

The Ondatherm Roofing System can be fitted to Hot Rolled or Cold Formed Secondary Steel Support. Please note: Main Fixings stating secondary support must be specified at time of order.



ArcelorMittal

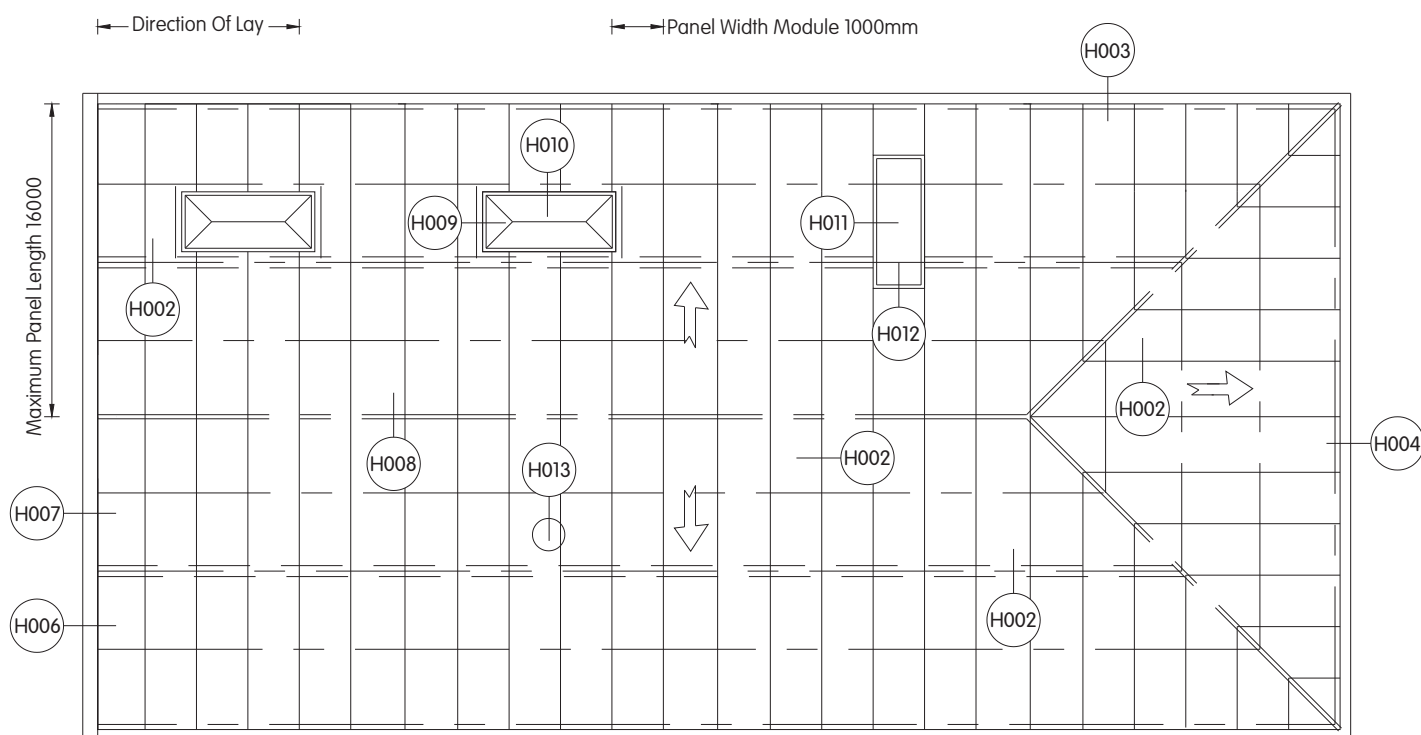
Ondatherm - Roofing 1001TSF

Roof can be laid to 2.5 degrees design slope

Note: The Lidl agreed design is 3 panel lengths per slope eg 2 laps. All fixings & sealants to be supplied by ArcelorMittal

120A - Metal Cladding

Metal Cladding	ArcelorMittal Ondatherm trapezoidal face fix composite roofing panels with a Flat (No Profile) Liner
Panel reference	ArcelorMittal -Ondatherm
Manufacturer	ArcelorMittal Lammerdries 82440Geel Belgium website:www.continentaldeckingprofiles.com



Sole UK Agent for ArcelorMittal Construction

Continental Decking Profiles Ltd Suite 6,
Enterprise House Southbank Business Park,
Kirkintilloch
Glasgow G66 1XQ

Telephone: 0141 530 1485
Fax: 0141 530 1486
Email: Info@continentaldeckingprofiles.com
Website: www.continentaldeckingprofiles.com

N° H001 - Key Plan

(Note: All installations should comply with the recommendations contained in MCRMA Technical Papers N° 12 & 14; BS3200 and other relevant national standards)



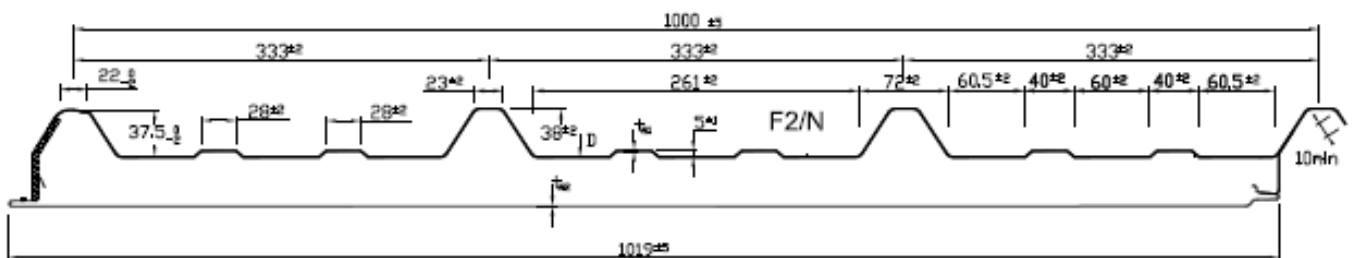
Lidl UK GmbH Specific Ondatherm Roofing 1001TSF

ArcelorMittal

Note: The Lidl agreed design is 3 panel lengths per slope eg 2 laps. All fixings & sealants to be supplied by ArcelorMittal

120A - Metal Cladding

External facing material	0.70mm galvanized cold rolled steel sheet grade S320G to EN10326 & EN10346
Finish/colour	Colorissme range HairExcel Colour 9006 to EN10169
Internal facing material	0.63mm gauge galvanized cold rolled steel sheet grade S320G to EN10326 & EN10346
Finish/colour	<u>Flat (No Profile) Interior Hairplus White 9010 to EN10169</u>
Core insulation	LPCB approved Polyisocyanate Insulation core giving $U_c[W/(m.K)]$: 120mm - 0.19, 140mm-0.16
Fire resistance	B1-S2 do to Euronorms



N° H002 - Panel Arrangement

(Note: All installations should comply with the recommendations contained in MCRMA Technical Papers N° 12 & 14; BS3200 and other relevant national standards)



Lidl UK GmbH Specific OndathermRoofing1001TSF

ArcelorMittal

Note: The Lidl agreed design is 3 panel lengths per slope eg 2 laps. All fixings & sealants to be supplied by ArcelorMittal

120A-MetalCladding

Primary cladding fasteners Self tapping and self drilling screws Stainless steel, colour coated heads.

Number and location of fasteners

1 N° fastener at every support rail per crown fixed (3 fixings per panel at each purlin) with saddle washers plus intermediate side lap fasteners at 450mm centres. At end laps, 3 stitching fixings per trough (9 fixings per end lap) through 200mm end lap to lower panel through centre of 18mm x 4mm seal.

Fixing Cladding

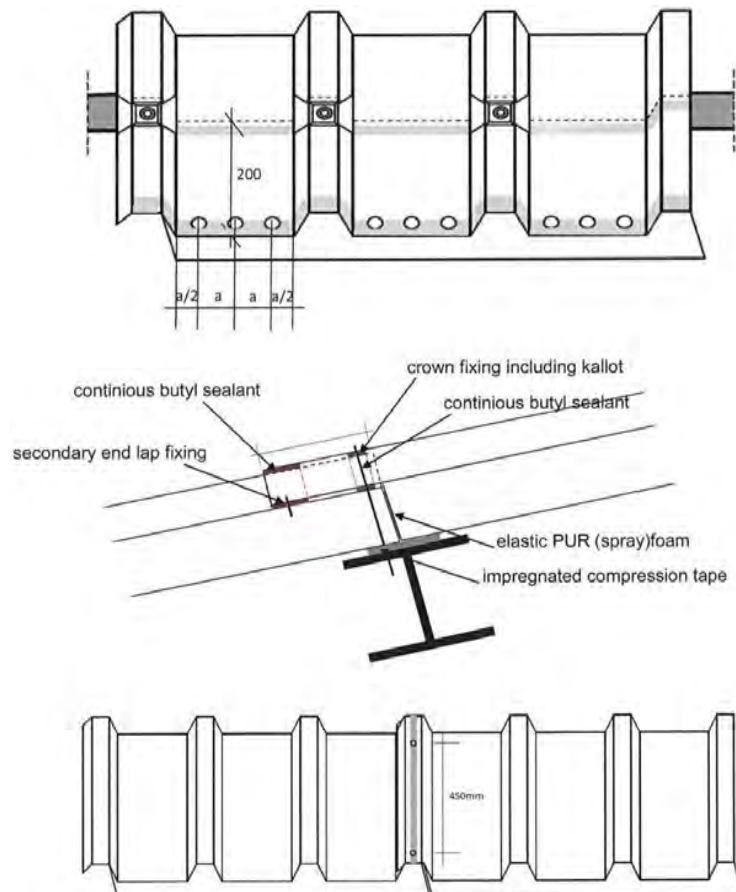
210G Structure Check that the structure is in a suitable state to receive the cladding before commencing fixing. Subcontractor must confirm acceptance to main contractor.

215 Structure Do not fix cladding until final coats of paint have been applied to all contact surfaces of supporting structure, and remove all dust and foreign matter before finally fixing panels into position.

Drill all holes and install fasteners at regular intervals in straight lines, centred on support bearings.

Install fasteners to correct tightness using special tools recommended by the fastener manufacturer. When used, screw guns must be fitted with depth sensitive devices and be used at the correct speed.

Check fasteners on completion and adjust as necessary to ensure that they are watertight and sheeting is secure but not buckled or distorted.



N° H003 - Primary Fasteners

[Note: All installations should comply with the recommendations contained in MCRMA Technical Papers N° 12 & 14; BS3200 and other relevant national standards]



ArcelorMittal

Lidl UK GmbH Specific Ondatherm - Roofing 1001TSF

Note: The Lidl agreed design is 3 panel lengths per slope eg 2 laps. All fixings & sealants to be supplied by ArcelorMittal

120A - Metal Cladding

Primary cladding fasteners Self tapping and self drilling screws Stainless Steel Colour coated head.

Number and location of fasteners

1 N° fastener at every support rail per crown fixed (3 fixings per panel at each purlin) with saddle washers plus intermediate side lap fasteners at 450mm centres. At end laps, 3 stitching fixings per trough (9 fixings per end lap) through 200mm end lap to lower panel though centre of 18mm x 4mm seal.

Sealing Cladding

550A Seals

Side Lap- Rolled steel, full interlocking longitudinal male/female edges giving weather tight side lap joint.

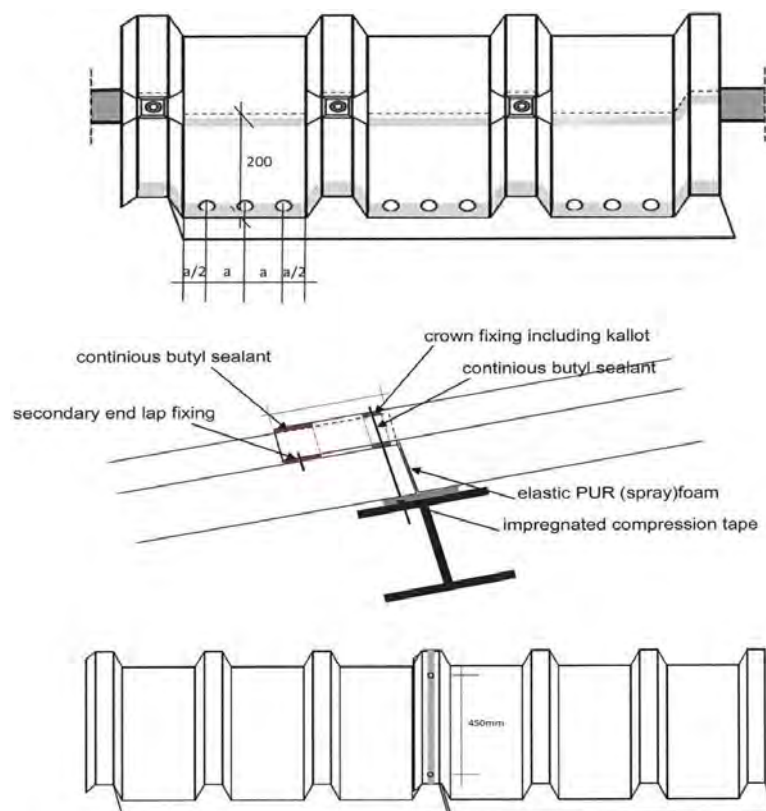
Side Lap Sealant: Butyl 9mm x 3mm continuous

End Lap- Extended top profile with foam core and bottom profile cutback to give a fully sealed overlap joint (200mm) 2 strips of Butyl tape 2 x 18mm x 4mm U shaped, gun grade PUR foam to be site applied to the butt joint of the foam.

554A Vapour seals

End Lap Air Sealant tape: 80mm x 8mm compressible airseal strip positioned in straight unbroken lines at panel supports & centred to the panel joint. Do not allow tape to be stretched into position.

Ensure continuity and effectiveness of seal, especially at sheet corners. Ensure adequate over-compression to achieve required vapour seal.



N° H004 - Sealing Joints

(Note: All installations should comply with the recommendations contained in MCRMA Technical Papers N° 12 & 14; BS3200 and other relevant national standards)



ArcelorMittal

Ondatherm Roofing 1001TSF

Note: The Lidl agreed design is 3 panel lengths per slope eg 2 laps. All fixings & sealants to be supplied by ArcelorMittal

120A - Metal Cladding

Accessories

Matching flashings and support zeds.

Fittings and accessories generally

221 Accessories

Cappings, closure pieces, flashings, trims cills, gutters, fillers, spacers, tapes, sealants, fixing setc, where not specified, are to be types as recommended by ArcelorMittal.

223 Isolating Tape

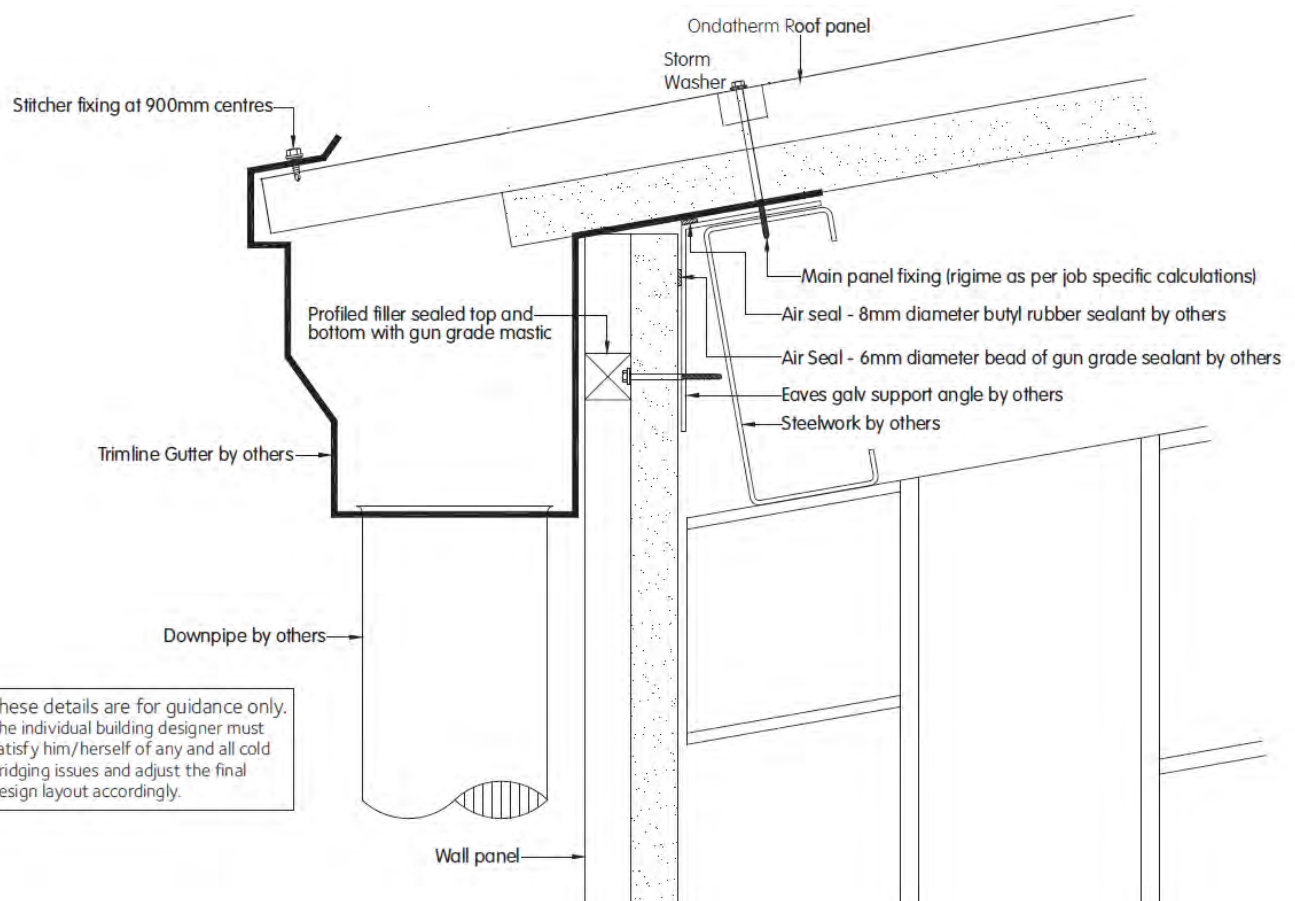
A type recommended for the purpose by ArcelorMittal. Apply to those surfaces of supports which would otherwise be in contact with cladding or accessories after fixing.

310A Purpose made cold formed metal accessories

Material: Galvanized cold rolled steel sheet grade S220 GD.
Thickness/gauge: 0.63mm minimum.
Finish/colour: External - Colorissime range. HairExcel 9006 Colour
Internal- Flat (No Profile) Interior 9010

Workmanship as NBSS standard Section Z22.

Ondatherm/Structure with 5.5mm stitchers screws at multiples of 450mm centres.



N° H005 - Eaves Gutter 1

(Note: All installations should comply with the recommendations contained in MCRMA Technical Papers N° 12 & 14; BS3200 and other relevant national standards)



ArcelorMittal

Ondatherm Roofing 1001TSF

Note: The Lidl agreed design is 3 panel lengths per slope eg 2 laps. All fixings & sealants to be supplied by ArcelorMittal

120A - Metal Cladding

Accessories Matching flashings and support zeds.

Fittings and accessories generally

221 Accessories Cappings, closure pieces, flashings, trims cills, gutters, fillers, spacers, tapes, sealants, fixings etc, where not specified, are to be types as recommended by ArcelorMittal.

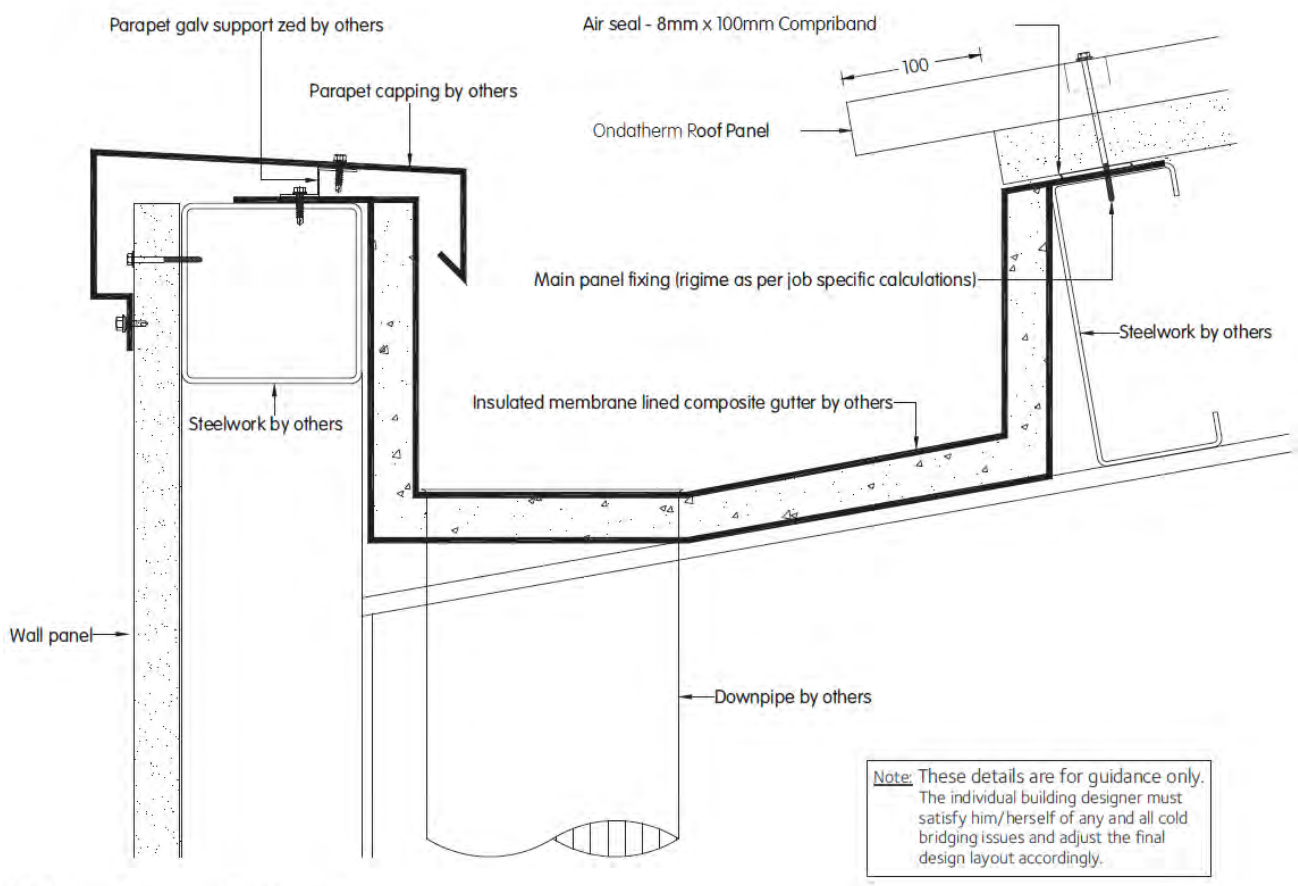
223 Isolating Tape A type recommended for the purpose by ArcelorMittal. Apply to those surfaces of supports which would otherwise be in contact with cladding or accessories after fixing.

310A Purpose made cold formed metal accessories
 Material: Galvanized cold rolled steel sheet grade S220 GD.
 Thickness/gauge: 0.63mm minimum.
 Finish/colour: External - Colorissime range HairExcel Standard Colour.

Internal- Flat Liner (No Profile) Interior 9010

Workmanship as NBS Standard Section Z22.

Fix to Ondatherm/Structure with 5.5mm stitcher screws at multiples of 450mm centres





ArcelorMittal

Ondatherm Roofing 1001TSF

Note: The Lidl agreed design is 3 panel lengths per slope eg 2 laps. All fixings & sealants to be supplied by ArcelorMittal

120A - Metal Cladding

Accessories

Matching flashings and support zeds.

Fittings and accessories generally

221 Accessories

Cappings, closure pieces, flashings, trims cills, gutters, fillers, spacers, tapes, sealants, fixing set, where not specified, are to be types as recommended by ArcelorMittal.

223 Isolating Tape

A type recommended for the purpose by ArcelorMittal. Apply to those surfaces of supports which would otherwise be in contact with cladding or accessories after fixing.

310A Purpose made cold formed metal accessories

Material: Galvanized cold rolled steel sheet grade S220 GD.

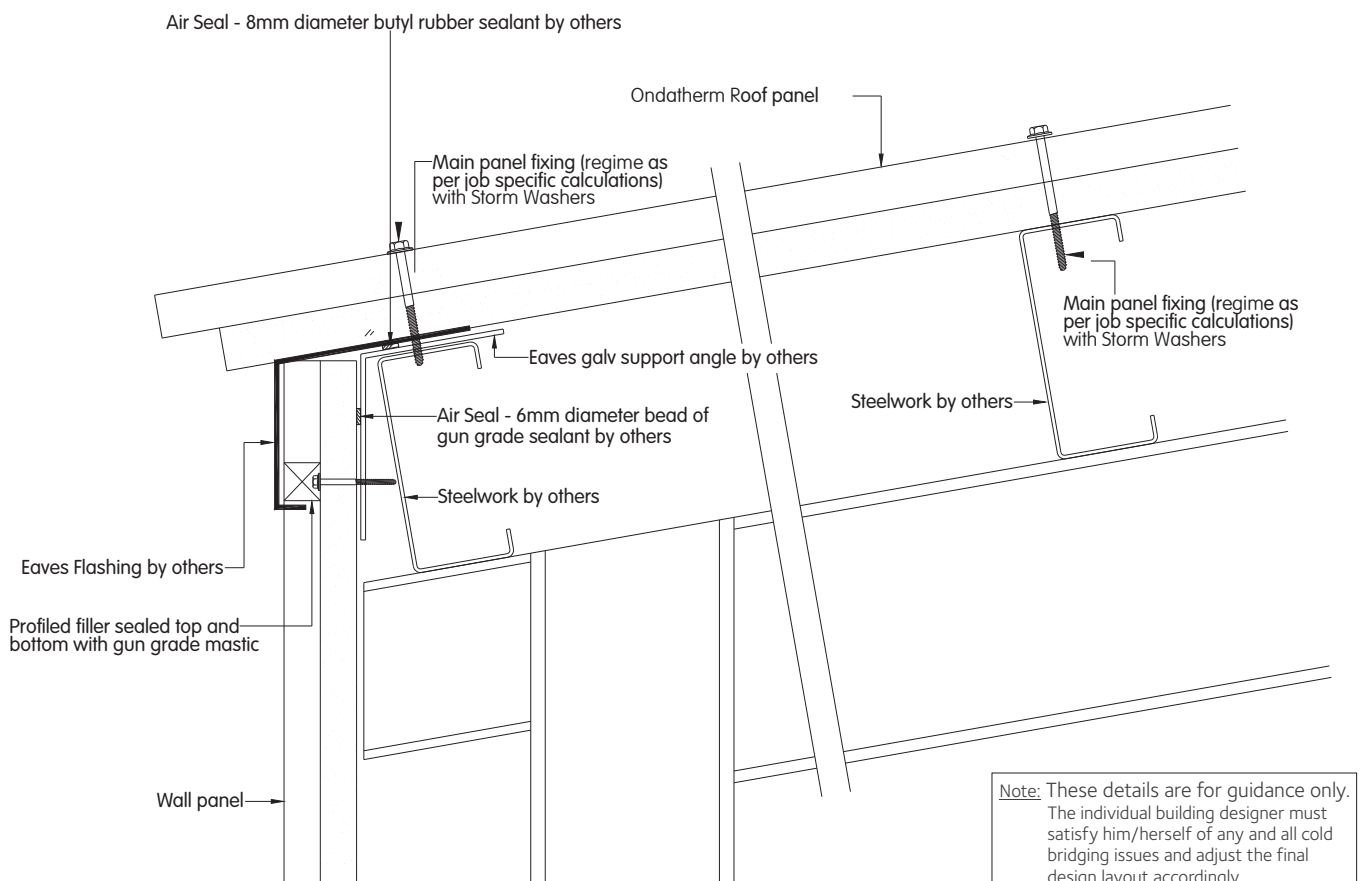
Thickness/gauge: 0.63mm minimum.

Finish/colour: External - Colorissime HairExcel 9006

Internal- **Flat Liner (No Profile) Interior 9010**

Workmanship as NBS Standard Section Z22.

Fix to Ondatherm/Structure with 5.5mm stitcher screws at multiples of 450mm centres



Note: These details are for guidance only. The individual building designer must satisfy him/herself of any and all cold bridging issues and adjust the final design layout accordingly.

N° H007 - Eaves Overhangs

(Note: All installations should comply with the recommendations contained in MCRMA Technical Papers N° 12 & 14; BS3200 and other relevant national standards)



ArcelorMittal

Ondatherm Roofing 1001TSF

Note: The Lidl agreed design is 3 panel lengths per slope eg 2 laps. All fixings & sealants to be supplied by ArcelorMittal

120A - Metal Cladding

Accessories

Matching flashings and support zeds.

Fittings and accessories generally

221 Accessories

Cappings, closure pieces, flashings, trims, cills, gutters, fillers, spacers, tapes, sealants, fixings etc, where not specified, are to be types as recommended by ArcelorMittal.

223 Isolating Tape

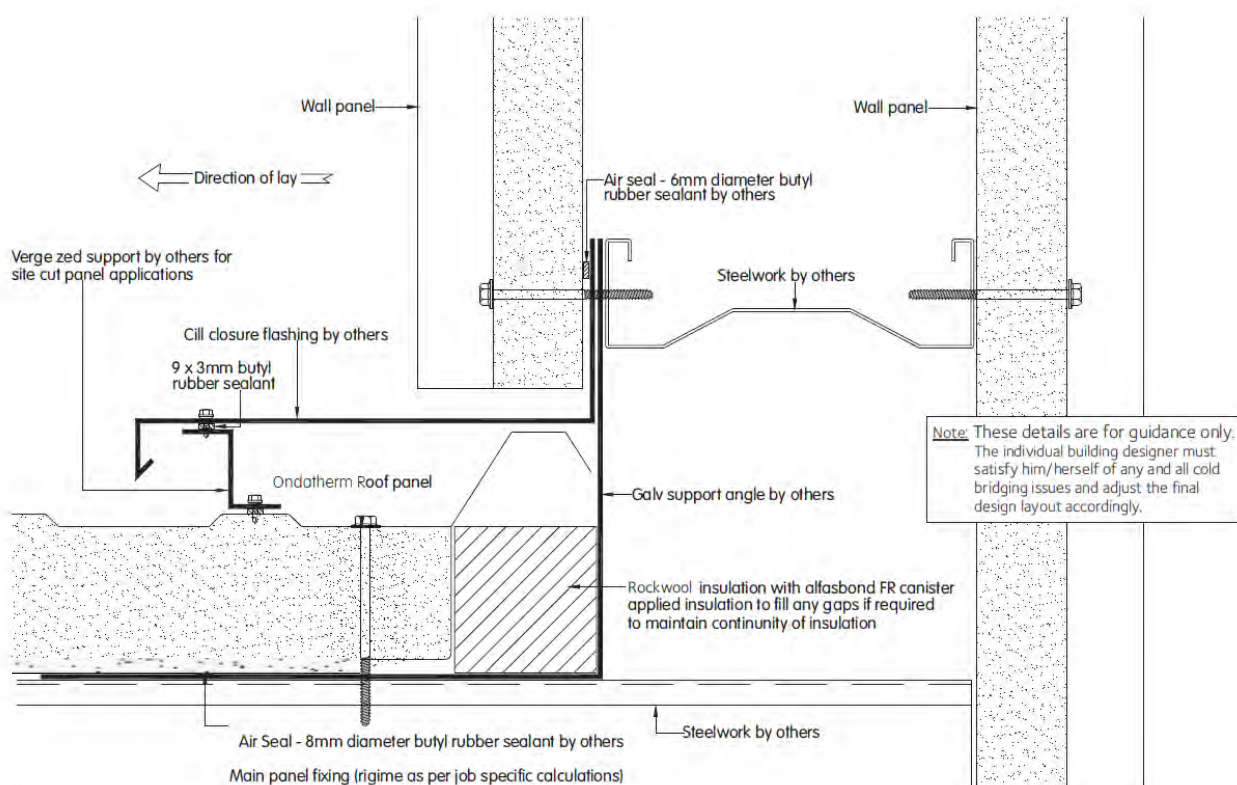
A type recommended for the purpose by ArcelorMittal. Apply to those surfaces of supports which would otherwise be in contact with cladding or accessories after fixing.

310A Purpose made cold formed metal accessories

Material: Cold rolled steel sheet grade S220 GD.
Thickness/gauge: 0.75mm minimum.
Finish/colour: External - Colorissime range.
Internal - Interior 9010

Workmanship as NBS Standard Section Z22.

Fixing to Ondatherm/Structure with 5.5mm stitcher screws at multiples of 450mm centres





ArcelorMittal

Ondatherm Roofing 1001TSF

Note: The Lidl agreed design is 3 panel lengths per slope eg 2 laps. All fixings & sealants to be supplied by ArcelorMittal

120A - Metal Cladding

Accessories

Matching flashings and support zeds.

Fittings and accessories generally

221 Accessories

Cappings, closure pieces, flashings, trims cills, gutters, fillers, spacers, tapes, sealants, fixings etc, where not specified, are to be types as recommended by ArcelorMittal.

223 Isolating Tape

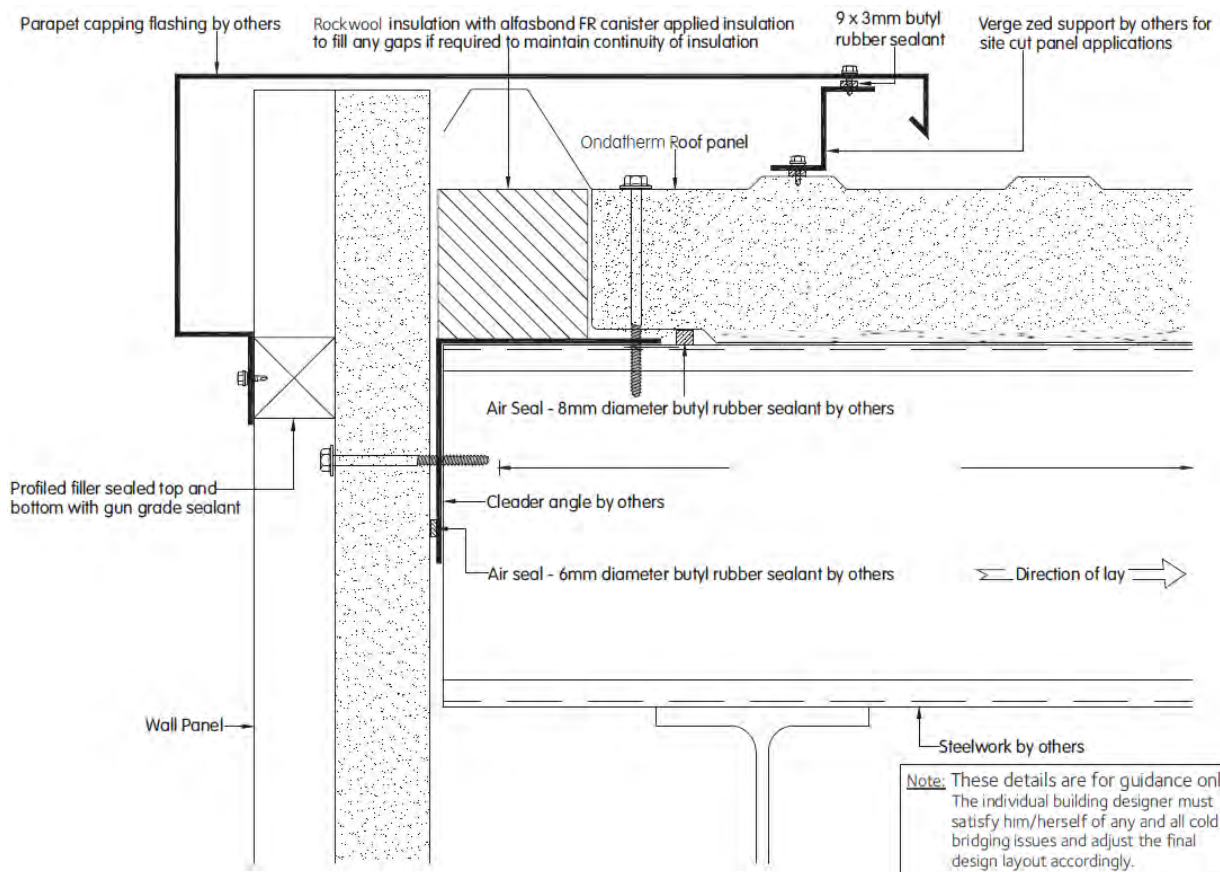
A type recommended for the purpose by ArcelorMittal. Apply to those surfaces of supports which would otherwise be in contact with cladding or accessories after fixing.

310A Purpose made cold formed metal accessories

Material: Galvanized cold rolled steel sheet grade S220 GD.
Thickness/gauge: 0.63mm minimum.
Finish/colour: External - Colorissime range HairExcel 9006 Colour,
Internal - Interior Flat (No Profile) 9010

Workmanship as NBS Standard Section Z22.

Fix to Ondatherm/Structure with 5.5mm stitcher screws at multiples of 450mm centres





ArcelorMittal

Ondatherm Roofing 1001TSF

Note: The Lidl agreed design is 3 panel lengths per slope eg 2 laps. All fixing & sealants to be supplied by ArcelorMittal

120A - Metal Cladding

Accessories Matching flashings and support zeds.

Fittings and accessories generally

221 Accessories Cappings, closure pieces, flashings, trims cills, gutters, fillers, spacers, tapes, sealants, fixings etc, where not specified, are to be types as recommended by ArcelorMittal.

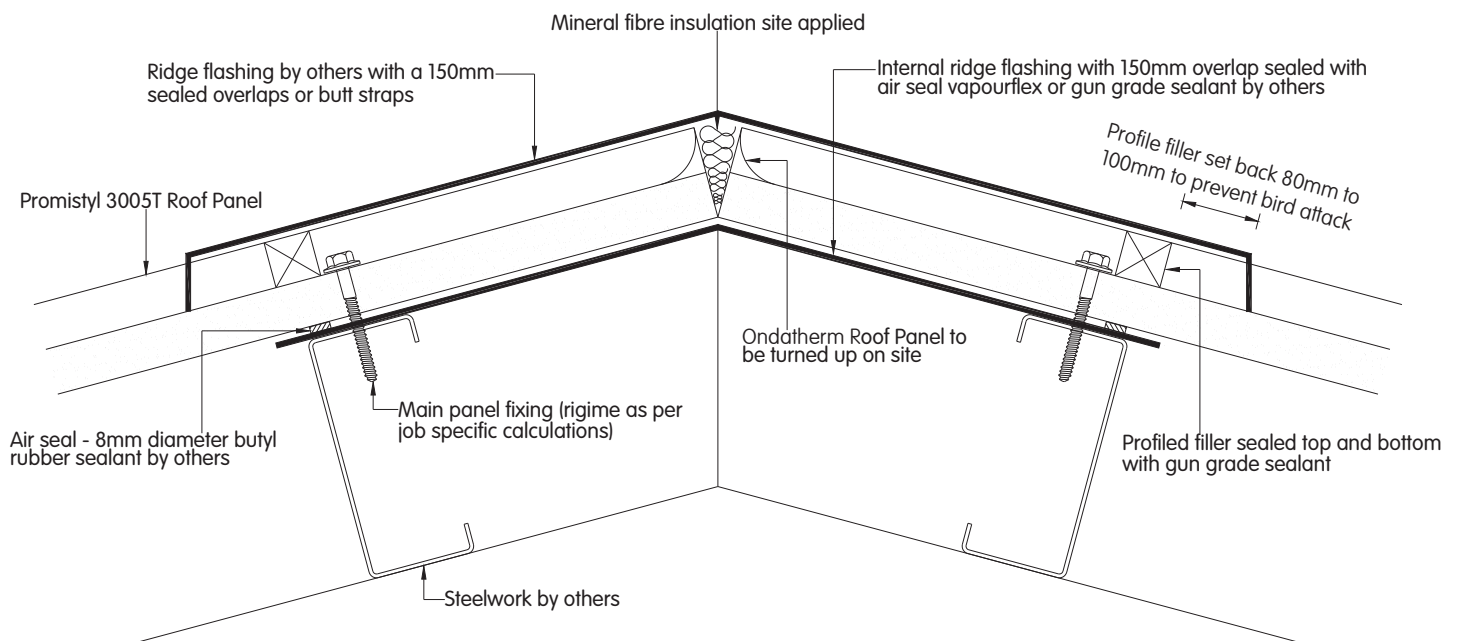
223 Isolating Tape A type recommended for the purpose by ArcelorMittal. Apply to those surfaces of supports which would otherwise be in contact with cladding or accessories after fixing.

310A Purpose made cold formed metal accessories

Material:	Galvanized cold rolled steel sheet grade S220 GD.
Thickness/gauge :	0.63mm minimum.
Finish/colour:	External - Colorissime range Hairexcel Standard Colour.
Internal -	<u>Interior Flat (No Profile) 9010</u>

Workmanship as NBS Standard Section Z22.

Fixing of Ondatherm/Structure with 5.5mm stitcher screws at multiples of 450mm centres



Note: These details are for guidance only. The individual building designer must satisfy him/herself of any and all cold bridging issues and adjust the final design layout accordingly.



ArcelorMittal

Ondatherm Roofing 1001TSF

Note: The Lidl agreed design is 3 panel lengths per slope eg 2 laps. All fixing & sealants to be supplied by ArcelorMittal

120A - Metal Cladding

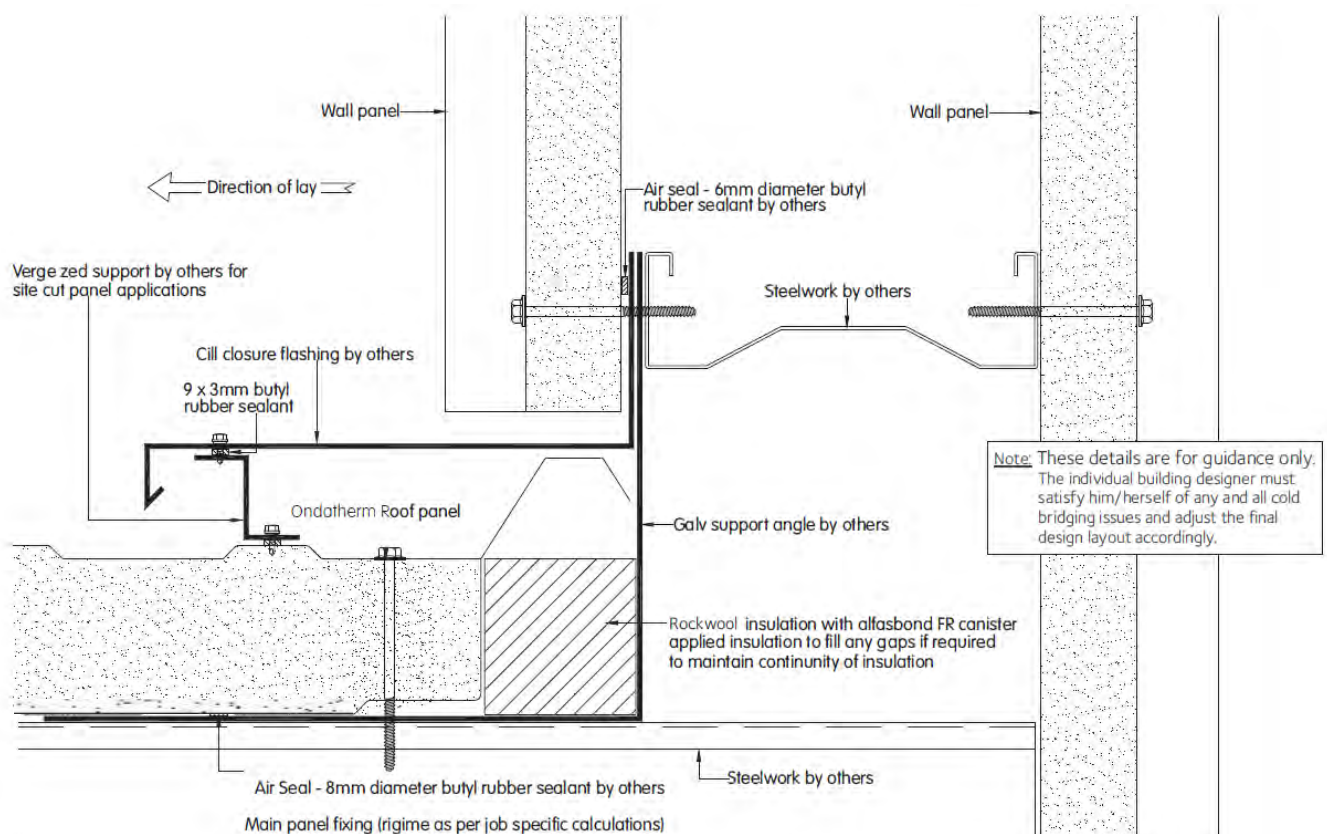
Accessories Matching flashings and support zeds.

Fittings and accessories generally

- 221 Accessories Cappings, closure pieces, flashings, trims cills, gutters, fillers, spacers, tapes, sealants, fixings etc, where not specified, are to be types as recommended by ArcelorMittal.
- 223 Isolating Tape A type recommended for the purpose by ArcelorMittal. Apply to those surfaces of supports which would otherwise be in contact with cladding or accessories after fixing.
- 310A Purpose made cold formed metal accessories
- | | |
|------------------|---|
| Material: | Galvanized cold rolled steel sheet grade S220 GD. |
| Thickness/gauge: | 0.63 mm minimum. |
| Finish/colour: | External - Colorissime range Hairexcel Standard Colour. |
| Internal - | <u>Interior Flat (No Profile) 9010</u> |

Workmanship as NBS Standard Section Z22.

Fix to Ondatherm/Structure with 5.5mm stitcher screws at multiples of 450mm centres





ArcelorMittal

Ondatherm Roofing 1001TSF

Note: The Lidl agreed design is 3 panel lengths per slope eg 2 laps. All fixings & sealants to be supplied by ArcelorMittal

120A - Metal Cladding

Accessories

Matching flashings and support zeds.

Fittings and accessories generally

221 Accessories

Cappings, closure pieces, flashings, trims, cills, gutters, fillers, spacers, tapes, sealants, fixings etc, where not specified, are to be types as recommended by ArcelorMittal.

223 Isolating Tape

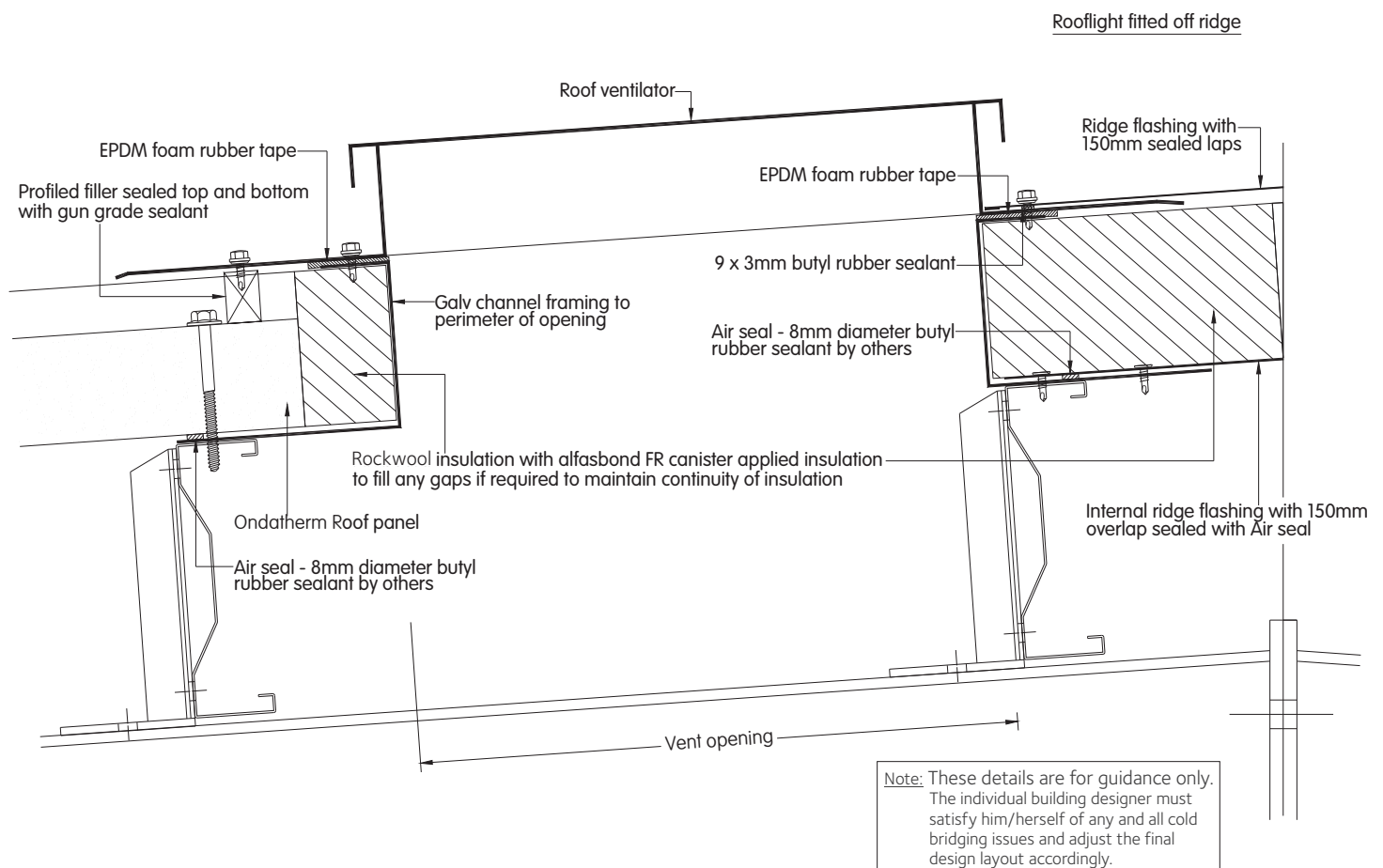
A type recommended for the purpose by ArcelorMittal. Apply to those surfaces of supports which would otherwise be in contact with cladding or accessories after fixing.

310A Purpose made cold formed metal accessories

Material: Galvanized cold rolled steel sheet grade S220GD.
Thickness/gauge: 0.63mm minimum.
Finish/colour: External - Colorissime range Harexcel 9006 Colour
Internal - Interior Liner Flat (No Profile) 9010

Workmanship as NBS Standard Section Z22.

Fix to Ondatherm/Structure with 5.5mm stitcher screws at multiples of 450mm centres.



N° H012 - Rooflights 2

(Note: All installations should comply with the recommendations contained in MCRMA Technical Papers N° 12 & 14; BS3200 and other relevant national standards)



ArcelorMittal

Ondatherm Roofing 1001TSF

Note: The Lidl agreed design is 3 panel lengths per slope eg 2 laps. All fixings & sealants to be supplied by ArcelorMittal

120A - Metal Cladding

Accessories

Matching flashings and support zeds.

Fittings and accessories generally

221 Accessories

Cappings, closure pieces, flashings, trims cills, gutters, fillers, spacers, tapes, sealants, fixings etc, where not specified, are to be types as recommended by ArcelorMittal.

223 Isolating Tape

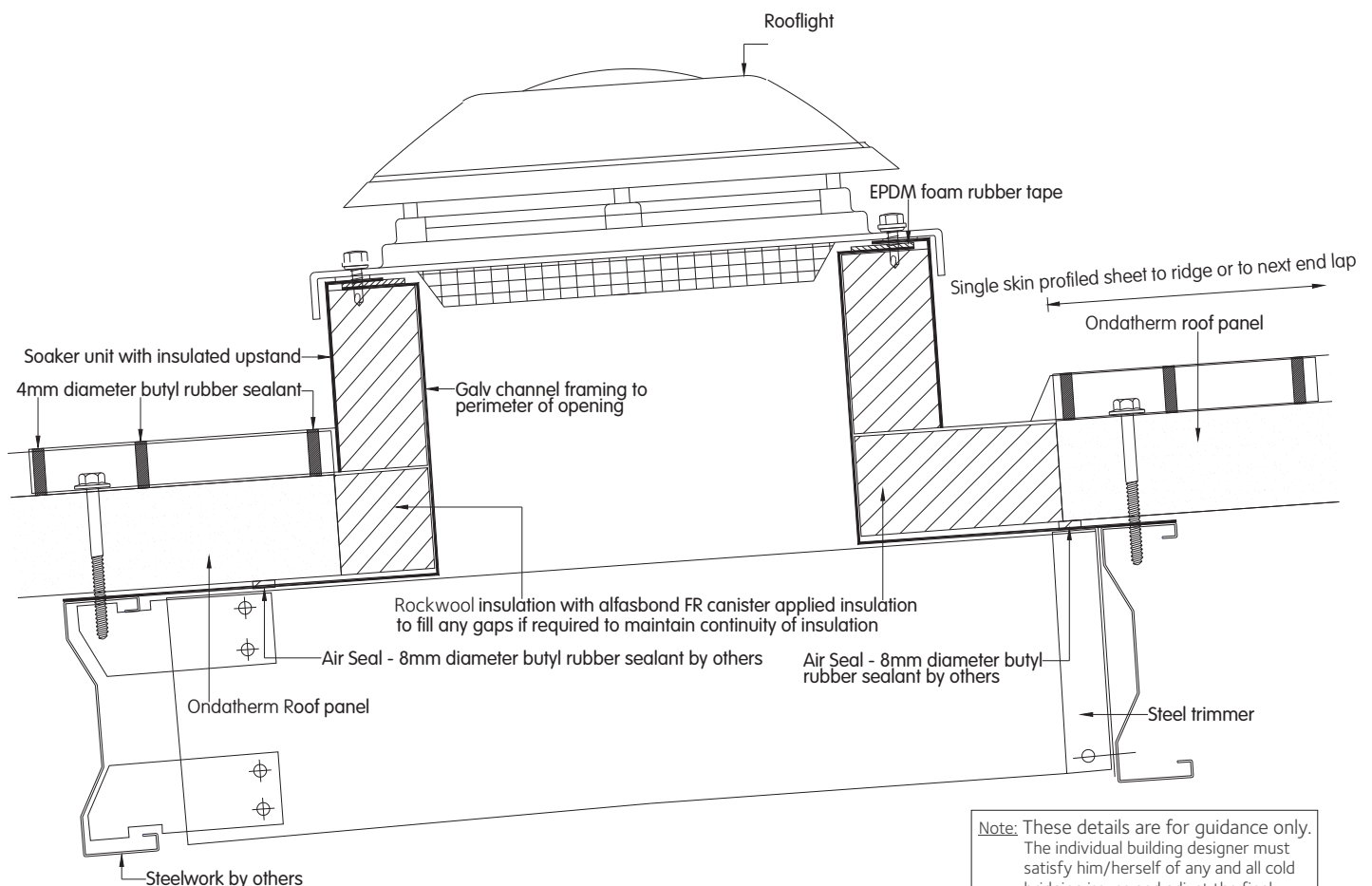
A type recommended for the purpose by ArcelorMittal. Apply to those surfaces of supports which would otherwise be in contact with cladding or accessories after fixing.

310A Purpose made cold formed metal accessories

Material: Galvanized cold rolled steel sheet grade S220 GD.
Thickness/gauge: 0.63mm minimum.
Finish/colour: External - Colorissime range HairExcel 9006
Internal- **InteriorFlat (No Profile) 9010**

Workmanship as NBS Standard Section Z22.

Fixing to Ondatherm/Structure with 5.5mm stitcher screws at multiples of 450mm centres.



Note: These details are for guidance only. The individual building designer must satisfy him/herself of any and all cold bridging issues and adjust the final design layout accordingly.



ArcelorMittal

Ondatherm Roofing 1001TSF

Note: The Lidl agreed design is 3 panel lengths per slope eg 2 laps. All fixings & sealants to be supplied by ArcelorMittal

120A - Metal Cladding

Accessories

Matching flashings and support zeds.

Fittings and accessories generally

221 Accessories

Cappings, closure pieces, flashings, trims cills, gutters, fillers, spacers, tapes, sealants, fixings etc, where not specified, are to be types as recommended by ArcelorMittal.

223 Isolating Tape

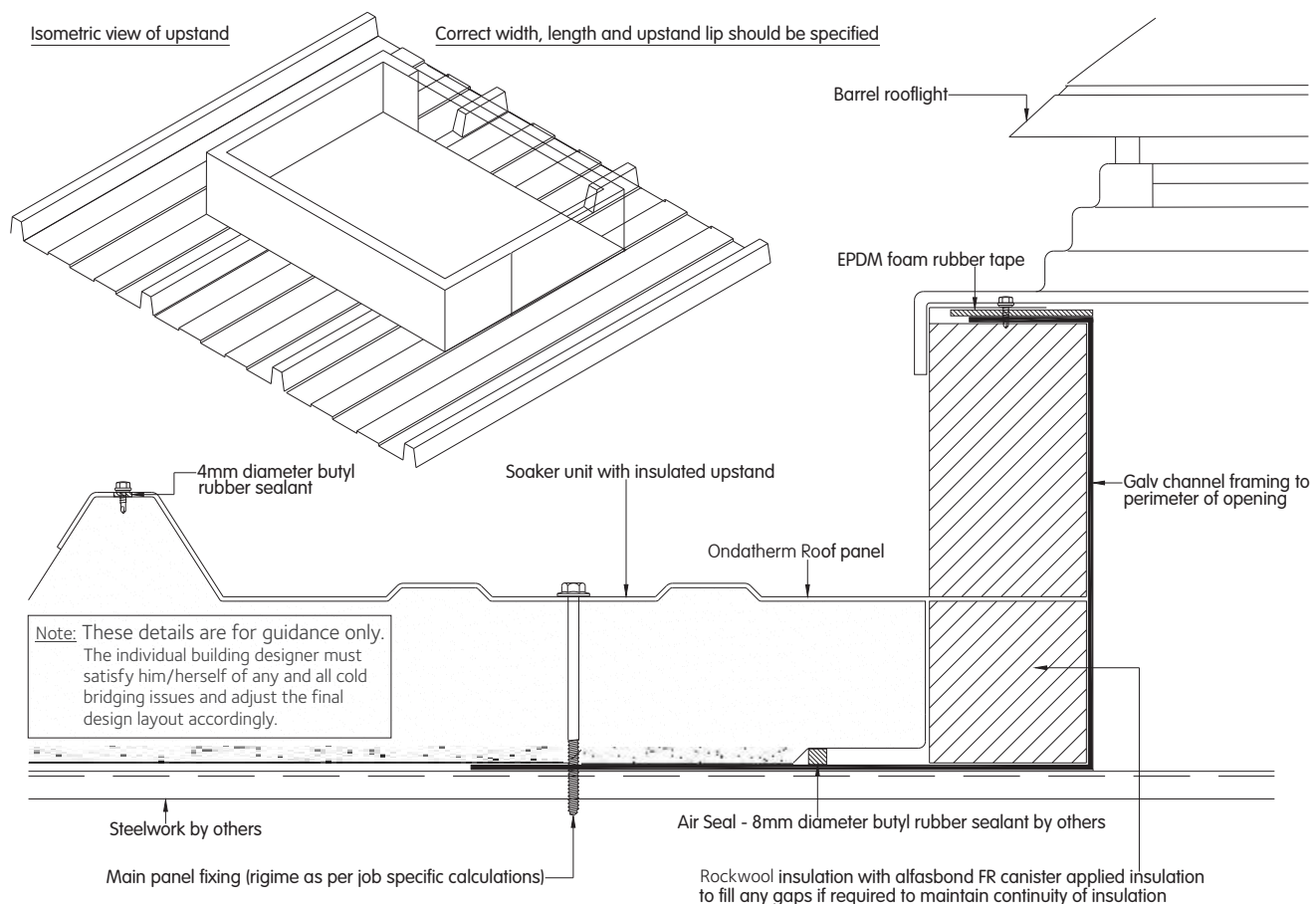
A type recommended for the purpose by ArcelorMittal. Apply to those surfaces of supports which would otherwise be in contact with cladding or accessories after fixing.

310A Purpose made cold formed metal accessories

Material: Galvanized cold rolled steel sheet grade S220 GD.
Thickness/gauge: 0.63mm minimum.
Finish/colour: External - Colorissime HairExcel 9006 range.
Internal - **Interior Flat (No Profile) 9010**

Workmanship as NBS Standard Section Z22.

Fixing to Ondatherm/Structure with 5.5mm stitcher screws at multiples of 450mm centres.



N° H014 - Rooflights 4

(Note: All installations should comply with the recommendations contained in MCRMA Technical Papers N° 12 & 14; BS3200 and other relevant national standards)



ArcelorMittal

Ondatherm Roofing 1001TSF

Note: The Lidl agreed design is 3 panel lengths per slope eg 2 laps. All fixings & sealants to be supplied by ArcelorMittal

120A - Metal Cladding

Accessories

Matching flashings and support zeds.

Fittings and accessories generally

221 Accessories

Cappings, closure pieces, flashings, trims cills, gutters, fillers, spacers, tapes, sealants, fixings etc, where not specified, are to be types as recommended by ArcelorMittal.

223 Isolating Tape

A type recommended for the purpose by ArcelorMittal. Apply to those surfaces of supports which would otherwise be in contact with cladding or accessories after fixing.

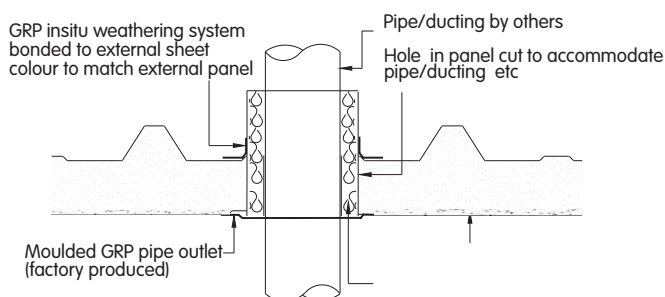
310A Purpose made cold formed metal accessories

Material: Galvanized cold rolled steel sheet grade S220 GD.
Thickness/gauge : 0.63mm minimum.
Finish/colour: External - Colorissime range.

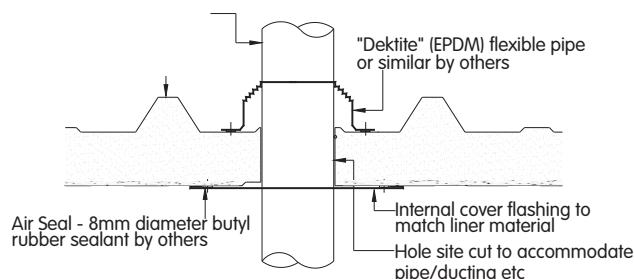
Internal - Interior Flat (No Profile) 9010

Workmanship as NBS Standard Section Z22.

Fixing to Ondatherm/Structure with 5.5mm stitcher screws (or rivets) at multiples of 450mm centres.

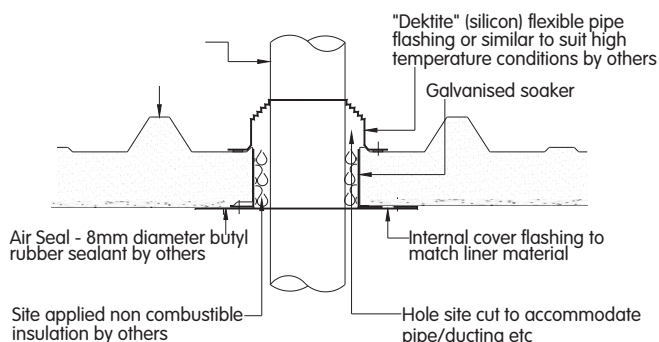


Note: Maximum hole size to be 300mm square or diameter
Penetrations greater will require additional supporting steel



Note: It is advisable to locate pipe/ducting within the mini-corrugations of outer sheet profile

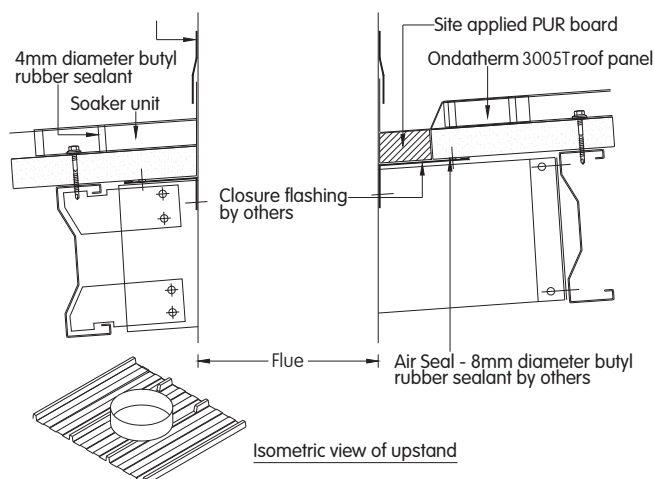
Note: Maximum hole size to be 300mm square or diameter
Penetrations greater will require additional supporting steel



Note: It is advisable to locate pipe/ducting within the mini-corrugations of outer sheet profile

Note: Maximum hole size to be 300mm square or diameter
Penetrations greater will require additional supporting steel

Ondatherm 1000TL(F) Flue soaker



N° H015 - Penetrations

(Note: All installations should comply with the recommendations contained in MCRMA Technical Papers N° 12 & 14; BS3200 and other relevant national standards)



Ondatherm Roofing 1001TSF

Note: The Lidl agreed design is 3 panel lengths per slope eg 2 laps. All fixings & sealants to be supplied by ArcelorMittal

120A - Metal Cladding

Accessories

Matching flashings and support zeds.

Fixing panels generally

410 Fixing Panels

The use of Ondatherm sandwich panels requires accurate setting out, with due allowance for building expansion devices (these must not be built over).

Before fitting the panels, the cladding contractor must inspect the supporting structure using the criteria below listed, to ensure that the panels do not take on any unevenness inherent in the support system, thereby causing the finished surface of the facade to be out of true.

The results of a bilateral inspection by the principal contractor and the supplier of the support system should be duly recorded in any inspection report.

In case of complaint in respect of ArcelorMittal products we will require production of the inspection report for the support structure.

Any roof panel system is aesthetically only as good as the framework to which it is fixed. It is essential therefore that the support system is true to line and plumb. We recommend that all secondary steelwork to which Ondatherm panels are fixed be designed to be capable of adjustment during erection. ArcelorMittal recommend steelwork tolerances as listed below:-

Vertical tolerance (full height of building)	= 5mm maximum
Alignment (adjacent vertical supports)	= +/-2mm
Horizontal tolerance (full length of building)	= +/-5mm

Ondatherm panels are purpose-made to specific requirements. Site cutting is not normally required, if cutting is required the following should be observed:-

Before cutting, masking tape must be laid on the cutting line to protect coating from damage.

Cutting must be carried out with a jigsaw, blades are to have fine metal cutting serrations.

Note - Angle grinders or similar type tools must not be used.

Cut panels on suitable supports to avoid de-lamination of metal skins by vibration.

All exposed rockwool cut panel edges to be protected afterwards with self adhesive foil tape. Cut openings in panels for outlets, vent pipes, flues, etc. to the minimum size necessary. Reinforce edges of openings with support angles/flashings.

Drill all holes and install fasteners perpendicular to the surface of the panels. Position the fasteners at regular intervals in straight lines, centred on the support bearings. Remove dust and any other foreign matter before finally fixing panels into position.

Protect panels adequately during fixing and up to Completion against mechanical damage/disfigurement. Rectify any defects as quickly as practicable to minimise damage and nuisance. Cladding panels and flashings must be cleaned down and swarf, rivet mandrels, debris, etc. must be removed on a day to day basis as work proceeds.

Paint all cut edges to match face finish.