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-CE-03  INSIDE CORNER W/FLUSH TRIM
CI-CF-CE-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
14 GA. PANEL CLIP W/ 1/4" HWH FASTENERS @ EACH WALL SUPPORT

CLIP AND FASTENER ASSEMBLY

WALL SUPPORT

INTERIOR

EXTERIOR

WALL SUPPORT

INTERIOR

EXTERIOR

JOINT SEALANT

OPTIONAL JOINT SEALANT

SEE DETAIL "A"

JOINT SEALANT APPLICATION

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

DETAIL A

INTERIOR

WALL SUPPORT

EXTERIOR

1/8" MAX @ JOINT

COMMERCIAL & INDUSTRIAL

CF PANEL JOINT DETAILS

CI-CF-JT-03

DATE: Jul '19
INTERIOR SURFACE

WALL SUPPORT

EXTERIOR SURFACE

14 GA. CLIP

1/4" HWH FASTENERS

WALL SUPPORT (14GA. MINIMUM)

PANEL CLIP @ EACH WALL SUPPORT

COMMERCIAL & INDUSTRIAL
ATTACHMENT – SIDEJOINT – PRE-ENGINEERED SUPPORT
CI-CF-FSTN-01A
DATE: Jul '19
14 GA. CLIP
W/FASTENERS

STRUCTURAL STEEL

INTERIOR SURFACE

EXTERIOR SURFACE

ATTACHMENT - SIDEJOINT - STRUCTURAL STEEL SUPPORT

COMMERCIAL & INDUSTRIAL

DATE: Jul '19

CI-CF-FSTN-01B

14 GA. CLIP W/FASTENERS

1/4" HWH FASTENERS
* INSTALL THROUGH GIRT CLIPS INTO MESA WHERE THE SKIN MAKES CONTACT WITH THE STEEL
* INSTALL THROUGH GIRT FLANGE INTO MESA WHERE THE SKIN MAKES CONTACT WITH STEEL

INTERIOR SIDE

DOME HEAD BULB-TITE® RIVETS

14 GA. CLIP W/ FASTENERS

1/4" HWH FASTENERS

BULB-TITE® RIVET

WALL SUPPORT

WALL SUPPORT

14 GA. CLIP W/ FASTENERS

BULB-TITE® RIVET

ATTACHMENT – BACK FASTENED W/ RIVETS

COMMERCIAL & INDUSTRIAL

CI-CF-FSTN-01D

DATE: Jul '19
**BASE ATTACHMENT SET IN CONTINUOUS BEAD OF URETHANE SEALANT**

**BUTYL SEALANT**

**CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT**

**URETHANE SEALANT**

**CONTINUOUS BUTYL SEALANT**

**BASE FLASHING**

**BASE TRIM**

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

**1/4" HWH CLIP FASTENERS**

**14 GA. PANEL CLIP**

### Table: Base Flashing, Type 3 Clip Fastener, Type 5 Clip Fastener, Type B Clip Fastener

<table>
<thead>
<tr>
<th>T</th>
<th>BASE FLASHING</th>
<th>TYPE 3 CLIP FASTENER</th>
<th>TYPE 5 CLIP FASTENER</th>
<th>TYPE B CLIP FASTENER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>F5001</td>
<td>1616PNC</td>
<td>1724PNC</td>
<td>1816PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>F5013</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>2.75&quot;</td>
<td>F5071</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>F5034</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>F5050</td>
<td>1632PNC</td>
<td>1740PNC</td>
<td>1832PNC</td>
</tr>
</tbody>
</table>

**COMMERCIAL & 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.

<table>
<thead>
<tr>
<th>T</th>
<th>BASE FLASHING</th>
<th>TYPE 3 CLIP FASTENER</th>
<th>TYPE 5 CLIP FASTENER</th>
<th>TYPE B CLIP FASTENER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>F5076</td>
<td>1616PNC</td>
<td>1724PNC</td>
<td>1816PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>F5077</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>2.75&quot;</td>
<td>F5078</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>F5079</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>F5080</td>
<td>1632PNC</td>
<td>1740PNC</td>
<td>1832PNC</td>
</tr>
</tbody>
</table>
CONTINUOUS BASE ATTACHMENT (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]

CONC. FASTENERS (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>BASE FLASHING</th>
<th>TYPE 3 CLIP FASTENER</th>
<th>TYPE 5 CLIP FASTENER</th>
<th>TYPE B CLIP FASTENER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>F5076</td>
<td>1616PNC</td>
<td>1724PNC</td>
<td>1816PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>F5077</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>2.75&quot;</td>
<td>F5078</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>F5079</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>F5080</td>
<td>1632PNC</td>
<td>1740PNC</td>
<td>1832PNC</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>T</th>
<th>BASE EXTRUSION</th>
<th>TYPE 3 CLIP FASTENER</th>
<th>TYPE 5 CLIP FASTENER</th>
<th>TYPE B CLIP FASTENER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>9405A</td>
<td>1616PNC</td>
<td>1724PNC</td>
<td>1816PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>9406A</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>9407A</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>9404A</td>
<td>1632PNC</td>
<td>1740PNC</td>
<td>1832PNC</td>
</tr>
</tbody>
</table>

COMMERCIAL & INDUSTRIAL

BASE – OVERHANG W/ EXTRUSION

CI-CF-EB-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>
<thead>
<tr>
<th>T</th>
<th>BASE FLASHING</th>
<th>TYPE 3 CLIP FASTENER</th>
<th>TYPE 5 CLIP FASTENER</th>
<th>TYPE B CLIP FASTENER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>F5001</td>
<td>1616PNC</td>
<td>1724PNC</td>
<td>1816PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>F5013</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>2.75&quot;</td>
<td>F5071</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>F5034</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>F5050</td>
<td>1632PNC</td>
<td>1740PNC</td>
<td>1832PNC</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>T</th>
<th>BASE FLASHING</th>
<th>TYPE 3 CLIP FASTENER</th>
<th>TYPE 5 CLIP FASTENER</th>
<th>TYPE B CLIP FASTENER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>F5002</td>
<td>1616PNC</td>
<td>1724PNC</td>
<td>1816PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>F5014</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>2.75&quot;</td>
<td>F5072</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>F5032</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>F5053</td>
<td>1632PNC</td>
<td>1740PNC</td>
<td>1832PNC</td>
</tr>
</tbody>
</table>

Commercial & Industrial Base - Overhang W/ Notched Slab - Alt.

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>
<thead>
<tr>
<th>T</th>
<th>BASE EXTRUSION</th>
<th>TYPE 3 CLIP FASTENER</th>
<th>TYPE 5 CLIP FASTENER</th>
<th>TYPE B CLIP FASTENER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>9405A</td>
<td>1616PNC</td>
<td>1724PNC</td>
<td>1816PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>9406A</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>9407A</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>9404A</td>
<td>1632PNC</td>
<td>1740PNC</td>
<td>1832PNC</td>
</tr>
</tbody>
</table>

COMMERCIAL & INDUSTRIAL BASE - OVERHANG W/ NOTCHED SLAB, EXTRUSION

CI-CF-EB-01-A DATE: Jul '19
SUPPORTS BUTYL SEALANT [7100BWH]
1/8" RIVETS @ SUPPORTS [14]
1/4" PANCAKE FASTENER @ EACH SUPPORT [SEE CHART]
CORNER TRIM [F5140]
1/8" RIVETS @ SUPPORTS [14]
BUTYL SEALANT [7100BWH]
SUPPORTS
EXPANDABLE FOAM INSULATION (NOT BY PANEL MANUFACTURER)
CORNER 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.

<table>
<thead>
<tr>
<th>T</th>
<th>CORNER TRIM</th>
<th>PANCAKE HEAD TYPE 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>F5102</td>
<td>1424PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>F5103</td>
<td>1432PNC</td>
</tr>
<tr>
<td>2.75&quot;</td>
<td>F5105</td>
<td>1432PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>F5104</td>
<td>1432PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>F5101</td>
<td>1440PNC</td>
</tr>
</tbody>
</table>

COMMERCIAL & INDUSTRIAL OUTSIDE CORNER W/ FLUSH TRIM

CI-CF-CE-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.

<table>
<thead>
<tr>
<th>T</th>
<th>MALE CORNER EXTRUSION</th>
<th>FEMALE CORNER EXTRUSION</th>
<th>PANCAKE HEAD TYPE 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>9425ANC</td>
<td>9438ANC</td>
<td>1424PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>9429ANC</td>
<td>9437ANC</td>
<td>1432PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>9429ANC</td>
<td>9436ANC</td>
<td>1432PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>9429ANC</td>
<td>9434ANC</td>
<td>1440PNC</td>
</tr>
</tbody>
</table>

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.
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>MALE CORNER EXTRUSION</th>
<th>FEMALE CORNER EXTRUSION</th>
<th>PANCAKE HEAD TYPE 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>9425ANC</td>
<td>9438ANC</td>
<td>1424PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>9429ANC</td>
<td>9437ANC</td>
<td>1432PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>9429ANC</td>
<td>9436ANC</td>
<td>1432PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>9429ANC</td>
<td>9434ANC</td>
<td>1440PNC</td>
</tr>
</tbody>
</table>

COMMERCIAL & INDUSTRIAL

INSIDE CORNER 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.

<table>
<thead>
<tr>
<th>T</th>
<th>INTERIOR HEAD TRIM</th>
<th>TYPE 3 CLIP FASTENER</th>
<th>TYPE 5 CLIP FASTENER</th>
<th>TYPE B CLIP FASTENER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>F5045</td>
<td>1616PNC</td>
<td>1724PNC</td>
<td>1816PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>F5046</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>2.75&quot;</td>
<td>F5047</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>F5048</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>F5049</td>
<td>1632PNC</td>
<td>1740PNC</td>
<td>1832PNC</td>
</tr>
</tbody>
</table>

COMMERCIAL & INDUSTRIAL HEAD W/ TWO PIECE TRIM

CI-CF-HD-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.

<table>
<thead>
<tr>
<th>T</th>
<th>INTERIOR HEAD EXTRUSION</th>
<th>TYPE 3 CLIP FASTENER</th>
<th>TYPE 5 CLIP FASTENER</th>
<th>TYPE B CLIP FASTENER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>9420A</td>
<td>1616PNC</td>
<td>1724PNC</td>
<td>1816PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>9421A</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>9422A</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>9423A</td>
<td>1632PNC</td>
<td>1740PNC</td>
<td>1832PNC</td>
</tr>
</tbody>
</table>

COMMERCIAL & INDUSTRIAL

HEAD W/ TWO PIECE EXTRUSION

CI-CF-EH-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.

<table>
<thead>
<tr>
<th>T</th>
<th>INTERIOR JAMB TRIM</th>
<th>PANCAKE HEAD TYPE 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>F5442</td>
<td>1424PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>F5442</td>
<td>1432PNC</td>
</tr>
<tr>
<td>2.75&quot;</td>
<td>F5442</td>
<td>1432PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>F5443</td>
<td>1432PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>FF443</td>
<td>1440PNC</td>
</tr>
</tbody>
</table>

COMMERCIAL & INDUSTRIAL
BUTYL SEALANT [7100BWH]

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

BUTYL SEALANT [7100BWH]

FLAT JAMB TRIM [SEE CHART]

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

BUTYL TAPE [7300BGR]

PERIMETER SEALANT (NOT BY PANEL MANUFACTURER)

SUPPORT

WINDOW/LOUVER/DOOR/FRAMING
(NEG 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>FLAT JAMB TRIM</th>
<th>PANCAKE HEAD TYPE 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>F5390</td>
<td>1424PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>F5392</td>
<td>1432PNC</td>
</tr>
<tr>
<td>2.75&quot;</td>
<td>F5394</td>
<td>1432PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>F5396</td>
<td>1432PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>F5398</td>
<td>1440PNC</td>
</tr>
</tbody>
</table>

COMMERCIAL & INDUSTRIAL

JAMB W/ DEEP TRIM

DATE: Jul '19
**BUTYL SEALANT**

**[7100BWH]**

**1/4" THRU FASTENER**

*(NOT TO EXCEED 5'-0" O.C.)*

*[SEE CHART]*

**URETHANE SEALANT**

**[HW540]**

**FEMALE JAMB EXTRUSION**

*[SEE CHART]*

**WIPER GASKET**

**[7800VGR]**

**PERIMETER SEALANT**

*(NOT BY PANEL MANUFACTURER)*

**MALE JAMB EXTRUSION**

**[9415A]**

**#12 PANCAKE STITCH SCREW @ ENDS**

*[12A]*

**WINDOW/LOUVER/DOOR/FRAMING SUPPORT**

*(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>FEMALE JAMB EXTRUSION</th>
<th>TYPE 3 THRU FASTENER</th>
<th>TEK 5 THRU FASTENER</th>
<th>TYPE B THRU FASTENER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>9420A</td>
<td>1424PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>9421A</td>
<td>1432PNC</td>
<td>1740PNC</td>
<td>1832PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>9422A</td>
<td>1432PNC</td>
<td>1740PNC</td>
<td>1832PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>9423A</td>
<td>1440PNC</td>
<td>1748PNC</td>
<td>1832PNC</td>
</tr>
</tbody>
</table>

**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)

SILL TRIM [SEE CHART]

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

FLASHING SEALANT TAPE [7405BWH]

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]

REFERR 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>SILL TRIM</th>
<th>TYPE 3 CLIP FASTENER</th>
<th>TYPE 5 CLIP FASTENER</th>
<th>TYPE B CLIP FASTENER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>F5501</td>
<td>1616PNC</td>
<td>1724PNC</td>
<td>1816PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>F5503</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>2.75&quot;</td>
<td>F5505</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>F5507</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>F5509</td>
<td>1632PNC</td>
<td>1740PNC</td>
<td>1832PNC</td>
</tr>
</tbody>
</table>

COMMERCIAL & INDUSTRIAL

SILL DETAIL W/ FLAT TRIM

CI-CF-SL-01-A

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

PERIMETER SEALANT (NOT BY PANEL MANUFACTURER)

SILL EXTRUSION [SEE CHART]

BUTYL SEALANT [7100BWH]

WIPER GASKET [7800VGR]

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]

WINDOW/LOUVER/DOOR/FRAMING (NOT BY PANEL MANUFACTURER)

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.

<table>
<thead>
<tr>
<th>T</th>
<th>SILL EXTRUSION</th>
<th>TYPE 3 CLIP FASTENER</th>
<th>TYPE 5 CLIP FASTENER</th>
<th>TYPE B CLIP FASTENER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2”</td>
<td>9413A</td>
<td>1616PNC</td>
<td>1724PNC</td>
<td>1816PNC</td>
</tr>
<tr>
<td>2.5”</td>
<td>9413A</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>3”</td>
<td>9413A</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>4”</td>
<td>9412A</td>
<td>1632PNC</td>
<td>1740PNC</td>
<td>1832PNC</td>
</tr>
</tbody>
</table>

COMMERCIAL & INDUSTRIAL SILL DETAIL W/ EXTRUSION CI-CF-ES-01-A DATE: Jul '19

© 2016 Metl-Span, an NCI Building Systems company. All rights reserved.
### Interior Head Trim

<table>
<thead>
<tr>
<th>T</th>
<th>Interior Head Trim</th>
<th>Type 3 Clip Fastener</th>
<th>Type 5 Clip Fastener</th>
<th>Type B Clip Fastener</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>F5045</td>
<td>1616PNC</td>
<td>1724PNC</td>
<td>1816PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>F5046</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>2.75&quot;</td>
<td>F5047</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>F5048</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>F5049</td>
<td>1632PNC</td>
<td>1740PNC</td>
<td>1832PNC</td>
</tr>
</tbody>
</table>

**COMMERCIAL & INDUSTRIAL**

**O.H. Door Head W/ Two Piece Trim**

**CI-CF-HD-02-A**

---

**Note:**

- **SUPPORT**
- **1/4" HWH CLIP FASTENERS**
- **SEE CHART**
- **BUTYL SEALANT**
- **#12 PANCAKE STITCH SCREW**
- **HEAD TRIM (OPTIONAL)**
- **INTERIOR HEAD TRIM**
- **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.**

---

**Diagram:**

- 14 GA. PANEL CLIP
- 1/4" HWH CLIP FASTENERS
- EXTERIOR HEAD TRIM
- URETHANE SEALANT
- 1/8" POP RIVET
- INTERIOR HEAD TRIM
- SUPPORT
- CONTINUOUS URETHANE SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT
- BUTYL SEALANT
- #12 PANCAKE STITCH SCREW
- HEAD TRIM (OPTIONAL)
- URETHANE SEALANT

---

**Date:** Jul '19

---

**2016 Metl-Span, an NCI Building Systems company. All rights reserved.**
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>INTERIOR HEAD EXTRUSION</th>
<th>TYPE 3 CLIP FASTENER</th>
<th>TYPE 5 CLIP FASTENER</th>
<th>TYPE B CLIP FASTENER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>9420A</td>
<td>1616PNC</td>
<td>1724PNC</td>
<td>1816PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>9421A</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>9422A</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>9423A</td>
<td>1632PNC</td>
<td>1740PNC</td>
<td>1832PNC</td>
</tr>
</tbody>
</table>

Commercial & Industrial

O.H. Door Head

W/ Two Piece Extrusion

Cl-CF-EH-02-A

Date: Jul '19
SUPPORT
1/4" PANCAKE FASTENER
(NOT TO EXCEED 5'-0" O.C.)
[SEE CHART]
BUTYL SEALANT
[7100BWH]
INTERIOR JAMB TRIM
[SEE CHART]
BUTYL SEALANT
[7100BWH]
JAMB WRAP TRIM
(OPTIONAL)
T
1/8" RIVETS
@ 8" O.C.
[14]
URETHANE SEALANT
[HW540]
BUTYL TAPE
[7100BWH]
1/8" POP RIVET
@ 8" O.C.
[14]
URETHANE SEALANT
[HW540]
EXTERIOR JAMB TRIM
[F27]

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>INTERIOR JAMB TRIM</th>
<th>PANCAKE HEAD TYPE 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>F5442</td>
<td>1424PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>F5442</td>
<td>1432PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>F5443</td>
<td>1432PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>F5443</td>
<td>1440PNC</td>
</tr>
</tbody>
</table>

COMMERCIAL & INDUSTRIAL
O.H. DOOR JAMB
W/ TWO PIECE TRIM
CI-CF-DJ-01-A
DATE: Jul '19
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]

FEMALE JAMB EXTRUSION [SEE CHART]

WIPER GASKET [7800VGR]

BUTYL SEALANT [7100BWH]

URETHANE SEALANT [HW540]

MALE JAMB EXTRUSION [9415A]

SUPPORT

JAMB WRAP TRIM (OPTIONAL)

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>FEMALE JAMB EXTRUSION</th>
<th>TYPE 3 THRU FASTENER</th>
<th>TEK 5 THRU FASTENER</th>
<th>TYPE B THRU FASTENER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>9420A</td>
<td>1424PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>9421A</td>
<td>1432PNC</td>
<td>1740PNC</td>
<td>1832PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>9422A</td>
<td>1432PNC</td>
<td>1740PNC</td>
<td>1832PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>9423A</td>
<td>1440PNC</td>
<td>1748PNC</td>
<td>1832PNC</td>
</tr>
</tbody>
</table>

COMMERCIAL & INDUSTRIAL

O.H. DOOR JAMB W/ EXTRUSION

CI-CF-ED-01-A

DATE: Jul '19
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 SEALANT

BUTYL SEALANT

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

EXPOSED SEALANT (NOT BY PANEL 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
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>STACK JOINT TRIM</th>
<th>TYPE 3 CLIP FASTENER</th>
<th>TYPE 5 CLIP FASTENER</th>
<th>TYPE B CLIP FASTENER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>F5701</td>
<td>1616PNC</td>
<td>1724PNC</td>
<td>1816PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>F5703</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>2.75&quot;</td>
<td>F5705</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>F5707</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>F5709</td>
<td>1632PNC</td>
<td>1740PNC</td>
<td>1832PNC</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>T</th>
<th>STACK JOINT EXTRUSION</th>
<th>TYPE 3 CLIP FASTENER</th>
<th>TYPE 5 CLIP FASTENER</th>
<th>TYPE B CLIP FASTENER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>9455A</td>
<td>1616PNC</td>
<td>1724PNC</td>
<td>1816PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>9456A</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>9458A</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>9459A</td>
<td>1632PNC</td>
<td>1740PNC</td>
<td>1832PNC</td>
</tr>
</tbody>
</table>

COMMERCIAL & INDUSTRIAL STACK JOINT W/ EXTRUSION CI-CF-ESJ-01-A

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.

<table>
<thead>
<tr>
<th>T</th>
<th>TYPE III CLIP FASTENER</th>
<th>TYPE V CLIP FASTENER</th>
<th>TYPE B CLIP FASTENER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>1616PNC</td>
<td>1724PNC</td>
<td>1816PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>2.75&quot;</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>1632PNC</td>
<td>1740PNC</td>
<td>1832PNC</td>
</tr>
</tbody>
</table>

COMMERCIAL & INDUSTRIAL EAVE DETAIL – CONVENTIONAL ROOF CI–CF–VE–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.

<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>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>1616PNC</td>
<td>1724PNC</td>
<td>1816PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>2.75&quot;</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>1632PNC</td>
<td>1740PNC</td>
<td>1832PNC</td>
</tr>
</tbody>
</table>

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)

FASTENER (NOT BY PANEL MANUFACTURER)

1/4" HWH CLIP FASTENERS [SEE CHART]

14 GA. PANEL CLIP [4633GNC]

SUPPORT

ROOF MEMBRANE & PARAPET CAP (NOT BY PANEL MANUFACTURER)

1/4" HWH CLIP FASTENERS [SEE CHART]

14 GA. PANEL CLIP [4633GNC]

REFERR 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>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>1616PNC</td>
<td>1724PNC</td>
<td>1816PNC</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>2.75&quot;</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>3&quot;</td>
<td>1624PNC</td>
<td>1732PNC</td>
<td>1824PNC</td>
</tr>
<tr>
<td>4&quot;</td>
<td>1632PNC</td>
<td>1740PNC</td>
<td>1832PNC</td>
</tr>
</tbody>
</table>
(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 – BASE

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

FIELD NOTCH HEM(S) AS REQUIRED

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
NOTE: POP RIVET OR STITCH SCREW AS NECESSARY

FIELD NOTCH HEM(S) AS REQUIRED

(2) BEADS URETHANE SEALANT

TRIM LAP 2"

TRIM LAP 2"

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
(2) BEADS URETHANE SEALANT

FIELD NOTCH HEM(S) AS REQUIRED

TRIM LAP

TRIM LAP

2"

2"

NOTE: POP RIVET OR STITCH SCREW AS NECESSARY
2" BASE EXTRUSION [9405A]

2" BASE/SOFFIT EXTRUSION [9414A]

2" STACK JOIN EXTRUSION [9455A]

2" HEAD/JAMB EXTRUSION INTERIOR (FEMALE) [9420A]

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

2" VERTICAL H JOINT EXTRUSION INTERIOR (FEMALE) [9450A]

2" VERTICAL H JOINT EXTRUSION EXTERIOR (MALE) [9445A]

2" OUTSIDE CORNER INTERIOR (FEMALE) [9438ANC]

OUTSIDE CORNER EXTERIOR (MALE) [9425A]

2" SILL EXTRUSION [9413A]

WIPER GASKET [7800VGR]

EXTRUDED ALUMINUM SPLICE BAR [9495A]
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

DIMENSION IS FROM
FEMALE EDGE +/- 1.5"
CONSULT FACTORY FOR FASTENER REQUIREMENTS NEEDED TO MEET SPECIFIC LOAD REQUIREMENTS

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"

10.5" 10.5" 10.5" 10.5" 5.25"

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"

10.5"

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

DIMENSION IS FROM
FEMALE EDGE +/- 1.5"
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 IN EXISTING WALL

SEE DETAIL CI–CF–PEN–5 FOR FLASHING INFORMATION
EXISTING PENETRANT

WALL SUPPORT

PANEL CUTOUT
(EXTEND AS A SLOT TO THE PANEL EDGE)

SLIDE PANEL TO FIT AROUND PENETRANT

NEXT WALL PANEL

EXISTING PENETRANT IN NEW WALL

EXPANDABLE FOAM
(NOT BY PANEL MANUFACTURER)

WALL SUPPORT

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

**PENETRANT**

**URETHANE SEALANT**

**BOTTOM COVER PLATE**

**RIVET OR SCREW** (TYP)

**WALL PANEL**

**PENETRANT**

**TYP**

**TOP COVER PLATE**

**URETHANE SEALANT**

**BOTTOM COVER PLATE**

**WALL PANEL**

**PENETRANT**

**EXPOSED URETHANE SEALANT**

3/8" (MIN) FILLET

**WALL PANEL**

**COVER PLATE ASSEMBLY**

**PENETRATION PERIMETER SEAL**
PANEL CUTOUT (AT CENTER OF PANEL)

PANEL CUTOUT (AT PANEL JOINT)

FILLER INSULATION

EXPANDABLE FOAM (NOT BY PANEL MANUFACTURER)
Lap Area

PENETRATION PERIMETER SEAL

LEFT COVER PLATE INSTALLATION

RIGHT COVER PLATE INSTALLATION

COVER PLATE LAYOUT

COVER PLATE

PANEL CUTOUT

STRUCTURAL

URETHANE SEALANT

COVER PLATE

WALL PANEL

RIVET OR SCREW (TYP)

STRUCTURAL

URETHANE SEALANT

COVER PLATE

WALL PANEL

LEFT COVER PLATE INSTALLATION

RIGHT COVER PLATE INSTALLATION

COVER PLATE ASSEMBLY

EXPOSED SEALANT 3/8" MIN. FILLET (NOT BY PANEL MANUFACTURER)

WALL PANEL

PENETRATION PERIMETER SEAL