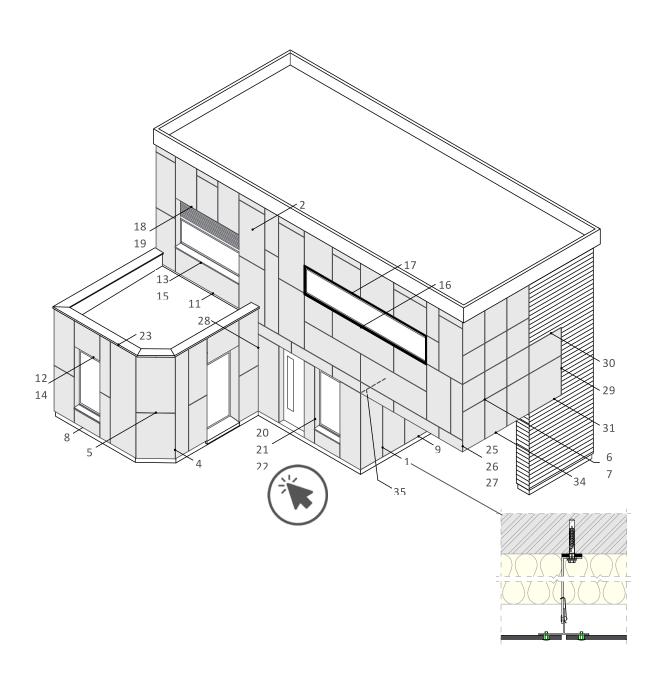




Construction details
Face fixings on metal support frame





General information         3           Components         4           Support frame         2           Ventilation         8           Ventical joint         1         10           Intermediate support profile         2         10           Vertical joint at angle         3         11           Relation between fixed and gliding points         5         12           Open horizontal joint junction with vertical joint         6         13           Saffied horizontal joint junction with vertical joint         7         13           Base detail – Ground level         8         14           Base detail – Foround level         8         14           Base detail – Flactory         10         15           Base detail – Flactory           10         15           Base detail – Flactory           10         15           Window head – Option 1         12         16           Window head – Option 2         14         12           Window head – Subs window         15         12           Window head – With sunscreen         18         12           Window head – With sunscreen         18         12           Window head – With sunscreen         12 <t< th=""><th>Content</th><th>Detail No.</th><th>Page</th></t<>	Content	Detail No.	Page
Support frame         2           Ventilation         8           Vertical joint         1         10           Intermediate support profile         2         10           Vertical control joint         3         11           Vertical joint at angle         4         11           Relation between fixed and gliding points         5         12           Open horizontal joint junction with vertical joint         6         13           Baffled horizontal joint junction with vertical joint         7         12           Base detail – Ground level         8         14           Base detail – Forour devel         8         14           Base detail – Forour devel         9         14           Base detail – Forour devel         10         15           Base detail – Flat roof / Parapet         11         15           Window head – Option 1         12         16           Window head – Option 1         12         16           Window head – Flush window         15         17           Window head – Flush window         16         18           Window head – With shutter         19         20           Window head – With shutter         19         20	General information		<u>3</u>
Ventical joint         1         10           Intermediate support profile         2         10           Ventical control joint         3         11           Ventical control joint         3         11           Ventical joint at angle         4         11           Relation between fixed and gliding points         5         12           Open horizontal joint junction with vertical joint         5         13           Baffled horizontal joint junction with vertical joint         5         13           Base detail – Ground level         8         14           Base detail – Covered area         9         14           Base detail – Flat roof / Parapet         11         15           Window head – Option 1         12         16           Window sill – Option 1         12         16           Window sill – Option 2         14         12           Window sill – Option 2         14         12           Window head – Flush window         16         18           Window head – With shutter         19         20           Window head – With shutter         19         20           Window jamb – Option 1         20         21           Window jamb – Option 2         22 </td <td>Components</td> <td></td> <td><u>4</u></td>	Components		<u>4</u>
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Intermediate support profile	Ventilation		<u>8</u>
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Vertical joint at angle         4         11           Relation between fixed and gliding points         5         12           Open horizontal joint junction with vertical joint         6         13           Baffled horizontal Joint junction with vertical joint         7         13           Base detail – Ground level         8         14           Base detail – Ground level         9         14           Base detail – Balcony         10         15           Base detail – Flat roof / Parapet         11         15           Window head – Option 1         12         16           Window sill – Option 1         13         16           Window head – Option 2         15         17           Window head – Flush window         16         18           Window sill – Flush window         16         18           Window head – With sunscreen         18         19           Window head – With sutter         19         20           Window jamb – Option 1         20         21           Window jamb – Option 2         22         22           Capping         23         23           External corner – Option 1         25         24           External corner – Option 1	Intermediate support profile	<u>2</u>	<u>10</u>
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Base detail – Ground level         8         14           Base detail – Covered area         9         14           Base detail – Balcony         10         15           Base detail – Flat roof / Parapet         11         15           Window head – Option 1         12         16           Window sill – Option 1         13         16           Window head – Option 2         14         17           Window head – Flush window         16         18           Window sill – Flush window         16         18           Window head – With sunscreen         18         19           Window jamb – Diption 1         20         21           Window jamb – Option 1         20         21           Window jamb – Metal flashing         21         21           Window jamb – Metal flashing         21         21           Window jamb – Metal flashing         21         22           Capping – Hidden ventilation         24         23           External corner – Option 1         25         24           External corner – Option 1         25         24           External corner with wind barrier         27         25           Internal corner         28         26 </td <td>Open horizontal joint junction with vertical joint</td> <td><u>6</u></td> <td><u>13</u></td>	Open horizontal joint junction with vertical joint	<u>6</u>	<u>13</u>
Base detail – Covered area       9       14         Base detail – Balcony       10       15         Base detail – Flat roof / Parapet       11       15         Window head – Option 1       12       16         Window sill – Option 2       14       17         Window sill – Option 2       15       17         Window head – Flush window       16       18         Window head – With sunscreen       18       19         Window jamb – Option 1       20       21         Window jamb – Option 1       20       21         Window jamb – Option 1       20       21         Window jamb – Option 2       22       22         Capping       23       23         Capping – Hidden ventilation       24       23         External corner – Option 2       25       24         External corner – Option 2       25       24         External corner – Option 2       26       24         External corner with wind barrier       29       26         Internal corner       28       26         External corner with wind barrier       29       26         Internal corner       20       27         Internal corner	Baffled horizontal joint junction with vertical joint	<u>7</u>	<u>13</u>
Base detail – Balcony         10         15           Base detail – Flat roof / Parapet         11         15           Window head – Option 1         12         16           Window sill – Option 1         13         16           Window head – Option 2         14         17           Window sill – Option 2         15         17           Window head – Flush window         16         18           Window head – With shunder         12         18           Window head – With shutter         19         20           Window jamb – Option 1         20         21           Window jamb – Option 2         22         22           Capping         23         23           Window jamb – Option 2         22         22           Capping – Hidden ventilation         24         23           External corner – Option 1         25         24           External corner – Option 2         25         24           External corner – Option 2         25         24           External corner – Option 2         26         24           External corner – Option 2         26         24           External corner – Option 2         26         24           Exter	Base detail – Ground level	<u>8</u>	<u>14</u>
Base detail – Flat roof / Parapet       11       15         Window head – Option 1       12       16         Window sill – Option 1       13       16         Window head – Option 2       14       17         Window sill – Option 2       15       17         Window head – Flush window       16       18         Window sill – Flush window       17       18         Window head – With sunscreen       18       19         Window jamb – Option 1       20       21         Window jamb – Option 1       20       21         Window jamb – Option 2       22       22         Capping       23       23         Capping – Hidden ventilation       24       23         External corner – Option 1       25       24         External corner – Option 2       26       24         External corner – Option 2       26       24         External corner with wind barrier       27       25         Internal corner       28       26         Abutment       29       26         Junction with other facade material – Head detail       30       27         Junction with other facade material – Base       31       27	Base detail – Covered area	<u>9</u>	<u>14</u>
Window head - Option 1       12       16         Window sill - Option 1       13       16         Window head - Option 2       14       17         Window sill - Option 2       15       17         Window head - Flush window       16       18         Window sill - Flush window       17       18         Window head - With sunscreen       18       19         Window head - With shutter       19       20         Window jamb - Option 1       20       21         Window jamb - Metal flashing       21       21         Window jamb - Option 2       22       22         Capping       23       23       23         External corner - Option 1       25       24         External corner - Option 1       25       24         External corner - Option 2       25       24         External corner with wind barrier       25       24         External corner       28       26         Abutment       29       26         Junction with other facade material - Head detail       30       27         Junction with other facade material - Base       31       27         Segmented façade - Radius < 39 ft       32       28	Base detail – Balcony	<u>10</u>	<u>15</u>
Window sill – Option 1       13       16         Window head – Option 2       14       17         Window sill – Option 2       15       17         Window head – Flush window       16       18         Window sill – Flush window       17       18         Window head – With sunscreen       18       19         Window head – With shutter       19       20         Window jamb – Option 1       20       21         Window jamb – Metal flashing       21       21         Window jamb – Option 2       22       22         Capping       23       23         External corner – Option 1       25       24         External corner – Option 1       25       24         External corner – Option 2       26       24         External corner – Option 2       26       24         External corner with wind barrier       27       25         Internal corner       28       26         Abutment       29       26         Junction with other facade material – Head detail       30       27         Junction with other facade material – Base       31       27         Segmented façade – Radius < 39 ft	Base detail – Flat roof / Parapet	<u>11</u>	<u>15</u>
Window head - Option 2       14       17         Window sill - Option 2       15       17         Window head - Flush window       16       18         Window head - With sunscreen       18       19         Window head - With sunscreen       18       19         Window head - With shutter       19       20         Window jamb - Option 1       20       21         Window jamb - Metal flashing       21       21         Window jamb - Option 2       22       22         Capping       23       23       23         External corner - Option 1       25       24         External corner - Option 2       26       24         External corner with wind barrier       27       25         Internal corner       28       26         Abutment       29       26         Junction with other facade material - Head detail       30       27         Junction with other facade material - Base       31       27         Segmented façade - Radius < 39 ft       32       28         Curved façade - Radius ≥ 39 ft       33       28         Soffit/ceiling-wall junction       34       29         Wall-soffit/ceiling junction       35	Window head – Option 1	<u>12</u>	<u>16</u>
Window sill – Option 2       15       17         Window head – Flush window       16       18         Window sill – Flush window       17       18         Window head – With sunscreen       18       19         Window head – With shutter       19       20         Window jamb – Option 1       20       21         Window jamb – Metal flashing       21       21         Window jamb – Option 2       22       22         Capping       23       23         Capping – Hidden ventilation       24       23         External corner – Option 1       25       24         External corner – Option 2       26       24         External corner with wind barrier       27       25         Internal corner       28       26         Abutment       29       26         Junction with other facade material – Head detail       30       27         Junction with other facade material – Base       31       27         Segmented façade – Radius < 39 ft	Window sill – Option 1	<u>13</u>	<u>16</u>
Window head – Flush window       16       18         Window sill – Flush window       17       18         Window head – With sunscreen       18       19         Window head – With shutter       19       20         Window jamb – Option 1       20       21         Window jamb – Metal flashing       21       21         Window jamb – Option 2       22       22         Capping       23       23         External corner – Option 2       24       23         External corner – Option 1       25       24         External corner with wind barrier       27       25         Internal corner       28       26         Abutment       29       26         Junction with other facade material – Head detail       30       27         Junction with other facade material – Base       31       27         Segmented façade – Radius < 39 ft	Window head – Option 2	<u>14</u>	<u>17</u>
Window sill – Flush window       17       18         Window head – With sunscreen       18       19         Window head – With shutter       19       20         Window jamb – Option 1       20       21         Window jamb – Metal flashing       21       21         Window jamb – Option 2       22       22         Capping       23       23         External corner – Option 1       24       23         External corner – Option 1       25       24         External corner with wind barrier       27       25         Internal corner       28       26         Abutment       29       26         Junction with other facade material – Head detail       30       27         Junction with other facade material – Base       31       27         Segmented façade – Radius < 39 ft	Window sill – Option 2	<u>15</u>	<u>17</u>
Window head – With sunscreen       18       19         Window head – With shutter       19       20         Window jamb – Option 1       20       21         Window jamb – Metal flashing       21       21         Window jamb – Option 2       22       22         Capping       23       23       23         External corner – Option 1       25       24         External corner – Option 2       26       24         External corner with wind barrier       27       25         Internal corner       28       26         Abutment       29       26         Junction with other facade material – Head detail       30       27         Junction with other facade material – Base       31       27         Segmented façade – Radius < 39 ft       32       28         Curved façade – Radius < 39 ft       33       28         Soffit/ceiling-wall junction       34       29         Wall-soffit/ceiling junction       35       30	Window head – Flush window	<u>16</u>	<u>18</u>
Window head – With shutter       19       20         Window jamb – Option 1       20       21         Window jamb – Metal flashing       21       21         Window jamb – Option 2       22       22         Capping       23       23         Capping – Hidden ventilation       24       23         External corner – Option 1       25       24         External corner with wind barrier       27       25         Internal corner       28       26         Abutment       29       26         Junction with other facade material – Head detail       30       27         Junction with other facade material – Base       31       27         Segmented façade – Radius < 39 ft	Window sill – Flush window	<u>17</u>	<u>18</u>
Window jamb - Option 1       20       21         Window jamb - Metal flashing       21       21         Window jamb - Option 2       22       22         Capping       23       23         Capping - Hidden ventilation       24       23         External corner - Option 1       25       24         External corner with wind barrier       27       25         Internal corner       28       26         Abutment       29       26         Junction with other facade material - Head detail       30       27         Junction with other facade material - Base       31       27         Segmented façade - Radius < 39 ft	Window head – With sunscreen	<u>18</u>	<u>19</u>
Window jamb - Metal flashing       21       21         Window jamb - Option 2       22       22         Capping       23       23         Capping - Hidden ventilation       24       23         External corner - Option 1       25       24         External corner - Option 2       26       24         External corner with wind barrier       27       25         Internal corner       28       26         Abutment       29       26         Junction with other facade material - Head detail       30       27         Junction with other facade material - Base       31       27         Segmented façade - Radius < 39 ft	Window head – With shutter	<u>19</u>	<u>20</u>
Window jamb - Option 2       22       22         Capping       23       23         Capping - Hidden ventilation       24       23         External corner - Option 1       25       24         External corner - Option 2       26       24         External corner with wind barrier       27       25         Internal corner       28       26         Abutment       29       26         Junction with other facade material - Head detail       30       27         Junction with other facade material - Base       31       27         Segmented façade - Radius < 39 ft	Window jamb – Option 1	<u>20</u>	<u>21</u>
Capping       23       23         Capping – Hidden ventilation       24       23         External corner – Option 1       25       24         External corner with wind barrier       26       24         External corner with wind barrier       27       25         Internal corner       28       26         Abutment       29       26         Junction with other facade material – Head detail       30       27         Junction with other facade material – Base       31       27         Segmented façade – Radius < 39 ft	Window jamb – Metal flashing	<u>21</u>	<u>21</u>
Capping – Hidden ventilation2423External corner – Option 12524External corner – Option 22624External corner with wind barrier2725Internal corner2826Abutment2926Junction with other facade material – Head detail3027Junction with other facade material – Base3127Segmented façade – Radius < 39 ft	Window jamb – Option 2	<u>22</u>	<u>22</u>
External corner – Option 1 $25$ $24$ External corner – Option 2 $26$ $24$ External corner with wind barrier $27$ $25$ Internal corner $28$ $26$ Abutment $29$ $26$ Junction with other facade material – Head detail $30$ $27$ Junction with other facade material – Base $31$ $27$ Segmented façade – Radius $< 39$ ft $32$ $28$ Curved façade – Radius $\ge 39$ ft $33$ $28$ Soffit/ceiling-wall junction $34$ $29$ Wall-soffit/ceiling junction $35$ $30$	Capping	<u>23</u>	<u>23</u>
External corner – Option 22624External corner with wind barrier2725Internal corner2826Abutment2926Junction with other facade material – Head detail3027Junction with other facade material – Base3127Segmented façade – Radius < 39 ft	Capping – Hidden ventilation	<u>24</u>	<u>23</u>
External corner with wind barrier $27$ $25$ Internal corner $28$ $26$ Abutment $29$ $26$ Junction with other facade material – Head detail $30$ $27$ Junction with other facade material – Base $31$ $27$ Segmented façade – Radius < 39 ft	External corner – Option 1	<u>25</u>	24
Internal corner2826Abutment2926Junction with other facade material – Head detail3027Junction with other facade material – Base3127Segmented façade – Radius < 39 ft	External corner – Option 2	<u>26</u>	24
Abutment 29 26  Junction with other facade material – Head detail 30 27  Junction with other facade material – Base 31 27  Segmented façade – Radius < 39 ft 32 28  Curved façade – Radius ≥ 39 ft 33 28  Soffit/ceiling-wall junction 34 29  Wall-soffit/ceiling junction 35 30	External corner with wind barrier	<u>27</u>	<u>25</u>
Junction with other facade material – Head detail3027Junction with other facade material – Base3127Segmented façade – Radius < 39 ft	Internal corner	<u>28</u>	<u>26</u>
Junction with other facade material – Base3127Segmented façade – Radius < 39 ft	Abutment	<u>29</u>	<u>26</u>
Segmented façade – Radius < 39 ft3228Curved façade – Radius ≥ 39 ft3328Soffit/ceiling-wall junction3429Wall-soffit/ceiling junction3530	Junction with other facade material — Head detail	<u>30</u>	<u>27</u>
Curved façade – Radius ≥ 39 ft3328Soffit/ceiling-wall junction3429Wall-soffit/ceiling junction3530	Junction with other facade material — Base	<u>31</u>	<u>27</u>
Soffit/ceiling-wall junction3429Wall-soffit/ceiling junction3530	Segmented façade – Radius < 39 ft	32	28
Wall–soffit/ceiling junction 35 30	Curved façade − Radius ≥ 39 ft	<u>33</u>	28
	Soffit/ceiling-wall junction	34	29
Junction with panels with concealed fixings <u>36</u> <u>31</u>	Wall–soffit/ceiling junction	<u>35</u>	30
	Junction with panels with concealed fixings	<u>36</u>	31

# General information

This document provides generic construction details for EQUITONE façade systems with UNI-Rivet panel face fixings on metal support frame to assist with the design of EQUITONE façade.

This document is not designed to serve as an installation guide and is intended to be used in conjunction with EQUITONE Planning and Application Guide face fixings on metal support frame' and other relevant technical and installation documents.

The details included in this document only illustrate general principles for detailing of EQUITONE at different typical interfaces; and are not to be relied upon for weatherproofing and fire safety compliance with local regulations. The weatherproofing and fire performance of any project specific detail or application shall be evaluated by the project engineer or consultant.

Any components related to wind barriers, fire safety, moisture management and weather proofing including but not limited to membranes, flashings, water seals and sealants, airtightness tapes, horizontal and/or vertical fire barriers, etc, will need to be applied according to local regulations, project requirements and relevant standards.

The support frame, fixings, flashings, and the like shall be of adequate corrosion resistance appropriate to the corrosivity category of the project location.

All dimensions in this document are in inches [in] unless otherwise stated.

The information in this guide is comprehensive but not exhaustive, and the reader will need to satisfy themselves that the contents of this guide are suitable for their intended application. It is the responsibility of the project consultants (designer, architect, and engineers) to ensure that the information and details provided in this document are appropriate for the project.

The information in this document is correct at the time of issuing. However, due to our committed program of continuous material and system development we reserve the right to amend or alter the information contained in this document without prior notice. Please visit www.equitone.com to ensure you have the most current version.

This document is supplied in good faith and no liability can be accepted for any loss or damage resulting from its use. Images and construction details contained in this document are not to a specific scale, are indicative and for illustration purposes only and should not be used as final construction drawings.

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Please visit www.equitone.com for contact details and further information and technical documents.

# Components

#### Materials













EQUITONE [linea]

EQUITONE [lunara]

EQUITONE [tectiva]

[natura] PRO

EQUITONE [pictura]

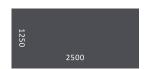
EQUITONE [textura]

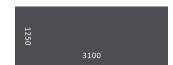
# Maximum usable panel sizes (metric)

EQUITONE [linea] 10 mm EQUITONE [lunara] 10 mm EQUITONE [tectiva] 8 & 10 mm



EQUITONE [natura] 8 & 12 mm EQUITONE [natura] PRO 8 & 12 mm EQUITONE [pictura] 8 & 12 mm EQUITONE [textura] 8 & 12 mm





#### Maximum usable panel sizes (imperial)

EQUITONE [linea] 3/8 in EQUITONE [lunara] 3/8 in EQUITONE [tectiva] 5/16 & 3/8 in





EQUITONE [natura] 5/16 & 15/32 in EQUITONE [natura] PRO 5/16 & 15/32 in EQUITONE [pictura] 5/16 & 15/32 in EQUITONE [textura] 5/16 & 15/32 in





Panel fixings: UNI-Rivet

Color matched and available in the following materials and grades:

Stainless Steel A2 (304) - Material number 1.4567 Available with additional protective coating (C5 acc. ISO 12944-2) for use in e.g. coastal areas

Stainless Steel A4 (316) - Material number 1.4578 Available with additional protective coating (C5 acc. ISO 12944-2 ) for use in e. g. coastal areas

Aluminum AlMg5 (5056A) Available with additional protective coating (C5 acc. ISO 12944-2 ) for use in e. g. coastal areas

Rivets are available in different lengths to suit a range of support frame thicknesses.

For 8 mm EQUITONE panels and EQUITONE [linea]

Rivet type	Support frame Base Metal Thickness (BMT)
4x18 K15 Aluminum UNI-Rivet	0.067 in to 0.118 in
4x18 K15 Stainless Steel UNI-Rivet	0.067 in to 0.138 in
4x20 K15 Stainless Steel UNI-Rivet	0.138 in to 0.217 in

# For 10 mm EQUITONE panels and EQUITONE [lunara]

Rivet type	Support frame Base Metal Thickness (BMT)
4x20 K15 Aluminum UNI-Rivet	0.067 in to 0.118 in
4x20 K15 Stainless Steel UNI-Rivet	0.067 in to 0.138 in
4x22 K15 Stainless Steel UNI-Rivet	0.138 in to 0.217 in

# For 12 mm EQUITONE panels

Rivet type	Support frame Base Metal Thickness (BMT)
4x25 K15 Aluminum UNI-Rivet	0.067 in to 0.157 in
4x22 K15 Stainless Steel UNI-Rivet	0.067 in to 0.138 in
4x24 K15 Stainless Steel UNI-Rivet	0.138 in to 0.217 in



Each panel thickness has its own corresponding UNI-Rivet with its own length of red and green sleeves. UNI-Rivet system is based on GO (gliding=green) & STOP (fixed=red) point principle intelligently allowing for 3-D movement in the connection. Only two STOP points are required per panel. Refer to UNI-Rivet Planning and Application Guide for further information.

Panel hole size is 11 mm for both GO & STOP points, drilled with 11 mm EQUITONE drill bit.

EQUITONE UNI-Rivet centralising tool must be used for drilling rivet hole in support frame.

UNI-Rivet panel edge distance:

From the edge parallel to support frame: 1 3/16 - 4 in From the edge perpendicular to support frame: 2 3/4 - 4 in



#### **Compressible Foam Tape**

Used between the framing and panel as part of UNI-Rivet fixing system to allow in-out movement of the panel.



# **Perforated Closure**

Aluminum perforated profile used to close the cavity entry and outlet to prevent the entry of birds and vermin.

Available in four different widths to suit a range of cavity thicknesses and two different colors: uncoated aluminum and black coated aluminum. The perforation rate is approximately 35 %.



#### Baffle

Black coated aluminum baffle used to close and form expressed panel horizontal joint.

The profile is 23 gauge

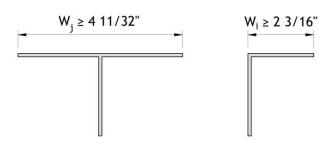


# Support frame

The construction details in this document are shown as an example with aluminum T- and L-profiles.

Vertical profiles Gliding point bracket

Fixed point bracket

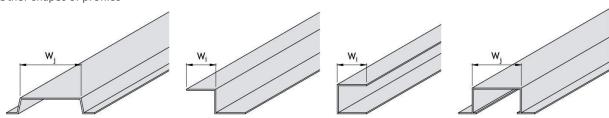


 $X \ge 1.5x \varnothing \text{ (TYP)}$   $y \ge 3x \varnothing \text{ (TYP)}$ 

Minimum width for intermediate profile (Wi): 2 3/16 in Minimum width for vertical joint profile (Wj): 4 11/32 in

Minimum fastener edge distance perpendicular to profile (x): 1,5x  $\emptyset$  of the fastener Minimum fastener edge distance parallel to profile (y): 3x  $\emptyset$  of the fastener

Other shapes of profiles



The cladding support frame and its connection to the substructure shall be designed and selected by the project engineer in accordance with the relevant standards. The support frame maximum deflection under the influence of load shall be limited to Span/300 with a maximum of 5/32 in.

# Ventilation

A ventilated façade is a kind of two stage construction, an inner structure with a protective outer skin, and the cladding panel or rainscreen. A ventilated façade consists of an insulated and weathertight structure, a ventilated cavity formed with a cladding support frame and the cladding panel.

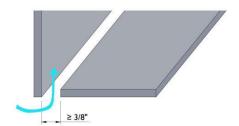
The bare minimum clear gap (cavity width) for ventilation behind the panels is 3/4 in and may need to be increased based on the vertical distance between ventilation inlet and outlet. Typical cavity width will be governed by the framing dimensions and be approximately  $1 \frac{3}{16} - 2 \frac{3}{8}$  in.

Air must be allowed to enter the cavity from bottom of the façade, window head, soffit, slab junctions, and the like, and exit from top of the façade, capping, window sill, slab and soffit interfaces, and the like.

The size of inlets and outlets should be executed as stipulated in this document and the Planning & Application Guide or according to local standards and building regulations. The following requirements are bare minimums.

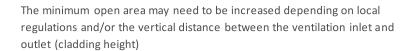
#### Ventilation without perforated closure

The size of ventilation inlet and outlet should be a minimum of 3/8 in ( $\geq$  4.75 in<sup>2</sup> / foot) and may need to be increased depending on local regulations and/or the vertical distance between inlets and outlets (cladding height).

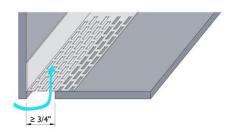


# Ventilation with perforated closure

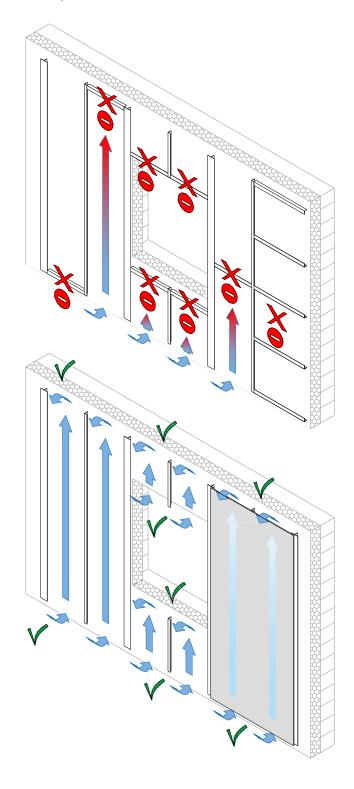
If by local regulations the use of a perforated closure is required e. g. to vermin proof the cavity then the size of the inlet and outlet must be increased depending on the open area percentage of the used profile to achieve a bare minimum open area of more than 4.75 in  $^2$  / foot. E.g., in case of a 35 % perforated closure the minimum open gap should be minimum 1 3/16 in.



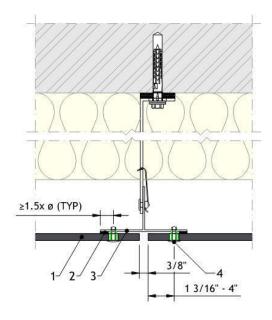
The perforated angle should be less than 1/32 in in thickness when placed between EQUITONE and the support frame



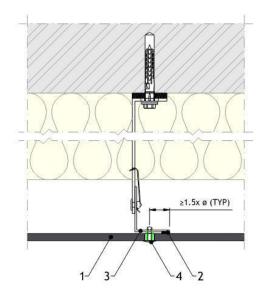
# Important points to consider (Do's and Don'ts): Air flow



- 1. EQUITONE facade panel
- 2. Foam tape
- 3. Metal support frame
- 4. UNI-Rivet

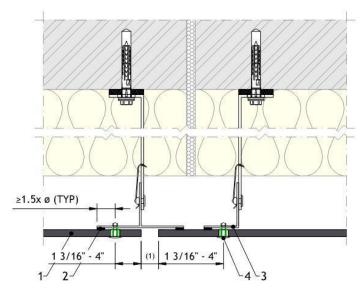


Detail 1 - Vertical joint

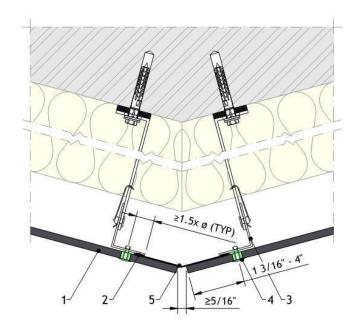


Detail 2 - Intermediate support profile

- 1. EQUITONE facade panel
- 2. Foam tape
- 3. Metal support frame
- 4. UNI-Rivet
- 5. Flashing<sup>(2)</sup>



Detail 3 - Vertical control joint

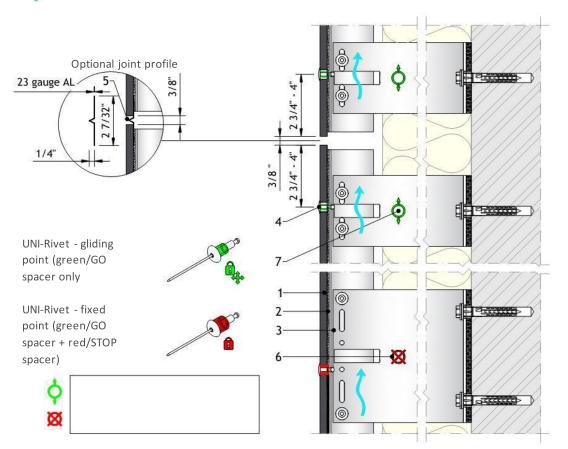


Detail 4 - Vertical joint at angle

- 1) The width of the the facade control joint should be equal or greater than the building control joint.
- 2) Flashings to close the joints may not be thicker as 1/32 in.

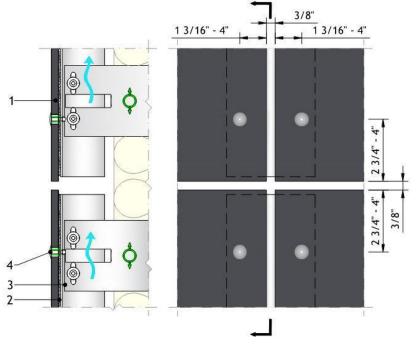
- 1. EQUITONE facade panel
- 2. Foam tape
- 3. Metal support frame
- 4. UNI-Rivet
- 5. Horizontal joint profile
- 6. Fixed point bracket
- 7. Gliding point bracket



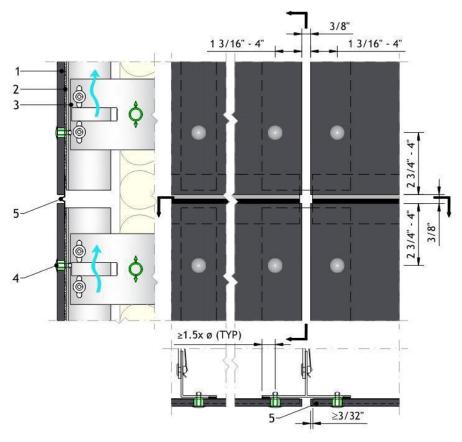


Detail 5 - Relation between fixed and gliding points

- 1. EQUITONE facade panel
- 2. Foam tape
- 3. Metal support frame
- 4. UNI-Rivet
- 5. Horizontal joint profile



Detail 6 - Open horizontal joint junction with vertical joint

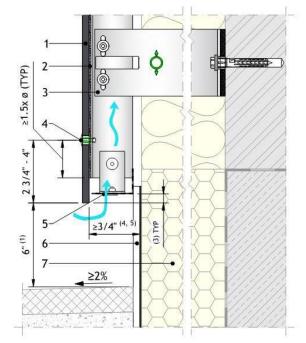


Detail 7 - Baffled horizontal joint junction with vertical joint

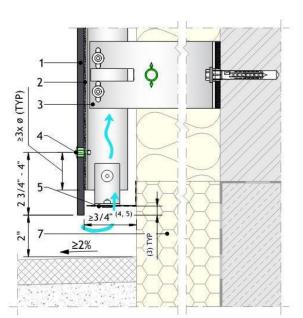
- 1. EQUITONE facade panel
- 2. Foam tape
- 3. Metal support frame
- 4. UNI-Rivet
- 5. Perforated closure
- Skirting<sup>(2)</sup> in EQUITONE [tectiva], EQUITONE [pictura], EQUITONE [textura]
- 7. Hard insulation suitable for use below ground level







Detail 8 - Base detail - Ground level



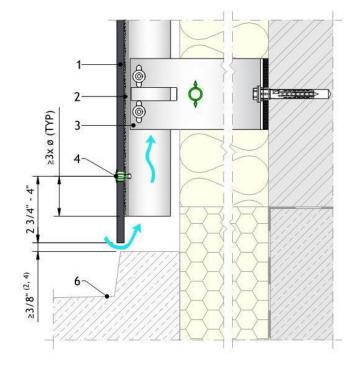
Detail 9 - Base detail – Covered area

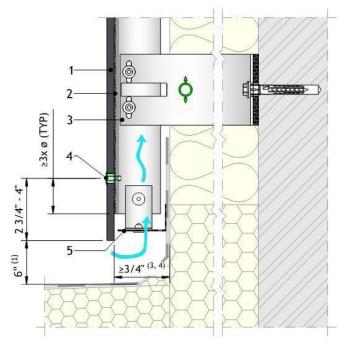
- 1) The distance to ground level is recommended to be, at minimum, 6 in. A smaller ground clearance is possible, but it may increase the risk of water marks and panel staining caused by splash back.
- 2) The skirting board could be concrete, natural stone, render, metal flashing or EQUITONE.
- 3) The facade panel should preferably overhang more than 3/8 in below the ventilation profile to create a drip edge.
- 4) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended to prevent debris build up. Total perforation area should be a minimum of 4.75 in<sup>2</sup> per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 5) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Metal for additional information.

- 1. EQUITONE facade panel
- 2. Foam tape
- 3. Metal support frame
- 4. UNI-Rivet
- 5. Perforated closure
- 6. Balcony floor



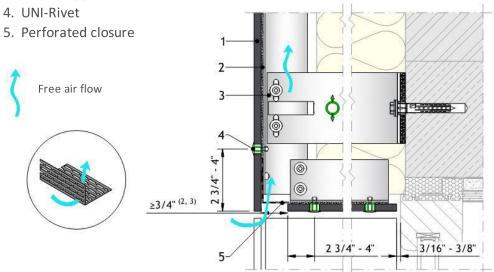




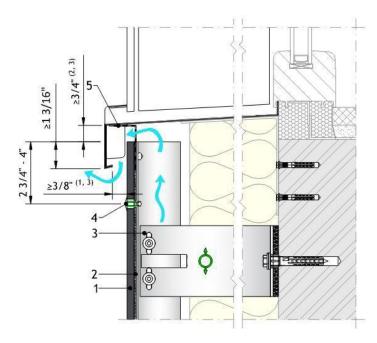


- 1) The distance to the ground level is recommended to be, at minimum, 6 in. A smaller ground clearance is possible but it may increase the risk of water marks and panel staining caused by splash back.
- 2) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 3) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in<sup>2</sup> per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 4) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Metal for additional information.

- 1. EQUITONE facade panel
- 2. Foam tape
- 3. Metal support frame



Detail 12 - Window head - Option 1

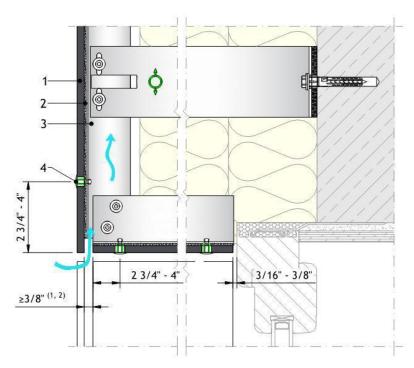


Detail 13 - Window sill - Option 1

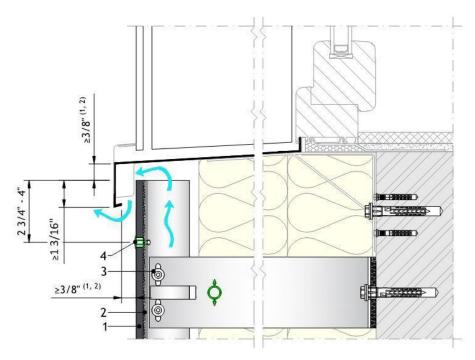
- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in² per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 3) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Metal for additional information.

- 1. EQUITONE facade panel
- 2. Foam tape
- 3. Metal support frame
- 4. UNI-Rivet





Detail 14 - Window head - Option 2

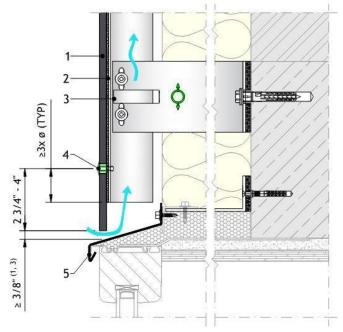


Detail 15 - Window sill - Option 2

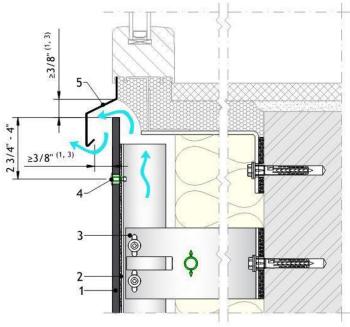
- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Metal for additional information.

- 1. EQUITONE facade panel
- 2. Foam tape
- 3. Metal support frame
- 4. UNI-Rivet
- 5. Aluminum flashing





Detail 16 - Window head - Flush window

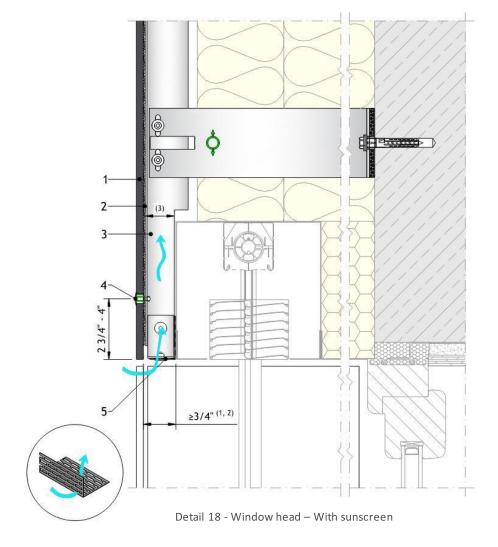


Detail 17 - Window sill - Flush window

- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in² per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 3) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Metal for additional information.

- 1. EQUITONE facade panel
- 2. Foam tape
- 3. Metal support frame
- 4. UNI-Rivet
- 5. Perforated closure



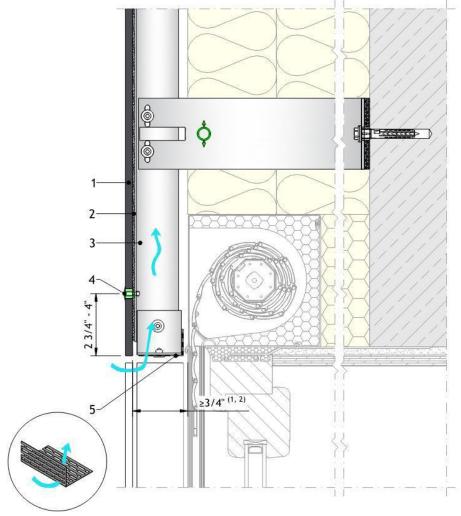


- 1) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in<sup>2</sup> per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 2) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Metal for additional information.
- 3) The reduced section of the support profiles must be taken into account during static calculations.

- 1. EQUITONE facade panel
- 2. Foam tape
- 3. Metal support frame
- 4. UNI-Rivet
- 5. Perforated closure



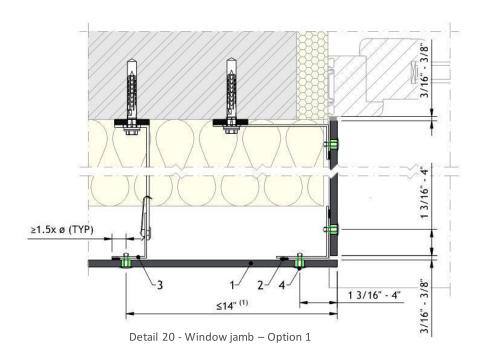
Free air flow

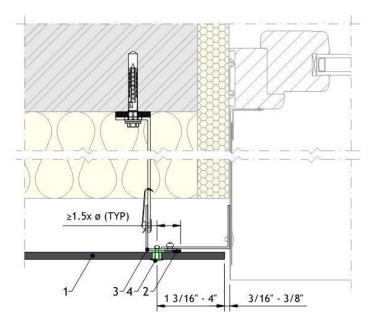


Detail 19 - Window head - With shutter

- 1) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in<sup>2</sup> per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 2) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Metal for additional information.

- 1. EQUITONE facade panel
- 2. Foam tape
- 3. Metal support frame
- 4. UNI-Rivet

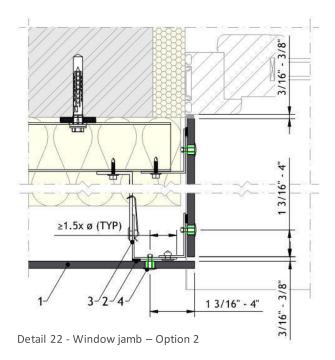


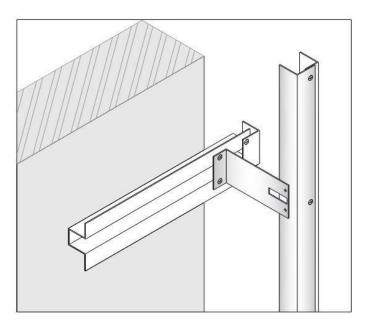


Detail 21 - Window jamb - Metal flashing

1) Panels with single span (panels with 2 columns of fixings) cannot be fixed to a floating angle like shown in the detail.

- 1. EQUITONE facade panel
- 2. Foam tape
- 3. Metal support frame
- 4. UNI-Rivet



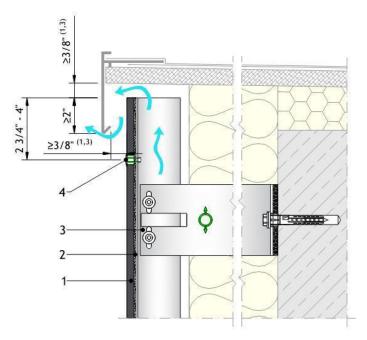


Isometric view of the support frame

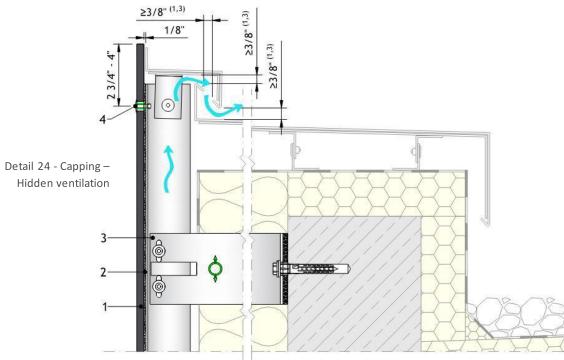
- 1. EQUITONE facade panel
- 2. Foam tape
- 3. Metal support frame
- 4. UNI-Rivet



Free air flow

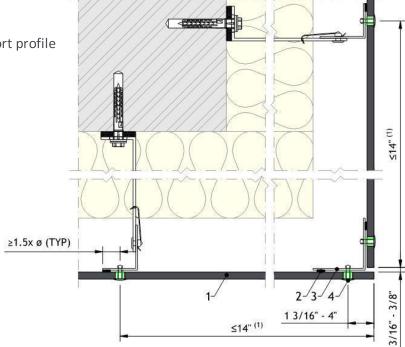


Detail 23 - Capping

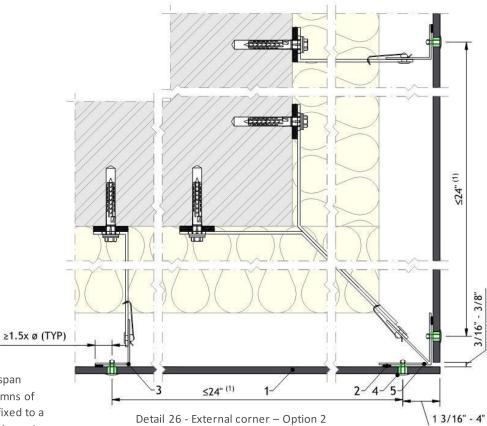


- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) When perforated closures are used underneath the capping, the ventilation outlet opening between the panel and capping should be a minimum of 1 3/16 inch. Total perforation area should be a minimum of 4.75 in<sup>2</sup> per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 3) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Metal for additional information.

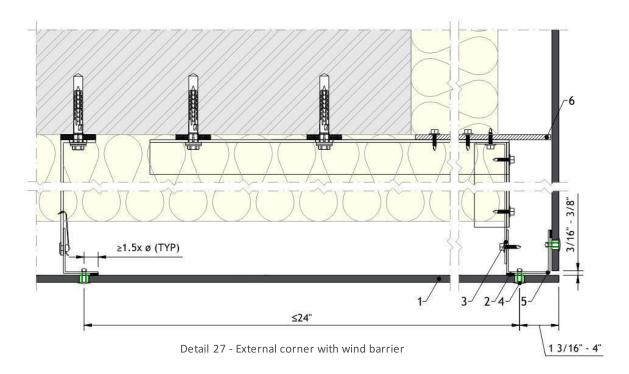
- 1. EQUITONE facade panel
- 2. Foam tape
- 3. Metal support frame
- 4. UNI-Rivet
- 5. Custom made metal support profile



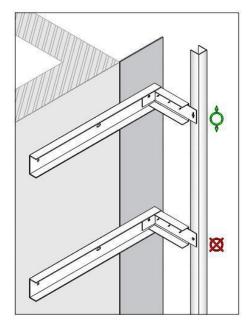
Detail 25 - External corner - Option 1



 Panels with single span (panels with 2 columns of fixings) cannot be fixed to a floating angle like shown in the detail.



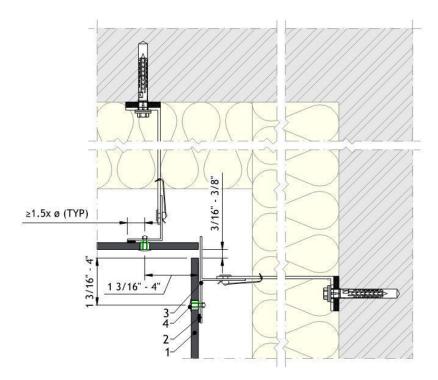
- 1. EQUITONE facade panel
- 2. Foam tape
- 3. Metal support frame
- 4. UNI-Rivet
- 5. U-shaped profile
- 6. Wind barrier (metal or fibrecement)



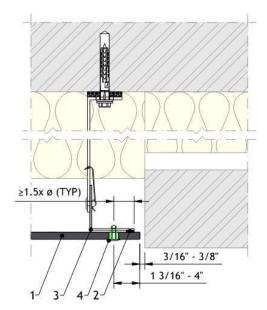
Isometric view of the support frame

The installation of wind barrier is subject to local standards and building regulation.

- 1. EQUITONE facade panel
- 2. Foam tape
- 3. Metal support frame
- 4. UNI-Rivet



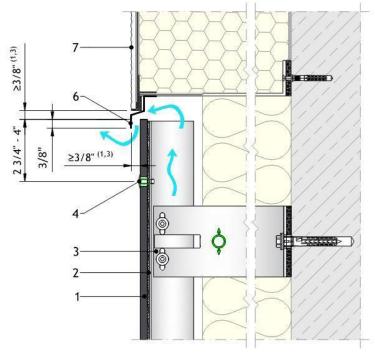
Detail 28 - Internal corner



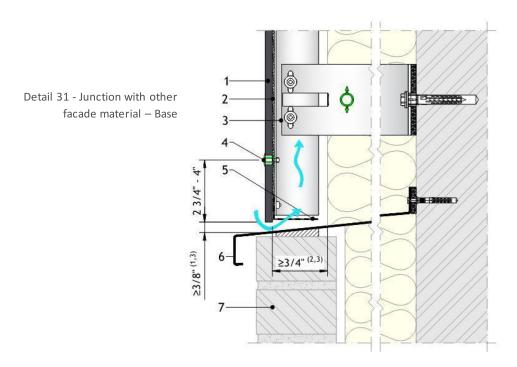
Detail 29 - Abutment

- 1. EQUITONE facade panel
- 2. Foam tape
- 3. Metal support frame
- 4. UNI-Rivet
- 5. Perforated closure
- 6. Aluminum flashing
- 7. Adjacent facade system



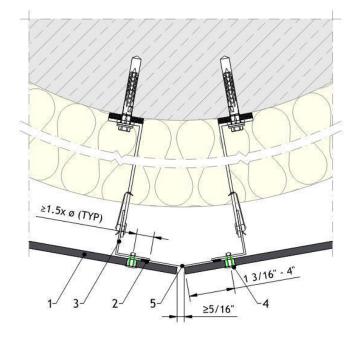


Detail 30 - Junction with other facade material - Head detail

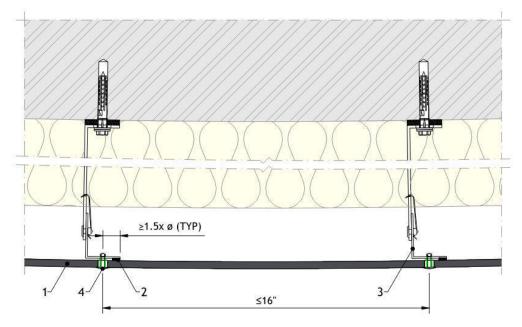


- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in<sup>2</sup> per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 3) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Metal for additional information.

- 1. EQUITONE facade panel
- 2. Foam tape
- 3. Metal support frame
- 4. UNI-Rivet
- 5. Flashing<sup>(3)</sup>



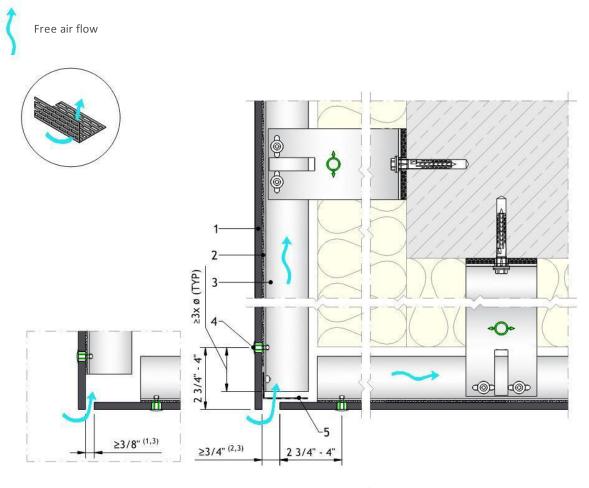
Detail 32 - Segmented façade — Radius < 39 ft



Detail 33 - Curved façade — Radius  $\geq$  39 ft

- 1) The minimum radius for curved facade is 39 ft, the framing centers should be reduced to a maximum of 16 in.
- 2) For smaller radii the facade should be executed as segmented facade.  $\,$
- 3) Flashings to close the joints may not be thicker then 1/32 in.

- 1. EQUITONE facade panel
- 2. Foam tape
- 3. Metal support frame
- 4. UNI-Rivet
- 5. Perforated closure



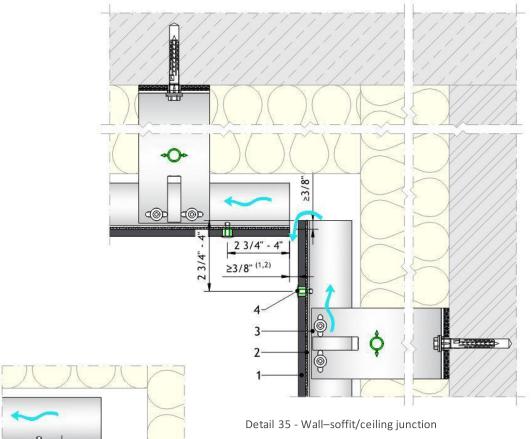
Detail 34 - Soffit/ceiling-wall junction

- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in² per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 3) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Metal for additional information.
- 4) The maximum centre-spacing between the UNI-rivets in a ceiling application is 16 inches.

- 1. EQUITONE facade panel
- 2. Foam tape
- 3. Metal support frame
- 4. UNI-Rivet



Free air flow

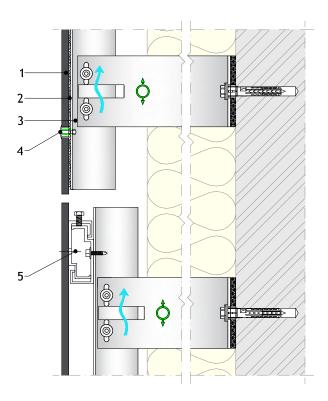


- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Metal for additional information.
- 3) The maximum centre-spacing between the UNI-rivets in a ceiling application is 16 inches.

- 1. EQUITONE facade panel
- 2. Foam tape
- 3. Metal support frame
- 4. UNI-Rivet
- 5. Concealed fixing



Free air flow



Detail 36 - Junction with panels with concealed fixings

- 1) Check the construction details for concealed fixing for more information.
- 2) Depending on the specified concealed fixing system the minimum panel thickness could vary from 5/16 in to 15/32 in as applicable.
- 3) Special attention must be taken to the alignment of the panels with concealed fixing and the ones with face fixings.

Your detail was not included?

Are you looking for details in DXF, DWG format?

Contact:

EQUITONE USA 1731 Fred Lawson Rd. Maryville, TN 37801 Phone: 865-268-0654

Email: info.usa@equitone.com Website: www.equitone.com

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