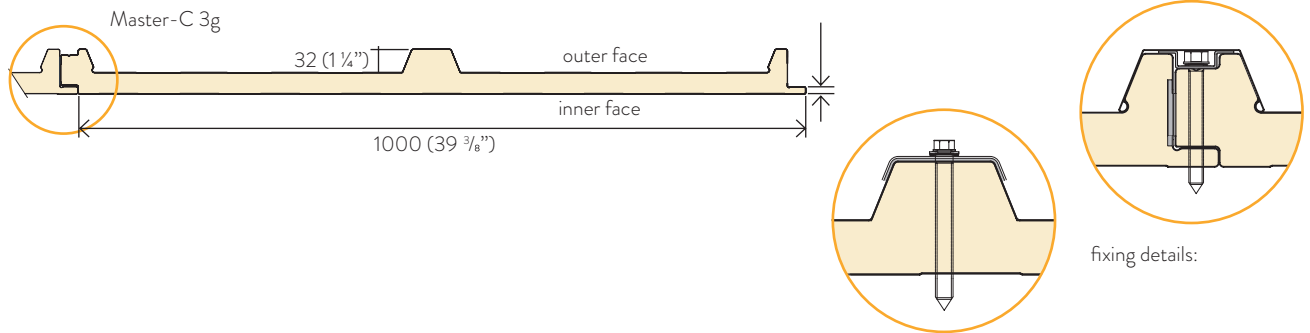




# PANEL CONSTRUCTION DETAILS

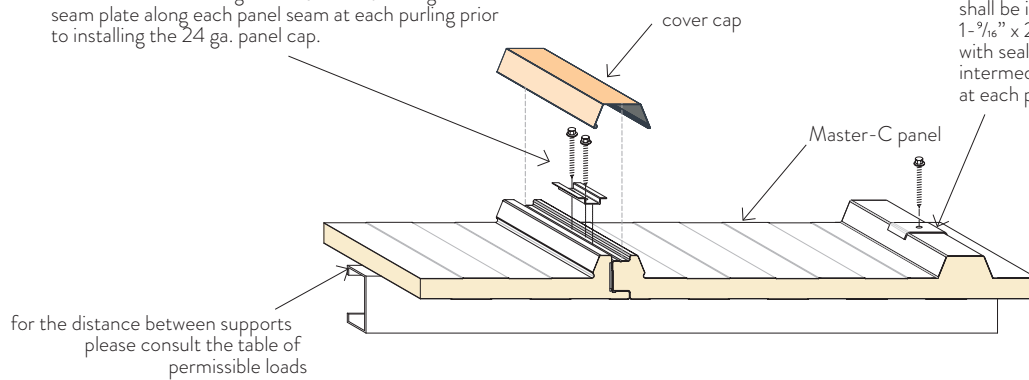
# Technical assistance:

## MASTER-C TYPE PROFILES AND JOINT:



#12-24 HWH fastener with 1/2" bonded sealing washers shall be installed through a 2-3/8" x 1-9/16" x 16 ga. seam plate along each panel seam at each purling prior to installing the 24 ga. panel cap.

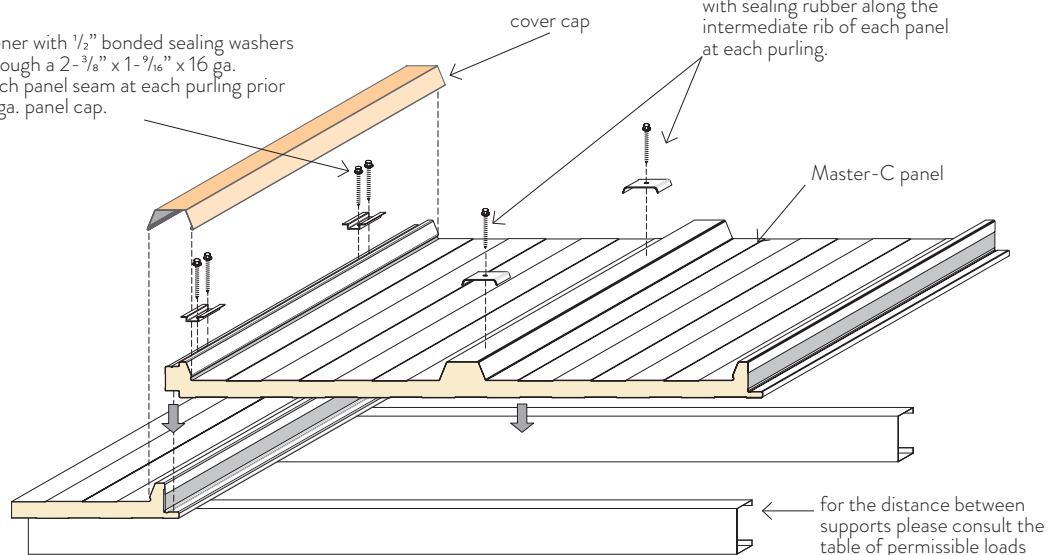
#12-24 HWH fastener with 1/2" bonded sealing washers shall be installed through a 1-9/16" x 20 ga. bearing plate with sealing rubber along the intermediate rib of each panel at each purling.



### EXPLODED VIEW OF A MASTER-C JOINT:

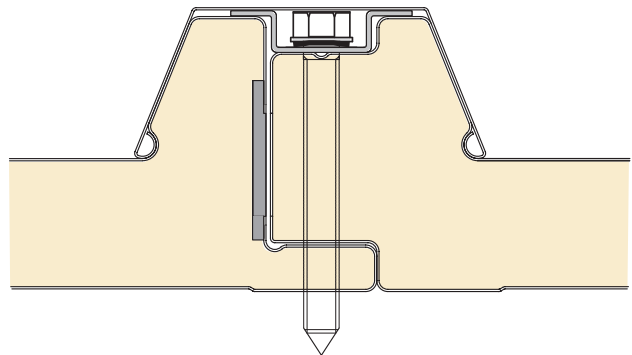
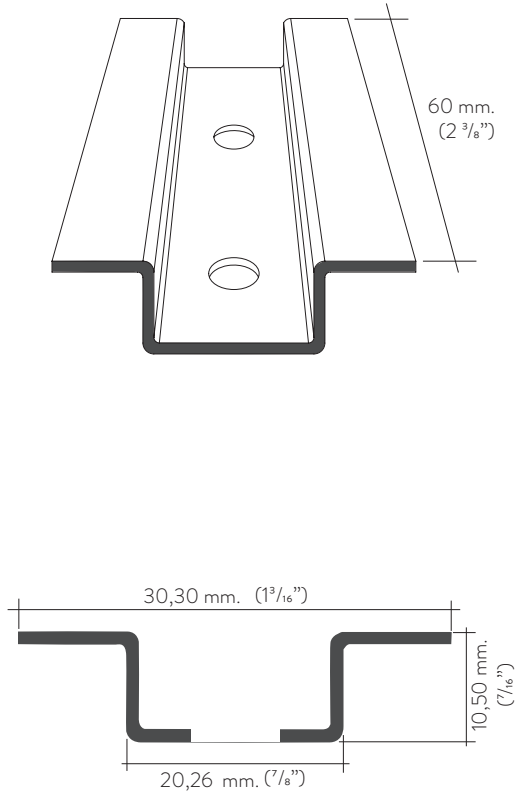
#12-24 HWH fastener with 1/2" bonded sealing washers shall be installed through a 2-3/8" x 1-9/16" x 16 ga. seam plate along each panel seam at each purling prior to installing the 24 ga. panel cap.

#12-24 HWH fastener with 1/2" bonded sealing washers shall be installed through a 1-9/16" x 20 ga. bearing plate with sealing rubber along the intermediate rib of each panel at each purling.

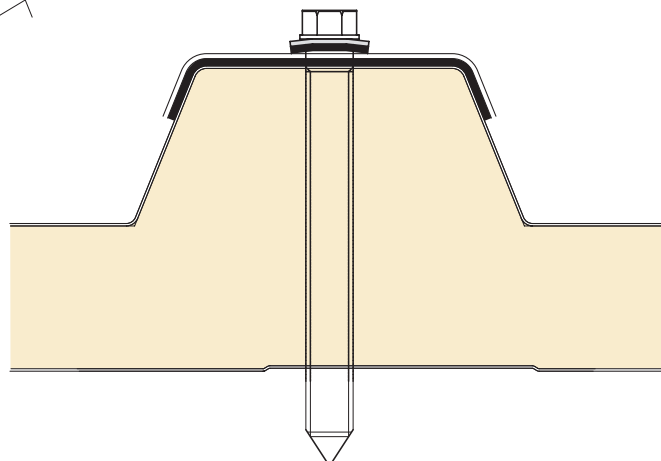
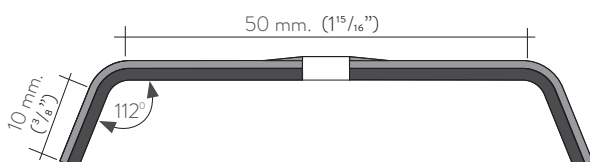
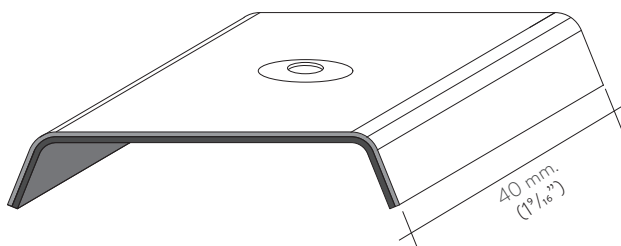


## MASTER-C FIXING OPTIONS:

### SEAM PLATE:



### BEARING PLATE:



## Technical assistance:

### PANEL OVERLAPS:

#12-24 HWH fastener with  $\frac{1}{2}$ " bonded sealing washers shall be installed through a  $2\frac{3}{8}$ " x  $1\frac{5}{16}$ " x 16 ga. seam plate along each panel seam at each purling prior to installing the 24 ga. panel cap.

a solution to be used when the length of roofing is greater than the maximum transportable: national = 16.00m and export = 39'

#12-24 HWH fastener with  $\frac{1}{2}$ " bonded sealing washers shall be installed through a  $1\frac{5}{16}$ " x 20 ga. bearing plate with sealing rubber along the intermediate rib of each panel at each purling.

self-tapping screws located on the sealant line

polyurethane elastic sealant

Master-C panel

>80 mm. ( $3\frac{5}{32}$ " ) overlap

200 mm. - 300 mm.  
( $7\frac{7}{8}$ " -  $11\frac{13}{16}$ " )

remove lower face and polyurethane

Cutting can be in-factory (optional) or on site

200 mm. - 300 mm.  
( $7\frac{7}{8}$ " -  $11\frac{13}{16}$ " )

### COVER CAP OVERLAPS:

self-tapping screws one on each side of the overlap

Master-C panel

cover cap previously prepared for overlap

polyurethane elastic sealant

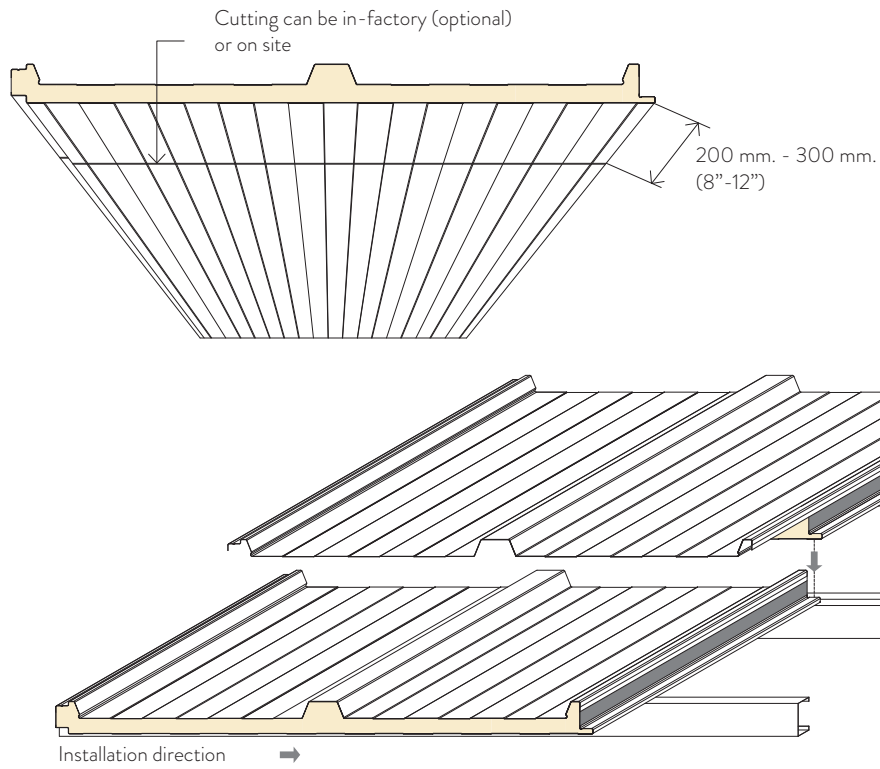
cover cap overlap must never coincide with panel overlap

cover cap

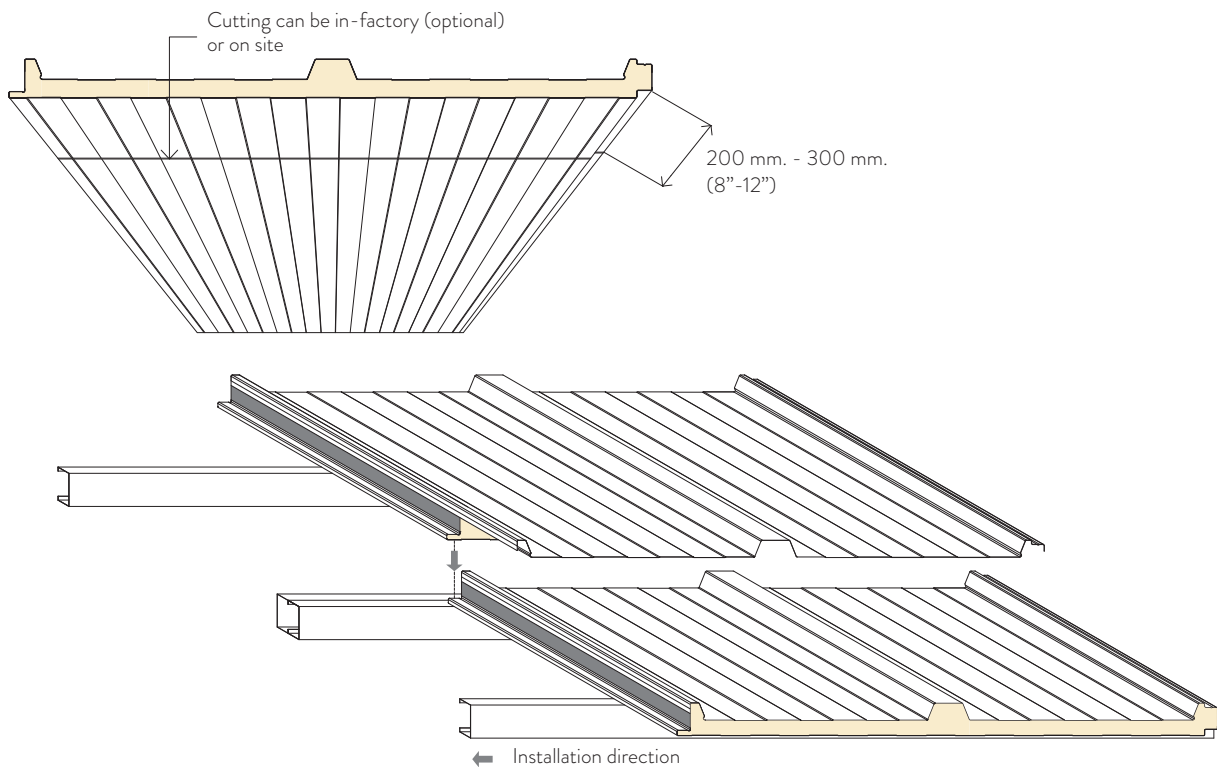
manually cut a slot of 100 mm (4") minimum (both lower sides of the cover cap)

overlap preparation

## RIGHT OVERLAP:



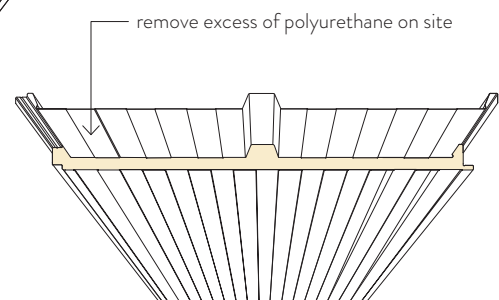
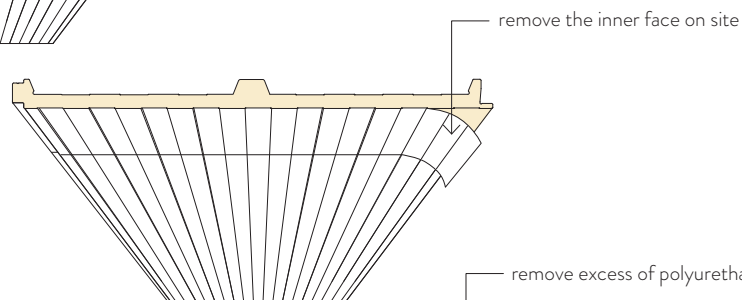
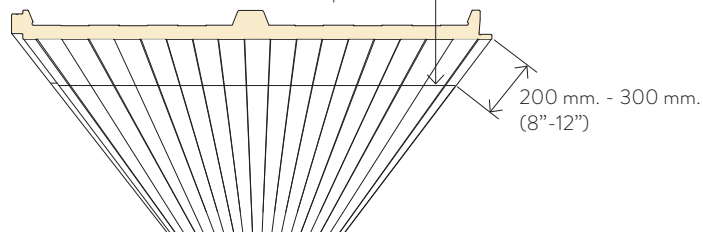
## LEFT OVERLAP:



## Technical assistance:

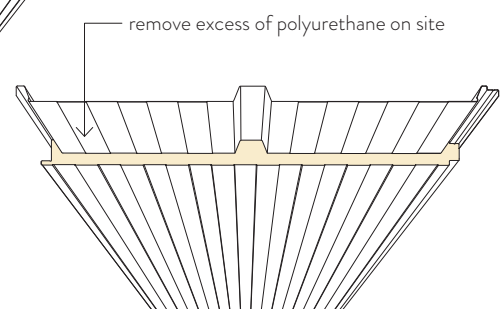
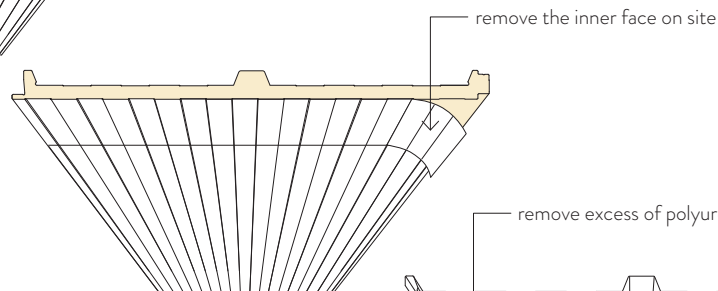
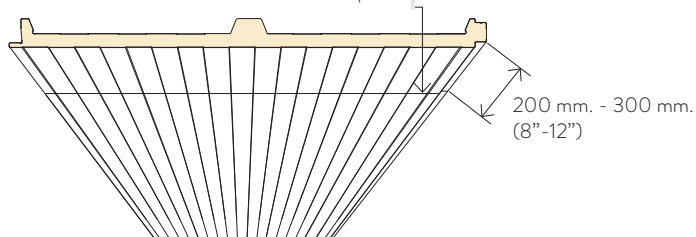
### PANEL PREPARATION FOR RIGHT OVERLAP:

Cutting can be made at the factory (optionally);  
if the cut is made on site, take special  
care with the cut depth.  
It should not reach the outer steel face of the panel.

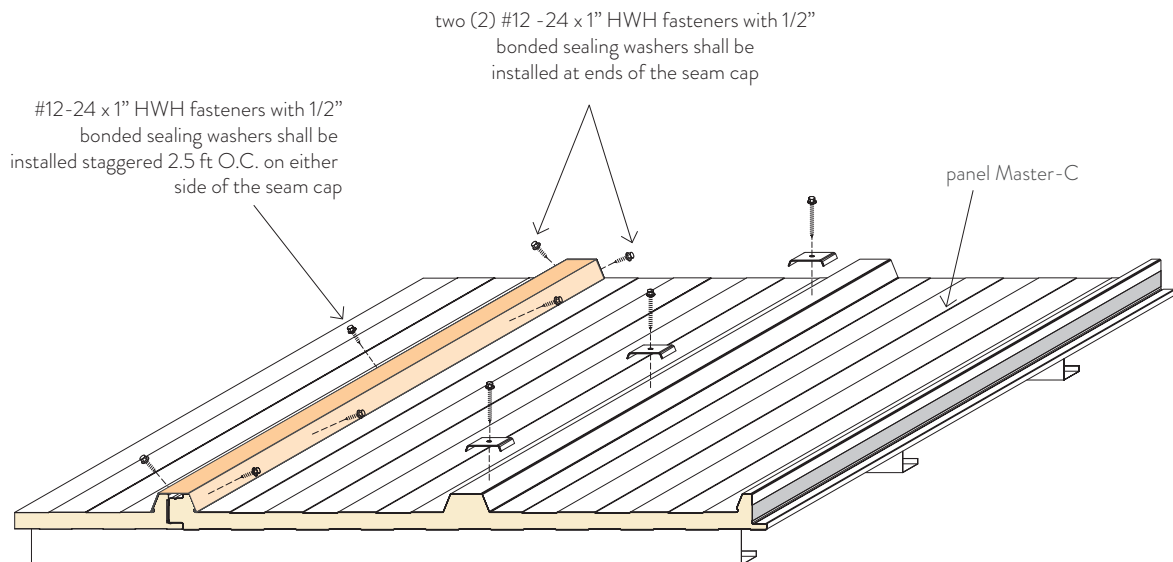


### PANEL PREPARATION FOR LEFT OVERLAP:

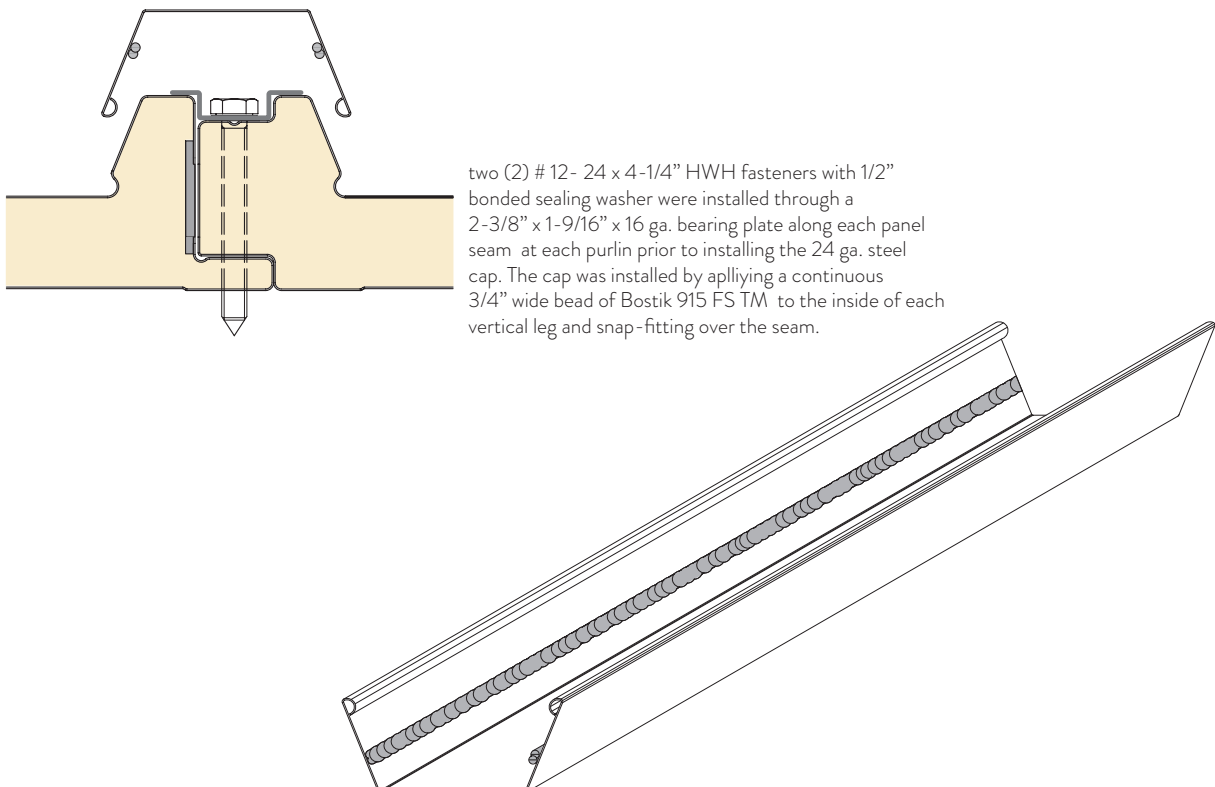
Cutting can be made at the factory (optionally); if  
the cut is made on site, take special  
care with the cut depth.  
It should not reach the outer steel face of the panel.



## COVER CAP FIXING DETAILS:

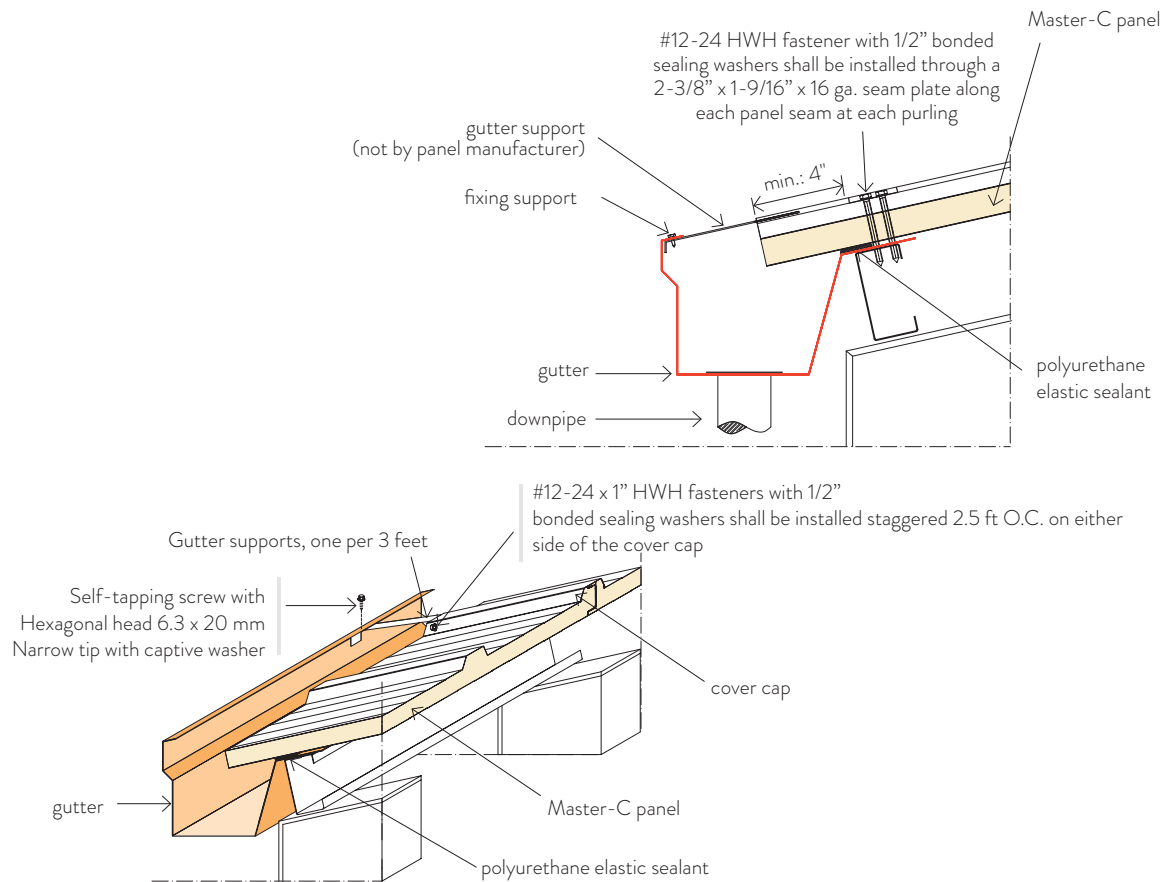


## ASTM E 2140 TEST METHOD FOR WATER PENETRATION



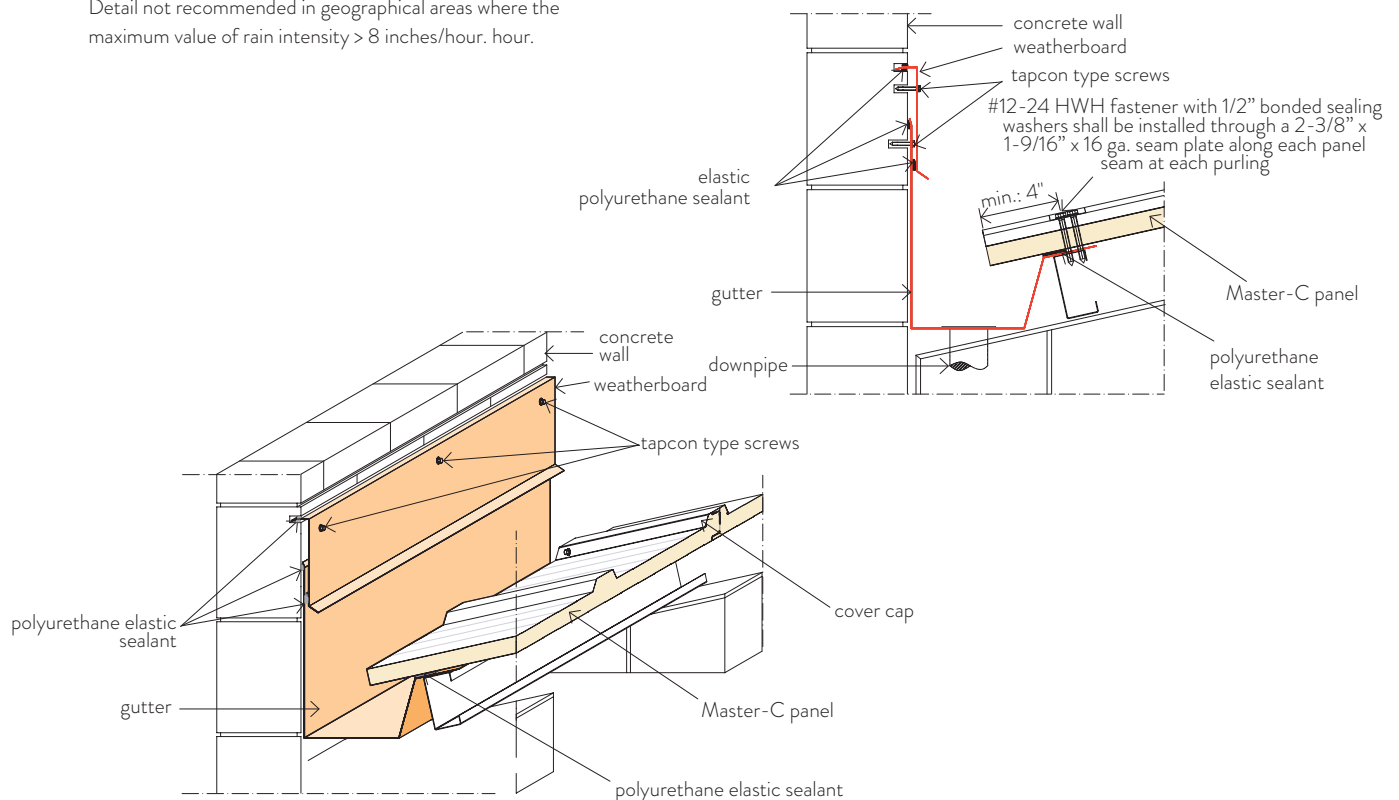
## Technical assistance:

### EXTERIOR GUTTERING:



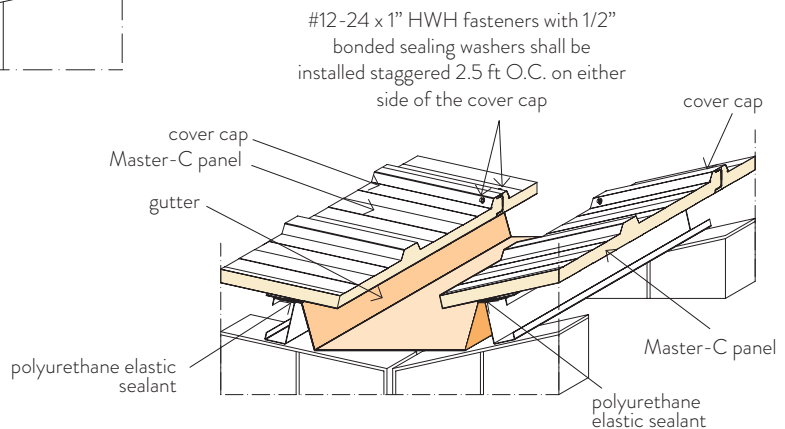
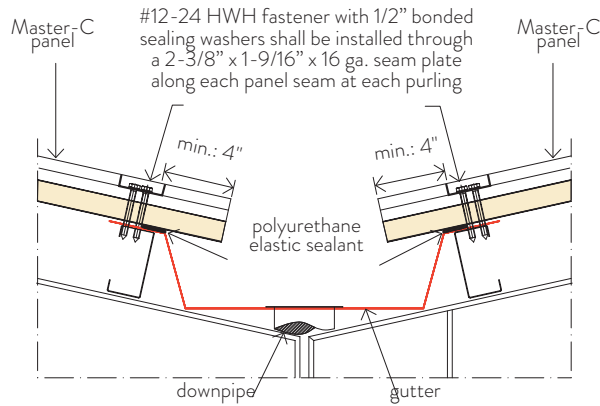
### INTERIOR GUTTERING ON CONCRETE WALLS:

Detail not recommended in geographical areas where the maximum value of rain intensity > 8 inches/hour. hour.

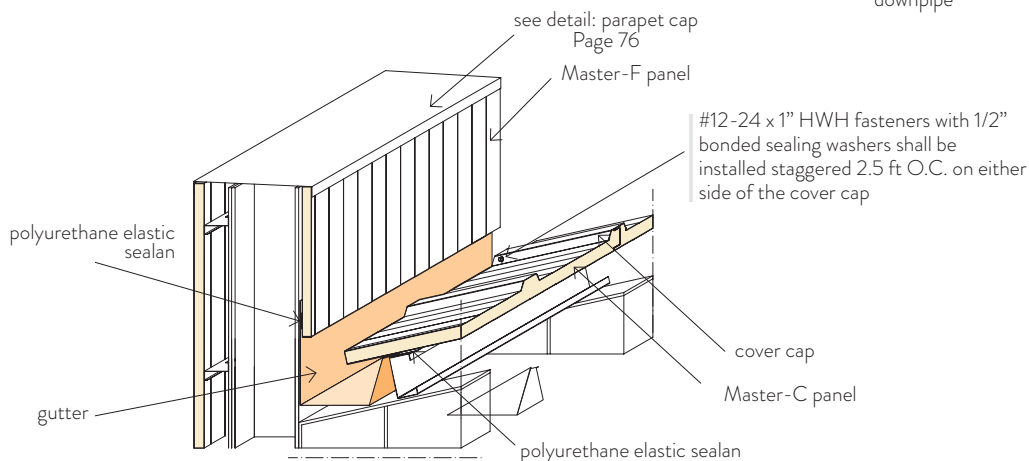
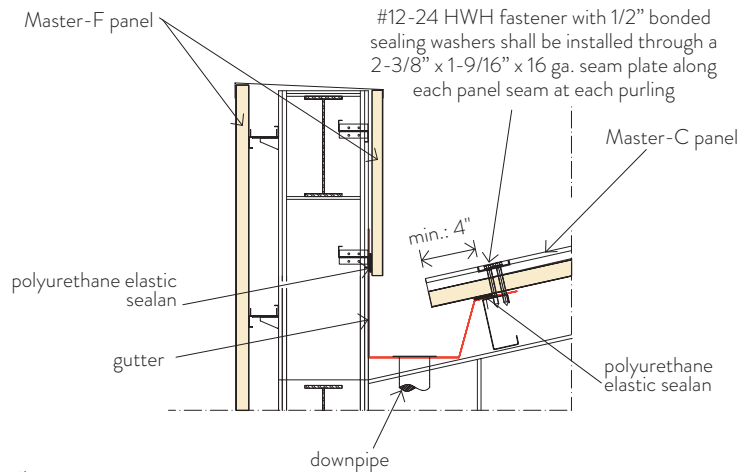




## CENTRAL GUTTERING:



## INTERIOR SIDE GUTTERING

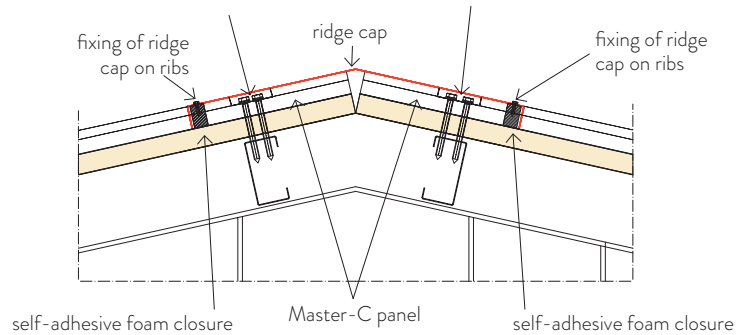


## Technical assistance:

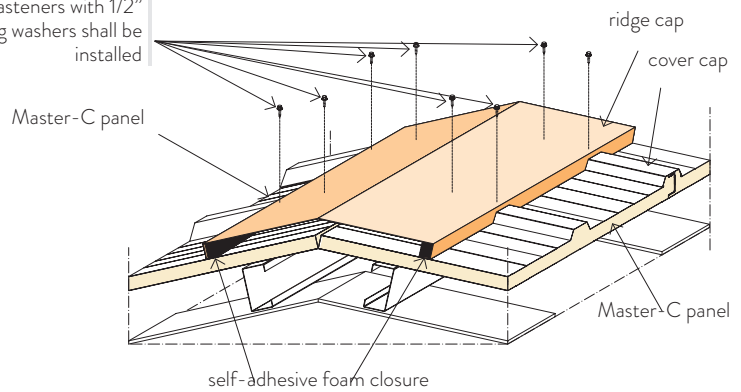
### RIDGE CAP:

#12-24 HWH fastener with 1/2" bonded sealing washers shall be installed through a 2-3/8" x 1-9/16" x 16 ga. seam plate along each panel seam at each purling

#12-24 HWH fastener with 1/2" bonded sealing washers shall be installed through a 2-3/8" x 1-9/16" x 16 ga. seam plate along each panel seam at each purling

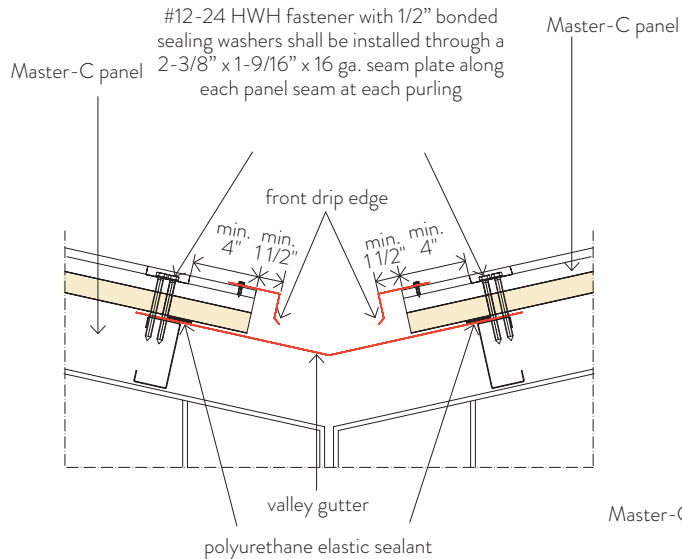


#12-24 x 1" HWH fasteners with 1/2" bonded sealing washers shall be installed

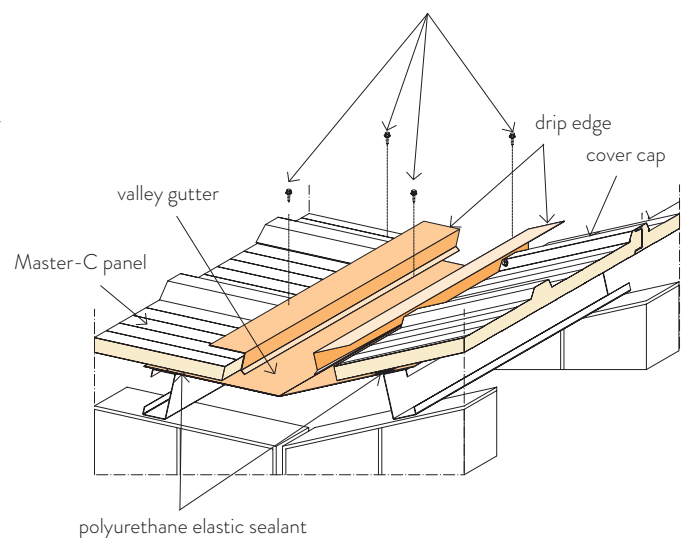


### VALLEY GUTTER

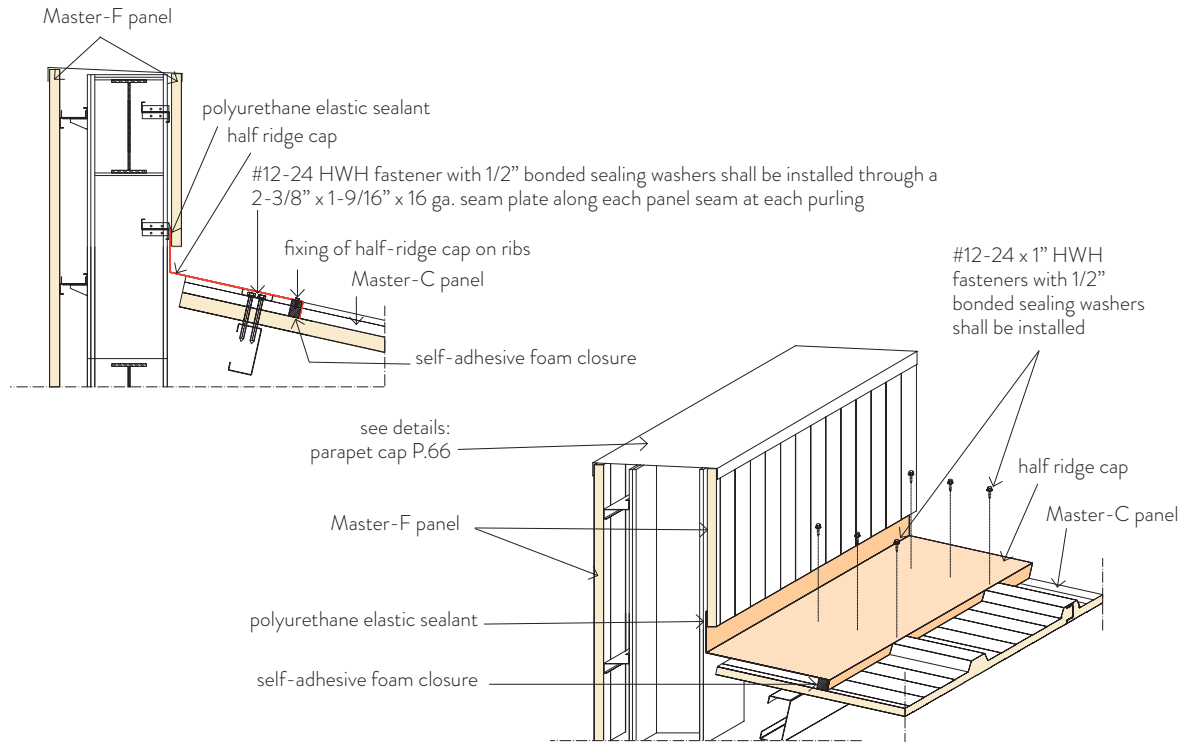
#12-24 HWH fastener with 1/2" bonded sealing washers shall be installed through a 2-3/8" x 1-9/16" x 16 ga. seam plate along each panel seam at each purling



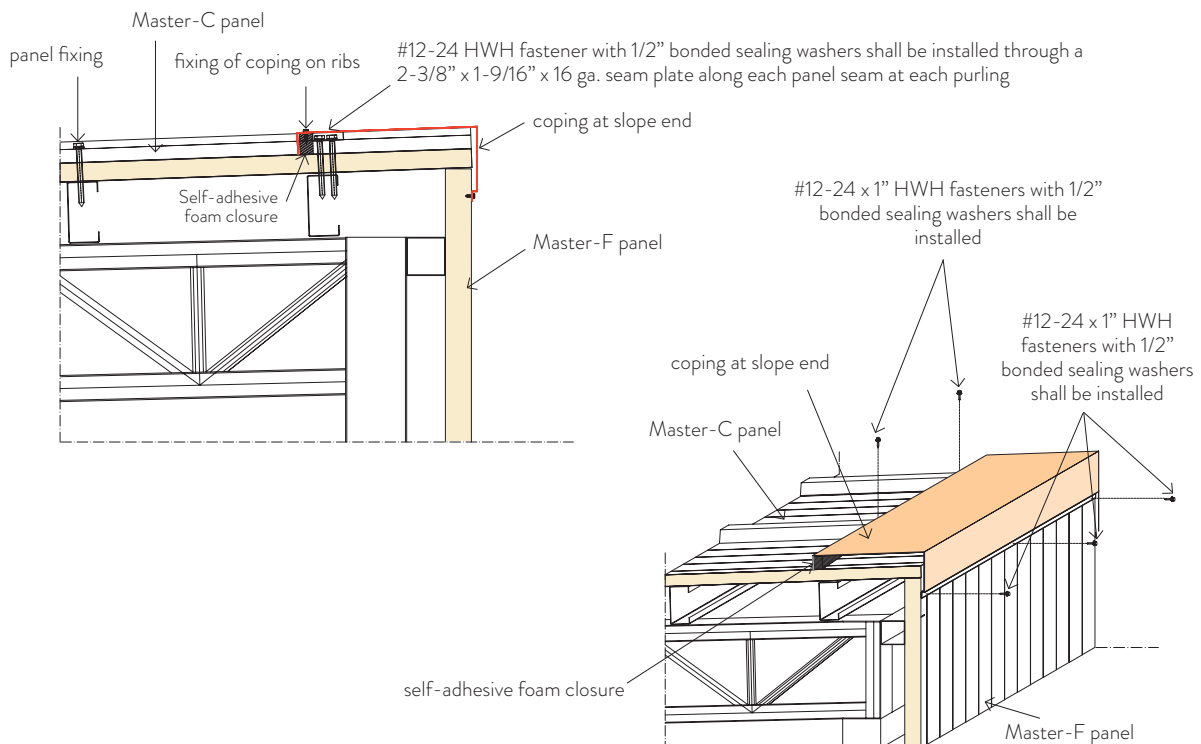
#12-24 x 1" HWH fasteners with 1/2" bonded sealing washers shall be installed



## TOP OF SLOPE TO WALL:

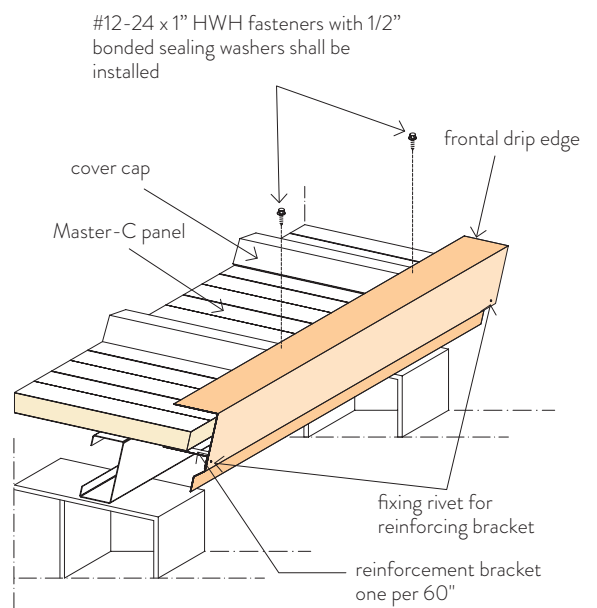
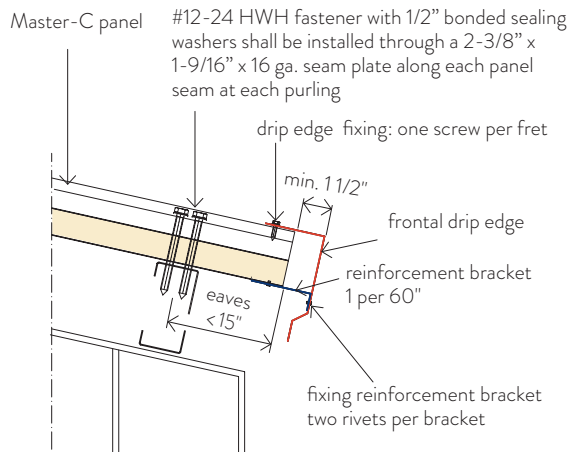


## COPING FOR SLOPE ENDS:

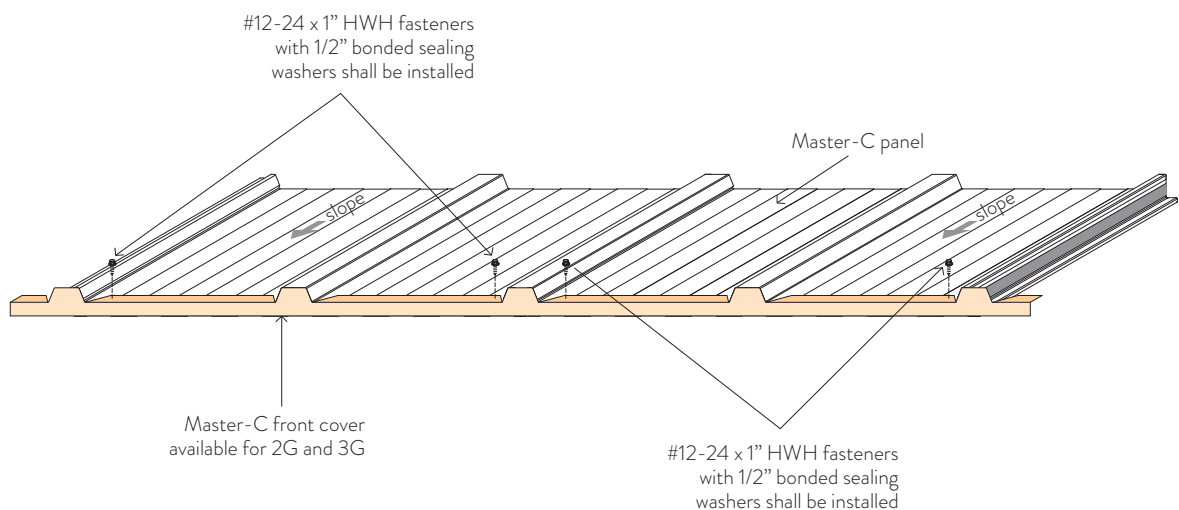


## Technical assistance:

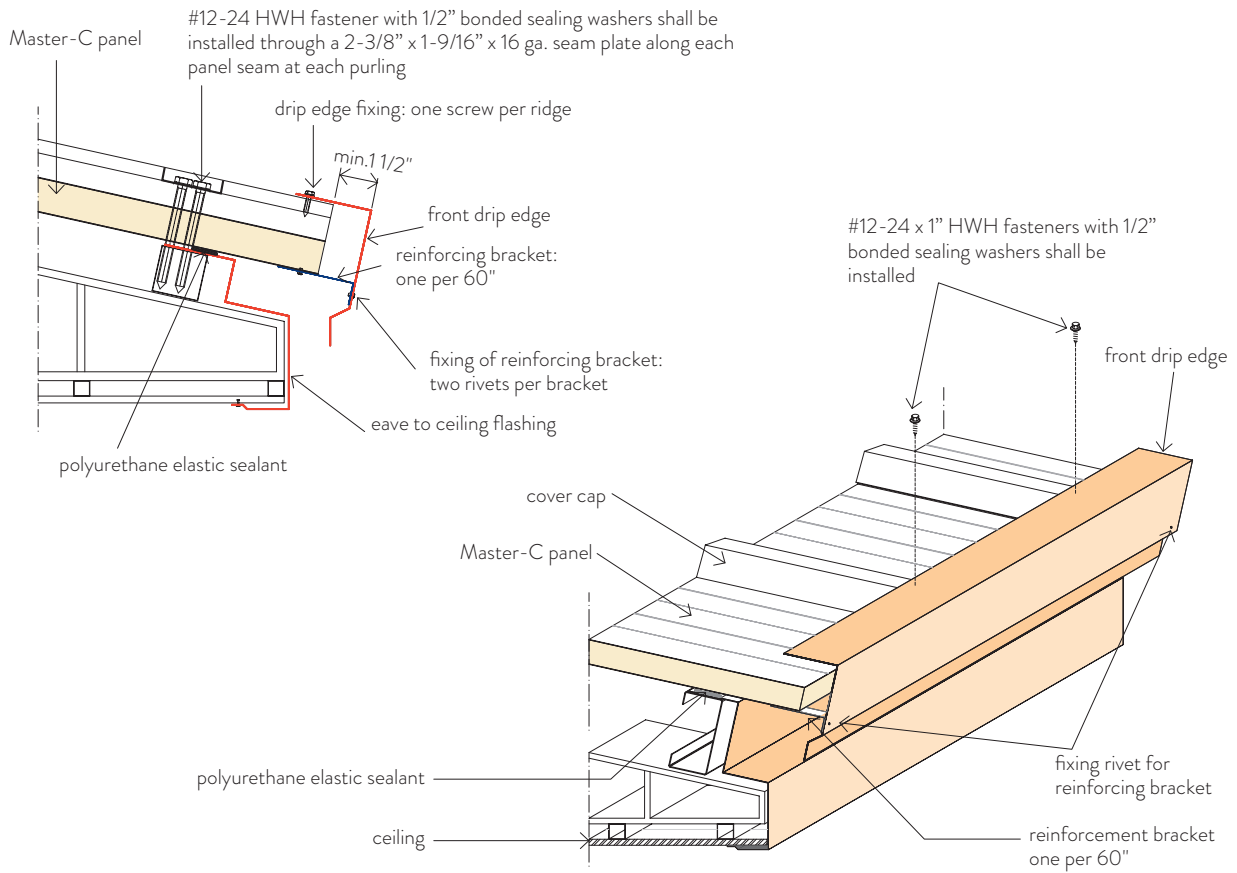
### FRONTAL DRIP EDGE:



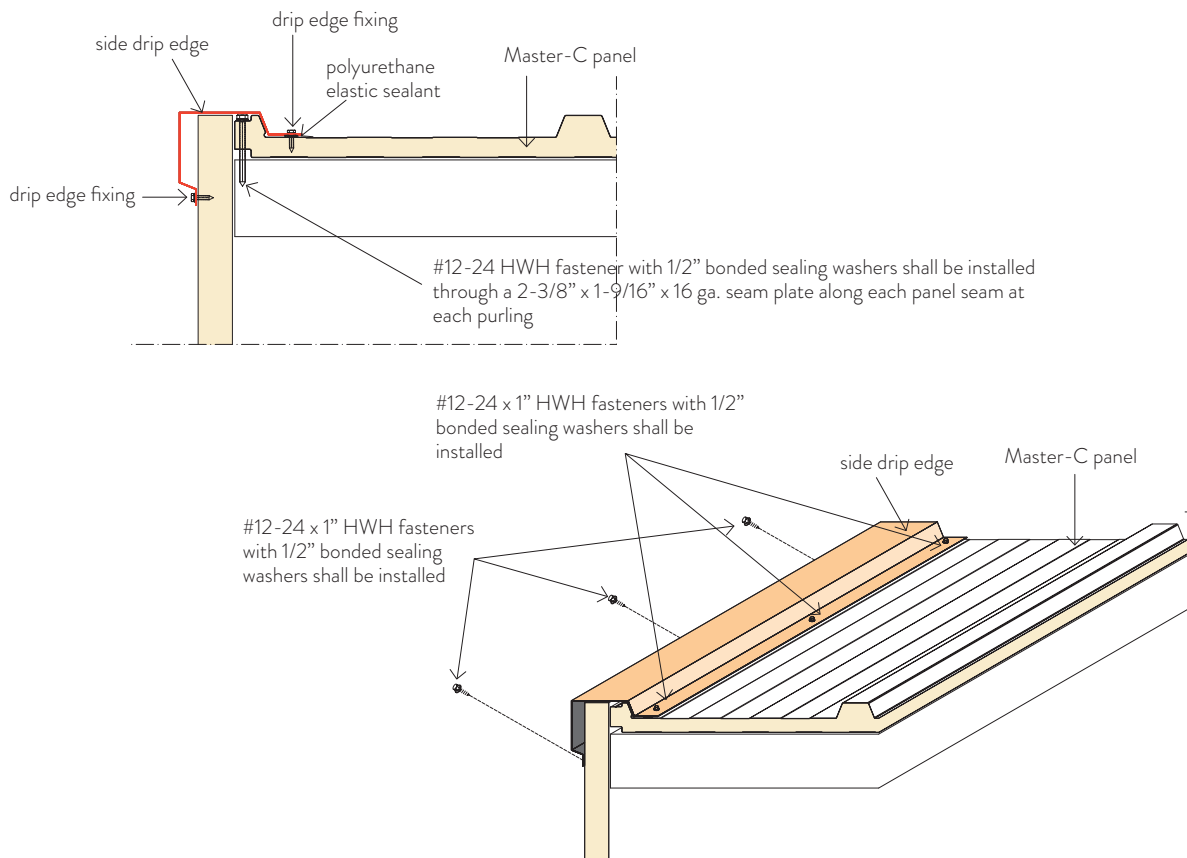
### FRONT COVER:



## EAVE DRIP TO CEILING:

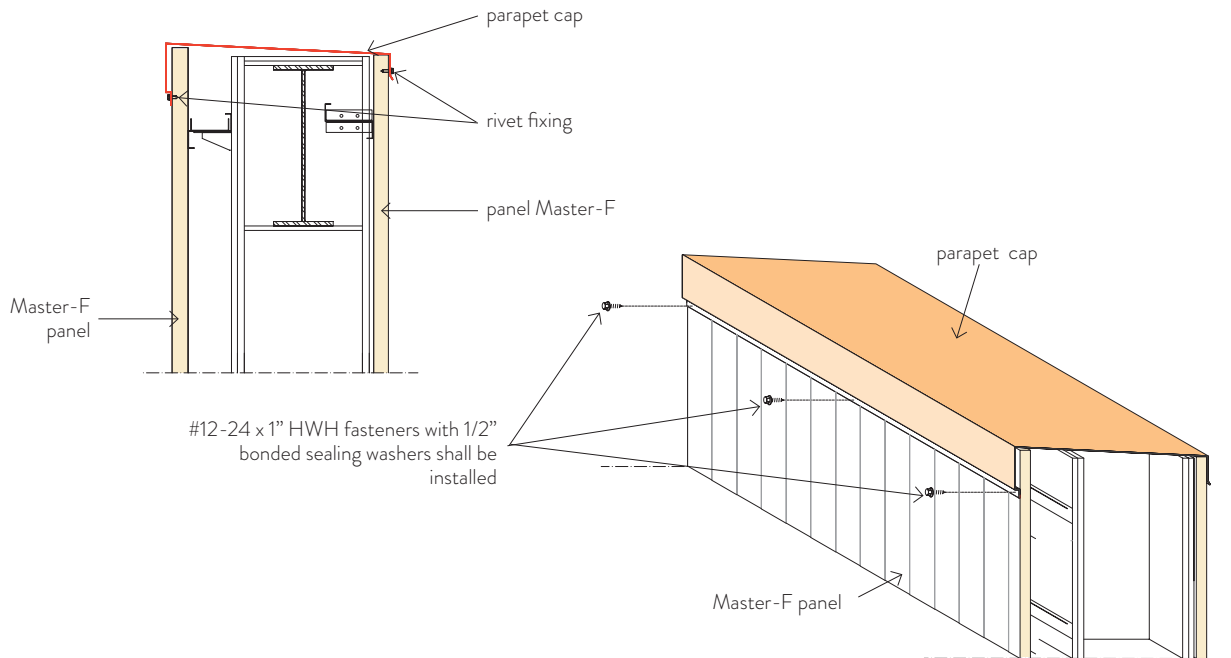


## SIDE DRIP EDGE:

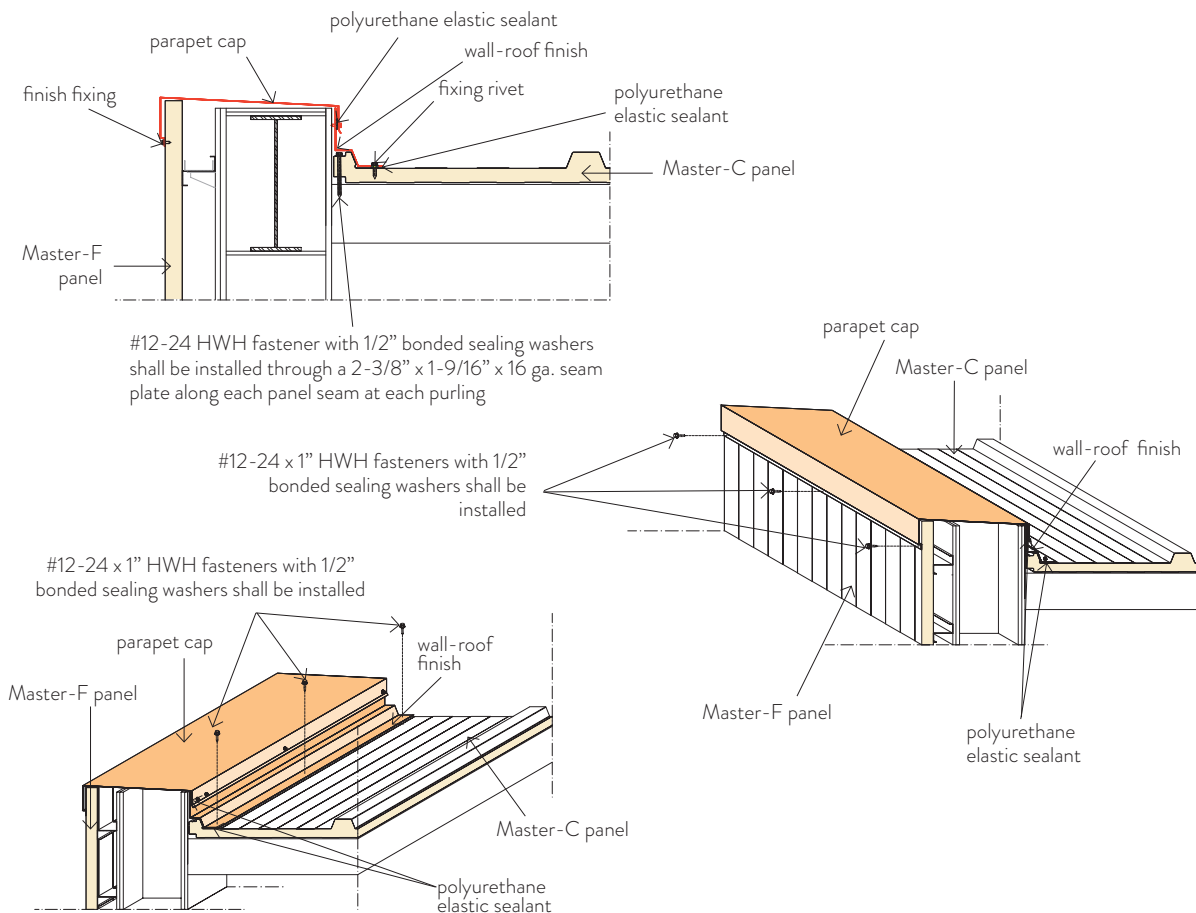


## Technical assistance:

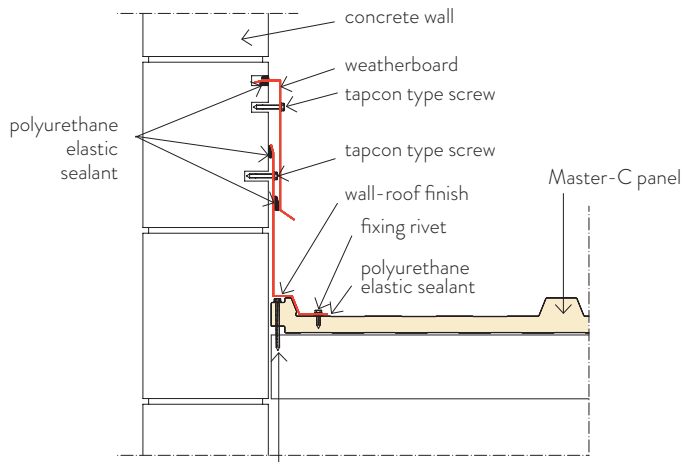
### PARAPET CAP:



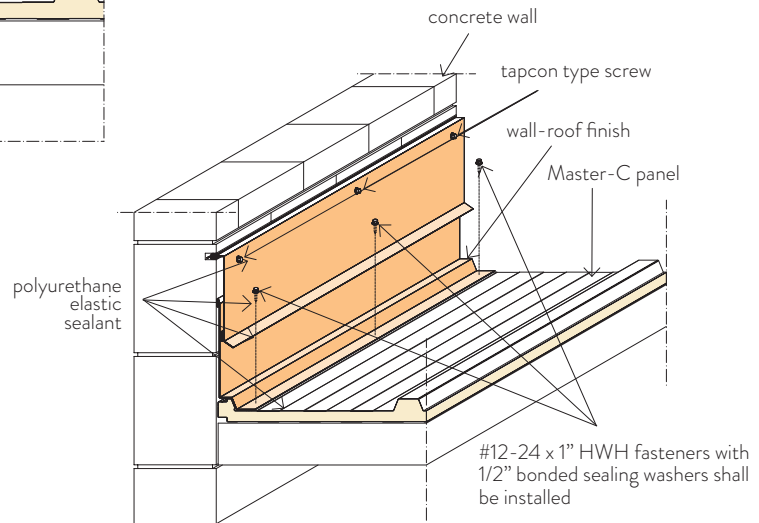
### SIDE SLOPE



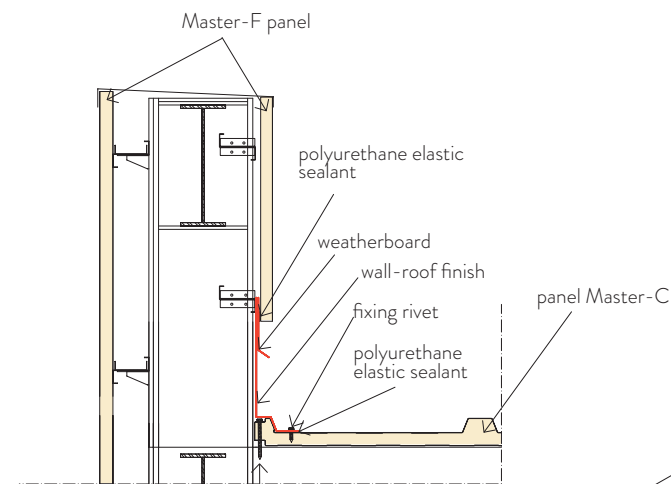
## SIDE SLOPE TO WALL



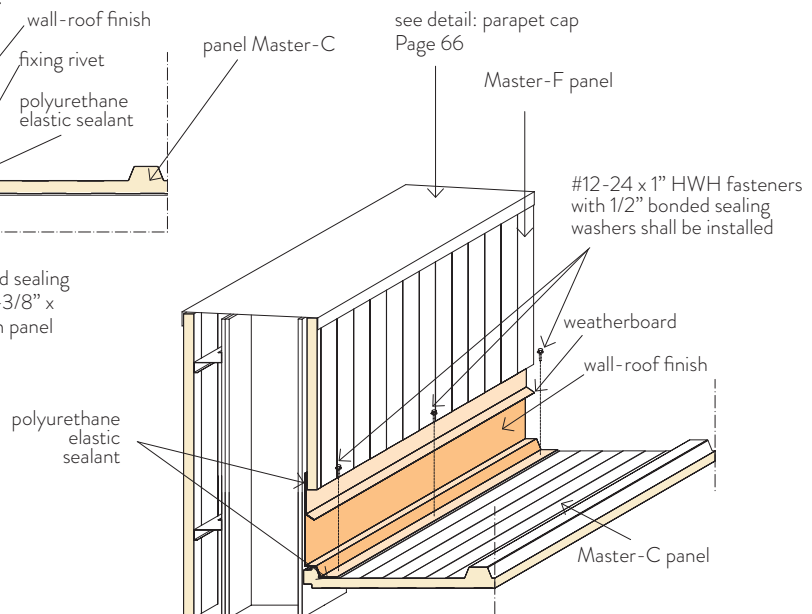
#12-24 HWH fastener with 1/2" bonded sealing washers shall be installed through a 2-3/8" x 1-9/16" x 16 ga. seam plate along each panel seam at each purling



## SIDE OF SLOPE TO WALL

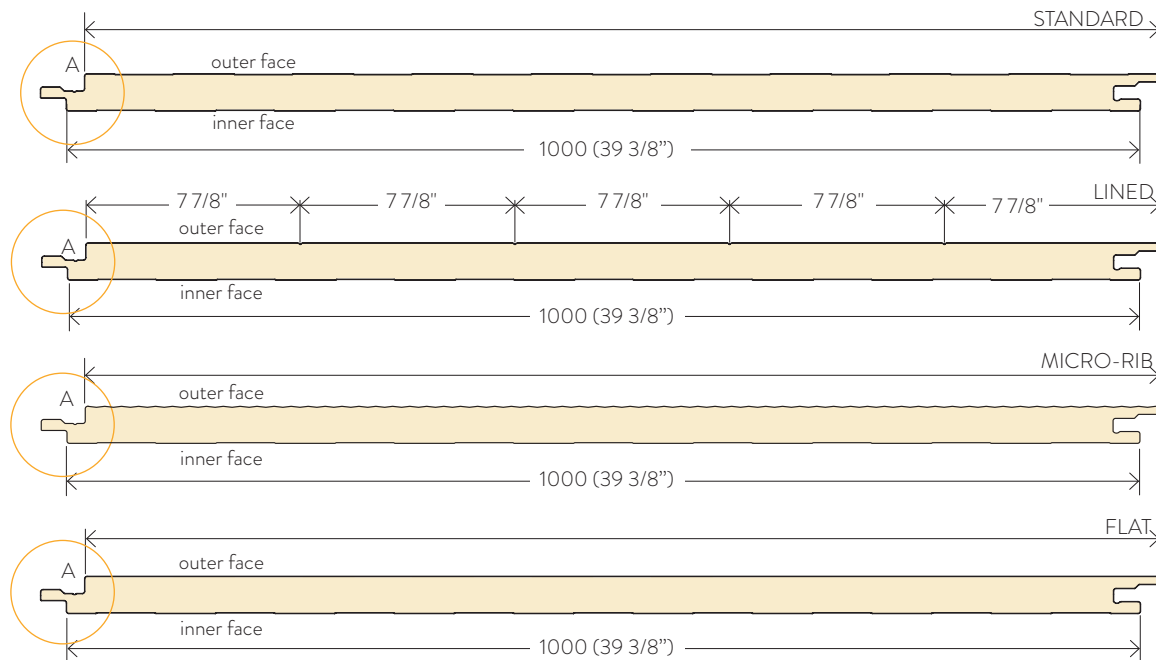


#12-24 HWH fastener with 1/2" bonded sealing washers shall be installed through a 2-3/8" x 1-9/16" x 16 ga. seam plate along each panel seam at each purling

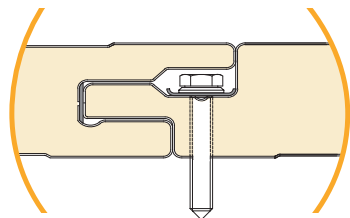


## Technical assistance:

### MASTER-F TYPE PROFILES AND JOINTS:

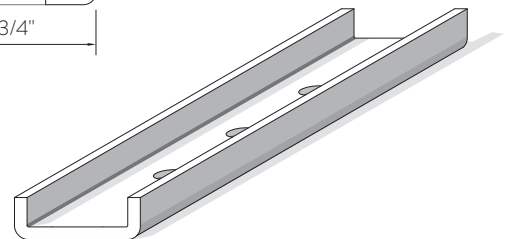
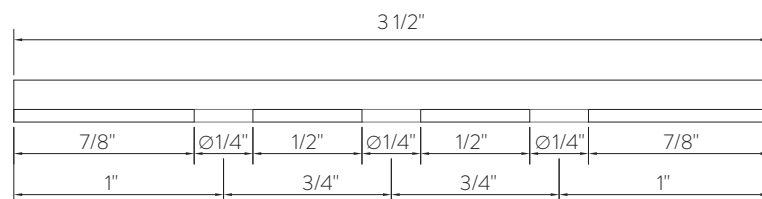
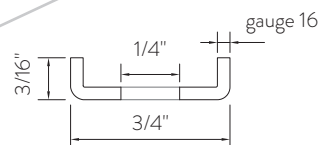


### FASTENING DESIGN FD1:

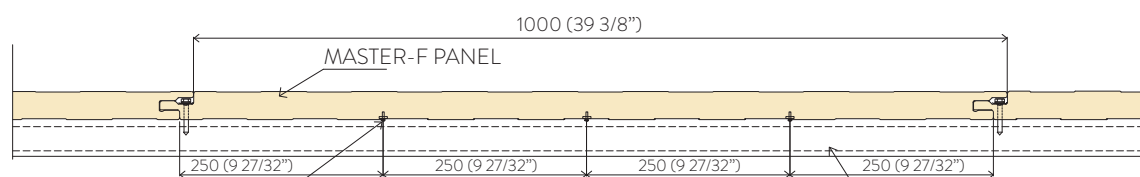


A Detail  
(wall panel type joint)

U clip details:



### FASTENING DESIGN FD2:



#### FAB-LOK

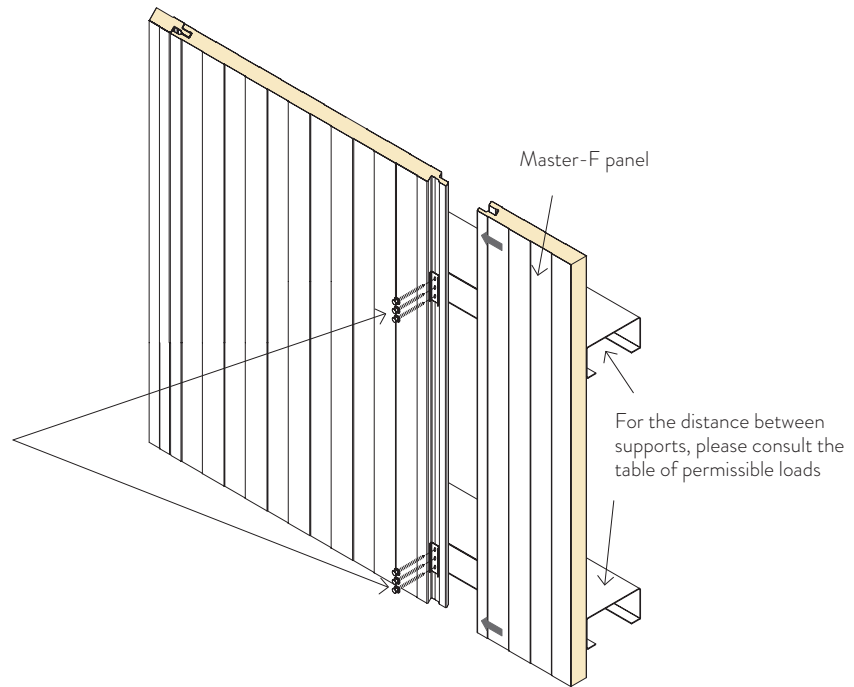
IN ADDITION TO THE FASTENING DESIGN, THE PANELS CAN BE INSTALLED WITH (3) FAB-LOK FASTENERS SPACED AT MAXIMUM 9,8" O.C. (250MM) FROM THE PANEL SIDELAP.  
Elco's Fab-Lok @FAS/FAC 10 -4, 10 -8 or 10 -12 expansion fasteners to fasten the interior skin to support

MIN 16 GA. SUPPORTS BY OTHERS.  
(SEE LOAD SPAN TABLE FOR ALLOWABLE LOADS AND SPANS)



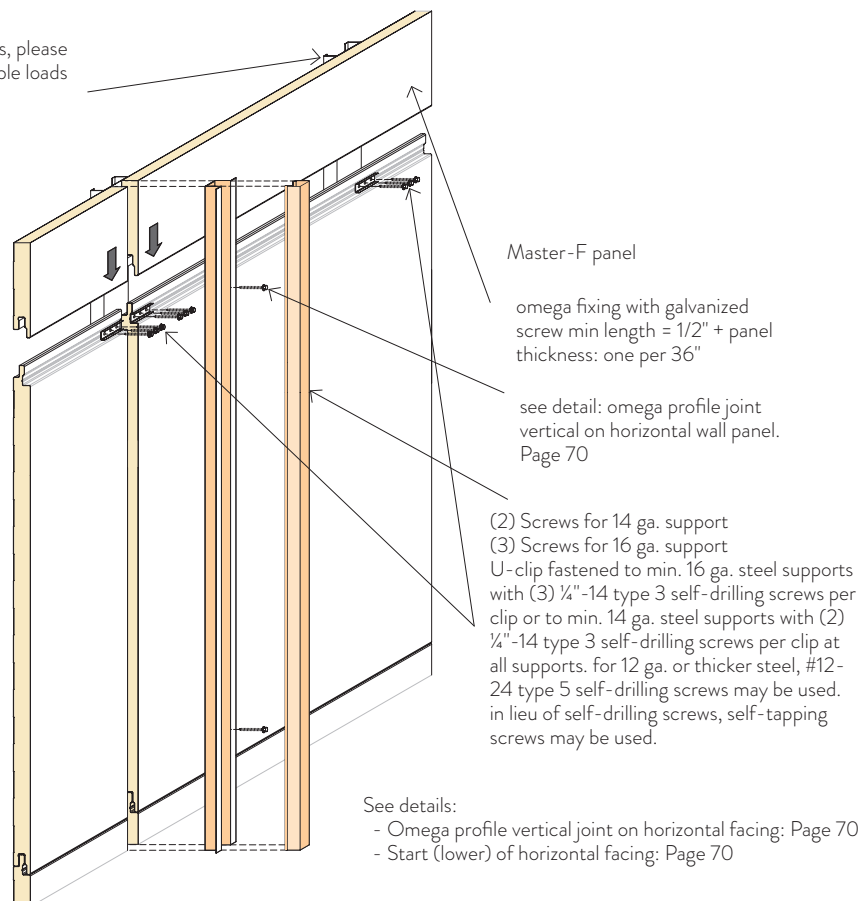
## EXPLODED VERTICAL VIEW OF MASTER-F JOINT (FD1):

(2) Screws for 14 ga. support  
(3) Screws for 16 ga. support  
U-clip fastened to min. 16 ga. steel supports with (3) ¼"-14 type 3 self-drilling screws per clip or to min. 14 ga. steel supports with (2) ¼"-14 type 3 self-drilling screws per clip at all supports. for 12 ga. or thicker steel, #12-24 type 5 self-drilling screws may be used. in lieu of self-drilling screws, self-tapping screws may be used.



## EXPLODED HORIZONTAL VIEW OF MASTER-F JOINT (FD1):

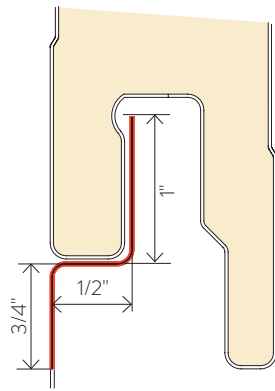
For the distance between supports, please consult the table of permissible loads



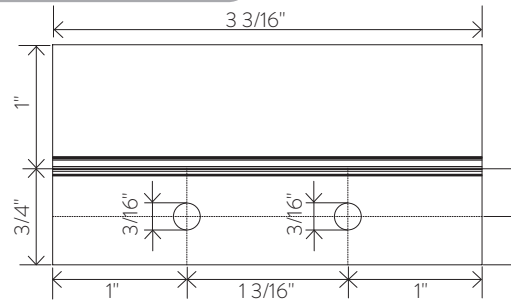
Technical assistance:

## START (LOWER) OF HORIZONTAL FACING:

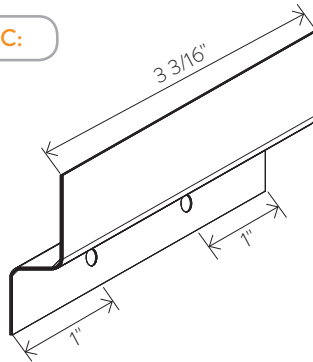
SECTION:



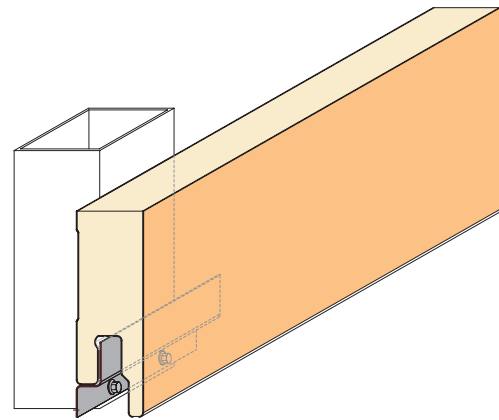
FRONT ELEVATION:



ISOMETRIC:

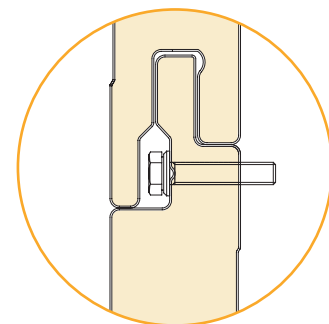
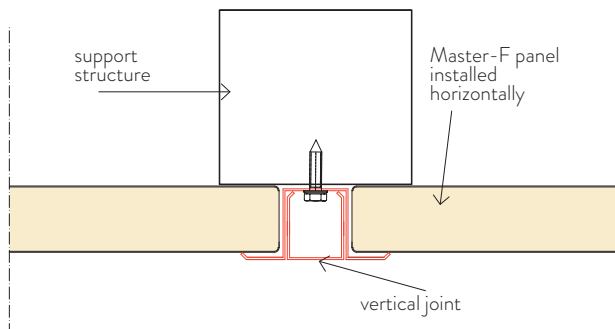


VIEW:

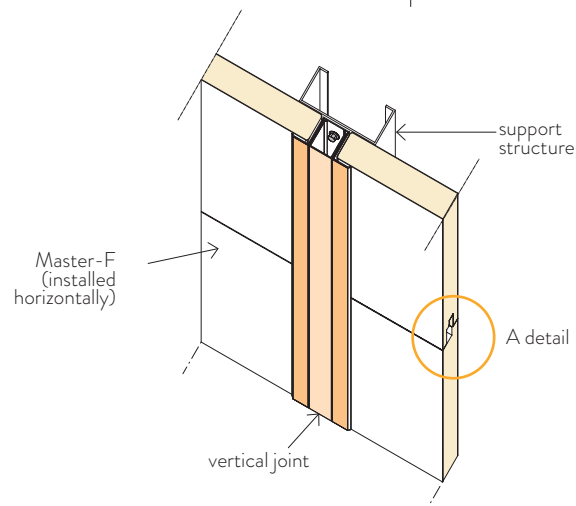


## OMEGA PROFILE VERTICAL ON HORIZONTAL FACING:

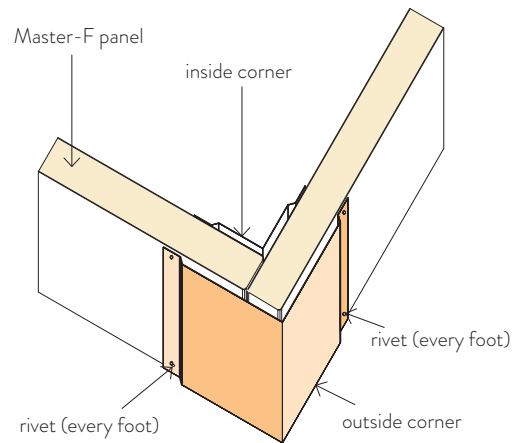
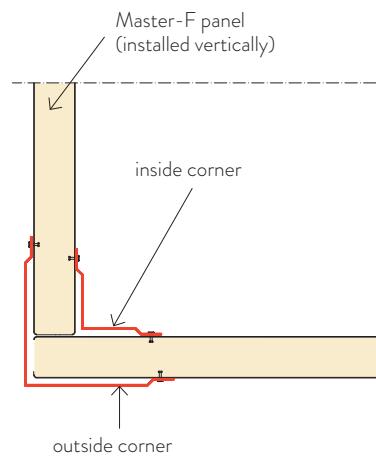
VIEW



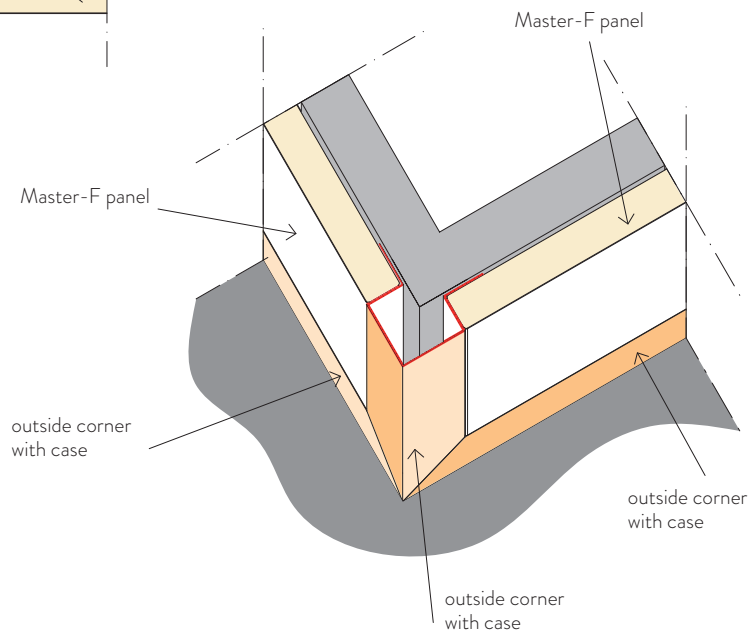
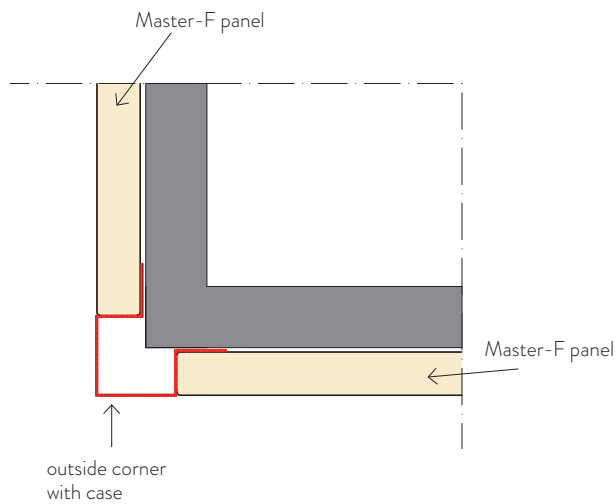
ISOMETRIC:



## INNER/OUTER FACING CORNER:

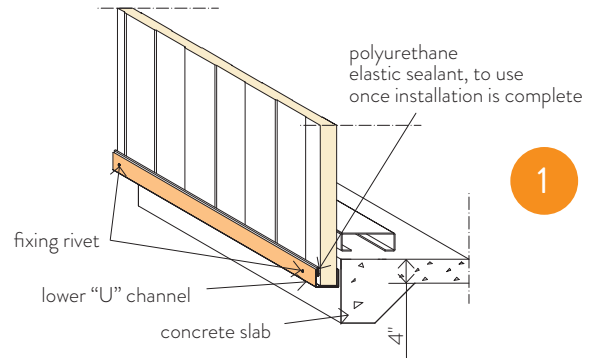
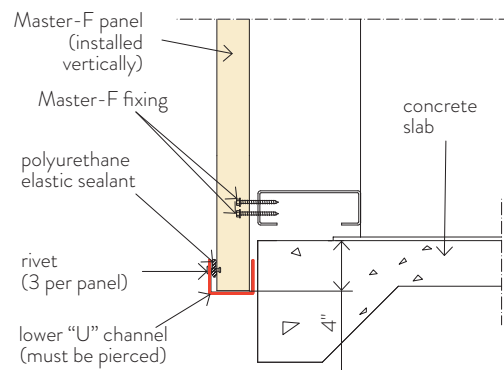


## OUTER CORNER WALL PANEL WITH CASE:

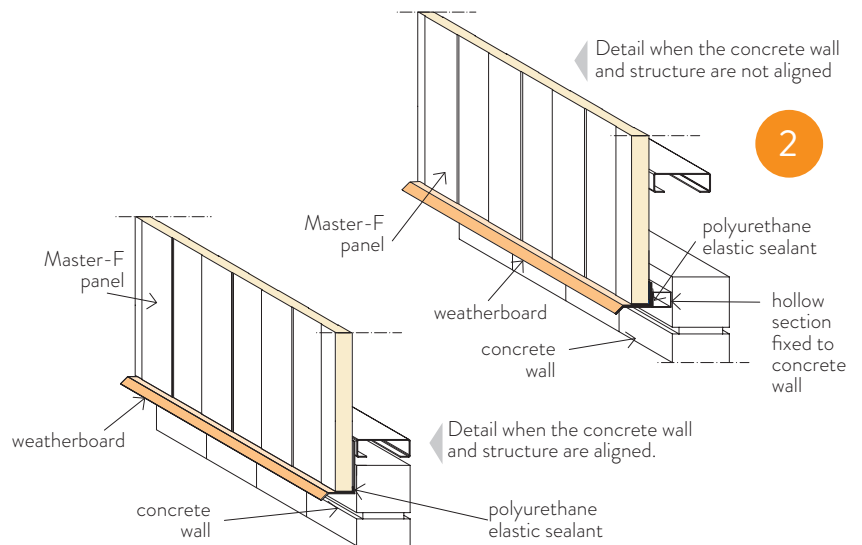
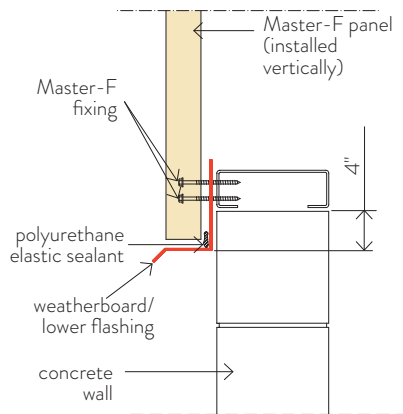


## Technical assistance:

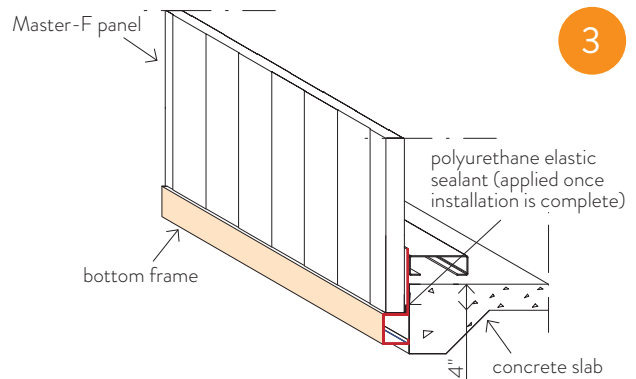
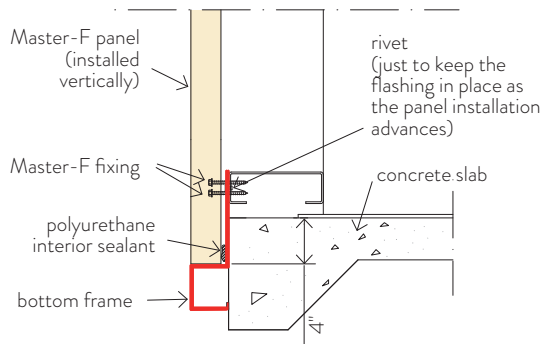
### LOWER VERTICAL FACING:



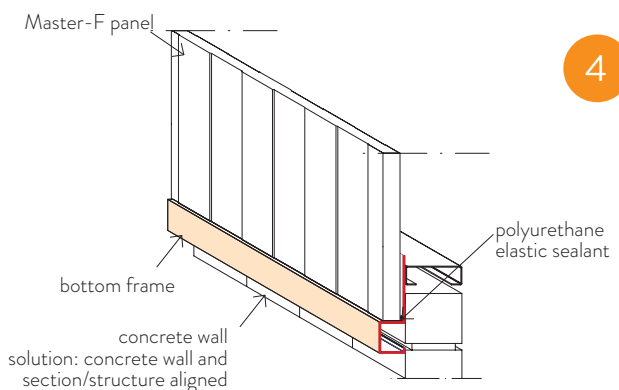
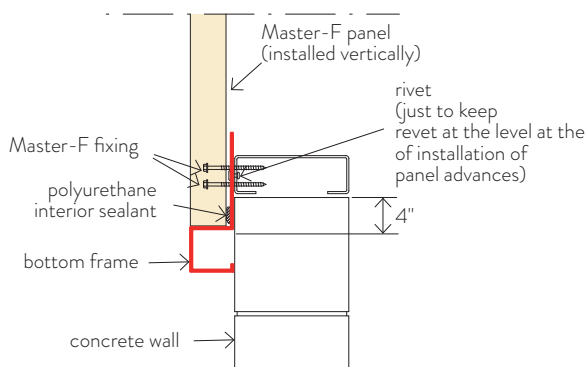
1



2

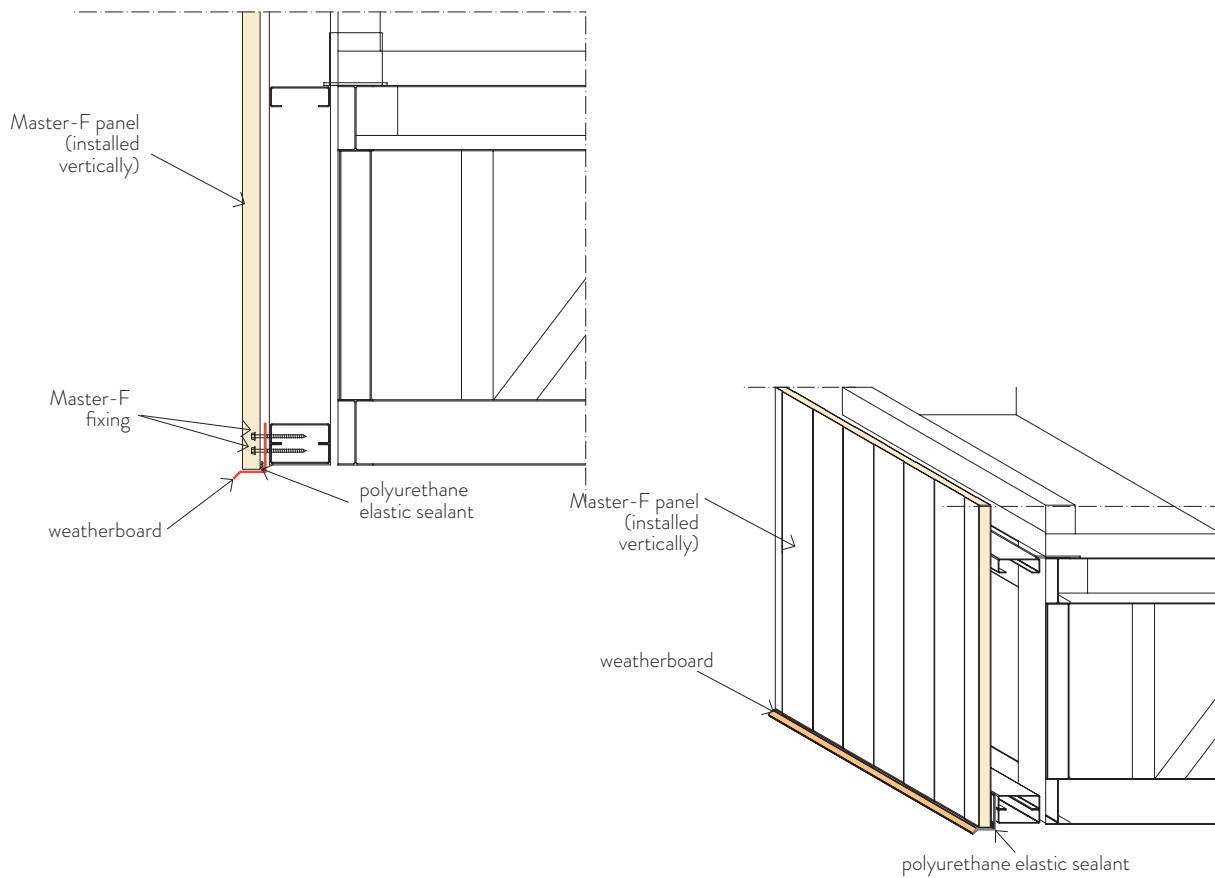


3

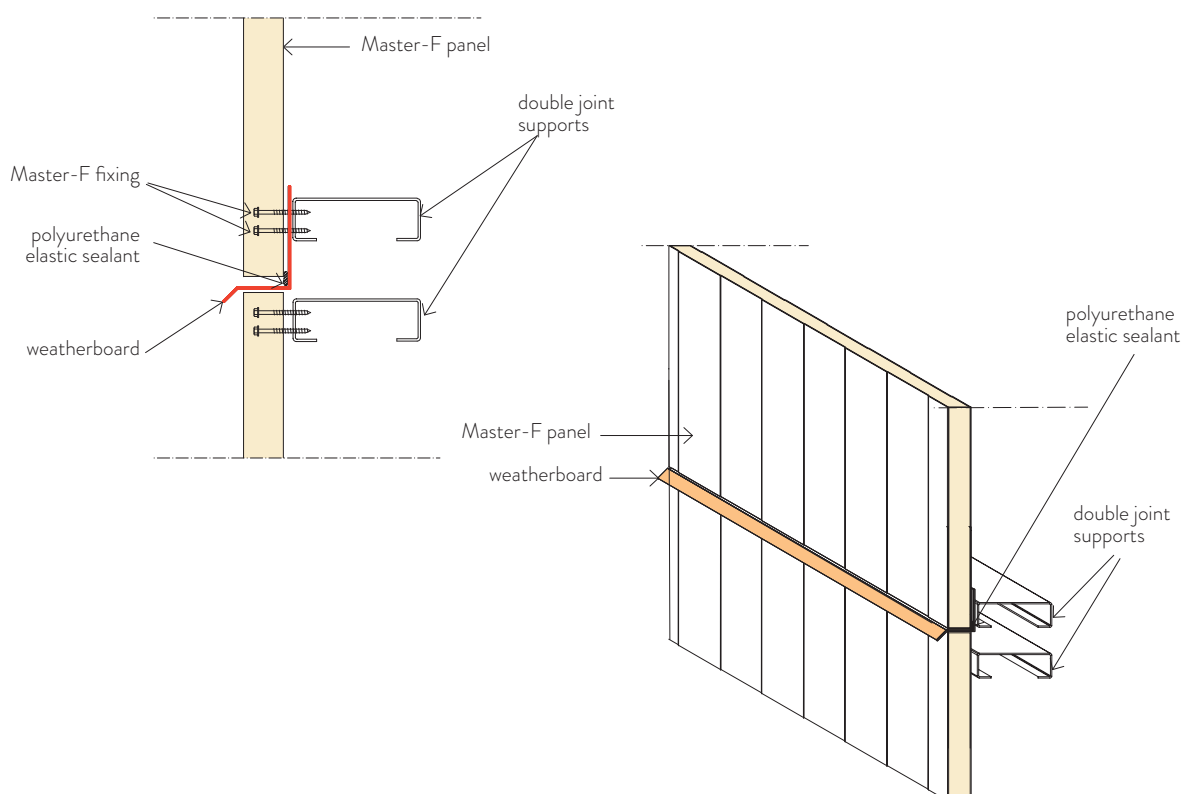


4

## UPPER VERTICAL FACING:



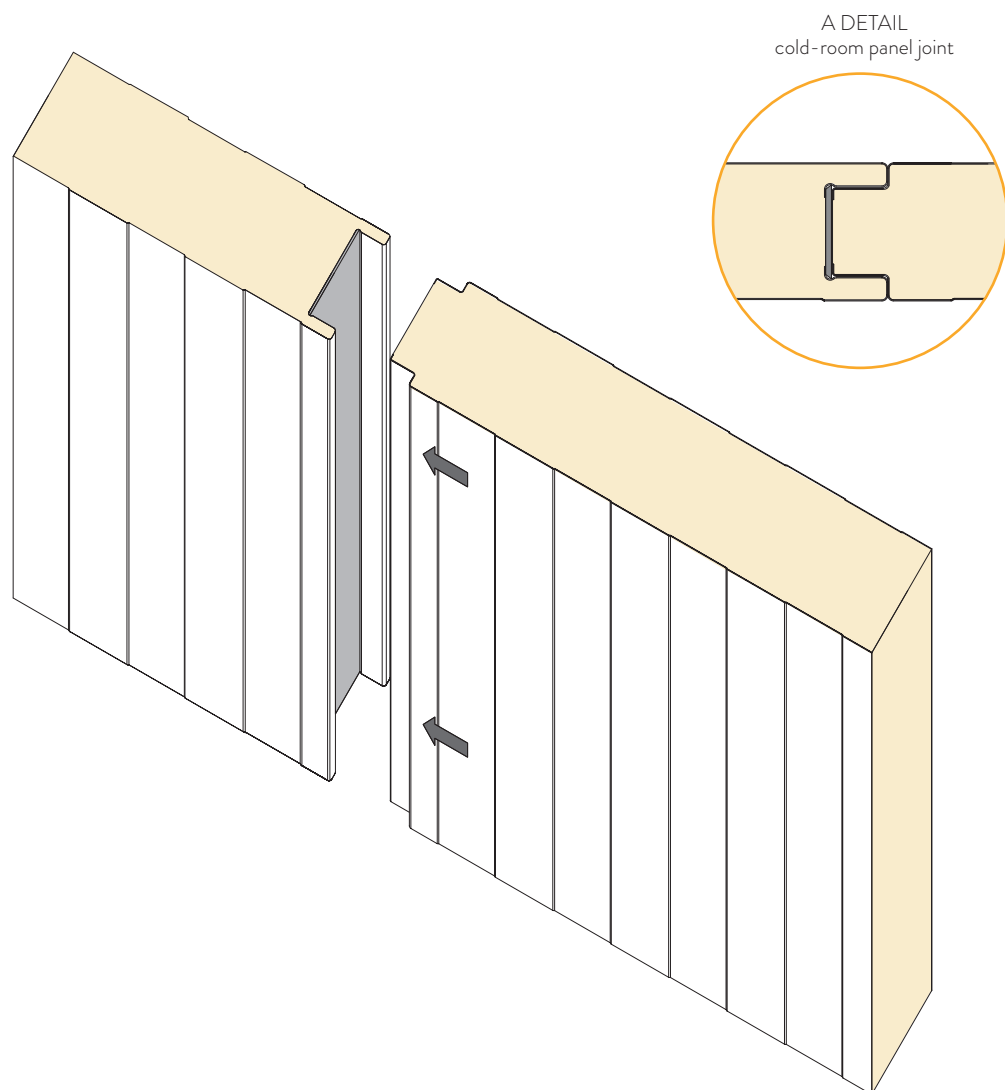
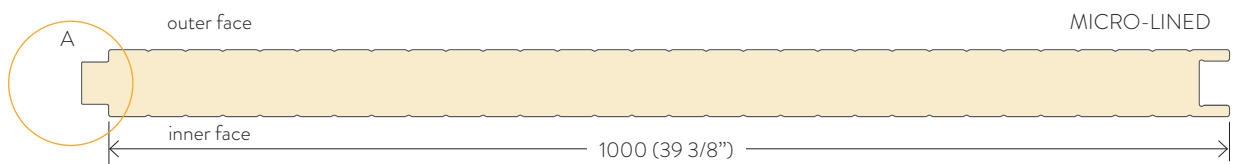
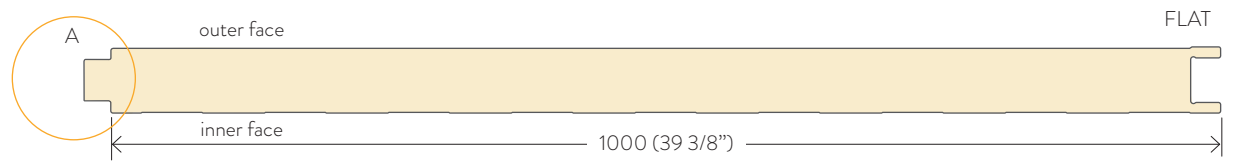
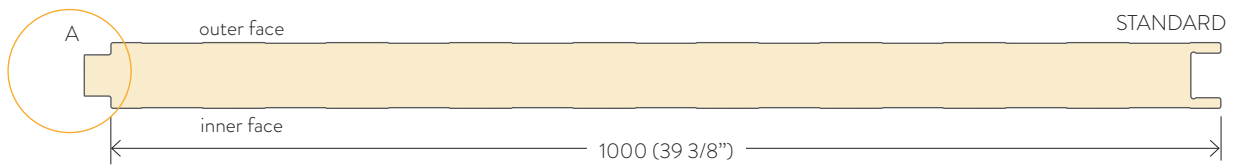
## TRANSVERSE JOINT ON VERTICAL FACING:



**TECHNICAL ASSISTANCE:**

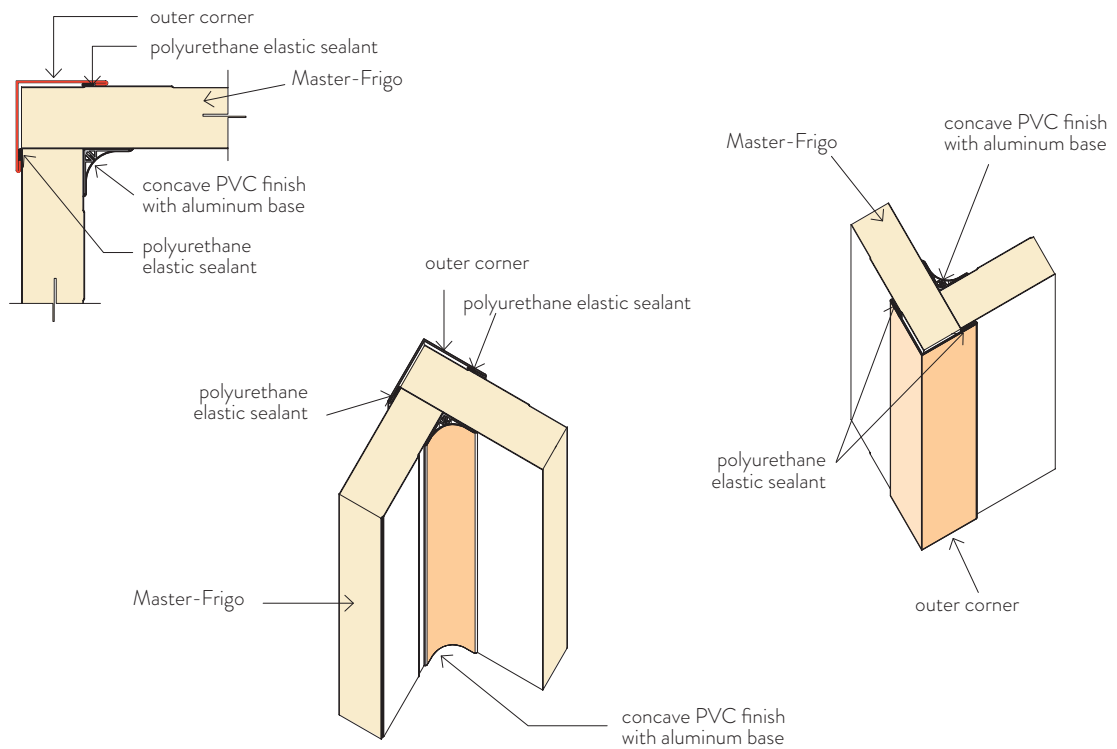


# PROFILES AND TYPE MASTER-FRIGO/ JOINT:

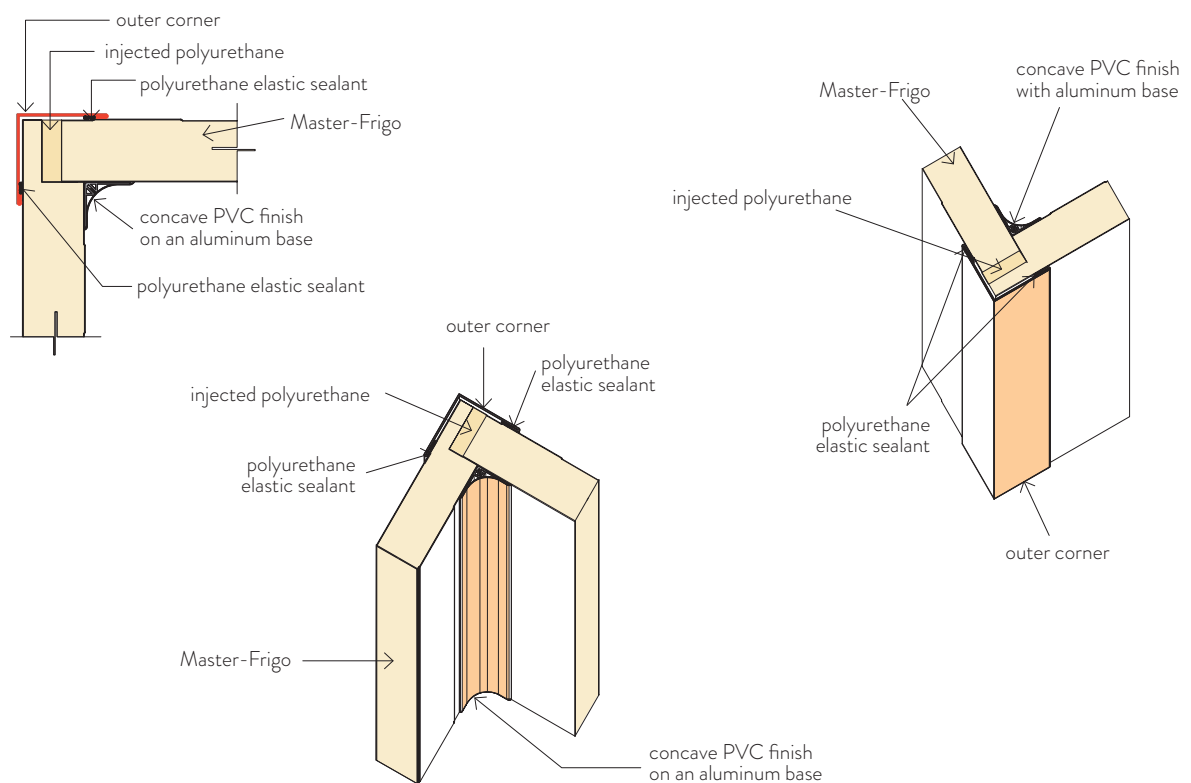


## Technical assistance:

### COLD ROOM CORNER JOINT (ROOM TEMPERATURE > 32 °F)

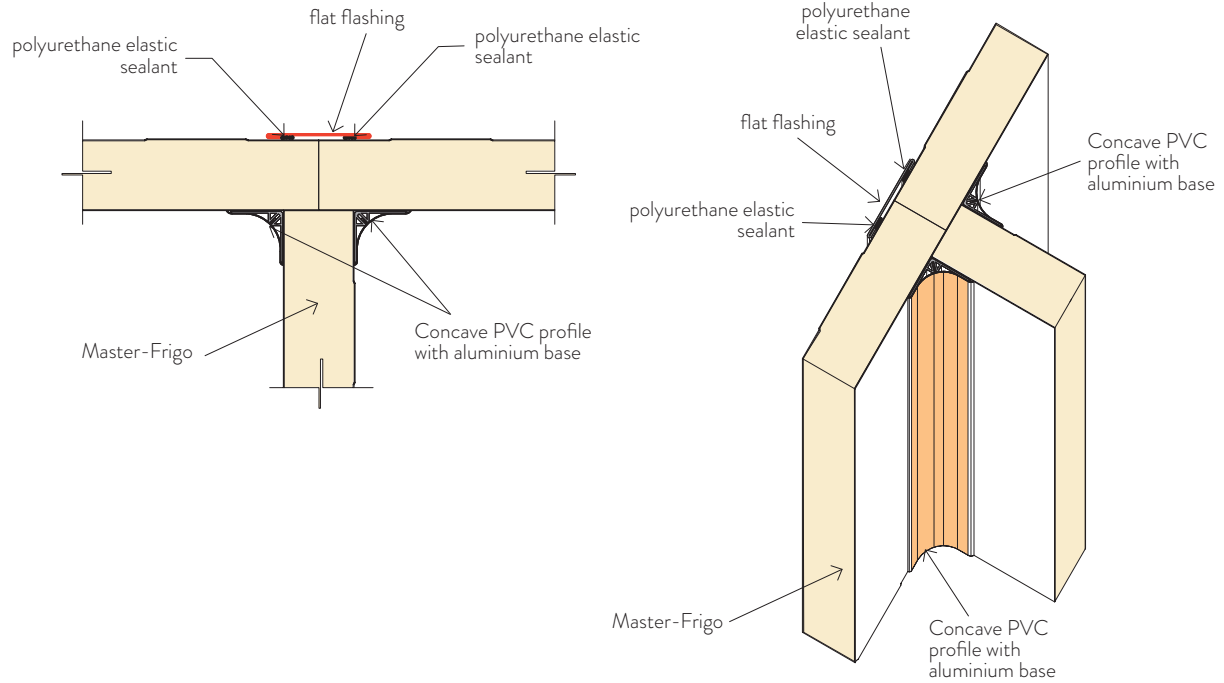


### COLD ROOM CORNER JOINT (ROOM TEMPERATURE < 32 °F)

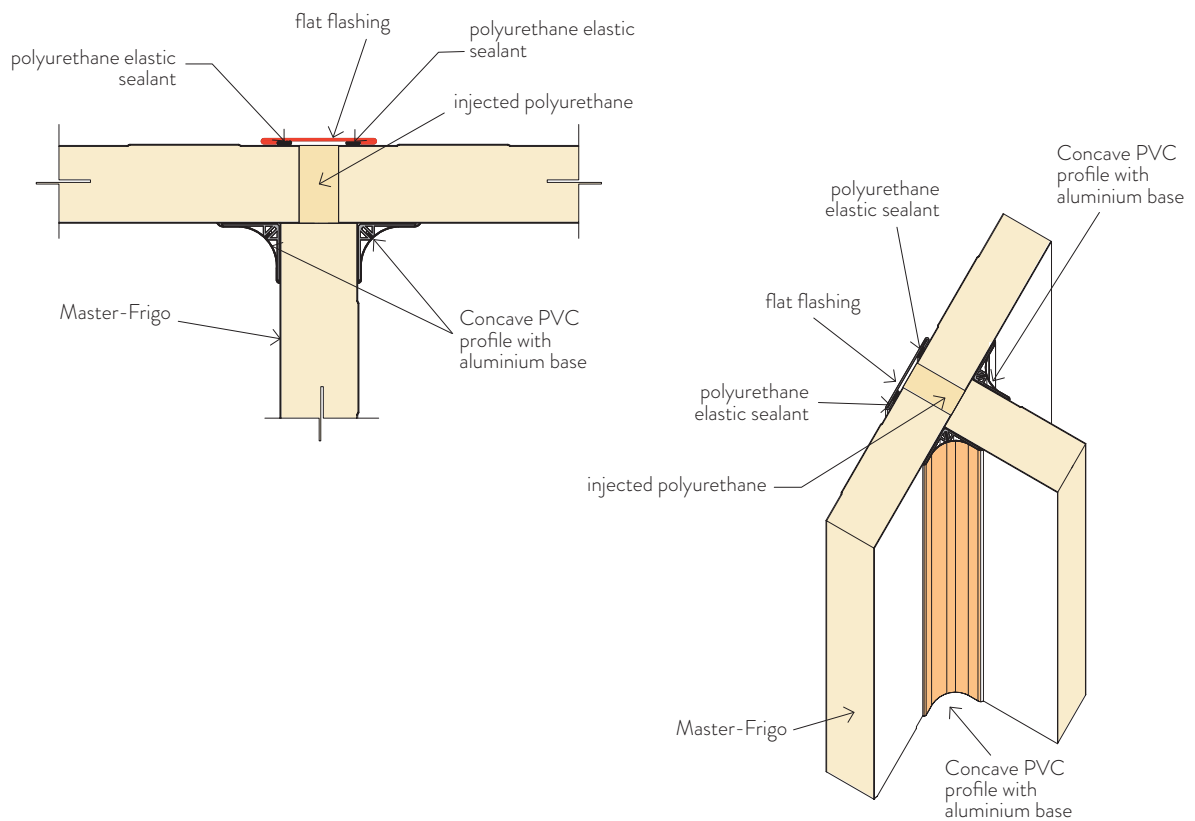




# DOUBLE CORNER COLD ROOM JOINT: (ROOM TEMPERATURE > 32 °F)

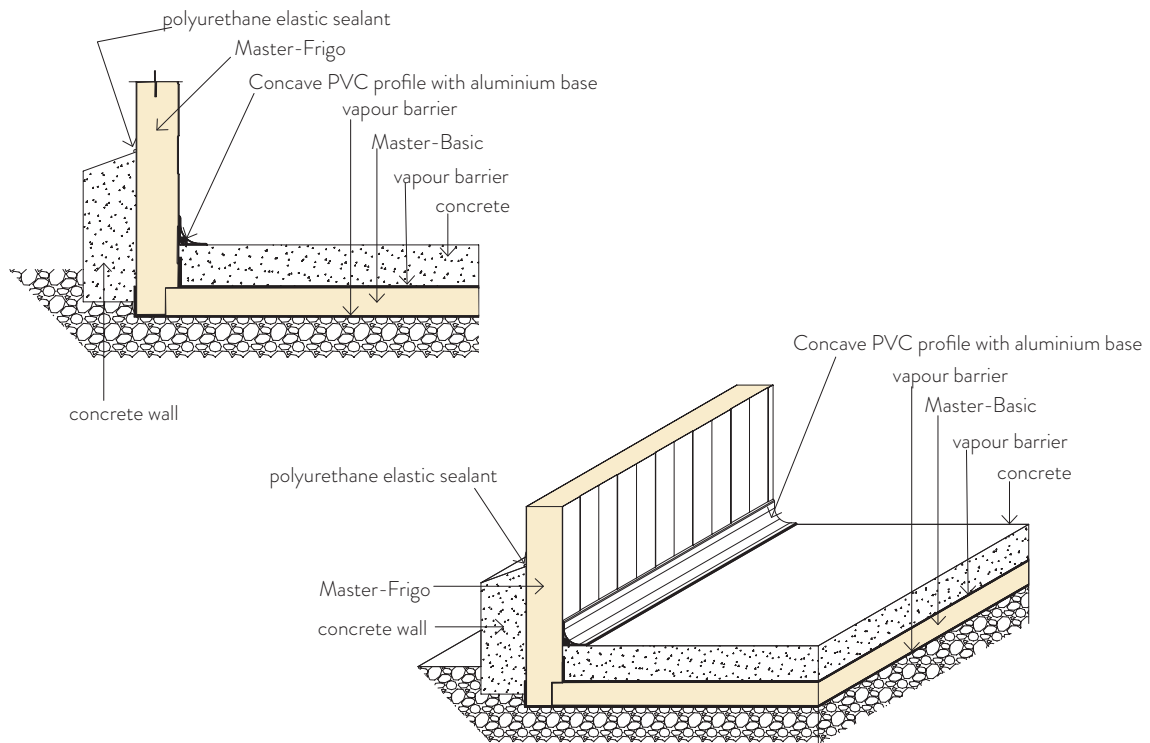


# DOUBLE CORNER COLD ROOM JOINT: (ROOM TEMPERATURE < 32 °F)

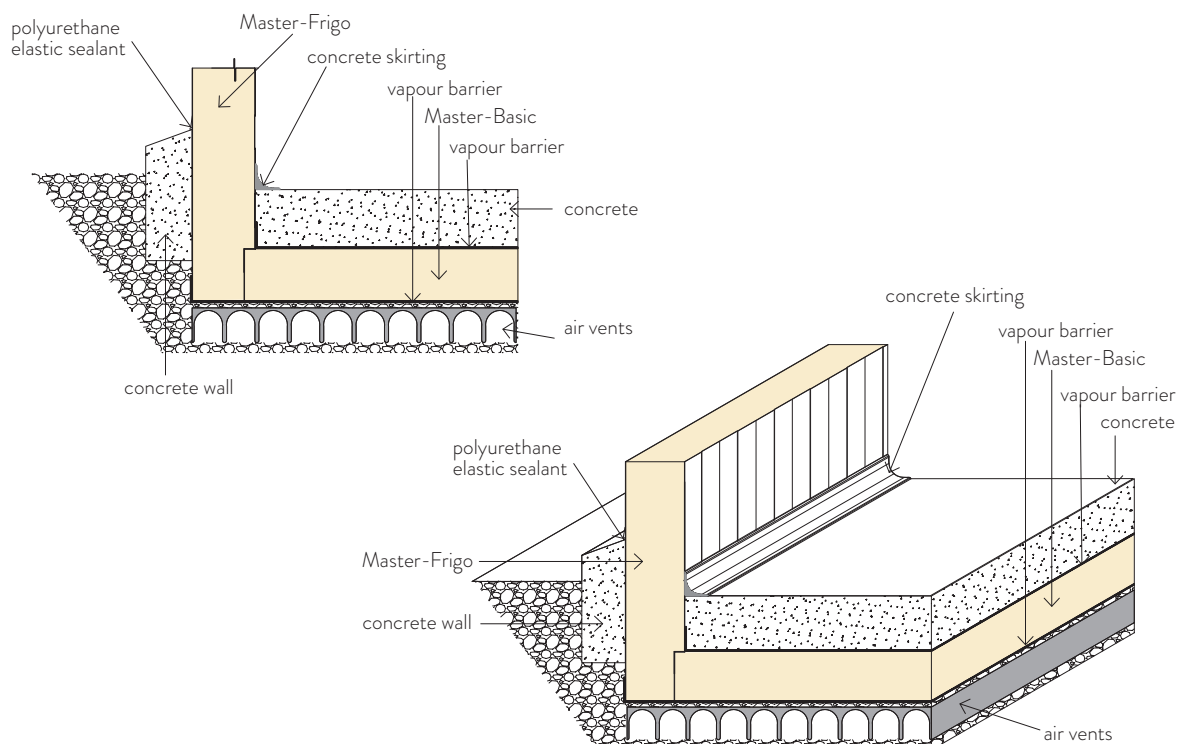


## Technical assistance:

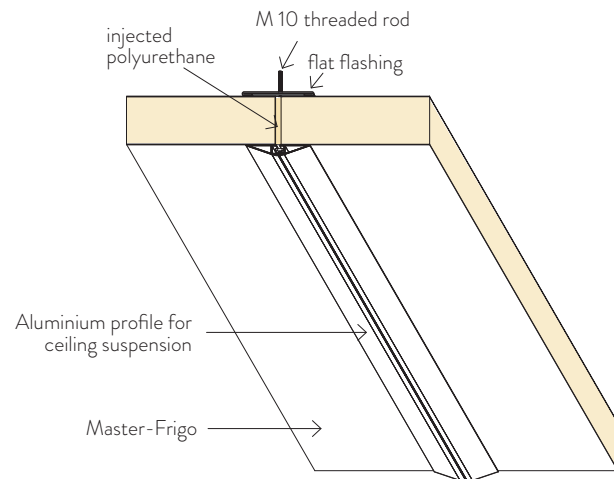
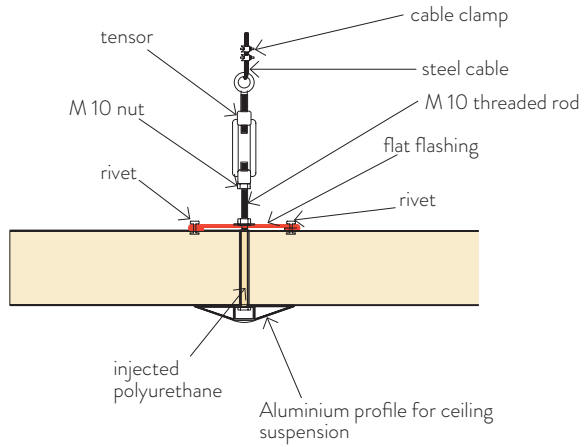
### COLD ROOM WALL-FLOOR JOINT: (ROOM TEMPERATURE > 32 °F)



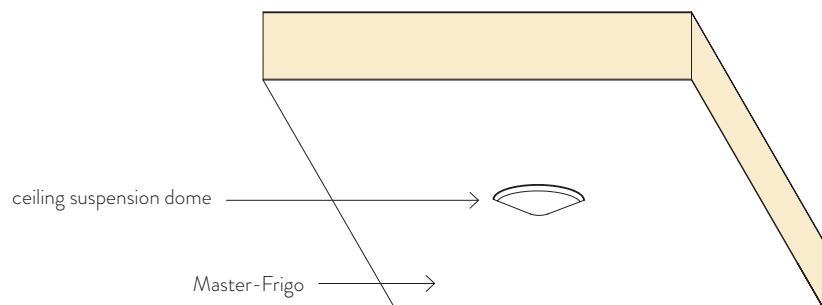
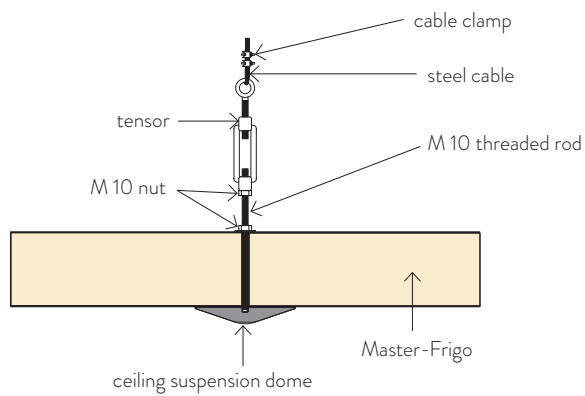
### COLD ROOM WALL-FLOOR JOINT: (ROOM TEMPERATURE < 32 °F)



## COLD-ROOM CEILING LONGITUDINAL SUSPENSION:

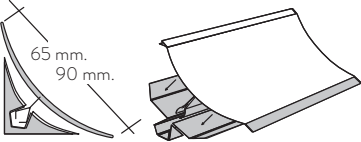
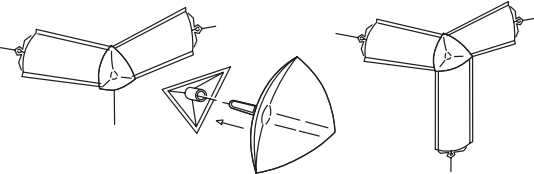
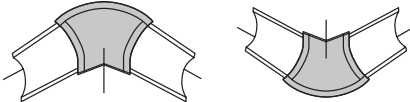
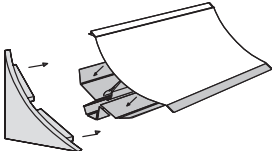
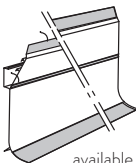
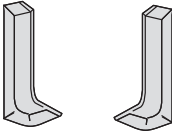
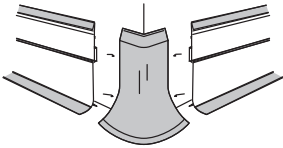
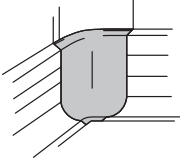
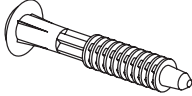
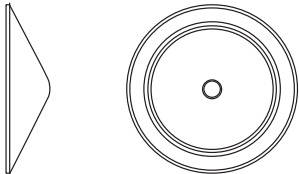
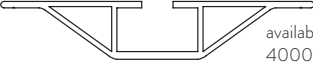


## COLD ROOM CEILING POINT SUSPENSION:

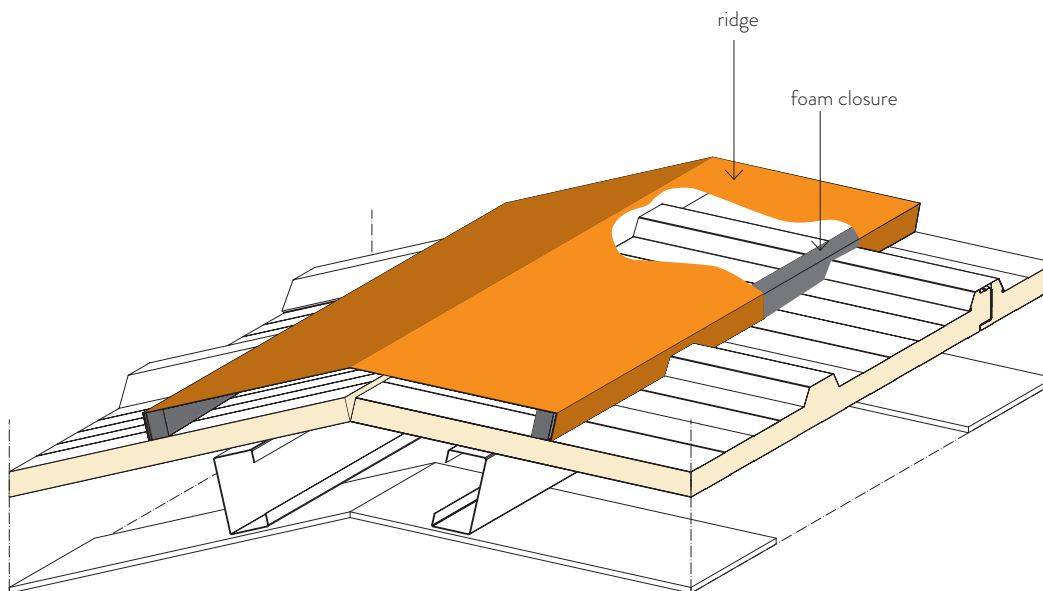


# Fitting accessories:

## COLD ROOM ACCESSORIES:

|  |  |  |
|--|--|--|
| <p><b>Application:</b></p> <p>Interior finishes for ceilings and walls for projects where a fungus- and bacteria-free hygienic environment is required or specified.</p> <p><b>General specifications:</b></p> <p>Non-toxic</p> <p>High standards of hygiene-</p> <p>Non-porous</p> <p>Highly elastic</p> <p>Unaffected by fats, excretions or blood</p> <p>Recyclable material</p> <p>Resistant to chemical products, even alkalines</p> <p>Good behavior at low temperature.</p> <p>Easy installation</p> <p>No drying time</p> <p>No need for painting</p> <p>Pressure washable</p> <p>Waterproof</p> <p>Easy cleaning</p> <p>Non-stick surface</p> <p>Impact resistant</p> <p>Non corrosive</p> <p>Light</p> |  <p>Concave profile 90mm (3 9/16").<br/>Concave profile 65mm (2 9/16").<br/>Aluminum base<br/>Narrow aluminum base<br/>PVC base</p> <p>available in 3,000 mm (118") lengths</p> |  |
|  |  <p>3-way PVC corner<br/>2-way PVC corner</p>  |  |
|  |  <p>Corner angle joint</p>  |  |
|  |  <p>End cover</p>  |  |
|  |  <p>PVC skirting</p> <p>available in 3,000 mm (118") lengths</p>  |  |
|  |  <p>Skirting terminal<br/>(Right and left)</p>  |  |
|  |  <p>PVC Skirting corner-piece</p>   |  |
|  |  <p>PVC skirting corner-piece</p>   |  |
|  |  <p>Plastic plug</p>  |  |
|  |  <p>Ceiling suspension dome</p>   |  |
|  |  <p>Aluminium profile for ceiling suspension<br/>(price includes one M10 nut per 3 feet)</p> <p>available in pieces of 4000 mm (157 1/2") in length</p>                       |  |

## FOAM CLOSURE FOR 3G PROFILES



| PROPERTIES  | CHARACTERISTICS                   | STANDARD     |
|---|-----------------------------------|--------------|
| <b>Material</b>   | <b>cross-linked polythene</b>     |              |
| Apparent density  | 30+ -3kg/m <sup>3</sup>           | ISO 845      |
| Ultimate elongation                                     | 76 min. %                         | ISO 1926     |
| Tensile strength  | 127 min. Kpa                      | ISO 1926     |
| Yield strength 10%                                      | 25+ -6 Kpa                        | ISO 844      |
| Yield strength 25%                                      | 41+ -6 Kpa                        | ISO 844      |
| Yield strength 50%                                      | 98+ -8 Kpa                        | ISO 844      |
| Permanent compression<br>25% 22 h., 23 °C at 1/2 hour   | 17 max. %                         | ISO 1856-B   |
| Permanent compression<br>25% 22 h. 23 °C a las 24 horas | 8 max. %                          | ISO 1856-B   |
| Water absorption at 28 days                             | 1 max. %                          | DIN 53428    |
| Hardness  | 38 min. Shore <sup>oo</sup>       |              |
| Operating temperature                                   | -80 a 100 °C                      | INTERNAL     |
| Cell size   | 0,3 mm máx.                       | INTERNAL     |
| Reaction to Fire  | 100 máx. mm./min>10 mm.           | FMVSS Nr 302 |
| <b>Material</b>   | <b>Double-sided adhesive mesh</b> | <b>-----</b> |
| Support   | Multidirectional polyester mesh   | -----        |
| Grams of adhesive                                       | 80 grams /m <sup>2</sup>          | -----        |
| Adhesive strength Afera 4001                            | N/25 mm. 16 +- 1%                 | -----        |
| Temperature resistance                                  | -20 a 100 °C                      | -----        |



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