DISCLAIMER:

These details are based on industry accepted practices and provide a guideline for proper insulated metal panel and component installation.

The location of vapor barriers and associated sealants shown in these details is based on standard design practices for commercial industrial applications for most U.S. and Canadian climatic zones. The default vapor barrier location is on the warm side in winter (the interior side of the panels).

For projects located in extremely cold climates, exposed to high wind-driven rain or unusual interior conditions (sustained temperatures below 65°f), it may be advisable to modify the vapor barrier (joint sealant) location, or to add optional exterior joint sealants.

It is the sole responsibility of the project architect to verify vapor barrier location, insulation required by code and HVAC equipment/ventilation requirements to allow proper air flow and the prevention of condensation.

It is also the sole responsibility of the project architect to determine project–specific design loads. Metl-Span Technical Services is available to verify allowable panel spans and fastening requirements when provided with this information.

The details contained herein show side joint fastening only. Please contact Metl-Span technical services for project–specific fastening requirements.

All structural supports are shown for clarity only, and are not provided by Metl-Span.
Butyl caulk: For commercial/industrial projects the caulk is usually applied to the interior joint female pocket (see DISCLAIMER). Butyl caulk is also used to create "marriage beads" which tie the panel sidejoint vapor seals to panel endjoint vapor seals. Butyl caulk is considered "non-skinning", which means it stays soft, flexible, and does not harden. **Butyl caulk is for unexposed areas only, and cannot be used where it will be exposed to weather or sunlight**

Butyl sealant tape: Applied between flashings and panels to form a weathertight seal. All fasteners penetrating the flashing must be inserted through the sealant tape.

Urethane caulk: Used in lieu of butyl sealant where there is exposure to the elements. It is recommended for lapped trims, exposed perimeter seals at framed openings or to seal between different construction materials, such as metal to concrete.

Panel fasteners: Insulated metal panel fasteners are generally either self-drilling/self-tapping (also known as TEK screws), or self-tapping (also known as B point screws).

TEK Fasteners contain a built-in drill point, and do not require pre-drilling. They are the quickest and easiest way to attach panels to light-medium gauge supports.

B Point fasteners require a two-step operation: First holes are pre-drilled into the panel and structural support with an appropriate sized bit, then the fastener is inserted into the hole and tightened. B points are typically used to attach panels to medium-heavy gauge supports that are not penetrable by TEK fasteners. It is important that the pre-drilled holes are sized correctly for the fasteners to achieve proper pullout values.

Bulb-Tite® Rivets: Are similar to expansion fasteners, and are used where back fastening of the panels to structural supports is required. Holes must be pre-drilled with a 5/16" diameter. The grip range of the rivets must be matched to the thickness of the structural support to ensure proper fastening.
CI-CF-INFO-1  C & I DISCLAIMER
CI-CF-INFO-2  SEALANTS & FASTENERS
CI-CF-JT-01  PANEL PROFILES
CI-CF-JT-02  PANEL PROFILES
CI-CF-JT-03  CF PANEL JOINT DETAILS
CI-CF-FSTN-01A  ATTACHMENT-SIDEJOINT-PRE-ENGINEERED SUPPORT
CI-CF-FSTN-01B  ATTACHMENT-SIDEJOINT-STRUCTURAL STEEL SUPPORT
CI-CF-FSTN-01C  ATTACHMENT-BACK FASTENED W/GIRT CLIPS
CI-CF-FSTN-01D  ATTACHMENT-BACK FASTENED W/RIVETS
CI-CF-BE-06  BASE-OVERHANG W/DRIP TRIM
CI-CF-BE-06-A  BASE-OVERHANG W/DRIP TRIM
CI-CF-BE-07  BASE-OVERHANG W/EDGE TRIM
CI-CF-BE-07-A  BASE-OVERHANG W/EDGE TRIM
CI-CF-BE-08  BASE-OVERHANG W/BASE SUPPORT
CI-CF-BE-08-A  BASE-OVERHANG W/BASE SUPPORT
CI-CF-EB-02  BASE-OVERHANG W/EXTRUSION
CI-CF-EB-02-A  BASE-OVERHANG W/EXTRUSION
CI-CF-BE-02  BASE-OVERHANG W/NOTCHED SLAB
CI-CF-BE-02-A  BASE-OVERHANG W/NOTCHED SLAB
CI-CF-BE-04  BASE-OVERHANG W/NOTCHED SLAB-ALT.
CI-CF-BE-04-A  BASE-OVERHANG W/NOTCHED SLAB-ALT.
CI-CF-EB-01  BASE-OVERHANG W/NOTCHED SLAB, EXTRUSION
CI-CF-EB-01-A  BASE-OVERHANG W/NOTCHED SLAB, EXTRUSION
CI-CF-CE-01  OUTSIDE CORNER W/FLUSH TRIM
CI-CF-CE-01-A  OUTSIDE CORNER W/FLUSH TRIM
CI-CF-EC-01  OUTSIDE CORNER W/TWO PIECE EXTRUSION
CI-CF-EC-01-A  OUTSIDE CORNER W/TWO PIECE EXTRUSION
CI-CF-EC-03  INSIDE CORNER W/FLUSH TRIM
CI-CF-EC-03-A  INSIDE CORNER W/FLUSH TRIM
CI-CF-EC-02  INSIDE CORNER W/TWO PIECE EXTRUSION
CI-CF-EC-02-A  INSIDE CORNER W/TWO PIECE EXTRUSION
CI-CF-HD-01  HEAD W/TWO PIECE TRIM
CI-CF-HD-01-A  HEAD W/TWO PIECE TRIM
CI-CF-EH-01  HEAD W/TWO PIECE EXTRUSION
CI-CF-EH-01-A  HEAD W/TWO PIECE EXTRUSION
CI-CF-JB-01  JAMB W/TWO PIECE TRIM
CI-CF-JB-01-A  JAMB W/TWO PIECE TRIM
CI-CF-JB-02  JAMB W/DEEP TRIM
CI-CF-JB-02-A  JAMB W/DEEP TRIM
CI-CF-EJ-01  JAMB W/EXTRUSION
CI-CF-EJ-01-A  JAMB W/EXTRUSION
CI-CF-SL-01  SILL DETAIL W/FLAT TRIM
CI-CF-SL-01-A  SILL DETAIL W/FLAT TRIM
CI-CF-ES-01  SILL DETAIL W/EXTRUSION
CI-CF-ES-01-A  SILL DETAIL W/EXTRUSION
CI-CF-HD-02  O.H. DOOR HEAD W/TWO PIECE TRIM
CI-CF-HD-02-A  O.H. DOOR HEAD W/TWO PIECE TRIM
CI-CF-EH-02  O.H. DOOR HEAD W/TWO PIECE EXTRUSION
CI-CF-EH-02-A  O.H. DOOR HEAD W/TWO PIECE EXTRUSION
CI-CF-DJ-01  O.H. DOOR JAMB W/TWO PIECE TRIM
CI-CF-DJ-01-A  O.H. DOOR JAMB W/TWO PIECE TRIM
CI-CF-ED-01  O.H. DOOR JAMB W/EXTRUSION
CI-CF-ED-01-A  O.H. DOOR JAMB W/EXTRUSION
CI-CF-T-01  TRIM LAPS AT FRAMED OPENING
CI-CF-E-01  EXTRUSION AT FRAMED OPENING
CI-CF-SJ-01  STACK JOINT W/TRIM
CI-CF-SJ-01-A  STACK JOINT W/TRIM
CI-CF-ESJ-01  STACK JOINT W/EXTRUSION
CI-CF-ESJ-01-A  STACK JOINT W/EXTRUSION
CI-CF-VE-01  EAVE DETAIL–CONVENTIONAL ROOF
CI-CF-VE-01-A  EAVE DETAIL–CONVENTIONAL ROOF
CI-CF-TP-01  PARAPET (SUPPORTED) W/TRIM
CI-CF-TP-01-A  PARAPET (SUPPORTED) W/TRIM
CI-CF-EP-02  PARAPET (SUPPORTED) W/EXTRUSION
CI-CF-EP-02-A  PARAPET (SUPPORTED) W/EXTRUSION
CI-CF-EL-B  TRIM END LAP–BASE
CI-CF-EL-C  TRIM END LAP–CORNER
CI-CF-EL-H  TRIM END LAP–TWO PIECE HEAD
CI-CF-EL-J  TRIM END LAP–TWO PIECE JAMB
CI-CF-EL-S  TRIM END LAP–SILL
CI-CF-EL-SJ  TRIM END LAP–STACK JOINT
CI-CF-2-EXT  2" EXTRUSIONS
CI-CF-2.5 EXT  2.5" EXTRUSIONS
CI-CF-3-EXT  3" EXTRUSIONS
CI-CF-4-EXT  4" EXTRUSIONS
CI-CF-FP 1–2  FASTENING PATTERNS 1–2
CI-CF-FP 3–4  FASTENING PATTERNS 3–4
CI-CF-FP 5–6  FASTENING PATTERNS 5–6
CI-CF-FP 7–8  FASTENING PATTERNS 7–8
CI-CF-FP 9–10  FASTENING PATTERNS 9–10
CI-CF-PEN-1  PIPE PENETRATION – FIELD OF PANEL
CI-CF-PEN-2  PIPE PENETRATION – NOTCHED PANEL
CI-CF-PEN-3  PIPE PENETRATION – AT PANEL JOINT
CI-CF-PEN-4  PIPE PENETRATION – WEATHER SEALS AT JOINT
CI-CF-PEN-5  PIPE PENETRATION – FLASHING
CI-CF-PEN-6  BEAM PENETRATION
CI-CF-PEN-7  BEAM PENETRATION – FLASHING
CF-42, CF-36
FLUTE/MESA

CF-42, CF-36, CF30
MESA/MESA

CF-36A, CF-30A
ARCHITECTURAL FLAT/MESA

CF-36, CF-42
SANTA FE

CF-42, CF-36, CF-30
STRIATED/MESA
CF-36, CF-42

TUFF-CAST, TUFF-WALL

36" 7.2 INSUL-rib

36" LS 36

CF-36, CF-42
TUFF-CAST, TUFF-WALL
14 GA. PANEL CLIP W/ 1/4" HWH FASTENERS @ EACH WALL SUPPORT

CLIP AND FASTENER ASSEMBLY

WALL SUPPORT
INTERIOR
EXTERIOR

JOINT SEALANT APPLICATION

INTERIOR
WALL SUPPORT
EXTERIOR

OPTIONAL
JOINT SEALANT
SEE DETAIL "A"

NON-SKINNING BUTYL SEALANT
1/4" UNIFORM BEAD MIN. @ LOCATION SPECIFIED

DETAIL A

OPTIONAL
JOINT SEALANT

1/8" MAX @ JOINT

COMMERCIAL & INDUSTRIAL
CF PANEL JOINT DETAILS

CI-CF-JT-03
DATE: Jul '19
14 GA. CLIP

1/4" HWH FASTENERS

WALL SUPPORT

WALL SUPPORT

INTERIOR SURFACE

EXTerior SURFACE

PANEL CLIP @ EACH WALL SUPPORT

COMMERCIAL & INDUSTRIAL

ATTACHMENT – SIDEJOINT – PRE-ENGINEERED SUPPORT

CI-CF-FSTN-01A

DATE: Jul '19
* INSTALL THROUGH GIRT CLIPS INTO MESA WHERE THE SKIN MAKES CONTACT WITH THE STEEL

1/4" HWH FASTENERS

INTERIOR SIDE

BULB-TITE® RIVETS

GIRT CLIP

ATTACHMENT – BACK FASTENED W/ GIRT CLIPS

COMMERCIAL & INDUSTRIAL

DATE: Jul '19
DOME HEAD BULB-TITE® RIVETS

* INSTALL THROUGH GIRT FLANGE INTO MESA WHERE THE SKIN MAKES CONTACT WITH STEEL

INTERIOR SIDE

14 GA. CLIP

1/4" HWH FASTENERS

BULB-TITE® RIVET

WALL SUPPORT

14 GA. CLIP W/FASTENERS

ATTACHMENT – BACK FASTENED W/ RIVETS

COMMERCIAL & INDUSTRIAL

DATE: Jul '19

CI-CF-FSTN-01D
REFERENCES AND TABLES:

- **Continuous Base Attachment (Not By Panel Manufacturer)**
  - Butyl Sealant [7100BWH]
  - Conc. Fasteners (Not By Panel Manufacturer)
  - Base Attachment Set In Continuous Bead of Urethane Sealant [HW540]
  - Continuous Butyl Sealant With Marriage Bead To Vertical Panel Joint Sealant [7100BWH]
  - Alternate Placement of Sealant

- **Base Flashing**
  - F5001
  - F5013
  - F5071
  - F5034
  - F5050

- **Type 3 Clip Fastener**
  - 1616PNC
  - 1624PNC
  - 1624PNC
  - 1624PNC
  - 1632PNC

- **Type 5 Clip Fastener**
  - 1724PNC
  - 1732PNC
  - 1732PNC
  - 1732PNC
  - 1740PNC

- **Type B Clip Fastener**
  - 1816PNC
  - 1824PNC
  - 1824PNC
  - 1824PNC
  - 1832PNC

**Commecial & Industrial Base - Overhang W/ Drip Trim**

DATE: Jul '19

REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS.

CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.
REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS.

CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

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COMMERICAL & INDUSTRIAL

BASE - OVERHANG W/ EDGE TRIM

CI-CF-BE-07-A

DATE: Jul '19
REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS. CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

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COMMERCIAL & INDUSTRIAL BASE – OVERHANG W/ BASE SUPPORT CI-CF-BE-08-A

DATE: Jul '19
REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS.

CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

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1/8" RIVETS @ 12" O.C.

BASE FLASHING

CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT [7100BWH]

BASE ATTACHMENT SET IN CONTINUOUS BEAD OF URETHANE SEALANT [HW540]

CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT [7100BWH]

BUTYL SEALANT [7100BWH]

URETHANE SEALANT [HW540]

ALTERNATE PLACEMENT OF SEALANT

REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS. CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

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COMMERCIAL & INDUSTRIAL BASE – OVERHANG W/ NOTCHED SLAB CI-CF-BE-02-A

DATE: Jul '19
REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS. CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.
Refer to Sheet "CI-CF-INFO" for additional information regarding the application of sealants, fasteners, and closure materials.

Consult METL-SPAN to determine allowable load and spacing of attachment fasteners.

<table>
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CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

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COMMERCIAL & INDUSTRIAL

OUTSIDE CORNER W/ TWO PIECE EXTRUSION

CI-CF-EC-01-A

DATE: Jul '19
REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS. CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

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CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

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2.5" 3" 4"

COMMERCIAL & INDUSTRIAL

W/ TWO PIECE EXTRUSION

DATE: Jul '19
REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS. CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

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COMMERCIAL & INDUSTRIAL

HEAD W/ TWO PIECE TRIM

DATE: Jul '19
Refer to sheet "CI-CF-INFO" for additional information regarding the application of sealants, fasteners, and closure materials. Consult Metl-Span to determine allowable load and spacing of attachment fasteners.

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Commercial & Industrial

Head w/ Two Piece Extrusion
REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS. CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

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COMMERCIAL & INDUSTRIAL JAMB W/ TWO PIECE TRIM

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DATE: Jul '19
REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS. CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

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**Refer to Sheet "CI-CF-INFO" for additional information regarding the application of sealants, fasteners, and closure materials. Consult Metl-Span to determine allowable load and spacing of attachment fasteners.**

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Commercial & Industrial

Jamb W/ Extrusion

CI-CF-EJ-01-A

DATE: Jul '19
#12 PANCAKE STITCH SCREW @ 12" O.C. (NOT BY PANEL MANUFACTURER)

PERIMETER SEALANT (NOT BY PANEL MANUFACTURER)

1/8" RIVETS @ 8" O.C. [14]

FLASHING SEALANT TAPE [7405BWH]

FLUTE PLUG STRIP (1) PER PANEL (IF REQUIRED) SET IN URETHANE SEALANT [7607UGR]

CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT [7100BWH]

1/4" HWH CLIP FASTENERS [SEE CHART]

14 GA. PANEL CLIP [4633GNC]

SILL TRIM [SEE CHART]

REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS.

CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

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COMMERCIAL & INDUSTRIAL

SILL DETAIL W/ FLAT TRIM

DATE: Jul '19
#12 PANCAKE STITCH SCREW @ 12" O.C. (NOT BY PANEL MANUFACTURER)
WIPER GASKET [7800VGR]
BUTYL SEALANT [7100BWH]
14 GA. PANEL CLIP [4633GNC]
SUPPORT
CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT [7100BWH]
1/4" HWH CLIP FASTENERS [SEE CHART]
14 GA. PANEL CLIP [4633GNC]
SILL DETAIL W/ EXTRUSION

REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS. CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

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COMMERCIAL & INDUSTRIAL
**Refer to Sheet "CI-CF-INFO" for additional information regarding the application of sealants, fasteners, and closure materials. Consult Metl-Span to determine allowable load and spacing of attachment fasteners.**

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COMMERCIAL & INDUSTRIAL  O.H. DOOR HEAD W/ TWO PIECE TRIM  CI-CF-HD-02-A

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DATE: Jul '19
<table>
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<th>TYPE 3 CLIP FASTENER</th>
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REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS.

CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

COMMERCIAL & INDUSTRIAL

O.H. DOOR HEAD W/ TWO PIECE EXTRUSION

CI-CF-EH-02-A

DATE: Jul '19
REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS. CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

<table>
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O.H. DOOR JAMB W/ TWO PIECE TRIM

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BUTYL SEALANT
[7100BWH]

1/4" THRU FASTENER
(NOT TO EXCEED 5'-0" O.C.)
[SEE CHART]

#12 PANCAKE STITCH
SCREW @ ENDS
[12A]

BUTYL SEALANT
[7100BWH]

BUTYL SEALANT
[7100BWH]

URETHANE SEALANT
[HW540]

FEMALE JAMB EXTRUSION
[SEE CHART]

WIPER GASKET
[7800VGR]

BUTYL SEALANT
[7100BWH]

SUPPORT

JAMB WRAP TRIM
(OPTIONAL)

MALE JAMB EXTRUSION
[9415A]

FEMALE JAMB EXTRUSION
[9420A]

9421A

9422A

9423A

TYPE 3 THRU
FASTENER
1424PNC
1432PNC
1432PNC
1440PNC

TEK 5 THRU
FASTENER
1732PNC
1740PNC
1740PNC
1748PNC

TYPE B THRU
FASTENER
1824PNC
1832PNC
1832PNC
1832PNC

T
2"
2.5"
3"
4"

FEMALE
JAMB EXTRUSION
9420A
9421A
9422A
9423A

COMMERCIAL &
INDUSTRIAL

O.H. DOOR JAMB
W/ EXTRUSION

CI–CF–ED–01–A

DATE: Jul '19

REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE
APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS.
CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.
TRIM INSTALLATION SEQUENCE:

1. INTERIOR JAMB TRIMS
2. INTERIOR HEAD TRIM WITH TABS BENT DOWN (NOTCHED)
3. SILL TRIM WITH TABS BENT UP (NOTCHED)
4. EXTERIOR JAMB TRIMS
5. EXTERIOR HEAD TRIM

URETHANE END DAM

URETHANE SEALANT

BUTYL SEALANT

FIELD CUT/NOTCH CAP TRIM AT CORNERS TO ALLOW FOR LAP

EXPOSED SEALANT (NOT BY PANEL MANUFACTURER)
EXTRUSION INSTALLATION SEQUENCE:

1. INTERIOR JAMB EXTRUSIONS
2. INTERIOR HEAD EXTRUSION (NOTCHED)
3. SILL EXTRUSION (NOTCHED)
4. EXTERIOR HEAD EXTRUSION (NOTCHED)
5. EXTERIOR JAMB EXTRUSIONS

URETHANE END DAM

3/8" WEEP HOLES

BUTYL SEALANT

EXPOSED SEALANT (NOT BY PANEL MANUFACTURER)
REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS. CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

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COMMERCIAL & INDUSTRIAL STACK JOINT W/ TRIM

CI-CF-SJ-01-A

DATE: Jul '19
REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS. CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

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COMMERCIAL & INDUSTRIAL
STACK JOINT W/ EXTRUSION

DATE: Jul '19
**NOTE:**
THIS DETAIL IS FOR INFORMATIONAL PURPOSES ONLY. ALL ROOF COMPONENTS, PERIMETER FLASHING AND SEALANTS ARE NOT BY PANEL MANUFACTURER

FLASHING SEALANT TAPE
[7405BWH]

FLUTE PLUG STRIP
(1) PER PANEL
(IF REQUIRED)
SET IN URETHANE SEALANT
[7607UGR]

1/4" HWH CLIP FASTENERS
[SEE CHART]

14 GA. PANEL CLIP
[4633GNC]

INTERIOR AIR/VAPOR SEAL
(NOT BY PANEL MANUFACTURER)

CONTINUOUS BUTYL SEALANT
WITH MARRIAGE BEAD TO
VERTICAL PANEL JOINT SEALANT
[7100BWH]

SUPPORT

REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS. CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

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**COMMERCIAL & INDUSTRIAL**

**EAVE DETAIL – CONVENTIONAL ROOF**

DATE: Jul '19
Refer to sheet "CI-CF-INFO" for additional information regarding the application of sealants, fasteners, and closure materials. Consult Metl-Span to determine allowable load and spacing of attachment fasteners.

<table>
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Commercial & Industrial Parapet (Supported) W/ Trim

CI-CF-TP-01-A

Date: Jul '19
PARAPET EXTRUSION
(NOT BY PANEL MANUFACTURER)

CONTINUOUS BUTYL SEALANT
WITH MARRIAGE BEAD TO
VERTICAL PANEL JOINT SEALANT
[7100BWH]

PARAPET BLOCKING
(NOT BY PANEL MANUFACTURER)

1/4" HWH CLIP FASTENERS
[SEE CHART]

14 GA. PANEL CLIP
[4633GNC]

FASTENER
(NOT BY PANEL MANUFACTURER)

SUPPORT

ROOF MEMBRANE &
PARAPET CAP
(NOT BY PANEL MANUFACTURER)

REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE
APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS.
CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

<table>
<thead>
<tr>
<th>T</th>
<th>TYPE 3 CLIP FASTENER</th>
<th>TYPE 5 CLIP FASTENER</th>
<th>TYPE B CLIP FASTENER</th>
</tr>
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<tbody>
<tr>
<td>2&quot;</td>
<td>1616PNC</td>
<td>1724PNC</td>
<td>1816PNC</td>
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<tr>
<td>2.5&quot;</td>
<td>1624PNC</td>
<td>1732PNC</td>
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<td>2.75&quot;</td>
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<td>4&quot;</td>
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</tbody>
</table>

COMMERCIAL & INDUSTRIAL

PARAPET (SUPPORTED)
W/ EXTRUSION

DATE: Jul '19

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(2) BEADS URETHANE SEALANT

FIELD NOTCH HEM(S)
AS REQUIRED

2" TRIM LAP

NOTE: POP RIVET OR STITCH SCREW AS NECESSARY
FIELD NOTCH HEM(S) AS REQUIRED

(2) BEADS URETHANE SEALANT

NOTE: POP RIVET OR STITCH SCREW AS NECESSARY
(2) BEADS
URETHANE SEALANT

FIELD NOTCH HEM(S)
AS REQUIRED

2" TRIM LAP

NOTE: POP RIVET OR STITCH
SCREW AS NECESSARY

COMMERCIAL &
INDUSTRIAL

TRIM END LAP –
TWO PIECE HEAD

CI–CF–EL–H
DATE: Jul '19
NOTE: POP RIVET OR STITCH SCREW AS NECESSARY

FIELD NOTCH HEM(S) AS REQUIRED

(2) BEADS URETHANE SEALANT

TRIM LAP

TRIM LAP

COMMERCIAL & INDUSTRIAL

TRIM END LAP – TWO PIECE JAMB

CI–CF–EL–J

DATE: Jul '19
(2) BEADS URETHANE SEALANT

FIELD NOTCH HEM(S) AS REQUIRED

NOTE: POP RIVET OR STITCH SCREW AS NECESSARY

COMMERCIAL & INDUSTRIAL

TRIM END LAP – SILL

CI-CF-EL-S
DATE: Jul '19
(2) BEADS URETHANE SEALANT

2" TRIM LAP

FIELD NOTCH HEM(S) AS REQUIRED

NOTE: POP RIVET OR STITCH SCREW AS NECESSARY
2.5" HEAD/JAMB EXTRUSION
INTERIOR (FEMALE)
[9421A]

HEAD/JAMB EXTRUSION
EXTERIOR (MALE)
[9415A]

WIPER GASKET
[7800VGR]

EXTRUDED ALUMINUM SPLICE BAR
[9495A]

2.5" OUTSIDE CORNER
INTERIOR (FEMALE)
[9437ANC]

OUTSIDE CORNER
EXTERIOR (MALE)
[9429ANC]

2.5" BASE EXTRUSION
[9406A]

2.5" STACK JOINT EXTRUSION
[9455A]
FASTENING PATTERN 1
SIDE JOINT FASTENING

DIMENSION IS FROM FEMALE EDGE +/- 1.5"

10.5"

FASTENING PATTERN 2
SIDE JOINT FASTENING
AND ONE DOME HEAD
BULB-TITE® RIVET

INSTALL RIVET THROUGH GIRT FLANGE INTO MESA WHERE THE SKIN MAKES CONTACT WITH THE STEEL

(CONSULT FACTORY FOR FASTENER REQUIREMENTS NEEDED TO MEET SPECIFIC LOAD REQUIREMENTS)
FASTENING PATTERN 4
SIDE JOINT FASTENING
WITH THREE DOME HEAD
BULB-TITE® RIVETS

INSTALL RIVET THROUGH GIRT FLANGE
INTO MESA WHERE THE SKIN MAKES
CONTACT WITH THE STEEL

CONSULT FACTORY FOR FASTENER REQUIREMENTS NEEDED TO MEET SPECIFIC LOAD REQUIREMENTS

COMMERICAL & INDUSTRIAL FASTENING PATTERNS CI–CF–FP 3–4 DATE: Jul '19
CONSULT FACTORY FOR FASTENER REQUIREMENTS NEEDED TO MEET SPECIFIC LOAD REQUIREMENTS

FASTENING PATTERN 6
SIDE JOINT FASTENING
AND ONE GIRT CLIP WITH TWO DOME HEAD BULB–TITE® RIVETS

INSTALL RIVET THROUGH GIRT FLANGE INTO MESA WHERE THE SKIN MAKES CONTACT WITH THE STEEL

DIMENSION IS FROM FEMALE EDGE +/- 1.5"

FASTENING PATTERN 5
SIDE JOINT FASTENING
AND BACK FASTENING WITH FOUR DOME HEAD BULB–TITE® RIVETS

INSTALL RIVET THROUGH GIRT FLANGE INTO MESA WHERE THE SKIN MAKES CONTACT WITH THE STEEL

DIMENSION IS FROM FEMALE EDGE +/- 1.5"

(CONSULT FACTORY FOR FASTENER REQUIREMENTS NEEDED TO MEET SPECIFIC LOAD REQUIREMENTS)
FASTENING PATTERN 8
SIDE JOINT FASTENING
WITH THREE GIRT CLIPS WITH SIX DOME HEAD
BULB–TITE® RIVETS
INSTALL RIVET THROUGH GIRT FLANGE
INTO MESA WHERE THE SKIN MAKES CONTACT WITH THE STEEL

CONSULT FACTORY FOR FASTENER REQUIREMENTS NEEDED TO MEET SPECIFIC LOAD REQUIREMENTS

(CONSULT FACTORY FOR FASTENER REQUIREMENTS NEEDED TO MEET SPECIFIC LOAD REQUIREMENTS)
FASTENING PATTERN 9
WITH FOUR SELF-TAPPING SCREWS WITH MIN. 20 GA.
NEOPRENE BONDED WASHER

FASTENING PATTERN 10
WITH FIVE SELF-TAPPING SCREWS WITH MIN. 20 GA.
NEOPRENE BONDED WASHER

(CONSULT FACTORY FOR FASTENER REQUIREMENTS NEEDED TO MEET SPECIFIC LOAD REQUIREMENTS)
NEW PENETRANT (INSTALL THROUGH CUTOUT)

PANEL CUTOUT
(1/2" MINIMUM CLEARANCE AROUND PENETRANT)

EXPANDABLE FOAM
(NOT BY PANEL MANUFACTURER)

WALL SUPPORT

NEW PENETRANT IN EXISTING WALL

SEE DETAIL CI-CF-PEN-5 FOR FLASHING INFORMATION
EXISTING PENETRANT
PANEL CUTOUT
(EXTEND AS A SLOT TO THE PANEL EDGE)
SLIDE PANEL TO FIT AROUND PENETRANT
NEXT WALL PANEL
EXISTING PENETRANT
WALL SUPPORT

EXISTING PENETRANT IN NEW WALL

EXPANDABLE FOAM
(NOT BY PANEL MANUFACTURER)

SEE DETAIL CI-CF-PEN-4 FOR SEALANT LOCATIONS
SEE DETAIL CI-CF-PEN-5 FOR FLASHING INFORMATION

COMMERCIAL & INDUSTRIAL
PIPE PENETRATION – NOTCHED PANEL
CI-CF-PEN-2
DATE: Jul '19
NEW PENETRATION IN EXISTING WALL AT PANEL JOINTS

SEE DETAIL CI–CF–PEN–4 FOR SEALANT LOCATIONS
EXTERIOR URETHANE JOINT SEALANT (TO TOP OF WALL)

COVER PLATE SEALANT LOCATION

PANEL CUTOUT

EXTERIOR WEATHER SEAL (NEW PENETRANT, EXISTING WALL)

BUTYL SEALANT

COVER PLATE SEALANT LOCATION

PANEL CUTOUT

SEAL JOINT CAVITY AT TOP & BOTTOM OF CUTOUT

BUTYL SEALANT

INTERIOR AIR/VAPOR SEAL (NEW PENETRANT, EXISTING WALL)
EXPOSED URETHANE SEALANT

3/8" (MIN) FILLET

PENETRATION PERIMETER SEAL

COVER PLATE ASSEMBLY

WALL PANEL

URETHANE SEALANT

PENETRANT

BOTTOM COVER PLATE

RIVET OR SCREW (TYP)

WALL PANEL

TOP COVER PLATE INSTALLATION

URETHANE SEALANT

BOTTOM COVER PLATE

RIVET OR SCREW (TYP)

WALL PANEL

BOTTOM COVER PLATE INSTALLATION

chure cover plate

URETHANE SEALANT

PENETRANT

RIVET OR SCREW (TYP)

WALL PANEL

WALL PANEL

EXPOSED URETHANE SEALANT

3/8" (MIN) FILLET

COVER PLATE ASSEMBLY

WALL PANEL

PENETRATION PERIMETER SEAL
FILLER INSULATION

PANEL CUTOUT (AT PANEL JOINT)

PANEL CUTOUT (AT CENTER OF PANEL)

FILLER INSULATION

EXPANDABLE FOAM (NOT BY PANEL MANUFACTURER)