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.
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| CI-CF-FSTN-01C | ATTACHMENT–BACK FASTENED W/GIRT CLIPS |
| CI-CF-FSTN-01D | ATTACHMENT–BACK FASTENED W/RIVETS |
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| CI-CF-CE-01 | OUTSIDE CORNER W/FLUSH TRIM |
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| 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 |
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| CI-CF-JB-01 | JAMB W/TWO PIECE TRIM |
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| CI-CF-SL-01 | SILL DETAIL W/FLAT TRIM |
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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
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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
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CI-CF-FP 9–10 FASTENING PATTERNS 9–10
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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
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CI-CF-PEN-7 BEAM PENETRATION – FLASHING

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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

JOINT SEALANT

JOINT SEALANT APPLICATION

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

OPTIONAL JOINT SEALANT

DETAIL A

1/8" MAX @ JOINT

COMMERCIAL & INDUSTRIAL

CF PANEL JOINT DETAILS

CI-CF-JT-03
DATE: Jul '19
* 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

14 GA. CLIP

1/4" HWH FASTENERS

BULB-TITE® RIVET

WALL SUPPORT

BULB-TITE® RIVET

WALL SUPPORT

14 GA. CLIP W/FASTENERS
14 GA. PANEL CLIP

1/4" HWH FASTENERS

BASE TRIM

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

BASE FLASHING

#12 PANCAKE STITCH FASTENER

CONTINUOUS BASE ATTACHMENT
( NOT BY PANEL MANUFACTURER)

BUTYL SEALANT

CONC. FASTENERS
( NOT BY PANEL MANUFACTURER)

BASE ATTACHMENT
SET IN CONTINUOUS
BEAD OF URETHANE SEALANT

CONTINUOUS BUTYL SEALANT
WITH MARRIAGE BEAD TO
VERTICAL PANEL JOINT SEALANT

ALTERNATE PLACEMENT OF SEALANT

CONTINUOUS BUTYL SEALANT
WITH MARRIAGE BEAD TO
VERTICAL PANEL JOINT SEALANT

URETHANE SEALANT

COMMERCIAL & INDUSTRIAL

BASE – OVERHANG W/ DRIP TRIM

CI-CF-BE-06
DATE: Jul '19
BASE TRIM
1/8" RIVETS @ 8" O.C.

14 GA. PANEL CLIP
1/4" HWH FASTENERS

CONTINUOUS BASE ATTACHMENT
(NOT BY PANEL MANUFACTURER)

BUTYL SEALANT

#12 PANCAKE STITCH FASTENER

BASE ATTACHMENT
SET IN CONTINUOUS BEAD OF URETHANE SEALANT

CONTINUOUS BUTYL SEALANT
WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT

PANEL SUPPORT ANGLE
(NOT BY PANEL MANUFACTURER)

URETHANE SEALANT

CONTINUOUS BUTYL SEALANT
WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT

ALTERNATE PLACEMENT OF SEALANT
14 GA. PANEL CLIP

1/4" HWH FASTENERS

CONTINUOUS BASE ATTACHMENT (NOT BY PANEL MANUFACTURER)

BASE ATTACHMENT SET IN CONTINUOUS BEAD OF URETHANE SEALANT

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

BASE TRIM

BASEMENT - OVERHANG W/ BASE SUPPORT

CONC. FASTENERS (NOT BY PANEL MANUFACTURER)

CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT

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CI-CF-BE-08

BASE - OVERHANG W/ BASE SUPPORT
14 GA. PANEL CLIP

1/4" HWH FASTENERS

WIPER GASKET

BASE EXTRUSION

FIELD DRILL 3/8" ø MIN.
WEEP HOLES
@ 24" O.C.

SPlice PLATE

BUTYL SEALANT

#12 PANCAKE STITCH FASTENER

CONC. FASTENERS
(NOT BY PANEL MANUFACTURER)

BASE ATTACHMENT
SET IN CONTINUOUS
BEAD OF URETHANE SEALANT

CONTINUOUS BUTYL SEALANT
WITH MARRIAGE BEAD TO
VERTICAL PANEL JOINT SEALANT

CONTINUOUS BUTYL SEALANT
WITH MARRIAGE BEAD TO
VERTICAL PANEL JOINT SEALANT

URETHANE SEALANT

ALTERNATE PLACEMENT OF SEALANT
BASE TRIM
1/8"
RIVETS @ 12" O.C.
BASE FLASHING
CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT

ALTERNATE PLACEMENT OF SEALANT

CONTINUOUS BASE ATTACHMENT (NOT BY PANEL MANUFACTURER)
BUYTL SEALANT
#12 PANCake STITCH FASTENER

CONC. FASTENERS (NOT BY PANEL MANUFACTURER)
BASE ATTACHMENT SET IN CONTINUOUS BEAD OF URETHANE SEALANT
CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT

COMMERCIAL & INDUSTRIAL
W/ NOTCHED SLAB

DATE: Jul '19
14 GA. PANEL CLIP

1/4" HWH FASTENERS

BASE TRIM

1/8" Ø RIVETS @ 12" O.C.

BASE FLASHING

CONTINUOUS BASE ATTACHMENT (NOT BY PANEL MANUFACTURER)

BUTYL SEALANT

#12 PANCAKE STITCH FASTENER

CONC. FASTENERS (NOT BY PANEL MANUFACTURER)

BASE ATTACHMENT SET IN CONTINUOUS BEAD OF URETHANE SEALANT

CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT

CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT

BUTYL SEALANT

URETHANE SEALANT

ALTERNATE PLACEMENT OF SEALANT

COMMERCIAL & INDUSTRIAL

BASE - OVERHANG W/ NOTCHED SLAB - ALT.

CI-CF-BE-04

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WIPER GASKET
BASE EXTRUSION
SPLICE BAR
FIELD DRILL 3/8" MIN.
@ 24" O.C.
WEEP HOLES
ALTERNATE PLACEMENT OF SEALANT
CONTINUOUS BASE ATTACHMENT (NOT BY PANEL MANUFACTURER)
CONC. FASTENERS (NOT BY PANEL MANUFACTURER)
BASE ATTACHMENT SET IN CONTINUOUS BEAD OF URETHANE SEALANT
CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT
BUTYL SEALANT
URETHANE SEALANT
CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT
14 GA. PANEL CLIP
1/4" HWH FASTENERS
WIPER GASKET
FIELD DRILL 3/8" Ø MIN. WEEP HOLES @ 24" O.C.
BASE EXTRUSION
SPLICE BAR
14 GA. PANEL CLIP
1/4" HWH FASTENERS
WIPER GASKET
FIELD DRILL 3/8" Ø MIN. WEEP HOLES @ 24" O.C.
BASE EXTRUSION
SPLICE BAR
CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT
BUTYL SEALANT
URETHANE SEALANT
ALTERNATE PLACEMENT OF SEALANT
COMMERCIAL & INDUSTRIAL
BASE - OVERHANG W/ NOTCHED SLAB, EXTRUSION
CI-CF-EB-01
date: Jul ’19
SUPPORTS

BUTYL SEALANT
1/8"

RIVETS
@ SUPPORTS

1/4" PANCAKE FASTENER
@ EACH SUPPORT

1/8" RIVETS
@ SUPPORTS

CORNER TRIM

SEALANT TAPE
(AS REQUIRED)

EXPANDABLE FOAM
INSULATION
(NOT BY PANEL MANUFACTURER)

CORNER TRIM

1/8" @ 8" O.C.

WALL GIRT

1/8" x 3/8" POP RIVET
@ EACH WALL SUPPORT

INSIDE CORNER TRIM

BUTYL SEALANT
3/8" BEAD @ EACH LEG

COMMERCIAL & INDUSTRIAL

OUTSIDE CORNER W/ FLUSH TRIM

CI-CF-CE-01
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BUTYL SEALANT
WIPER GASKET
MALE CORNER EXTRUSION
SUPPORTS
FEMALE CORNER EXTRUSION
BUTYL SEALANT
#12 PANCAKE STITCH FASTENER
@ EACH SUPPORT
1/4" PANCAKE FASTENER
@ EACH SUPPORT
FIELD MITER PANEL
MALE CORNER EXTRUSION

COMMERCIAL &
INDUSTRIAL
OUTSIDE CORNER
W/ TWO PIECE EXTRUSION
CI–CF–EC–01
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BUTYL SEALANT
SUPPORTS
SEALANT TAPE (AS REQUIRED)
1/8" RIVETS @ 8" O.C.
CORNER TRIM
EXPANDABLE FOAM (NOT BY PANEL MANUFACTURER)
1/4" PANCAKE FASTENER @ EACH SUPPORT
SEALANT TAPE (AS REQUIRED)
1/8" RIVETS @ SUPPORTS
BUTYL SEALANT
1/8" x 3/8" POP RIVET @ EACH WALL SUPPORT
INSIDE CORNER TRIM
WALL GIRT
INTERIOR OF BUILDING
EXTERIOR OF BUILDING
BUTYL SEALANT 3/8" BEAD @ EACH LEG
COMMERCIAL & INDUSTRIAL
INSIDE CORNER W/ FLUSH TRIM
CI-CF-CE-03
DATE: Jul '19
BUTYL SEALANT
SUPPORTS
BUTYL SEALANT FEMALE CORNER EXTRUSION
1/4" PANCAKE FASTENER @ EACH SUPPORT
WIPER GASKET

MALE CORNER EXTRUSION
#12 PANCAKE STITCH FASTENER @ EACH SUPPORT
BUTYL SEALANT
FEMALE CORNER EXTRUSION
1/4" PANCAKE FASTENER @ EACH SUPPORT
WIPER GASKET

COMMERCIAL & INDUSTRIAL
INSIDE CORNER W/ TWO PIECE EXTRUSION
CI-CF-EC-02
DATE: Jul '19
14 GA. PANEL CLIP

1/4" HWH FASTENERS

EXTERIOR HEAD TRIM

BUTYL SEALANT

#12 PANCAKE STITCH SCREW

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

PERIMETER SEALANT (NOT BY PANEL MANUFACTURER)

URETHANE SEALANT

INTERIOR HEAD TRIM

URETHANE SEALANT

CONTINUOUS URETHANE SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT

1/8" POP RIVET

SUPPORT

COMMERCIAL & INDUSTRIAL

HEAD W/ TWO PIECE TRIM

CI-CF-HD-01
DATE: Jul '19
WIPER GASKET
EXTERIOR HEAD EXTRUSION
FIELD DRILL 3/8" MIN.
WEEP HOLES @ 24" O.C.
14 GA. PANEL CLIP
1/4" HWH FASTENERS
WIPER GASKET
EXTERIOR HEAD EXTRUSION
INTERIOR HEAD EXTRUSION
CONTINUOUS URETHANE SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT
BUTYL SEALANT
#12 PANCAKE STITCH SCREW
FIELD DRILL 3/8" Ø MIN. WEEP HOLES @ 24" O.C.
URETHANE SEALANT
PERIMETER SEALANT (NOT BY PANEL MANUFACTURER)
SUPPORT
WINDOW/DOOR/LOUVER/FRAMING (NOT BY PANEL MANUFACTURER)

COMMERCIAL & INDUSTRIAL
HEAD W/ TWO PIECE EXTRUSION
CI-CF-EH-01
DATE: Jul '19
1/4" PANCAKE FASTENER
(NOT TO EXCEED 5'-0" O.C.)

BUTYL SEALANT

INTERIOR JAMB TRIM

BUTYL SEALANT

SUPPORT

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

PERIMETER SEALANT
(NOT BY PANEL MANUFACTURER)

URETHANE SEALANT

1/8" POP RIVET

BUTYL TAPE

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

URETHANE SEALANT

EXTerior JAMB TRIM

COMMERCIAL & INDUSTRIAL

JAMB W/ TWO PIECE TRIM

CI–CF–JB–01

DATE: Jul '19
BUTYL SEALANT

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

BUTYL SEALANT

FLAT JAMB TRIM

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

BUTYL TAPE

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

SUPPORT

PERIMETER SEALANT
(NOT BY PANEL MANUFACTURER)

COMMERCIAL & INDUSTRIAL

CI-CF-JB-02
DATE: Jul '19
14 GA. PANEL CLIP @ 8" O.C.

PERIMETER SEALANT (NOT BY PANEL MANUFACTURER)

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

FLASHING SEALANT TAPE

FLUTE PLUG STRIP (1) PER PANEL (IF REQUIRED) SET IN URETHANE SEALANT

#12 PANCAKE STITCH SCREW @ 12" O.C. (NOT BY PANEL MANUFACTURER)

SILL TRIM

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

SILL DETAIL

COMMERCIAL & INDUSTRIAL

CI-CF-SL-01 DATE: Jul '19

1/4" HWH FASTENERS

CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT

14 GA. PANEL CLIP
WIPER GASKET 14”

BUTYL SEALANT

1/4” HWH FASTENERS

CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT

14 GA. PANEL CLIP

#12 PANCAKE STITCH SCREW @ 12” O.C. (NOT BY PANEL MANUFACTURER)

PERIMETER SEALANT (NOT BY PANEL MANUFACTURER)

SILL DETAIL W/ EXTRUSION

COMMERCIAL & INDUSTRIAL

CI-CF-ES-01

DATE: Jul '19
14 GA. PANEL CLIP

1/4" HWH FASTENERS

EXTERIOR HEAD TRIM

INTERIOR HEAD TRIM

URETHANE SEALANT

1/8" Ø POP RIVET

CONTINUOUS URETHANE SEALANT

WITH MARRIAGE BEAD TO

VERTICAL PANEL JOINT SEALANT

BUTYL SEALANT

#12 PANCAKE

STITCH SCREW

SUPPORT

HEAD TRIM

(OPRIONAL)

URETHANE SEALANT
1/4" PANCAKE FASTENER (NOT TO EXCEED 5'-0" O.C.)

SUPPORT

BUTYL SEALANT

INTERIOR JAMB TRIM

BUTYL SEALANT

URETHANE SEALANT

1/8" POP RIVET

BUTYL TAPE

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

EXTERIOR JAMB TRIM

JAMB WRAP TRIM (OPTIONAL)

URETHANE SEALANT

COMMERCIAL & INDUSTRIAL O.H. DOOR JAMB W/ TWO PIECE TRIM

DATE: Jul '19
BUTYL SEALANT

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

#12 PANCAKE STITCH
SCREW @ ENDS

BUTYL SEALANT
BUTYL SEALANT

URETHANE SEALANT
FEMALE JAMB EXTRUSION
MALE JAMB EXTRUSION

WIPER GASKET

SUPPORT
JAMB WRAP TRIM
(OPTIONAL)

COMMERCIAL & INDUSTRIAL

O.H. DOOR JAMB
W/ EXTRUSION

CI-CF-ED-01
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

- FIELD CUT/NOTCH CAP TRIM AT CORNERS TO ALLOW FOR LAP
- URETHANE END DAM
- BUTYL SEALANT
- URETHANE SEALANT
- 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
14 GA. PANEL CLIP

1/4" HWH FASTENERS

BASE TRIM

1/8" Ø RIVET @ 8" O.C.

STACK JOINT TRIM

FLASING SEALANT TAPE

FLUTE PLUG STRIP (1) PER PANEL (IF REQUIRED) SET IN URETHANE SEALANT

CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT

#12 PANCAKE STITCH SCREW

SUPPORT

WORK POINT ELEV
SPLICE BAR
WIPER GASKET
STACK JOINT EXTRUSION

3/8"

1/2"

WIPER GASKET
FIELD DRILL 3/8"
MIN.
WEEP HOLES
@ 24" O.C.

14 GA. PANEL CLIP
1/4" HWH FASTENERS

STACK JOINT EXTRUSION

#12 PANCAKE STITCH FASTENER
URETHANE SEALANT

CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT

SUPPORT

CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT

#12 PANCAKE STITCH FASTENER

WORK POINT
ELEV

#12 PANCAKE STITCH FASTENER

URETHANE SEALANT

CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT

SUPPORT

CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT

WORK POINT
ELEV
NOTE:
THIS DETAIL IS FOR INFORMATIONAL PURPOSES ONLY. ALL ROOF COMPONENTS, PERIMETER FLASHING AND SEALANTS ARE NOT BY PANEL MANUFACTURER.

FLUSHING SEALANT TAPE

FLUTE PLUG STRIP
(1) PER PANEL
(IF REQUIRED)
SET IN URETHANE SEALANT

1/4" HWH FASTENERS

14 GA. PANEL CLIP

INTERIOR AIR/VAPOR SEAL
(NOT BY PANEL MANUFACTURER)

CONTINUOUS BUTYL SEALANT
WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT

SUPPORT
1/4" HWH FASTENERS
CONTINUOUS BUTYL SEALANT
WITH MARRIAGE BEAD TO
VERTICAL PANEL JOINT SEALANT
METAL CLEAT AND
FORM OF ATTACHMENT
(NOT BY PANEL MANUFACTURER)
14 GA. PANEL CLIP
SUPPORT
PARAPET BLOCKING
(NOT BY PANEL MANUFACTURER)
FLASHING SEALANT TAPE
FLUTE PLUG STRIP
(1) PER PANEL
(IF REQUIRED)
SET IN URETHANE SEALANT
PARAPET EXTRUSION (NOT BY PANEL MANUFACTURER)

CONTINUOUS BUTYL SEALANT
WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT

PARAPET BLOCKING (NOT BY PANEL MANUFACTURER)

FASTENER (NOT BY PANEL MANUFACTURER)

ROOF MEMBRANE & PARAPET CAP (NOT BY PANEL MANUFACTURER)

1/4" HWH FASTENERS

14 GA. PANEL CLIP

SUPPORT

PARAPET (SUPPORTED) W/ EXTRUSION
(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
BEADS
URETHANE SEALANT

FIELD NOTCH HEM(S) AS REQUIRED

NOTE: POP RIVET OR STITCH SCREW AS NECESSARY

(2) BEADS URETHANE SEALANT

2" TRIM LAP

2" TRIM LAP

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

TRIM LAP 2"

(2) BEADS URETHANE SEALANT

TRIM LAP 2"

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
(2) BEADS URETHANE SEALANT

FIELD NOTCH HEM(S) AS REQUIRED

NOTE: POP RIVET OR STITCH SCREW AS NECESSARY

COMMERCIAL & INDUSTRIAL

TRIM END LAP – STACK JOINT

CI–CF–EL–SJ

DATE: Jul '19
2" BASE EXTRUSION [9405A]

2" BASE/SOFFIT EXTRUSION [9414A]

2" STACK JOINT 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]

DATE: Jul '19
2.5" BASE EXTRUSION
[9406A]

2.5" STACK JOINT EXTRUSION
[9455A]

2.5" HEAD/JAMB EXTRUSION INTERIOR (FEMALE)
[9421A]

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

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

OUTSIDE CORNER EXTERIOR (MALE)
[9429ANC]

WIPER GASKET [7800VGR]

EXTRUDED ALUMINUM SPLICE BAR [9495A]
4" BASE EXTRUSION
[9404A]

WIPER GASKET
[7600VGR]

EXTRUDED ALUMINUM SPLICE BAR
[9495A]

4" HEAD/JAMB EXTRUSION INTERIOR (FEMALE)
[9423A]

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

4" OUTSIDE CORNER INTERIOR (FEMALE)
[9434ANC]

OUTSIDE CORNER EXTERIOR (MALE)
[9429ANC]

4" STACK JOINT EXTRUSION
[9459A]

4" SILL EXTRUSION
[9412A]
FASTENING PATTERN 1
SIDE JOINT FASTENING

(FP1)

DIMENSION IS FROM
FEMALE EDGE +/- 1.5'

10.5'

(FP2)

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
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 7
SIDE JOINT FASTENING
AND TWO GIRT CLIPS 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"

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

DIMENSION IS FROM
FEMALE EDGE +/- 1.5'

10.5" 10.5" 10.5"
**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

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)

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 WEATHER SEAL (NEW PENETRANT, EXISTING WALL)

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