

FLOWERS *And More*

Flowers And More UK Ltd For Building Materials

- Insulated panels
- Box Profile
- Purlins
- Fixings



AGRICULTURAL | INDUSTRIAL | COMMERCIAL | RESIDENTIAL

Flowers And More UK Ltd

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ROOF PIR INSTALLATION GUIDE

The Roof PIR is a very diverse product for not only Industrial, but also residential or agricultural application. Due to its trapezoidal outer sheet it is ideal to take additional loads such as solar panels or even roof tiles.

ROOF INSTALLATION

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BOX PROFILE, CORRUGATED ROOFING SHEETS, RIDGES & BARGES MANUFACTURED IN SOMERSET

We have a wealth of knowledge and experience in the roofing sheet and steel industries, so our dedicated team can always make sure you're guided through the purchase and installation processes from start to end.

With Colour Clad, you'll quickly find that you're dealing with a quality supplier that offers unrivalled customer service and choice. From concept to completion, we'll work with you to make sure you get the right finish and that your project finishes on time, every time. You can trust Colour Clad at every stage.

All of our customers have access to cladding sheets and roofing sheets with a huge range of

colours, finishes, and thicknesses. As well as this, we also offer an impressive variety of substrates, including an industry-proven HPS range, comprising leather grain, polyester, and PVF.

With our unique colour-sourcing service, every Colour Clad customer can specify any colour and finish they like - and be satisfied in no time. Whichever finish and colour you choose, our high-quality materials are guaranteed to keep your building looking first-class.

Throw our competitive, dedicated service and prompt delivery times into the mix and it becomes easy to see why so many customers come back time and time again.

WALL 1000SF PIR INSTALLATION GUIDE

With an array, of different finishes and colours the Wall 1000SF PIR is the perfect panel for Industrial, Commercial or even Residential applications. This LPCB approved panel is used horizontally or vertically according to personal preferences.

WALL INSTALLATION

Wall 1000SF PIR				
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ROOFING



ROOF PIR

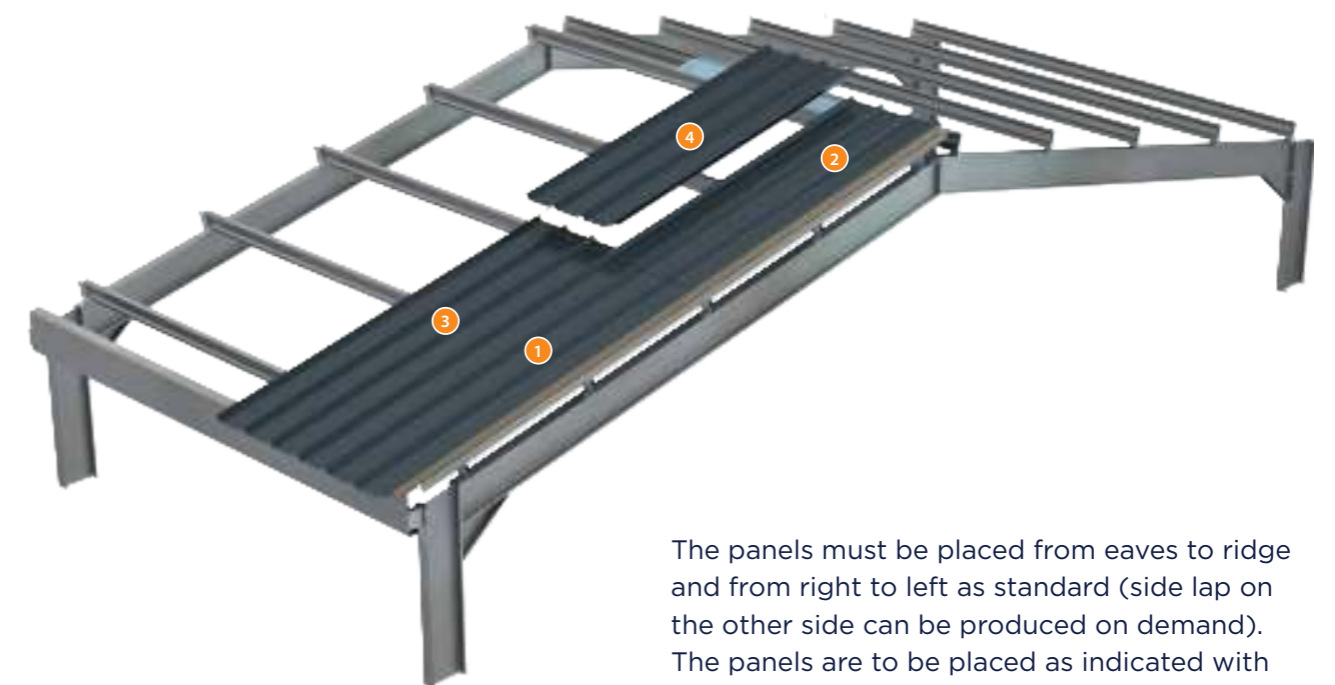
ROOF PIR APPLICATION



ROOFING

ROOF PIR APPLICATION STEP 1

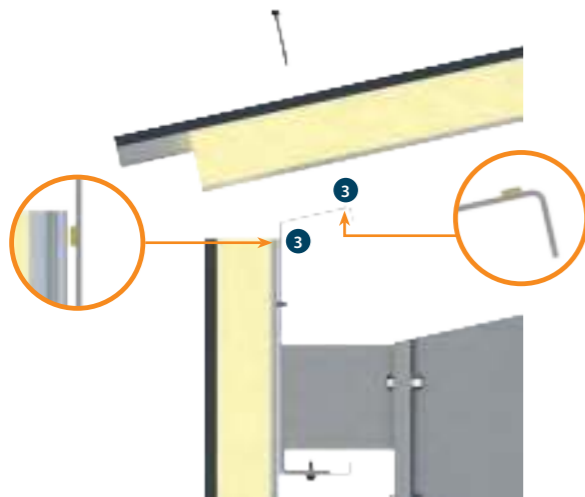
The Roof PIR LPCB certified Trapezoidal Insulated Roof Panel is used for pitched roofs or horizontal and vertical wall applications in industrial, commercial and public buildings. Due to its metal inner and outer sheet, it combines thermal resistance with large spans. The minimum pitch to be applied is 4° or more after deflection.



The panels must be placed from eaves to ridge and from right to left as standard (side lap on the other side can be produced on demand). The panels are to be placed as indicated with 1 2 3 and 4

The accessories numbered with (1), (2) etc, are detailed on page 17 & 18

EAVES DETAIL



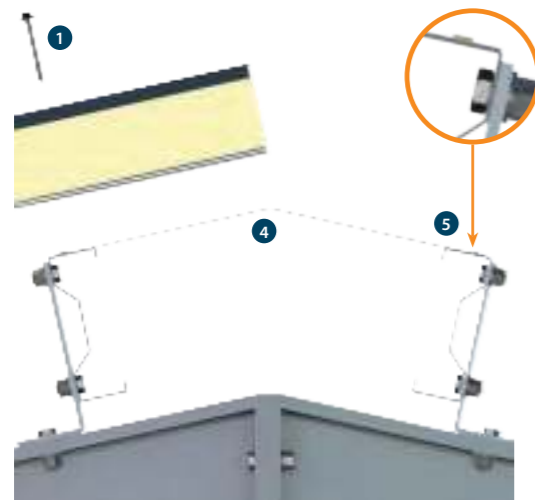
A strip of Butyl tape air sealant 6 mm x 5 mm **1** should be applied to the eaves beam to protect the contact with both wall and roof panels.

END LAP



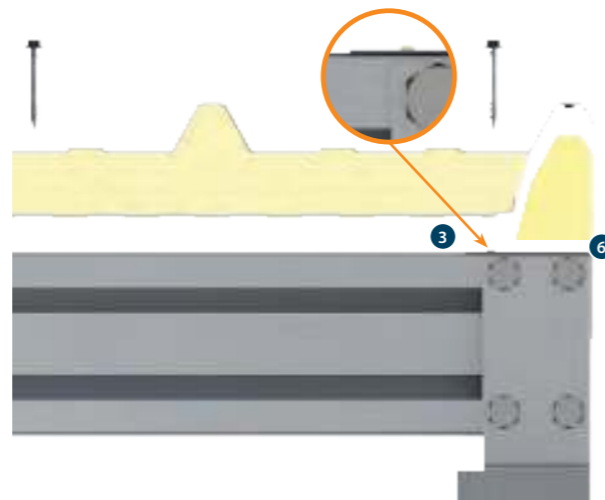
Overlap of Roof PIR panels with a minimum 150 mm. Main fastener **1** in each valley. Stitcher screws **2** in each crown at 50 mm from edge. 3 x strips of Butyl tape air sealant 6 mm x 5 mm **3**. Butyl should be placed at 10 mm from edge (max. 20 mm).

EXTERNAL RIDGE



An Internal flashing **4** sealed with a butyl air sealant 9 mm x 3 mm **5** for a proper external ridge. Flashing fixed by panel main fixings **1**

VERGE DETAIL



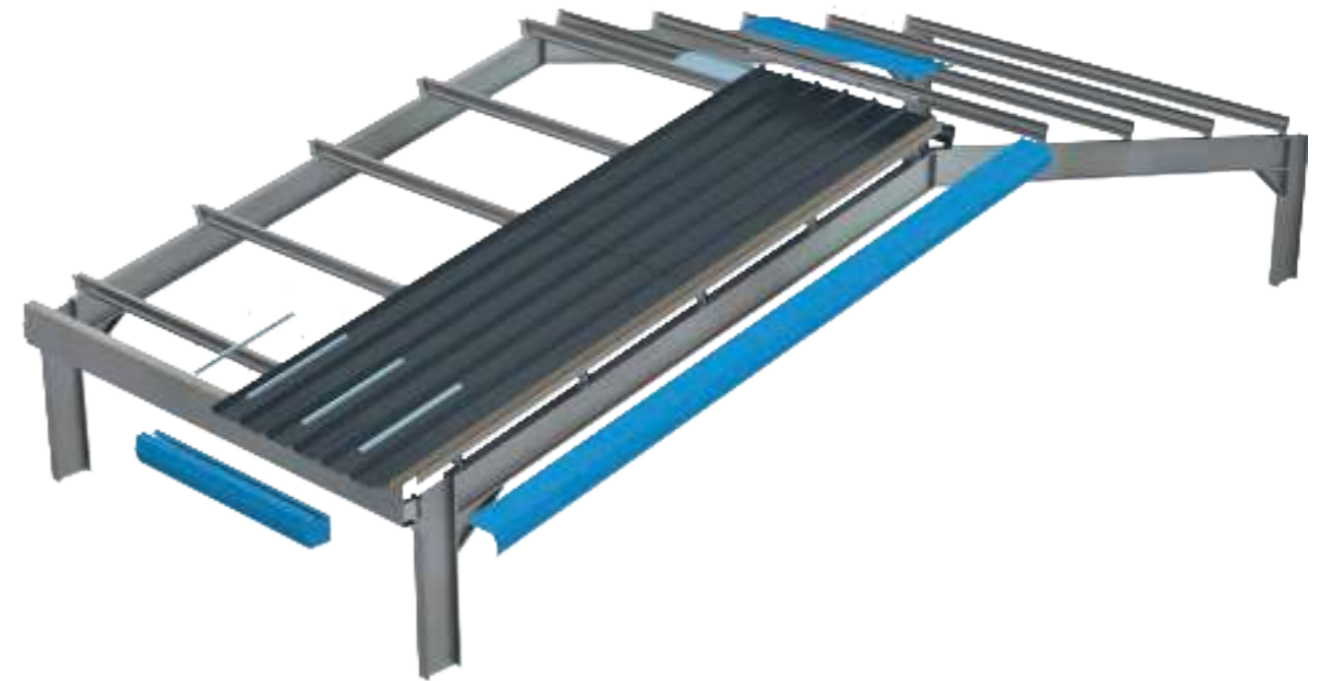
A strip of Butyl tape air sealant 6 mm x 5 mm **3** should be applied between the cleader **6** angle and panels.

The accessories numbered with (1), (2) etc, are detailed on page 17 & 18

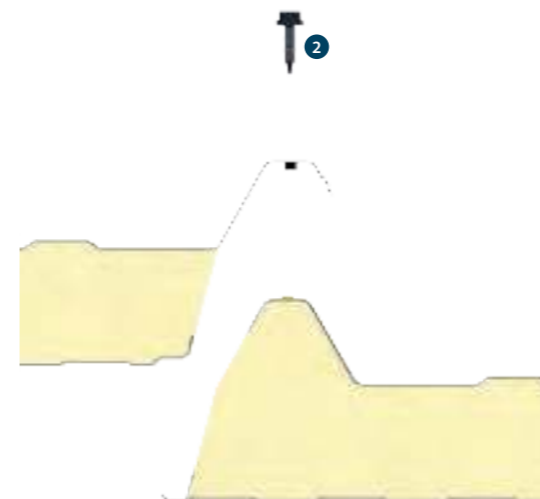
ROOF PIR APPLICATION STEP 2

able to provide the best finishings for your building with a range of products that include sealants, flashings and fixings. Flashings can be ordered with the same

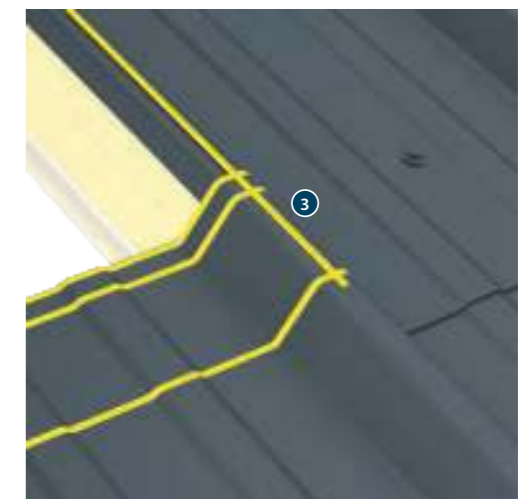
coating and colour as the sandwich panels. Stainless steel fixings will provide resistance to the most severe environment. More info on page 17 & 18.



SIDE & END LAP



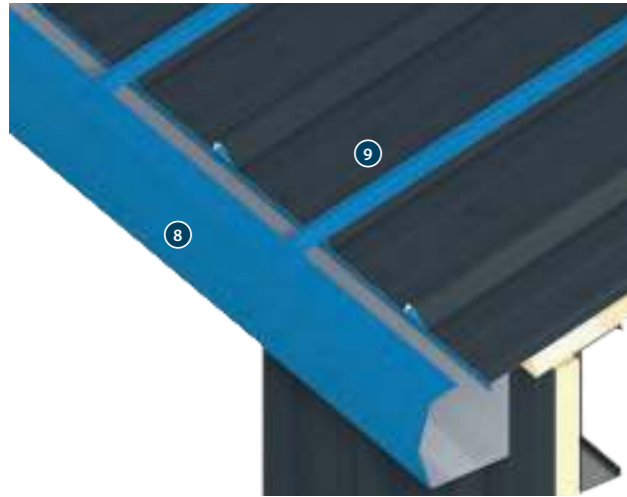
The side lap between panels should be fixed with stitcher screws **2** in the crown at max. 450 mm center. The side lap is protected with a compressible factory applied sealant. It is recommended to use additional gun-grade sealant (site-applied) **7** on coastal sites



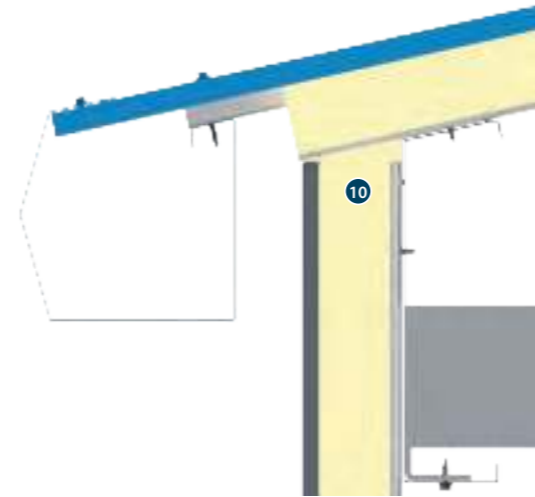
An additional strip of Butyl tape air sealant 6 mm x 5 mm **3** is recommended where the side lap meets the end lap to reinforce the tightness.

The accessories numbered with (1), (2) etc, are detailed on page 17 & 18

EXTERNAL GUTTER



External overhanging gutter 8 supported by support arms 9 fixed to every other crown of panel. A site-applied air sealant 7 must be used between the support arms 9 and the crowns of panels.



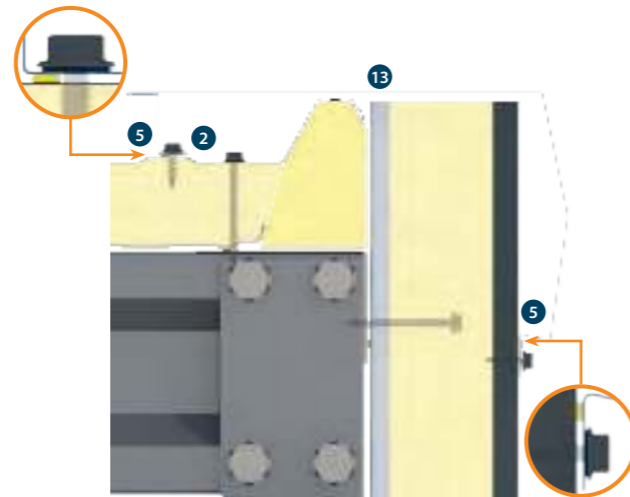
A fire rated site-applied foam insulation 10 must be used to close the corner between wall and roof.

EXTERNAL RIDGE - FINISHINGS



A ridge flashing 11 sealed with a 9 mm x 3 mm butyl air sealant 5 or gun-grade butyl sealant 7 to cover the ridge. A profiled foam filler 12 needs to be used at 80-100 mm from end. A fire rated site-applied foam insulation 10 must be applied to fill the ridge.

VERGE DETAIL - FINISHINGS



The verge flashing 12 should cover the verge from eaves to ridge and should be fixed with stitching screws at every 450 mm 2 and protected with 9 mm x 3 mm butyl air sealant 5.

The accessories numbered with (1), (2) etc, are detailed on page 17 & 18

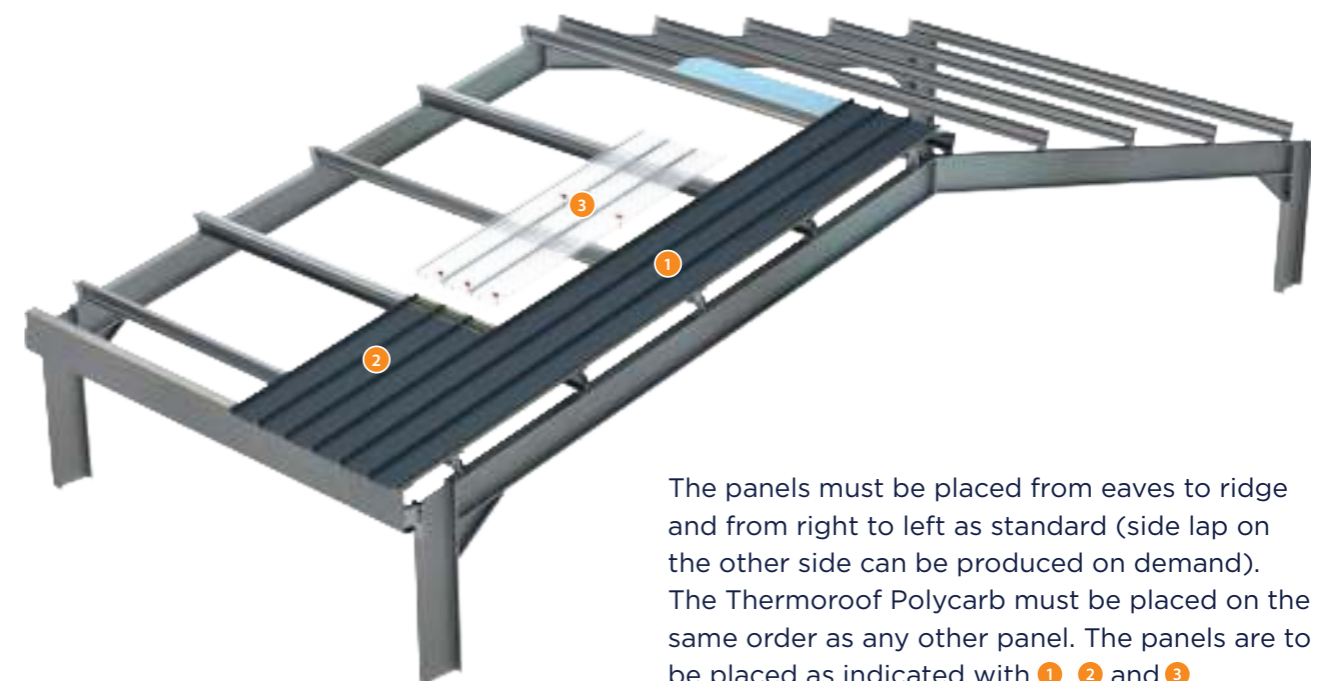
ROOFLIGHT

THERMOROOF POLYCARB



ROOFLIGHT APPLICATION STEP 1

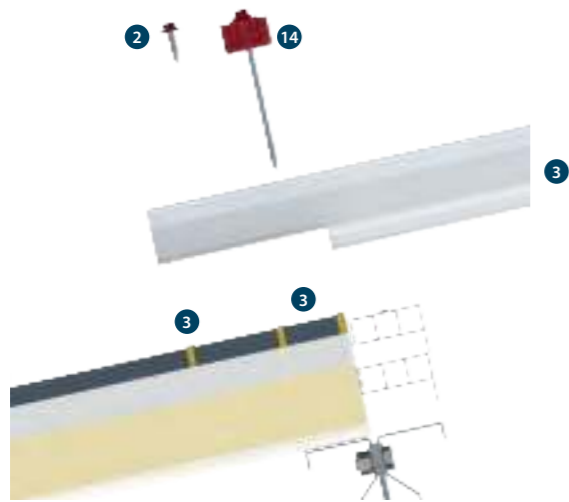
The ThermorooF Polycarb is the perfect solution for a natural and bright environment inside your building. This product is fully compatible with the Roof PIR panel as it can be adapted to all the thicknesses. This product provides a very good thermal performance which is consistent with the Roof PIR panel and in line with the thermal requirements of Building Regulation part L2.



The panels must be placed from eaves to ridge and from right to left as standard (side lap on the other side can be produced on demand). The ThermorooF Polycarb must be placed on the same order as any other panel. The panels are to be placed as indicated with 1, 2 and 3.

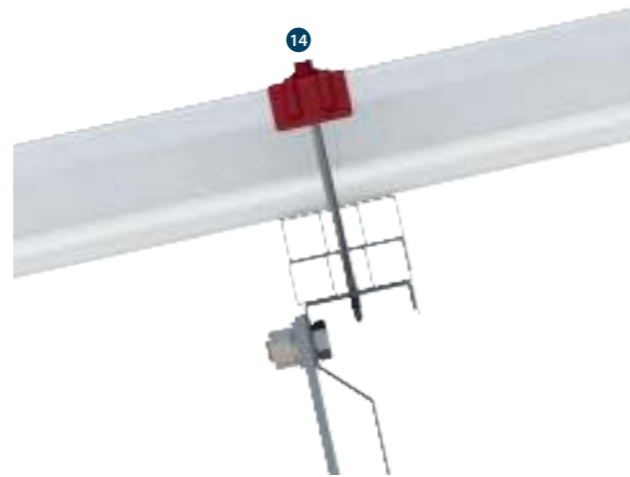
The accessories numbered with (1), (2) etc, are detailed on page 17 & 18

OVERLAP - ROOFLIGHT OVER PANEL



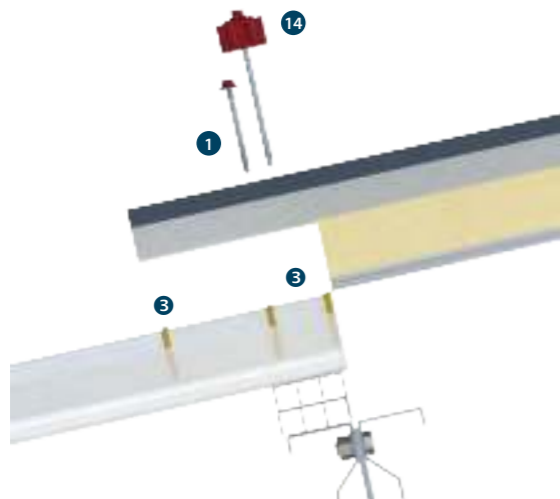
Overlap of Thermorooft Polycarb on Roof panel with a minimum of 150 mm. Main fastener - crown fixing 14 on each crown. 2 x stitcher screws 2 on each valley at 50 mm from edge. 3 x strips of butyl tape air sealant 6 mm x 5 mm 3 applied on panels and 1 x applied on spacer.

CONTINUOUS ROOFLIGHT



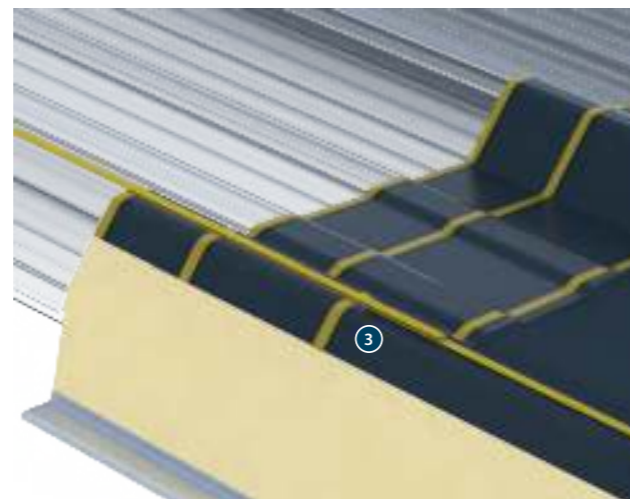
Thermorooft Polycarb fixed to purlin through spacer with main fastener - crown fixing 14 on each crown.

OVERLAP - PANEL OVER ROOFLIGHT



Overlap of Roof PIR panel on Thermorooft Polycarb with a minimum of 150 mm. Main fastener - crown fixing 14 on each crown. Main fastener 1 in each valley. 3 x strips of butyl tape air sealant 6 mm x 5 mm 3 applied on Thermorooft Polycarbs.

OVERLAP - ROOFLIGHT OVER PANEL



Additional butyl tape air sealant 6 mm x 5 mm 3 overrunning 60-70 mm after end on Thermorooft Polycarb as illustrated.

The accessories numbered with (1), (2) etc, are detailed on page 17 & 18

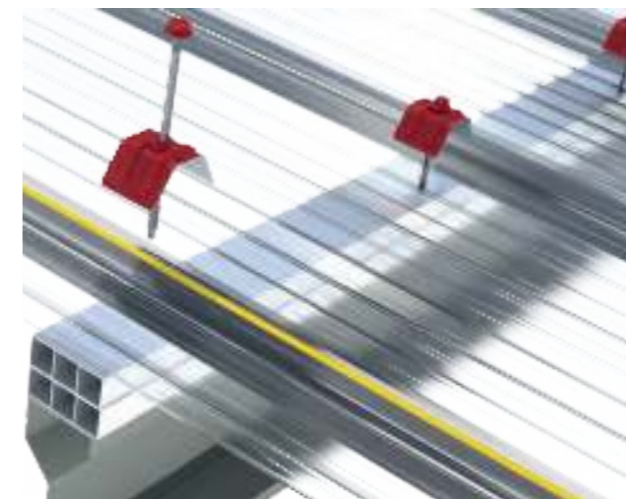
ROOFLIGHT APPLICATION STEP 2

able to provide the best finishings for your building with a range of products that include sealants, flashings and fixings. Flashings can be ordered with the same coating and

colour as the sandwich panels. Stainless steel fixings will provide resistance to the most severe environment. More info on page 17 & 18

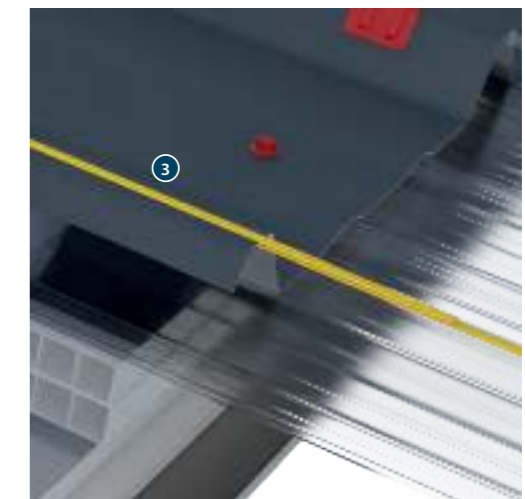


CONTINUOUS ROOFLIGHT



A saddle washer should be used on every main fixing.

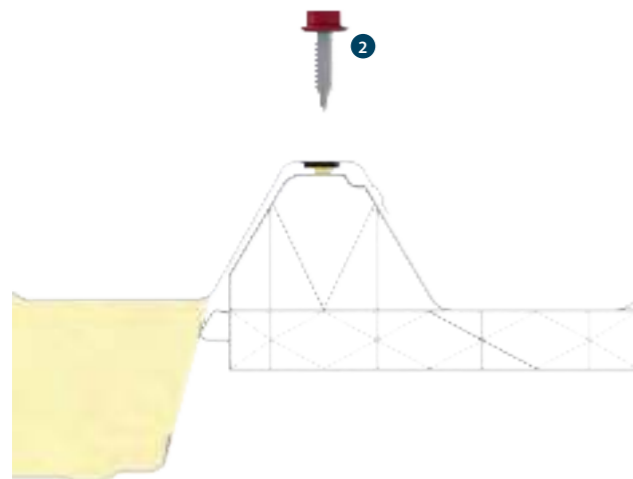
OVERLAP - PANEL OVER ROOFLIGHT



Additional butyl tape air sealant 6 mm x 5 mm 3 overrunning 60-70 mm after end on Roof PIR as illustrated.

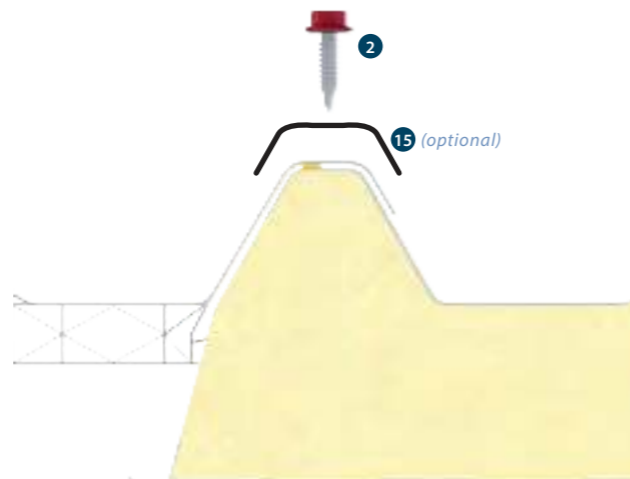
The accessories numbered with (1), (2) etc, are detailed on page 17 & 18

SIDE LAP - PANEL OVER ROOFLIGHT



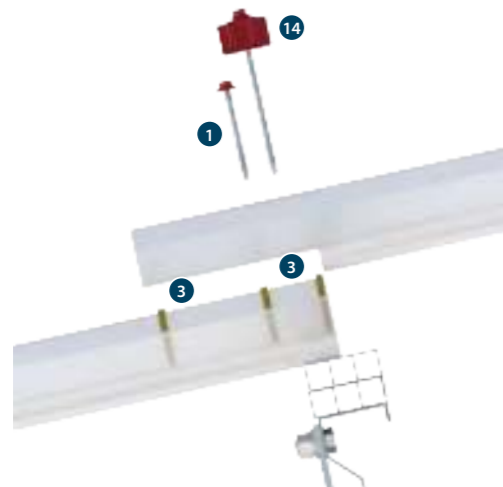
The side lap is protected with a factory applied sealant. It is recommended to use additional gun-grade sealant (site applied) (7) on coastal site. Stitcher screws (2) at 450 mm.

SIDE LAP - ROOFLIGHT OVER PANEL



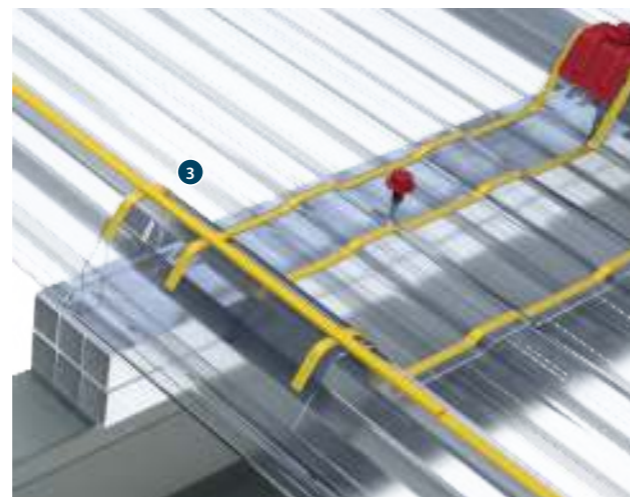
1 x strip of butyl tape air sealant 6 mm x 5 mm (3) applied between Thermoroo Polycarb and Roof PIR on weather side. Stitcher screws (2) at 450mm. The metallic cover strip (15) can be avoided by applying stitcher screws (2) at every 300 mm.

OVERLAP - BETWEEN ROOFLIGHTS



Overlap of Thermoroo Polycarbs with 150 mm. Main fastener - crown fixing on each crown (14). Main fastener in each valley (1). 3 x strips of butyl tape air sealant 6 mm x 5 mm (3) applied on Thermoroo Polycarb.

OVERLAP - BETWEEN ROOFLIGHTS



Additional butyl tape air sealant 6 mm x 5 mm (3) overrunning 60-70 mm after end of Thermoroo Polycarb as illustrated.

The accessories numbered with (1), (2) etc, are detailed on page 17 & 18

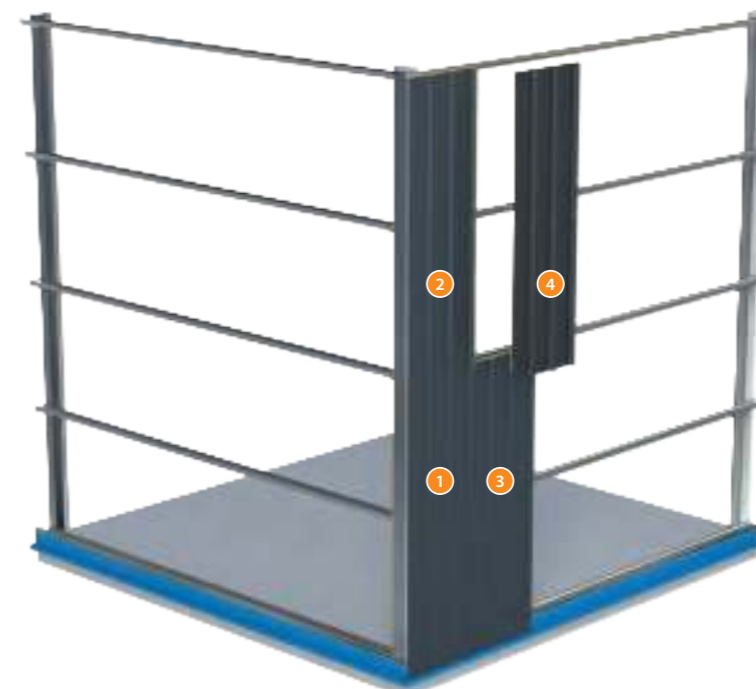
ROOF PIR

VERTICAL WALL APPLICATION



VERTICAL WALL APPLICATION STEP 1

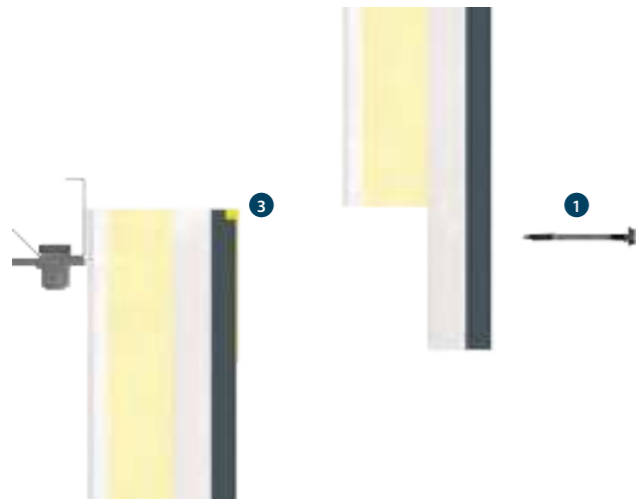
Roof PIR Trapezoidal Insulated Panel has achieved an Ext-B classification to LPCB to be used on the wall applications. A grade Ext-A15 can be achieved when mounted in accordance to LPCB certificate.



The panels must be placed from bottom to top and from left to right (side laps on the other side can be produced on demand). The panels are to be placed as indicated with (1), (2), (3) and (4)

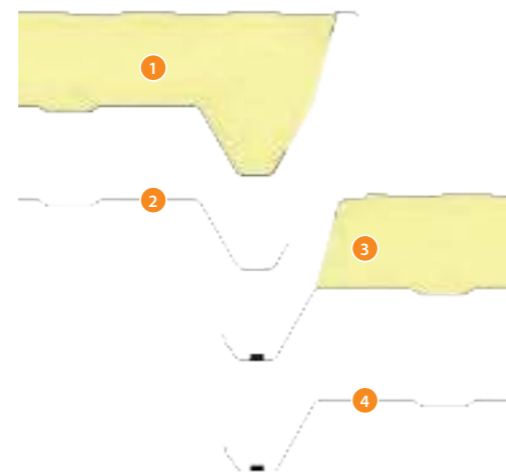
The accessories numbered with (1), (2) etc, are detailed on page 17 & 18

VERTICAL END LAP



Overlap of Roof panels with 100 mm. Main fastener ① in each valley. 1 x strip of Butyl tape air sealant 6 mm x 5 mm ③ or gun-grade butyl sealant ⑦.

PANELS SEQUENCE



The sequence of panels should be as illustrated with ①, ②, ③ and ④.

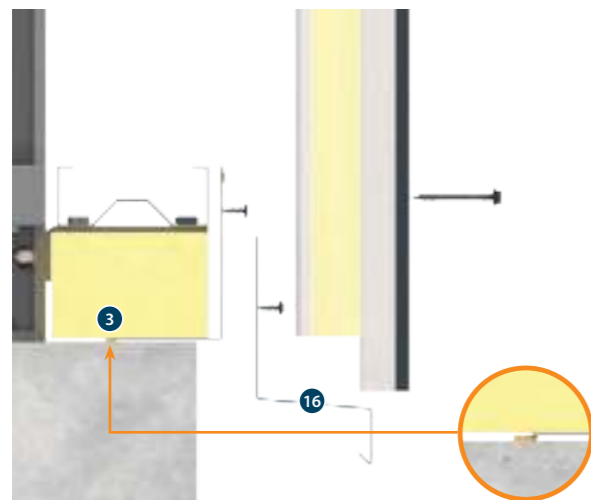
VERTICAL WALL APPLICATION STEP 2

able to provide the best finishings for your building with a range of products that include sealants, flashings and fixings. Flashings can be ordered with the same coating and colour

as the sandwich panels. Stainless steel fixings will provide resistance to the most severe environment. More info on page 17 & 18.

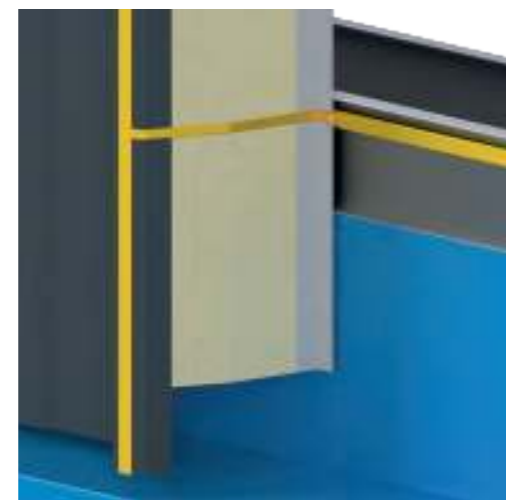


EXTERNAL FILL - INSULATION



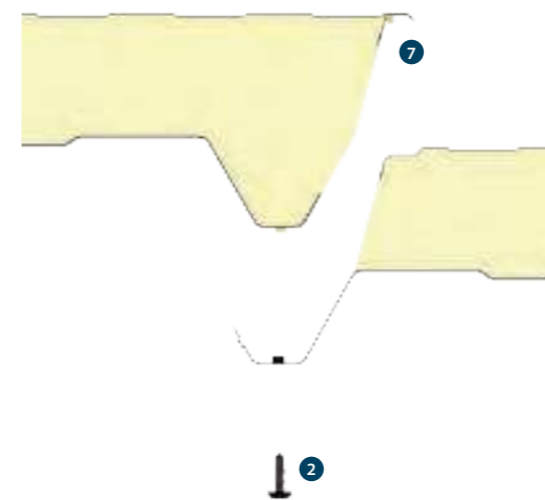
PIR board insulation and site applied fire rated insulation to fill any gaps. An internal closure flashing placed over a strip of butyl tape air sealant 6 mm x 5 mm. ③ The drip flashing ⑯ is fixed to the internal closure. Roof to be fixed to first rail through every flashing.

EXTERNAL FILL - SEALANTS



1 x strip of Butyl tape air sealant 6 mm x 5 mm ③ should be applied on supports before placing the panels.

SIDE LAP



It is recommended to use additional gun-grade sealant (site-applied) ⑦ on coastal sites. The side lap should be fixed with stitcher screws ② in the crown at max. 450 mm centres.

EXTERNAL CORNER



1 x strip of Butyl tape air sealant 6 mm x 5 mm ③ or gun-grade butyl sealant ⑦ between internal cleader ⑥ and panels (each side). 1 x strip of Butyl air sealant 9 mm x 3 mm ⑤ between panel and flashing supports. PIR fire-rated board insulation at the corner.

The accessories numbered with (1), (2) etc, are detailed on page 17 & 18

The accessories numbered with (1), (2) etc, are detailed on page 17 & 18

FINISHING 1



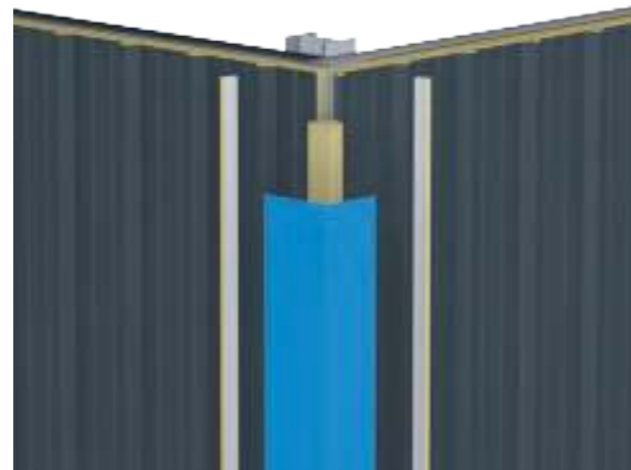
Butyl air sealant should always be used between any surface in contact with Roof panel. 1 x strip of Butyl airsealant 9 mm x 3 mm ⁵ is recommended

FINISHING 2



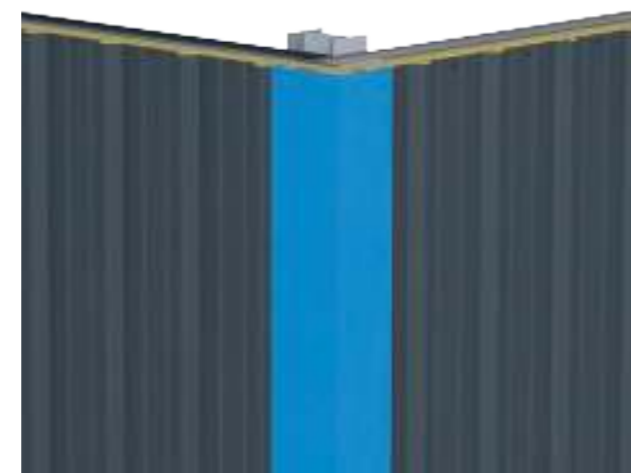
External flashing can be ordered with the same coating and colour as sandwich panels to promote the continuity of appearance. It is

FINISHING 1 - DETAIL



between panel and flashing supports. PIR fire-rated board insulation should be used at the corners to reduce thermal bridging.

FINISHING 2 - DETAIL



recommended to fix the external flashing to support with stitchers every 450 mm.

The accessories numbered with (1), (2) etc, are detailed on page 17 & 18

ACCESSORIES

FASTENERS

LIGHT STEEL SECTION FASTENERS

Steel Purlin Thickness	Panel Thickness mm	A2 Stainless Steel Fasteners		Carbon Steel Fasteners		A2 / Carbon
1,2 - 3,2 mm		Valley Fixing ¹	Crown Fixing ¹⁴	Valley Fixing ¹	Crown Fixing ¹⁴	Stitchers ²
	40	BM-CPLS082-S19-COL	BM-CPLS115-S19-COL	CPLS75-S19-COL	CPLS115-S19-COL	(BM) ST22-S16-COL
	60	BM-CPLS100-S19-COL	BM-CPLS135-S19-COL	CPLS85-S19-COL	CPLS135-S19-COL	
	80	BM-CPLS115-S19-COL	BM-CPLS150-S19-COL	CPLS115-S19-COL	CPLS150-S19-COL	
	100	BM-CPLS135-S19-COL	BM-CPLS180-S19-COL	CPLS135-S19-COL	CPLS175-S19-COL	
	120	BM-CPLS150-S19-COL	BM-CPLS240-S19-COL	CPLS150-S19-COL	CPLS240-S19-COL	
150	BM-CPLS180-S19-COL	BM-CPLS240-S19-COL	CPLS175-S19-COL	CPLS240-S19-COL		

¹ ² and ¹⁴ are the references presented on construction details

HEAVY STEEL SECTION FASTENERS

Steel Purlin Thickness	Panel Thickness mm	A2 Stainless Steel Fasteners		Carbon Steel Fasteners		A2 / Carbon
4,0 - 12,5 mm		Valley Fixing ¹	Crown Fixing ¹⁴	Valley Fixing ¹	Crown Fixing ¹⁴	Stitchers ²
	40	BM-CPHS080-S19-COL	BM-CPHS125-S19-COL	CPHS85-S19-COL	CPHS125-S19-COL	(BM) ST22-S16-COL
	60	BM-CPHS105-S19-COL	BM-CPHS125-S19-COL	CPHS105-S19-COL	CPHS125-S19-COL	
	80	BM-CPHS125-S19-COL	BM-CPHS150-S19-COL	CPHS125-S19-COL	CPHS150-S19-COL	
	100	BM-CPHS150-S19-COL	BM-CPHS190-S19-COL	CPHS150-S19-COL	CPHS185-S19-COL	
	120	BM-CPHS190-S19-COL	BM-CPHS190-S19-COL	CPHS185-S19-COL	CPHS245-S19-COL	
150	BM-CPHS190-S19-COL	BM-CPHS250-S19-COL	CPHS185-S19-COL	CPHS245-S19-COL		

¹ ² and ¹⁴ are the references presented on construction details

SEALANTS



Butyl tape air sealant 6 x 5 mm

High quality pressure sensitive butyl sealant Available in grey - 9,6 m a roll (reference ³ on construction details)



Butyl tape air sealant 9 x 5 mm

High quality pressure sensitive butyl sealant Available in grey - 6 m a roll (reference ⁵ on construction details)



Gun grade Mastic

High quality blend of rubber, fillers and polymer in gun-grade form. (reference ⁷ on construction details)



Fire rated foam insulation

High thermal performance insulation applied on site to reduce energy losses by thermal bridging. (reference ¹⁰ on construction details)



Profiled foam fillers

High quality Polyethylene fillers to fit the profile of Roof at the ridge. (reference ¹² on construction details)

FLASHINGS & OTHERS



Cleader angle -Structural
Should be part of the structure and provided by others. (Option for reference 6 on construction details)



External gutter
Should be part of the structure and provided by others. (Option for reference 8 on construction details)



Support arms for gutters
Same colour and finish as (Option for reference 9 on construction details)



Duopitch ridge external flashing (smooth)
Same colour and finish as outer sheet (Option for reference 11 on construction details)



Verge flashing
Same colour and finish as outer sheet (Option for reference 13 on construction details)



Verge flashing against wall/parapet
Same colour and finish as outer sheet (Option for reference 13 on construction details)



Metal cover strip
Should be part of the structure and provided by others. (Option for reference 15 on construction details)



Drip flashing
Should be part of the structure and provided by others. (Option for reference 16 on construction details)



Duopitch ridge internal flashing
Same colour and finish as inner sheet (Option for reference 4 on construction details)

WALLS



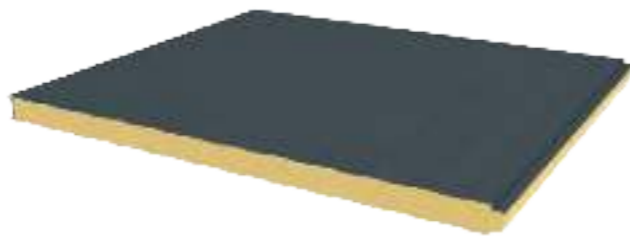
WALL 1000SF PIR

VERTICAL APPLICATION



WALL 1000SF PIR - VERTICAL APPLICATION STEP 1

With the Wall 1000SF PIR, allows for an architectural solution by combining the horizontal or vertical placed panels with accessories in different aesthetic finishes, coatings and colour throughout a wide range of external profiles. In this way the building can be designed as unique.



The Wall 1000SF PIR has a LPCB certificate and can be used as a firewall when mounted in accordance to Fire report. (more details on page 26) The panels are to be placed as indicated with 1 and 2. (Panels can be mounted upside-down starting on the opposite side depending on the predominant wind direction).

The accessories numbered with (1), (2) etc, are detailed on page 31 & 32

CLADDING RAILS - VERTICAL



Cladding Rails fixed to cleats mounted directly on columns. 1 x strip of Butyl tape air sealant 6 mm x 5 mm 1 applied on top and bottom rails.

CLADDING RAILS - EXTENSIONS



An extension of the cladding rails 2 is recommended to provide bearing for fixings of panels.

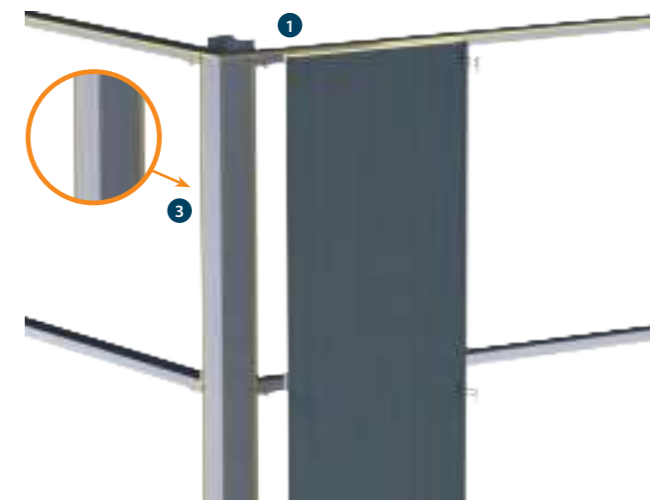
FIRST PANEL



First panel should be installed ensuring it is correctly fitted and installed within accepted tolerances. It will be reference to the other panels.

The accessories numbered with (1), (2) etc, are detailed on page 31 & 32

FIRST PANEL - DETAIL



An internal flashing 3 sealed with 1 x strip of Butyl tape air sealant 6 mm x 5 mm 1. 2 x through fixings should be used at corner position on each support. (Fixings will be covered by the external flashing.)

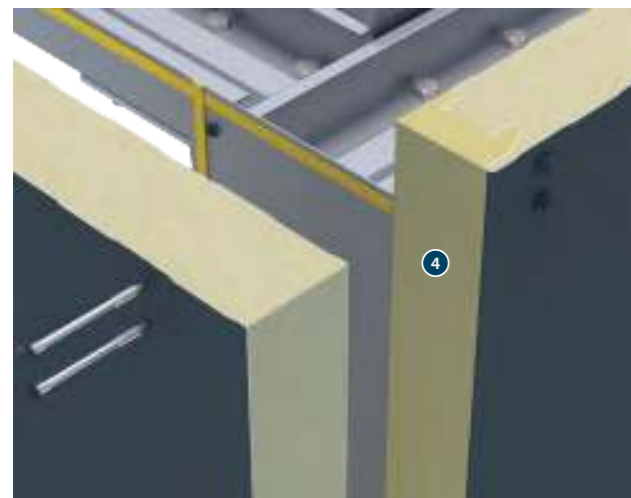
WALL 1000SF PIR - VERTICAL APPLICATION STEP 2

able to provide the best finishings for your building with a range of products that include sealants, flashings and fixings. Flashings can be ordered with the same coating and

colour as the sandwich panels. Stainless steel fixings will provide resistance to the most severe environment. More info on page 30 & 31.

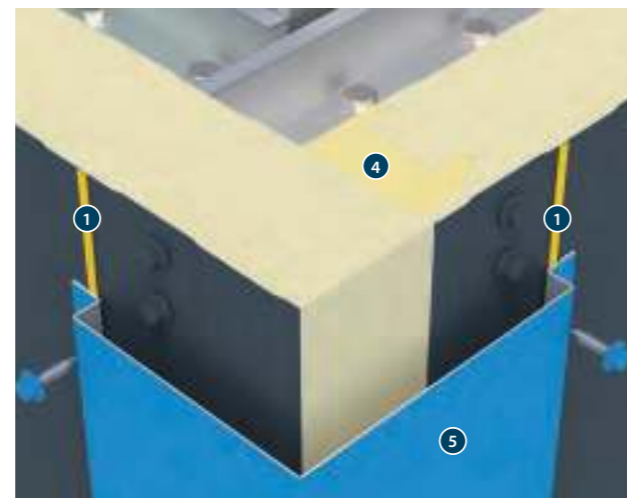


EXTERNAL CORNER



A fire rated site-applied foam insulation **4** to be used on female joint of panel to fill junction. Both panels should be fixed with 2 x through fixings.

EXTERNAL CORNER - FINISHING



The corner flashing **5** should be fixed to both panels with stitchings at every 450 mm. A strip of butyl tape air sealant 6 mm x 5 mm **1** between flashing and panels should be used.

The accessories numbered with (1), (2) etc, are detailed on page 31 & 32

SIDE JOINT - TOP



Panels to be fixed with min. 2 x main fixings (fasteners) **6** and 1 x spreader plate **7**. 1 x strip of butyl tape air sealant 6 mm x 5 mm **1** at top of spreader plate.

SIDE JOINT - BOTTOM



A second panel should be placed at the same level as first panel. Joint of second panel will cover fixings and spreader plate making this panel a "secret fixing panel".

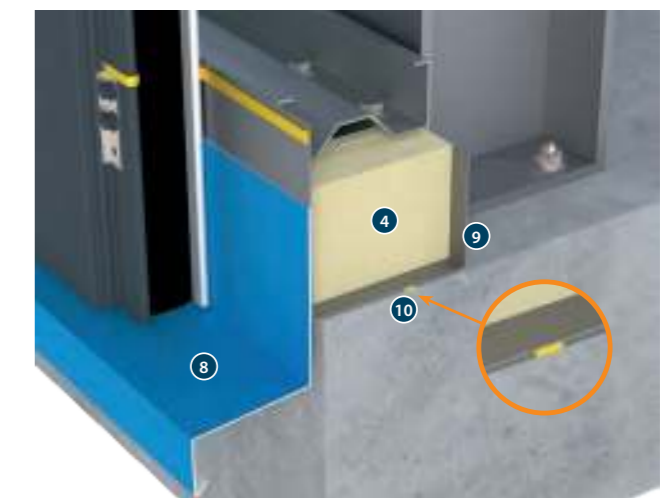
CLOSING WALL



Last panel to be cut on site on measure to close the corner.

The accessories numbered with (1), (2) etc, are detailed on page 31 & 32

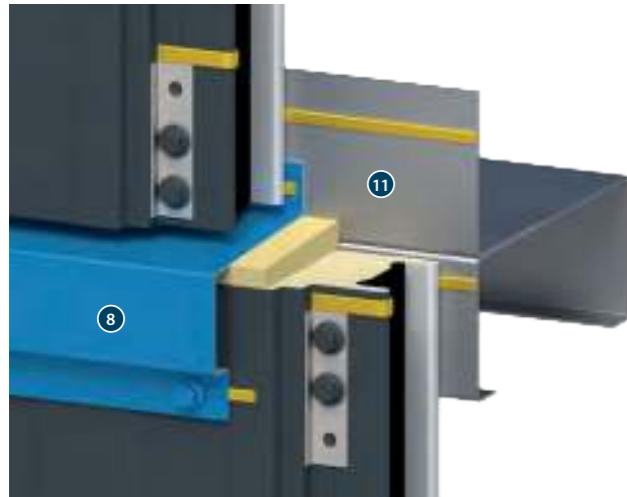
BOTTOM DRIP



Panels should be placed at min. 5 mm from drip flashing **8**. A fire rated site-applied foam insulation **4** to be used behind closure flashing **9** to minimize the thermal bridge. A gun-grade butyl sealant **10** before placing the closure flashing.

WALL 1000SF PIR - VERTICAL APPLICATION STEP 3

END JOINT



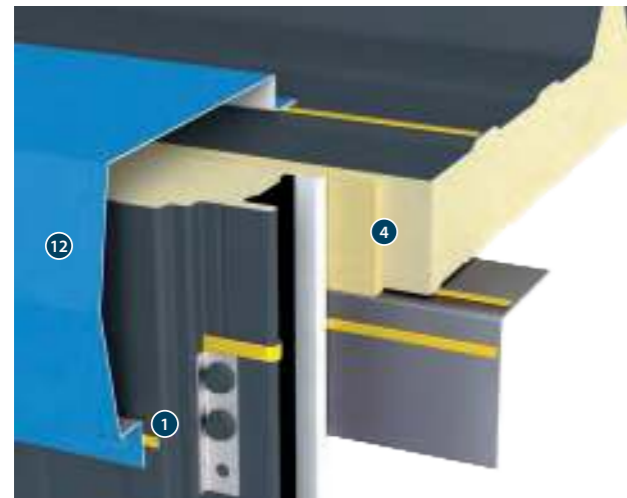
An extension to the support 11 should be fixed to the main rails to allow the bearing width to fix both panels. A drip flashing 8 should be fixed to the bottom panel.

END JOINT - WINDOW FRAME



When a window frame is used at the rails level, panels should be closed and protected like in a verge detail.

EXTERNAL VERGE - FINISHING



A fire rated site applied foam insulation 4 between roof and wall panels. Verge flashing 12 should be fixed to both panels with stitchings at every 450 mm. A strip of butyl tape air sealant 6 mm x 5 mm 1 between flashing and panels.

EXTRA INFORMATION

This installation guide can be supplemented by the information presented in the Roof PIR Installation guide. Verge details or eaves detail should be taken from the Roof PIR Installation guide.

The accessories numbered with (1), (2) etc, are detailed on page 31 & 32

FIREWALL WALL 1000SF PIR



Wall 1000SF PIR can be used as fire wall and will give protection from the inside when mounted in accordance with the fire test report. The Wall 1000SF PIR has a LPCB (Loss Prevention Certification Board EXT-B). Grade (certificate No : 700a to LPS181 : Part 1 : Issue 1) and can contribute to the firewall with up to 120 min integrity and 20 min insulation.



LPS 1181
Cert/LPCB ref. N 700a

SECONDARY SUPPORTS / RAILS

The panel must be limited to a maximum of 4000 mm. The secondary support system must be a 'Fire Wall' system, which contains slotted connections and nylon washers to relieve stresses induced by thermal expansion.

PRIMARY FASTENERS

All primary fasteners must be the high threaded type manufactured from anti-corrosion carbon steel or stainless steel complete with washer and cap. The fixings are subject to cladding design conditions and wind loading. To comply with the requirements of BS6399: Part 2: 1997 it may be necessary to provide additional fixings in areas of high local suction.

SECONDARY FASTENERS

Joints between panels to be stitched at 300 mm centres.

SIDE JOINT - FIREWALL



Wall 1000SF PIR has proven to achieve more than 120 min integrity and more than 20 min insulation when fixed with stitchings on the inside at every 300 mm.

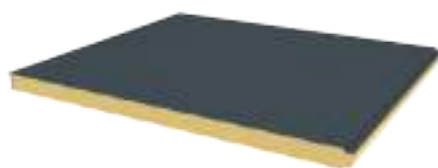
WALL 1000SF PIR

HORIZONTAL APPLICATION



WALL 1000SF PIR - HORIZONTAL APPLICATION STEP 1

With the Wall 1000SF PIR, allows for an architectural solution by combining the horizontal or vertical placed panels with accessories in different aesthetic finishes, coatings and colour throughout a wide range of external profiles. In this way the building can be designed as unique.



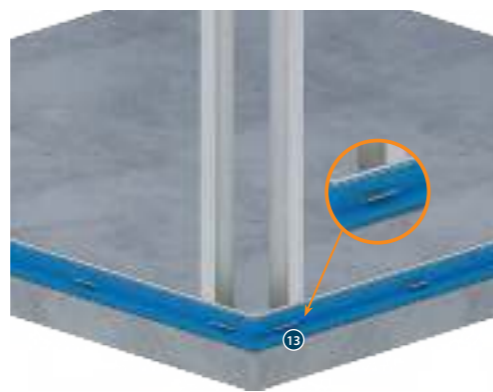
CLADDING RAILS - HORIZONTAL



Horizontal panels can be directly fixed to the main columns without requiring secondary steelwork.

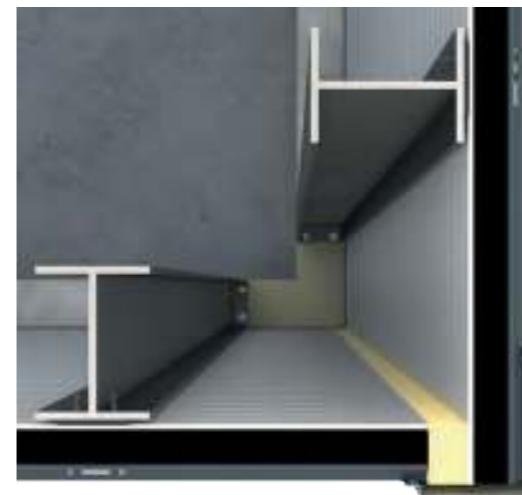


CORNER - STRUCTURAL COLUMNS



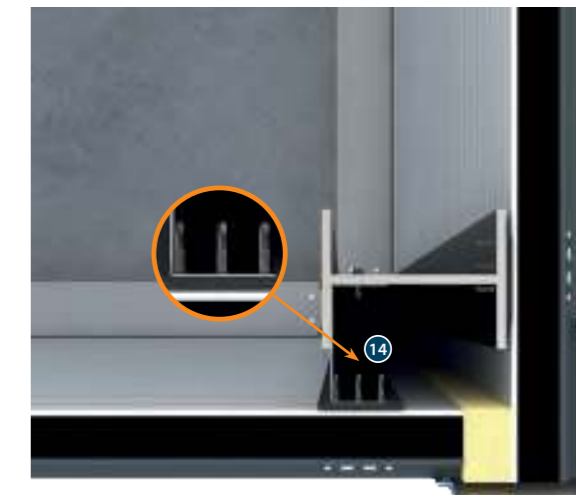
Panels bearer **13** at the end of panels and at max. every 1500 mm fixed to bottom structural element.

COLUMNS ARRANGEMENT - OPTION 1



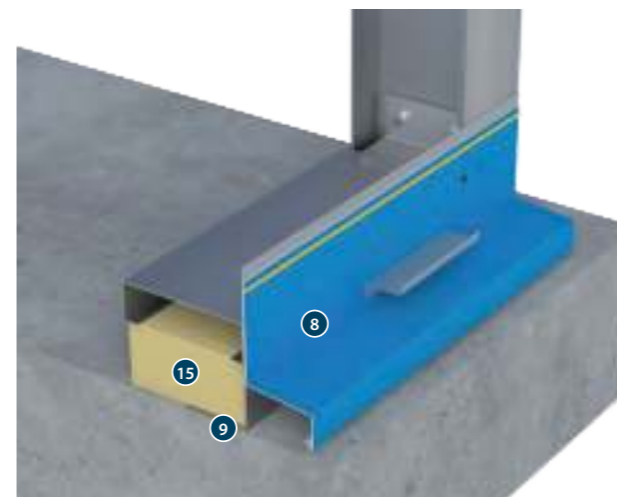
A building with 2 columns at the corner will make the panels working as a cantilever on both walls. The maximum cantilever is limited to 300 mm (subject to design approval).

COLUMNS ARRANGEMENT - OPTION 2



The corner column will only provide bearing support to one side/wall. A cold formed fixed to the web of the columns **14** is recommended to provide the required support to both walls.

BOTTOM DRIP



PIR board insulation **15** and fire rated site applied foam insulation **4** to fill any gaps. An internal closure flashing **9** placed over a strip of butyl tape air sealant 6 mm x 5 mm **1**. The drip flashing **8** is fixed to the internal closure.

EXTERNAL CILL



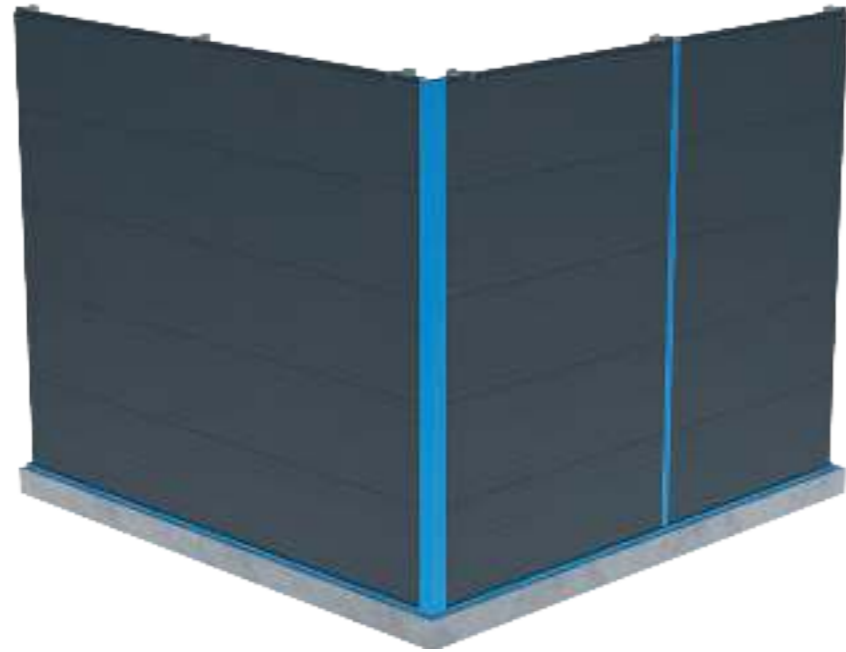
Before placing the horizontal panels, it is recommended to use an EPDM band **16** to protect the contact between panels and structural columns.

The accessories numbered with (1), (2) etc, are detailed on page 31 & 32

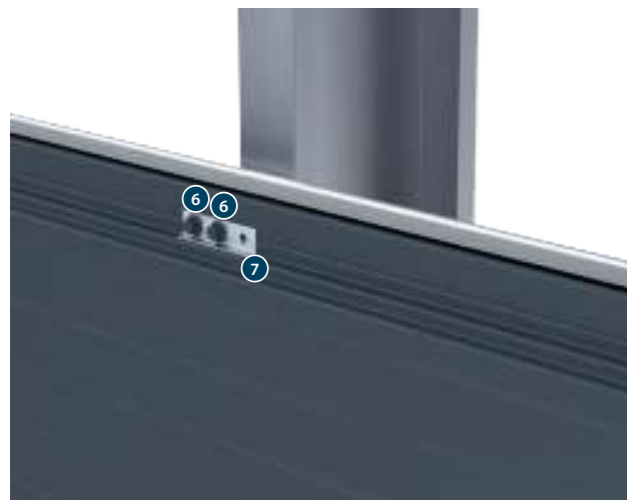
WALL 1000SF PIR - HORIZONTAL APPLICATION STEP 2

able to provide the best finishings for your building with a range of products that include sealants, flashings and fixings. Flashings can be ordered with the same coating and

colour as the sandwich panels. Stainless steel fixings will provide resistance to the most severe environment. More info on page 30 & 31.

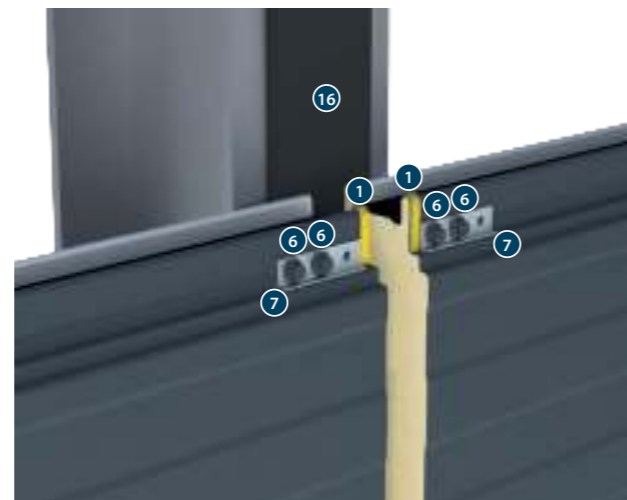


INTERMEDIATE SUPPORT



The panels must be fixed to intermediate supports with a min. of 2 main fixings (fasteners) **6** and 1 spreader plate **7**.

VERTICAL JOINT



When 2 panels meet each other at one column, an EPDM band **16** is required to protect the contact between panels and structural element. Both panels are to be fixed with min. 2 main fixings (fasteners) **6** and 1 spreader plate **7**. Strip of butyl tape air sealant 6 mm x 5 mm **1** is recommended at the end of each panel.

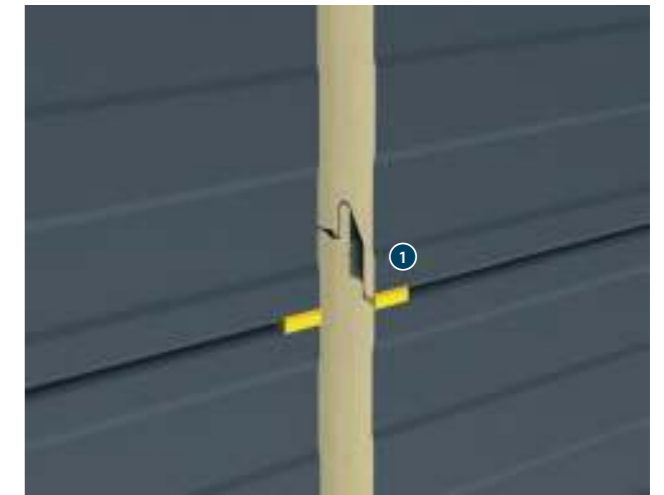
The accessories numbered with (1), (2) etc, are detailed on page 31 & 32

SIDE JOINT



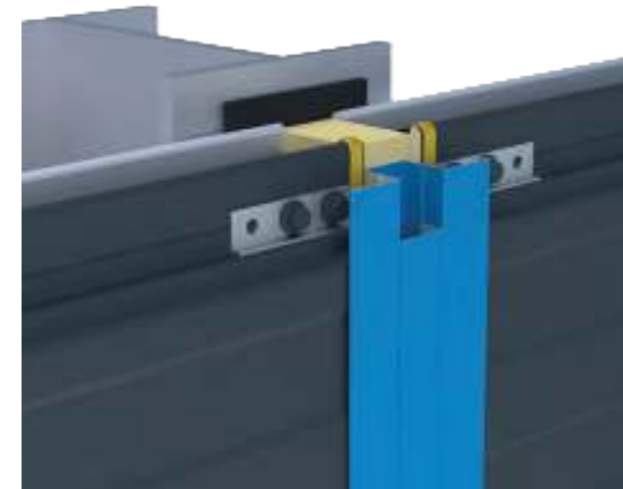
A second panel should be mounted next to the first one. The side joint should cover the fixings and spreader plate.

END JOINT



1 x strip of butyl tape air sealant 6 mm x 5 mm **1** at the end of panels to protect the intersection.

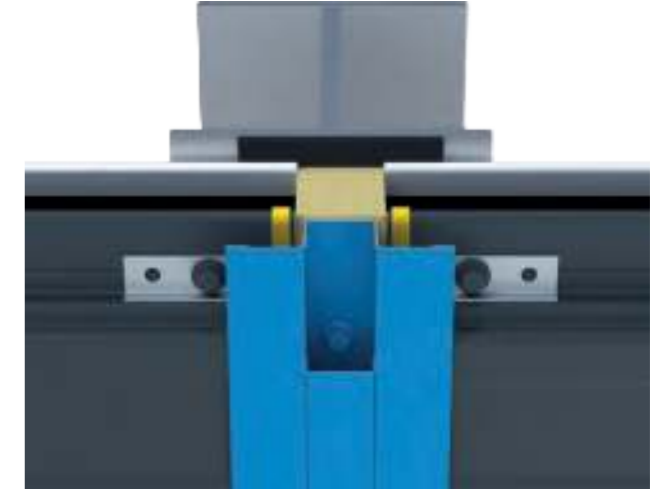
VERTICAL JOINT - VIEW 1



A fire rated site-applied foam insulation **4** should be used before placing the top hat that will cover the vertical joint. The contact between the top hat and the panels should be protected with 1 x strip of butyl tape air sealant 6 mm x 5 mm **1** on each side.

The accessories numbered with (1), (2) etc, are detailed on page 31 & 32

VERTICAL JOINT - VIEW 2



The top hat should be fixed with fixings at every 450 mm. In order to avoid the web of the columns, a minor deviation might be required to allow the fixing to pass through the flange of the structural element.

FASTENERS

STEEL SECTION FASTENERS

Steel Purlin Thickness	Panel Thickness mm	A2 Stainless Steel Fasteners		Carbon Steel Fasteners	
		Light steel section (1,2 - 3,2 mm) ⑥	Heavy steel section (4 - 12,5 mm) ⑥	Light steel section (1,2 - 3,2 mm) ⑥	Heavy steel section (4 - 12,5 mm) ⑥
1,2 - 3,2 mm	60	BM-LS75-S16	BM-HS75-S16	LS57-A16	HS75-S16
	80	BM-CPLS100-S16	BM-CPHS105-S16	CPLS85-S16	CPHS105-S16
	100	BM-CPLS115-S16	BM-CPHS125-S16	CPLS115-S16	CPHS125-S16
	120	BM-CPLS135-S16	BM-CPHS150-S16	CPLS135-S16	CPHS150-S16
	150	BM-CPLS180-S16	BM-CPHS190-S16	CPLS150-S16	CPHS185-S16

⑥ is the references presented on construction details

Steel Purlin Thickness	Panel Thickness mm	A2 / Carbon	Panel Bearer Fasteners	
			Light steel section (1,2 - 3,2 mm)	Heavy steel section (4 - 12,5 mm)
1,2 - 3,2 mm		Stitchers		
	60	(BM)-LS25-S16	(BM)-LS25-S16	BM-HS38-S16
	80			
	100			
	120			
150				

SEALANTS



Butyl tape air sealant 6 x 5 mm
High quality pressure sensitive butyl sealant Available in grey - 9,6 m a roll (reference ③ on construction details)



Fire rated site-applied foam insulation
High thermal performance insulation applied on site to reduce energy losses by thermal bridging. (reference ④ on construction details)



Gun grade butyl sealant
High quality blend of rubber, fillers and polymer in gun-grade form. (reference ⑩ on construction details)

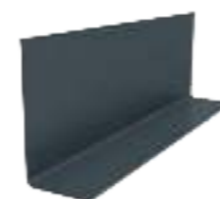


PIR board insulation
(reference ⑮ on construction details)



EPDM band
(reference ⑯ on construction details)

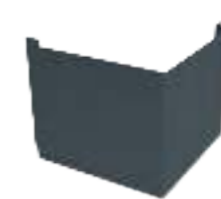
FLASHINGS & OTHERS



Extension to cladding rails
Galvanized steel with the same protection as rails (reference ② on construction details)



Duopitch ridge internal flashing
Same colour and finish as inner sheet (Option for reference ③ on construction details)



Corner flashing
Same colour and finish as outer sheet (Option for reference ⑤ on construction details)



Spreader plate
Delivered with sandwich panels. (Option for reference ⑦ on construction details)



Drip flashing
Galvanized steel with the same protection as rails. (Option for reference ⑧ on construction details)



Closure flashing
Galvanized steel with the same protection as rails. (Option for reference ⑨ on construction details)



Extension to the support
Galvanized steel with the same protection as rails. (Option for reference ⑪ on construction details)



Verge flashing
Same colour and finish as outer sheet (Option for reference ⑫ on construction details)

A. MEP SOLUTIONS:

1. CABLE MANAGEMENT SYSTEMS

Cable Management Systems are economic, wire and cable management systems designed to meet the requirements of local and electrical wire installers and comply to international standards of fabrication and finishing.



STANDARDS

Cable Management Systems, trays, fittings and accessories from SFSP are manufactured in compliance with:

- IEC 61537-2006
- CEI EN 61537:2007 (International Electrotechnical Commission (Cable Management, Cable Tray Systems and Cable Ladder Systems).
- NEMA VE 1 - 2011 (National Electrical Manufacturers Association (Metal Cable Tray Systems).
- NEMA VE 2 - 2015 (National Electrical Manufacturers Association (Metal Cable Tray Installation Guidelines).
- NEMA VE 1 / NFPA 70 (National Electrical Code (Metal Cable Tray Code Lines).

a. Cable Trays & Accessories

Cable trays provide significant advantages in cable filling over other wiring methods resulting in savings in the size or number of raceways required, and reducing both material and labor costs.

Material Thickness

1.0 mm | 1.25 mm | 1.50 mm | 2.00 mm

Side Heights:

30mm, 75mm, 100mm

Available Widths:

50, 100, 150, 200, 225, 300, 400, 450, 500, 600, 700, 800, 900, 1000 mm

Fittings: Bend 45°, Bend 90°, Intersection, Outside Bend, Bend 45° Inside Bend, Bend 45° Outside Bend, Bend 90°, Inside Bend, Bend 90°, Tee Branch, Reducer



b. Cable Trunkings

Cable Trunkings are used to protect cables from damage and dust and pre square in shops. Our cable trunkings system comes in a variety of thicknesses and sizes and is available in three types: Single, Double and Triple compartments.

Available Thicknesses: 1 mm - 12 mm - 15 mm

Lengths: 2400 and 3000 mm

Fittings: Bend 45° Top Lid, Bend 45° Inside Lid, Bend 45° Outside Lid, Bend 90° Top Lid, Bend 90° Inside Lid, Bend 90° Outside Lid, Tee Bend Top Lid, TEE Bend Inside Lid, TEE Bend Outside Lid, Intersection, Reducers

Dimensions:

50 x 50 mm	60 x 50 mm	80 x 100 mm
75 x 75 mm	75 x 75 mm	100 x 100 mm
100 x 50 mm	100 x 100 mm	150 x 100 mm
100 x 75 mm	100 x 100 mm	150 x 100 mm
100 x 100 mm	200 x 100 mm	300 x 100 mm

c. Cable Ladders

Ring Types (Swaged And Channel)

Material Thickness

1.5 mm, 2.00 mm, 2.50 mm

Swaged Type (Aluminum & Steel)

- Rounded tubular with 25 mm diameter
- Ring standard spacing 220 mm

Channel Type (Steel)

- Flange or drilled, and can be mounted upwards or downwards
- Ring standard spacing 220 mm

Rail Types

- C-Type, Z-Type and P-Type

Side Heights: 60, 75, 100, 150, 180, 200, 250 mm

Fittings: Bend 45°, Bend 90°, Tee Branch, Horizontal Cross (Intersection), Inside Vertical Elbow (Inside Bend), Outside Vertical Elbow (Outside Bend), Straight Central Reducers, Right and Reducers, Left, Bend Reducers

d. Basket Trays & Accessories

Basket Tray System enables fast and simple connections with limited need for tools. Its design allows continuous airflow, and prevents the buildup of dust, contaminants and bacterial proliferation.

Wire Ø: 1mm

Side Heights: 55mm, 80mm, 105mm, 130mm

Widths: 50, 100, 150, 200, 300, 400, 500, 600 mm

Fittings: 90° Bends, Curved Inside Bends, Vertical Inside Bends, Horizontal Tee (Cross) Reducers, Central Reducers, Left & Right Reducers



e. Underfloor Trunkings

Underfloor Trunking Systems solutions incorporate a range of products for the distribution of power and data services. It is a coordinated set of components that protect, segregate, contain, and route cables within a given environment.

Flush Floor Trunking System includes:

- Trunking
- Drip bar
- Junction box
- Coupler and leveling kit
- Tying hardware and leveling for trunking
- Leveling for junction box
- Floor
- Floor box (support plate + lid and trim), Socket outlets and data socket plates to be ordered separately

Screed Floor Trunking System includes:

- Trunking
- Coupler
- Junction box
- Tying brackets
- Wet set trunking support D.P
- Floor
- Floor box (back-box + lid and trim), Socket outlets and data socket plates to be ordered separately

f. Cable Support Systems

Cable Support Systems are well designed to provide necessary support for cable trays, cable ladders and trunkings. Cable supports are manufactured according to common standards from high quality raw materials.

- Cantilever Arm Brackets
- Wall Brackets
- L-Support
- T-Support
- Support Accessories (Connectors, Plates, Damper Angles)



2. C CHANNEL STRUT SYSTEMS

C-channel metal framing is cold formed on modern rolling machines from low carbon steel manufactured according to BS 900-BS98. A continuous roll provides the ability to make adjustments at any point.

Finishes: Hot Galvanized Steel - Hot Dip Galvanized Steel - Stainless Steel
Track sizes: 15, 20, 25 mm

Channel Dimensions		Thickness
Height (mm)	Width (mm)	
15 mm	40 mm	1.5 mm
20 mm	60 mm	1.5 mm
25 mm	80 mm	1.5 mm
30 mm	100 mm	2.0 mm
40 mm	140 mm	2.0 mm
50 mm	180 mm	2.0 mm
60 mm	220 mm	2.5 mm
75 mm	280 mm	2.5 mm



Galvanized With Brackets - 300

Galvanized With Brackets - 300 - 300



3. PIPE CLAMPS & HANGERS

Pipe Clamps and Hangers are used in the support of pipes and equipment and are manufactured according to the highest standards of fabrication. A diversified choice of Pipe Hangers, Pipe Clamps, EMT Straps, Omega Clamps, Beam Clamps, J and U Bolts, and Threaded Accessories.

Applicable Standards

- US SPA Specifications for pipe hangers and support
- ASTM F 755 standard practice for design and installation of rigid pipe hangers
- Federal Specifications, WWH 311E (Hangers and Support)
- A-1122 A (Bracket, Pipe)
- AWS D15.57-98 Pipe Hangers and Supports - Materials, Design, Fabrication, Selection, Application, and Installation
- MSS SP-48 Pipe Hangers and Support-Selection and Application
- MSS SP-47 Guidelines for Pipe Support Control of Bolt Tightness
- MSS SP-68 Pipe Hangers and Support-Fabrication and Installation Practices
- MSS SP-60 Guidelines for Fabrication for Pipe Hangers and Support
- MSS SP-62 Welding for Pipe Systems, Seismic - Weld - Dynamic Design, Selection, Application

FLOWERS

B. BLOCKWORK AND PLASTERING SOLUTIONS

1. EXPANDED METALS, PLASTER BEADS

Expanded Metals help the formation of joints, protection of corners and resistance against cracks, chips and impact damage.

Relevant Standards:

- BS EN 12659 - 2
- ASTM A997-13
- BS EN 845-2:2010, A1:2010
- ASTM A 951/A 951M - 2010

Products:

- Angle Bead
- Corner Mesh
- Plaster Stop Bead
- Architrave Bead
- Movement Bead
- Metal Sheet Lath
- 3/4 Mesh
- Cell Lath
- 1/4 Rib Lath

2. STEEL LINTELS

Steel lintels offers an economical, efficient and timely effective solution when compared to ordinary lintels. Steel lintels range have safe working loads ensure the most safe application to installers, taking into account the different loading arrangements.

Standards:

- BS EN 845-2:2010-A1:2010
- BS EN 845-2:2010-A1:2010
- BS EN 845-3:2010-A1:2010
- ASTM A706 / A706M

3. BLOCK LADDER

S737 ladder and truss types are used for the reinforcement of brick and block masonry to give improved tensile strength to walls subjected to lateral loading (eg. wind and seismic).

Block reinforcements reduces the risk of cracking either as stress concentration around opening.

4. BLOCKWORK ACCESSORIES

A full range of types and brands are offered suitable for use in the construction of cavity walls and block tying.

Manufactured as per BS EN 845-1:2010-A1:2010

Frame cranks with a single 7mm diameter hole or an 8mm x 30mm vertical slot can be fixed to concrete, steelwork or masonry.

- Debonding Cavity Block Tie
- Dowel Ties
- Adjustable Wall Ties
- Taper Wall Ties
- Double Triangle Wall Ties
- Debonding Cavity Joins Flat Tie
- Hammer-On Section
- Z-Type Wire Tie
- Z-Type Wire Tie
- Butterfly Wall Tie
- Adjustable Head Reentrant
- Reentrant Top Angle
- Partition Tie And Anchors
- Sure-Tie for Steel



C. FAÇADE WORK SOLUTIONS

1. MARBLE & GRANITE MECHANICAL CLADDING SYSTEMS

Single Cladding Fixation includes design, calculation and production of several types of mechanical fixings and accessories used for cladding purposes. Stainless and galvanized steel are among the various materials used in the fabrication.

Standards:

- ASTM A276 / A276M
- ASTM A995 - 5
- BS 2318:1200
- BS 7449-1:1991
- BS EN ISO 5833-1:2006
- BS 5969-1:2010
- BS EN 1304-A:2005+A1:2010
- BS EN 1042:2010
- DIN EN 580-1:2010
- DIN EN 580-2:2011
- DIN EN 583-1:2010
- DIN EN 583-2:2010
- DIN EN 580-1:2010
- DIN EN 580-1:2010
- DIN EN 580-1:2010

Material:

- SS304, SS316, SS316L, SS316Ti, SS316-03, SS316-0400

Brackets:

- L-Bracket (Standard & Serrated)
- L-Bracket (Standard & Serrated) Up Angle
- L-Bracket (Standard & Serrated) Down Angle
- L-Bracket (Standard & Serrated) Up and Down Angle
- Z-Bracket with Back Leg
- Omega Bracket
- Flange Up & down
- Flange with Pin
- Load bearing and restraining corrugated stud.

2. CONCRETE ANCHORING SYSTEMS AND ACCESSORIES

A range of concrete anchors of variable lengths and finishes with low energy impact and power-saving assembly.

Material:

- Zinc Plated Steel
- 316 Stainless Steel (A193 Type 316 (A))

Anchors:

- Expander Bolt Steel anchoring: Suitable for all screws or threaded bolts with metric thread with inside threaded anchor, allowing great flexibility.
- Drop In Anchor: Provides permanently fixed threaded socket in concrete at a low setting depth to reduce drilling time.
- Sleeve anchor: Provides optimum performance in most base material types and an effective force distribution in the drilled hole.
- Through Wedge Anchor: Special design of the tip in stainless steel which ensures a safe hold in the hole. Through control of expansion.
- Shield Anchor: Force controlled expansion with flexibility inside threaded anchor. Pressed steel design ensures consistent dimensional accuracy.

3. METAL FRAMING SYSTEMS

Metal framing floor-to-floor system using front-to-back channels with support plates provides a solution for a variety of brackets according to the cavity between the panel and the backwall.

A complete system is available including brackets, anchors, spring pins, and concrete anchors.

For higher cavities up to 300 mm a metal framing system back support system for adjustable large cavities is used with support brackets.

FLOWERS

D. PARTITIONING SOLUTIONS

DRY WALL & CEILING PROFILES

Profiles for drywall and ceiling are manufactured in accordance with ASTM C1067 and ASTM C560 requirements. They are made from:

Pre-galvanized steel complying with:

- IS EN 1069-2012 - steel grade Z275 zinc coating type G275
- ASTM A653 G90
- IS EN 1047

Types of Profiles:

- Studs
- Runners
- Main Channels
- Finishing Channels



E. WASTE MANAGEMENT SOLUTIONS

GARBAGE & LINEN CHUTES

Chutes are very convenient, simple and low cost method of controlling and disposing of refuse and linen. SFSP Chutes meet the most stringent requirements of environmental health and safety. Chutes are used as original equipment in new buildings such as: hotels, hospitals, high rises and residential towers.

Finishes: SS 304, SS 316, 316 Galvanized Steel

SFSP provides the following material gauges:

- 15mm (16 Gauge)
- 20mm (14 Gauge)
- 30mm (11 Gauge)

SFSP chutes are available with the following standard internal diameters:

- 90mm (36") 150mm (62") 300mm (24")
- 700mm (28") 800mm (32") 900mm (36")

System includes:

- Chute Tube
- Smoke Bypass
- Hopper Door
- Clamp Ring & Supporting Frame
- Access Door
- Blow
- Fire Cut Off Door
- Control Panel
- Deodorizing & Sanitizing Unit
- Solid Roll
- Tube with Insect Screen & Exhaust Fan
- Opening System & Re-closing Device
- Cloning & Fire Sprinklers
- Garbage Container
- Generator



Supply advanced architectural and Industrial Products

A. Flooring Systems:

1. Raised Access Floorings
2. Entrance Matting System
3. Tactile Paving
4. Floor Finish (Carpet, Vinyl, Hardwood)

B. Building Impact Protection Systems:

1. Lateral (Architectural Impact Protection System)
2. External Speed Bumps, Bumper Guards, Heavy duty wall and corner guards

C. Partitions Solutions

1. Tolerant Partitions and accessories
2. Acoustic panel partitions

D. Architectural Profile (Wall, Floor Ceiling)

E. Expansion Joint Systems

F. Landscape Solutions

1. Landscape Run Lines
2. Art Faced Grates
3. Rillards

G. Acoustical Solutions

H. Firestopping Systems

FLOWERS

PLYWOOD

Thin Faced

STANDARD SIZE: 4' X 8' X 12MM 4' X 8' X 18MM



RUSSIAN

INDONESIA

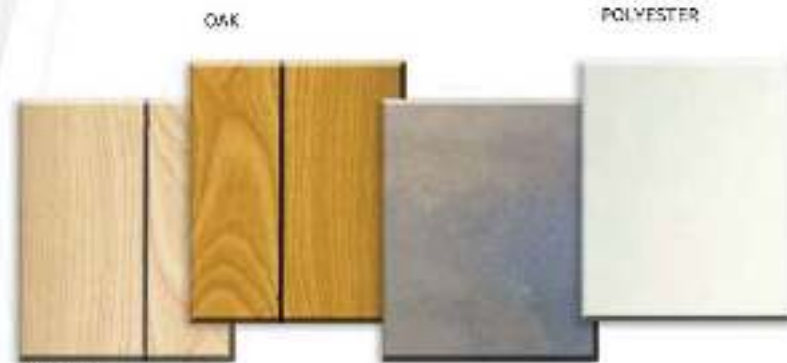
PLYWOOD

JLOOR

STANDARD SIZE: 4' X 8' X 3.6MM

آبنگاش

دکور



WHITE ASH

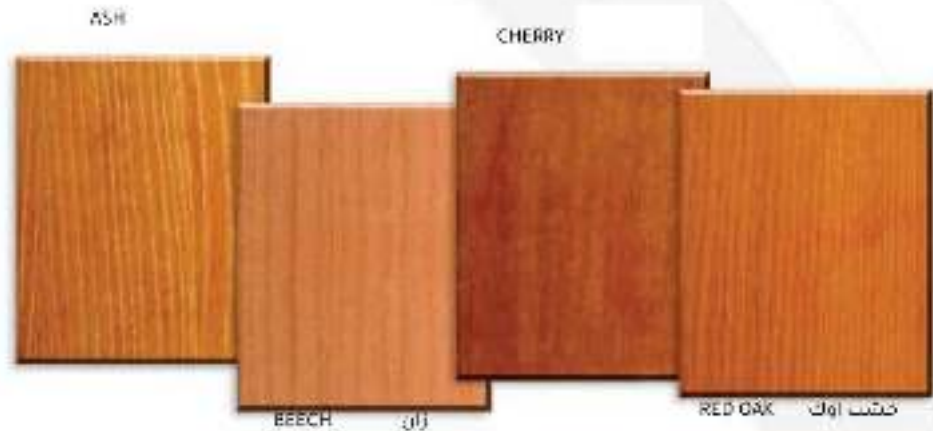
OAK

POLYESTER

PLYWOOD

VENEERED

STANDARD SIZE: 4' X 8' / 3' X 7' THICKNESS 3.6MM
OTHER VENEER SPECIES, SIZES AND THICKNESSES AVAILABLE ON REQUEST



ASH

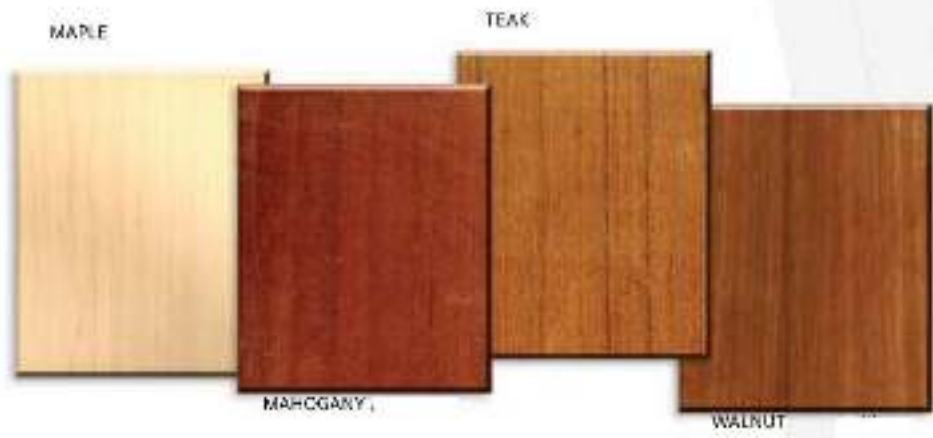
CHERRY

BEECH

زان

RED OAK

خشک اوک



MAPLE

TEAK

MAHOGANY

WALNUT

BOARDS



BOARDS

BLOCKBOARDS

STANDARD SIZE: 4' X 8' X 18MM

STANDARD SIZE: 4' X 8' X 18MM ONE SIDE AND BOTH SIDE
AVAILABLE IN GLOSSY AND MATT TEXTURE



PLAIN BLOCKBOARD



POLYESTER BLOCKBOARD

BOARDS

VENEERED BLOCKBOARDS

TEAK



ASH



BEECH



RED OAK



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[theflowercorner_events](https://www.instagram.com/theflowercorner_events)

FLOWERS *And More*