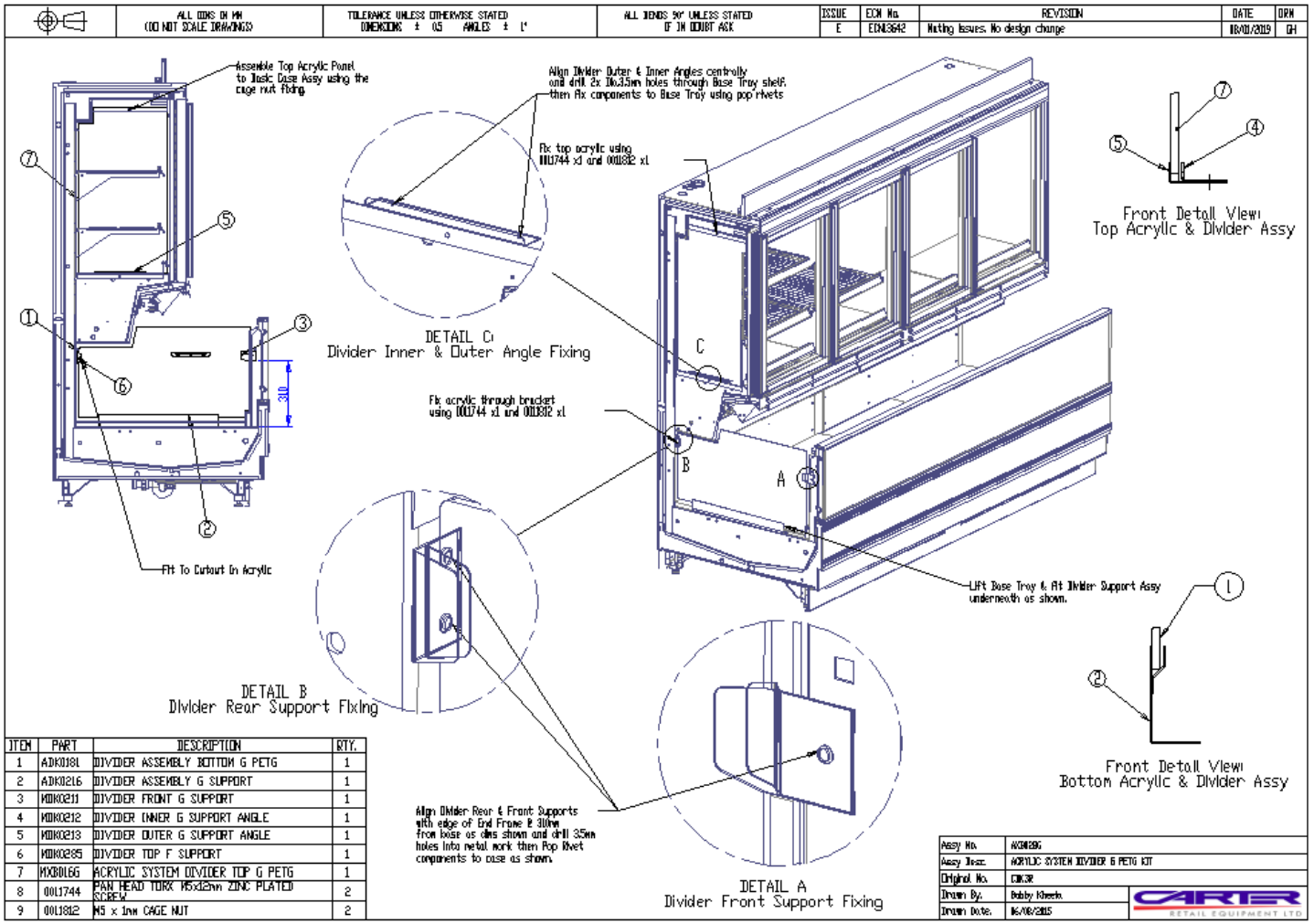
Secure the end assembly to the cabinet using the 'End fixing kit' example ref drawing number: 9318500 & silicone seal around the external profile of the end assembly / cabinet

Cabinet Installation Manual

Case / Model No:	Description:	SOP Number:	Date:	Rev:
Top Level Generic Low Temperature Cabinets	Dividers	IM-007	28/10/2020	01

Dividers

Divider kits are supplied as loose items;
And require fitting on site



Cabinet Installation Manual

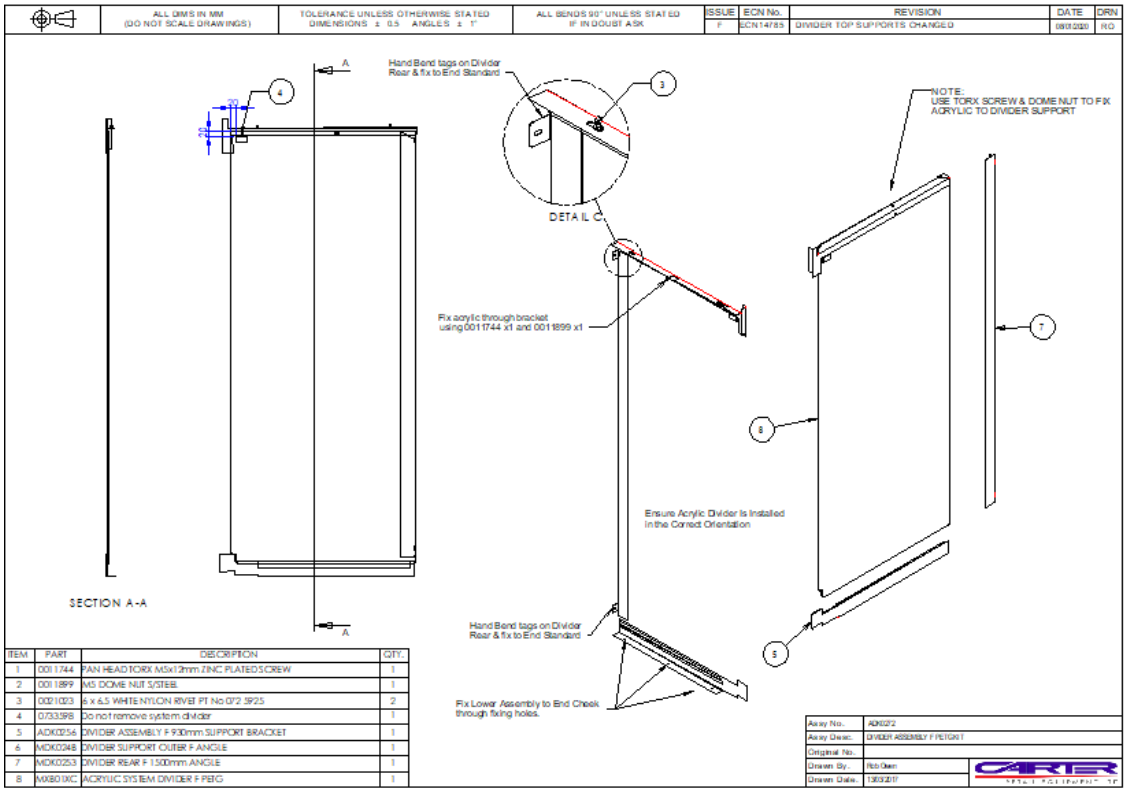
Case / Model No:	Description:	SOP Number:	Date:	Rev:
Top Level Generic Full Height Low Temperature Cabinets	**Dividers**	**IM-007**	**05/10/2020**	**02**

Dividers

Picture 1

Divider kits are supplied as loose items and require on site fitting.

Picture 1
Case or system dividers



Cabinet Installation Manual

Case / Model No:	Description:	SOP Number:	Date:	Rev:
Top Level Model ; Low Temperature Doored Cases	Shelf Profile	IM-007	27/10/2020	01

Shelf Profile – Half Glass Door

Step 1 – Count the number of shelves that are to be fitted per bay and plan to equally space them unless an addition profiling instruction is given.

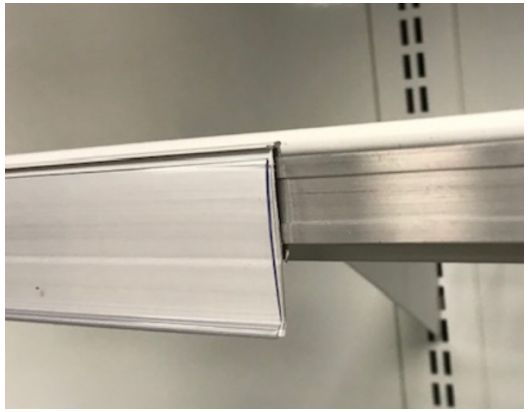
Step 2 - The shelf brackets use a hook in solution and with wire shelves the brackets are handed so ensure they are fitted in the correct hand, see pic 1 of right hand bracket.

Step 3 – Fit the ticket trip to the carrier by sliding it on from one end ensuring the opening to the clear front edge is at the top of the shelf. See pic 2.

Step 4 – Ensuring the shelf is the correct way up, wire upstand with ticket strip fitted should be at the top front of the shelf fit all the shelves to the cabinet making sure they are fully seated in the bracket.

Picture 1 – RH Bracket

Picture 2 – Slide on ticket strip



Picture 3 – Fitted Shelf

Cabinet Installation Manual

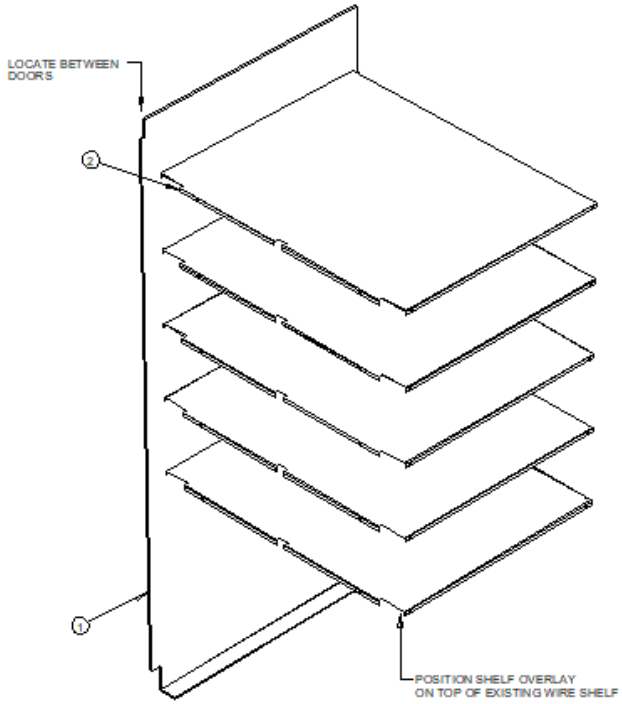
Case / Model No:	Description:	SOP Number:	Date:	Rev:
Top Level Generic Full Height Low Temperature Cabinets	**Hoar Frost Kit**	**IM-007**	**27/10/2020**	**01**

Acrylic Hoar Frost Kit

Picture 1

Hoar Frost Kits are supplied as loose items and require on site fitting.
These are fitted in the Ice Cream Section of the cabinet

Picture 1
Hoar Frost Kit



Item	Part No.	Description	Qty
1	BX8011Y	ACRYLIC INTER DIVIDER FD1A	1
2	BSD1198	SHELF FD CASE 750x600mm OVERLAY RAL 9016 85% WHIT	5

Cabinet Installation Manual

Case / Model No:	Description:	SOP Number:	Date:	Rev:
Top Level Generic Half Glass Door Low Temperature Cabinets	**Hand Rail Capping**	**IM-007**	**27/10/2020**	**01**

Hand Rail Capping

Picture 1
Hand rail Capping is used on the Glazed units.

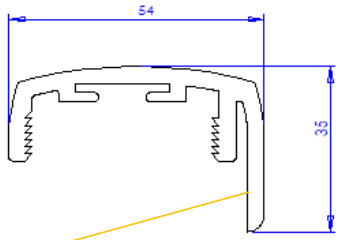
This is supplied in lengths suitable for each cabinet size but fitted so as it straddles the cabinet joint and is held in place by removal of the backing of the adhesive tape.
Capping then cut to fit remaining gaps at either end of case run.

Picture 2
Capping Profile.

Picture 3
Example of Corner post

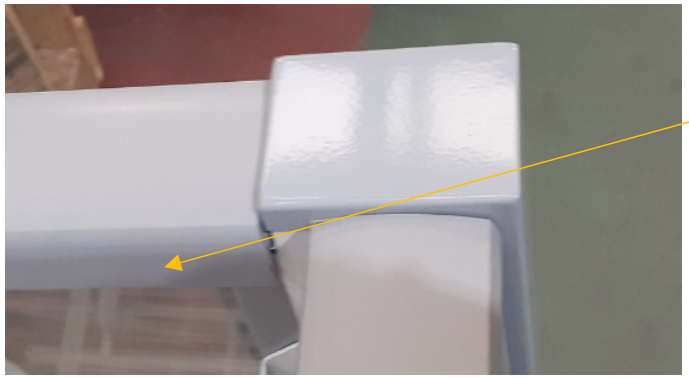
Picture 1
Capping to all Heated Glazing Units

Picture 2
Capping Profile



This section faces into cabinet

Picture 3
Example of Corner Post



Cabinet Installation Manual

Case / Model No:	Description:	SOP Number:	Date:	Rev:
Top Level Generic Low Temperature Cabinets	Well Case Weir Screen	IM-007	28/10/2020	01

Well section Front Weir Screens.

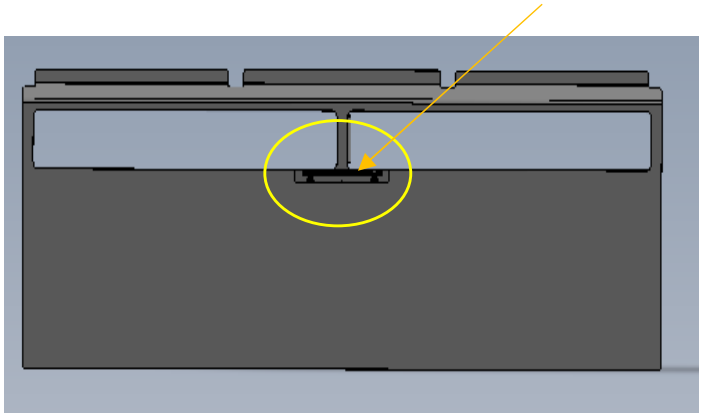
Picture 1
Weir screens are provided to protect air distribution and case loading.

Picture 2
Profile of Weir Screen

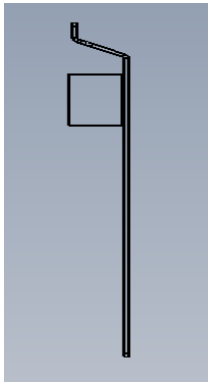
Picture 3
These are fitted on site to the rear of the front glass and are positioned with the angled lip facing the under side of the hand rail capping

Note;
Where end cases are fitted Weir Screens may be supplied for fitting to the side glass of the cabinet and are fitted in the same manor

Picture 1
Front view of Weir Screen showing load line indicator

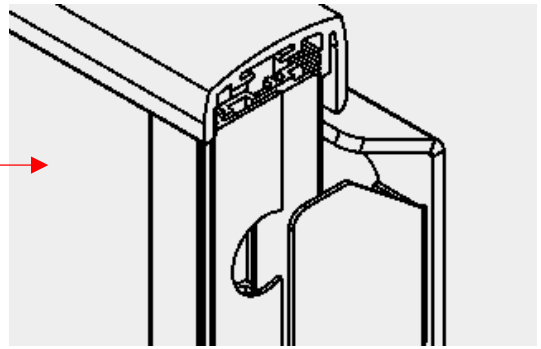


Picture 2
Profile



Picture 3
Cross section drawing of correct positioning

Glazed Panel. Case Front

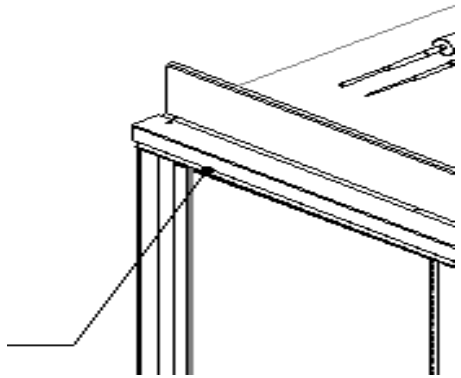


Cabinet Installation Manual

Case / Model No:	Description:	SOP Number:	Date:	Rev:
Top Level Generic Full Height Low Temperature Cabinets	**Canopy**	**IM-007**	**26/10/2020**	**01**

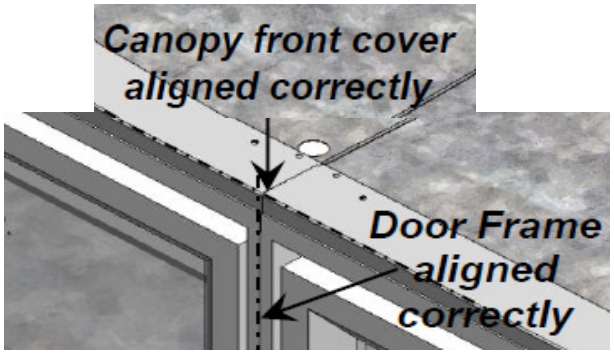
Canopy

For the Low Temperature Full height cases the Canopies consist of a profiled section that is Factory fitted
Careful alignment is required during installation



Picture 1
Profiled Canopy

Picture 2
Alignment



Picture 3
Example of End case Canopy

Cabinet Installation Manual

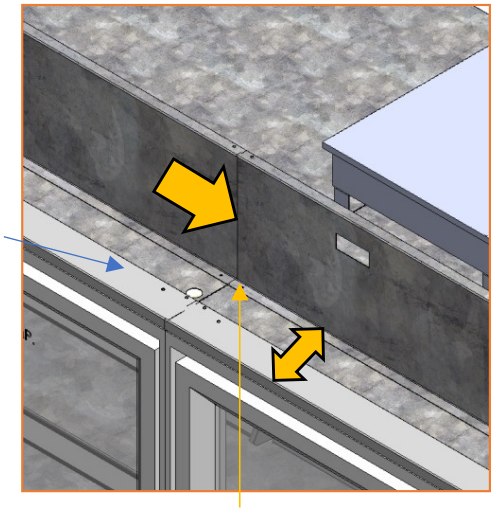
Case / Model No:	Description:	SOP Number:	Date:	Rev:
Top Level Generic Low Temperature Cabinets	Pipe Covers (1 of 2)	IM-007	26/10/2020	01

Section 1

Fitting of Front pipe Covers.
Positioning of the front covers will depend on the length of the side cover

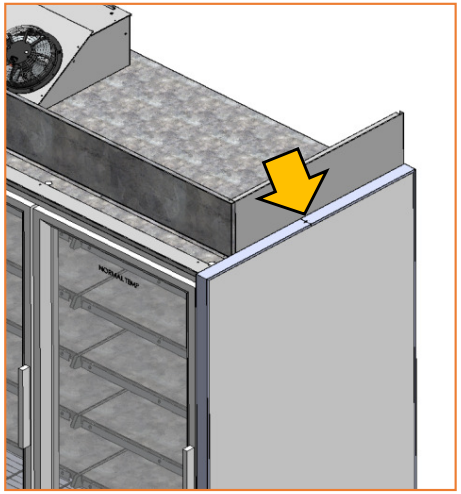
Align both fascia top faces flush together and align to the canopy

Canopy



Secure Cover through the fixing holes provided

Align flush end cover face with end panel inner side face and flush with the end wall



Case / Model No:	Description:	SOP Number:	Date:	Rev:
Top Level Generic Low Temperature Cabinets	Pipe Covers (2 of 2)	IM 007	26/10/2020	01

Pipe Covers

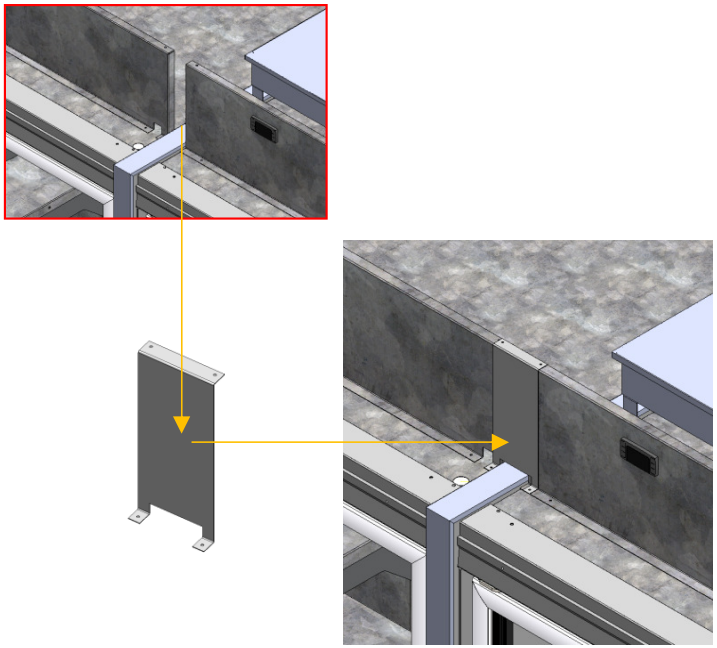
Section 3

Picture 1
For instances where cases are separated by internal walls, inserts are used to bridge the gap.

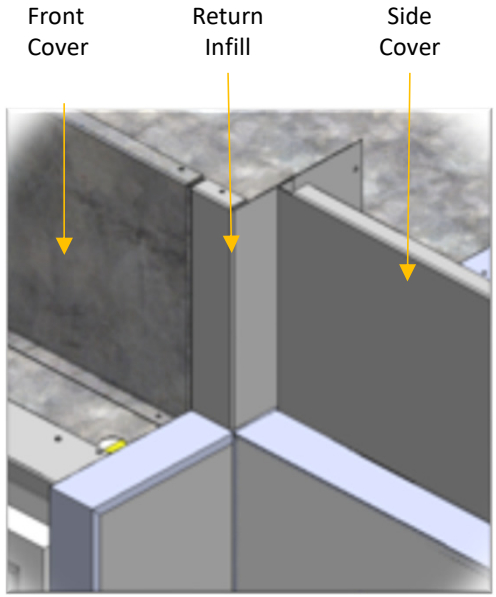
Picture 2

For end cases where off set is created, a return infill is used

Picture 1
Gap Insert



Picture 2
Return Infill



Cabinet Installation Manual

Case / Model No:	Description:	SOP Number:	Date:	Rev:
Top Level; Half Glass Door Frozen Food Cabinets	Electrical Connections (Page 1 of 2)	IM-007	21/10/2020	01

Electrical Connections.

Picture 1
Ensure all plugs and cables are free and covers are not damaged.

Picture 2
Pull the cables through the cradle from the rear of the cabinet
Picture 3

Red Coding pins in the Black STV plugs will assist in ensuring that the plugs are located in the correct sockets
Picture 4

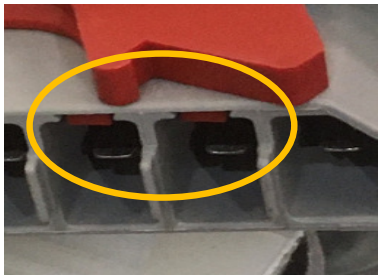
With the control tray switched off, connect the plugs to the sockets at the rear of the control panel and ensure proper location.
Picture 5

Ensure cables are free to move and place controller into the cradle or runners. This can then be pushed back to sit flush with the cradle or runner front

Picture 1
Typical plug assemblies for Full Height Frozen food

Picture 2
Cable run through Cradle

Picture 3
Example of Coding Pins



Picture 4
Connect plugs to sockets at rear of control tray

Picture 5
Place control tray into the cradle or Runners

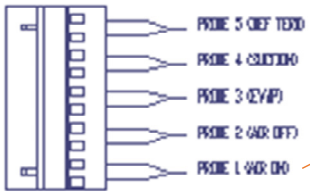
Case / Model No:	Description:	SOP Number:	Date:	Rev:
Top Level; Full Height Door Frozen Food Cabinets	Electrical Connections (Page 2 of 2)	IM-007	21/10/2020	01

Electrical Connections. Cont.

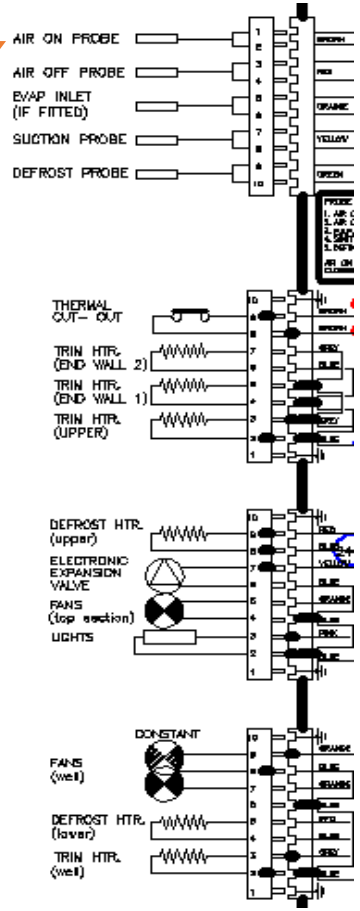
Picture 6;
Control panel outlets to give example of individual plug functions

Picture 6
Example control tray Plug outlets

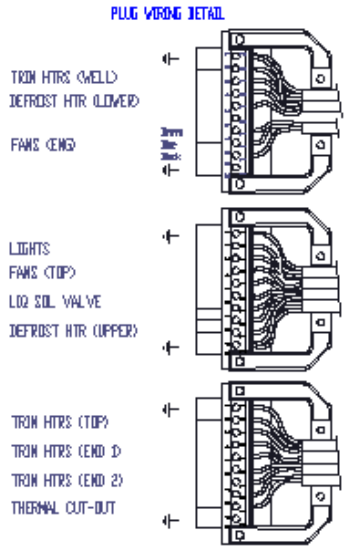
Probe Plug (Rotate to fit)



Control Tray Outlets



Ten Pin STV and Thermal Cut out Plugs (Rotate to fit)



Cabinet Installation Manual

Case / Model No:	Description:	SOP Number:	Date:	Rev:
Top Level Generic	Drainage	Im-007	05/10/2020	01

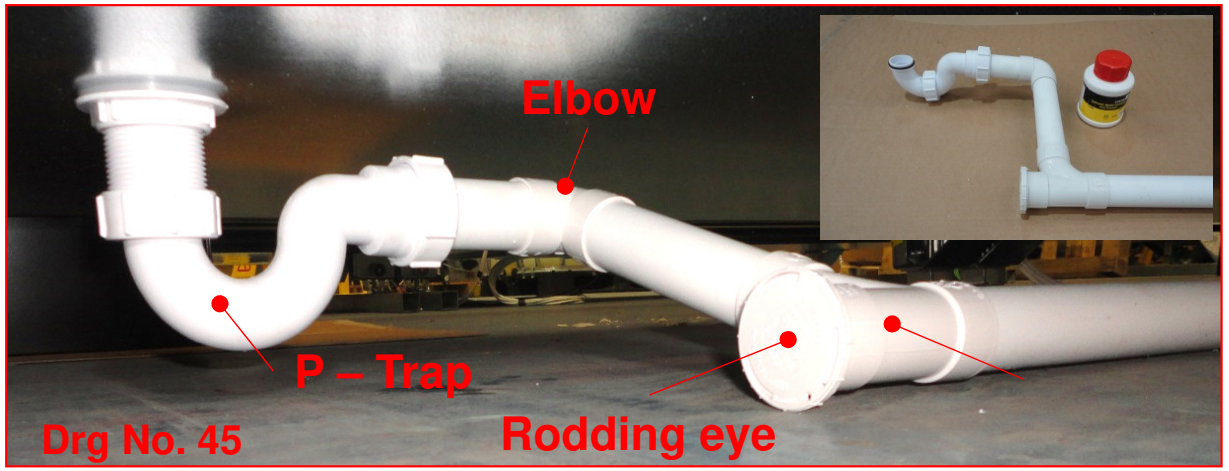
Drainage

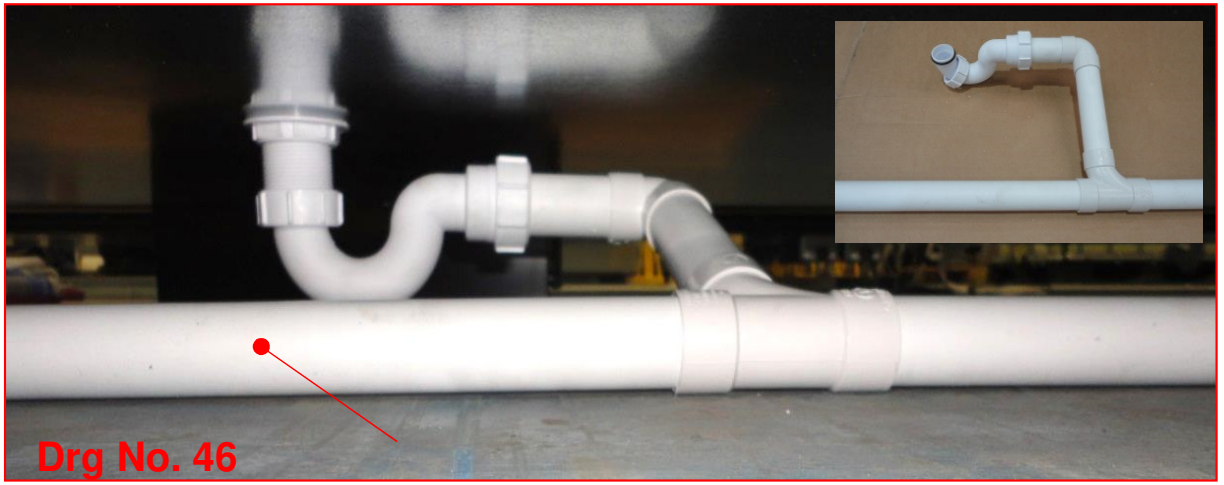
Drawing number 45 shows the drainage pipework configuration of the datum cabinet. The first cabinet of the multiplex run.

Drawing shows 46 shows the drainage pipework configuration of joining / multiplexing cabinets.

Secure all joints with solvent glue.

Keep pipework configuration in board of the front foot assemblies





Cabinet Installation Manual

Case / Model No:	Description:	SOP Number:	Date:	Rev:
Top Level Generic Low Temperature Cabinets	Plinths	IM-007	26/10/20	01

Plinths.

Picture 1
Plinth are supplied lose in the case and fitted after the case has been levelled and multiplexed.
These are held in place by a securing Bolt
OR;
Depending on case variant, screwed directly to the Case foot assembly .

Picture 2
The securing if applicable, bolt locates into a captive nut mounted in the foot assembly and needs to be hand tight only.

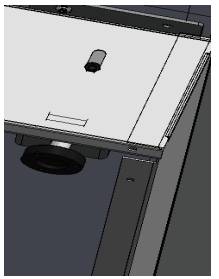
Picture 3 and 4
For Wrap around End Cases the return or side plinths are locked in place by fitting inside the front plinth before tightening.
OR;
Depending on case variant, screwed directly to the side of the Case foot assembly

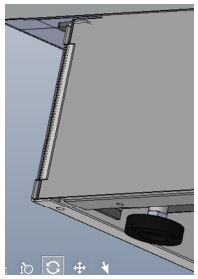
Picture 5
Once fitted the plinth will, if applicable to the case variant enable viewing of view the Temperature Display and provide access to the case isolation and case cleaning switch on the front of the control panel via a spring loaded flap.

Picture 1
Plinth securing Bolt

Picture 2
Captive nut

Picture 3 & 4
Fitting of WAE Return Plinth





Picture 5
Plinth Front