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-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

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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
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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

OPTIONAL JOINT SEALANT

SEE DETAIL "A"

JOINT SEALANT APPLICATION

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

DETAIL A

1/8" MAX @ JOINT
PANEL CLIP
@ EACH WALL SUPPORT

WALL SUPPORT

1/4" HWH FASTENERS

INTERIOR SURFACE

EXTERIOR SURFACE

ATTACHMENT - SIDEJOINT - PRE-ENGINEERED SUPPORT

14 GA. CLIP

14 GA. CLIP

WALL SUPPORT (14GA. MINIMUM)

WALL SUPPORT

PANEL CLIP
@ EACH WALL SUPPORT
ATTACHMENT – SIDEJOINT – STRUCTURAL STEEL SUPPORT

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INTERIOR SURFACE

EXTERIOR SURFACE

14 GA. CLIP W/FASTENERS

1/4" HWH FASTENERS

STRUCTURAL STEEL
* 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.
BASE TRIM

1/8” RIVETS
@ 8” O.C.

CONTINUOUS BUTYL SEALANT
WITH MARRIAGE BEAD TO
VERTICAL PANEL JOINT SEALANT

14 GA. PANEL CLIP

1/4” HWH FASTENERS

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

#12 PANCAKE STITCH FASTENER

URETHANE SEALANT

ALTERNATE PLACEMENT OF SEALANT

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BASE – OVERHANG W/ EDGE TRIM

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14 GA. PANEL CLIP

1/4" HWH FASTENERS

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

BASE TRIM

CONTINUOUS BASE ATTACHMENT (NOT BY PANEL MANUFACTURER)

BASE ATTACHMENT SET IN CONTINUOUS BEAD OF URETHANE SEALANT

FINISH FLOOR

CONC. FASTENERS (NOT BY PANEL MANUFACTURER)

CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT

COMMERCIAL & INDUSTRIAL

BASE - OVERHANG W/ BASE SUPPORT

CI-CF-BE-08
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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

CONTINUOUS BASE ATTACHMENT (NOT BY PANEL MANUFACTURER)

#12 PANCAKE STITCH FASTENER

BASE ATTACHMENT SET IN CONTINUOUS BEAD OF URETHANE SEALANT

CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT

ALTERNATE PLACEMENT OF SEALANT

URETHANE 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

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

14 GA. PANEL CLIP
1/4" HWH FASTENERS
BASE TRIM
1/8" Ø RIVETS @ 12" O.C.

BUTYL SEALANT
URETHANE SEALANT

CONTINUOUS BASE ATTACHMENT (NOT BY PANEL MANUFACTURER)
#12 PANCake STitch FASTENER

COMMERCIAL & INDUSTRIAL
BASE - OVERHANG W/ NOTCHED SLAB
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ALTERNATE PLACEMENT OF SEALANT

BASE ATTACHMENT
(CONTINUOUS BASE ATTACHMENT
(NOT BY PANEL MANUFACTURER))

BASE TRIM

#12 PANCAKE STITCH FASTENER

CONTINUOUS BUTYL SEALANT

BASE FLASHING

BUTYL SEALANT

BASE - OVERHANG
W/ NOTCHED SLAB - ALT.

URETHANE SEALANT

CONTINUOUS BUTYL SEALANT

WITH MARRIAGE BEAD TO
VERTICAL PANEL JOINT SEALANT

14 GA. PANEL CLIP

1/4" HWH FASTENERS

1/8" @ 12" O.C.

#12 PANCAKE STITCH FASTENER

5/8" 3/8"

CONC. FASTENERS
(NOT BY PANEL MANUFACTURER)

@ 12" O.C.

BASE ATTACHMENT
SET IN CONTINUOUS
BEAD OF URETHANE SEALANT

CONTINUOUS BUTYL SEALANT

WITH MARRIAGE BEAD TO
VERTICAL PANEL JOINT SEALANT

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COMMERCIAL & INDUSTRIAL
WIPER GASKET
BASE EXTRUSION
SPLICE BAR
FIELD DRILL 3/8" MIN.
WEEN HOLES @ 24" O.C.
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
14 GA. PANEL CLIP
1/4" HWH FASTENERS
WIPER GASKET
FIELD DRILL 3/8" Ø MIN. WEEPHOLES @ 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
1/4" HWH FASTENERS
BUTYL SEALANT
#12 PANCAKE STITCH FASTENER
BUTYL SEALANT
CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT
BUTYL SEALANT
URETHANE SEALANT
FINISH FLOOR

14 GA. PANEL CLIP
1/4" HWH FASTENERS
WIPER GASKET
FIELD DRILL 3/8" Ø MIN. WEEPHOLES @ 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
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SUPPORTS
BUTYL SEALANT
1/8"
RIVETS @ SUPPORTS
1/4" PANCAKE FASTENER @ EACH SUPPORT
1/8" Ø RIVETS @ SUPPORTS
CORNER TRIM
EXPANDABLE FOAM INSULATION
(NOT BY PANEL MANUFACTURER)
SEALANT TAPE (AS REQUIRED)
1/8" x 3/8" POP RIVET @ EACH WALL SUPPORT
BUTYL SEALANT
3/8" BEAD @ EACH LEG
WALL GIRT
INSIDE CORNER TRIM
OUTSIDE CORNER W/ FLUSH TRIM
COMMERCIAL & INDUSTRIAL
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CI-CF-CE-01
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

OUTSIDE CORNER
W/ TWO PIECE EXTRUSION

COMMERCIAL & INDUSTRIAL

CI-CF-EC-01
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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
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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)

INTERIOR HEAD TRIM

URETHANE SEALANT

1/8" POP RIVET

SUPPORT

CONTINUOUS URETHANE SEALANT
WITH MARRIAGE BEAD TO
VERTICAL PANEL JOINT SEALANT

URETHANE SEALANT

M E T S P A N

HEAD W/ TWO PIECE TRIM

COMMERCIAL & INDUSTRIAL

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

BUTYL SEALANT

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

FLAT JAMB TRIM

BUTYL TAPE

SUPPORT

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

PERIMETER SEALANT
(NOT BY PANEL MANUFACTURER)
1/4" PANCAKE FASTENER (NOT TO EXCEED 5'-0" O.C.)

#12 PANCAKE STITCH SCREW @ ENDS

BUTYL SEALANT

BUTYL SEALANT

WIPER GASKET

BUTYL SEALANT

SUPPORT

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

PERIMETER SEALANT (NOT BY PANEL MANUFACTURER)

URETHANE SEALANT

FEMALE JAMB EXTRUSION

MALE JAMB EXTRUSION
COMMERCIAL & INDUSTRIAL

SILL DETAIL
W/ FLAT TRIM

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1/8" @ 8" O.C.
(NOT BY PANEL MANUFACTURER)

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

PERIMETER SEALANT
(NOT BY PANEL MANUFACTURER)

SILL TRIM

FLASHING SEALANT TAPE

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

1/4" HWH FASTENERS

CONTINUOUS BUTYL SEALANT
WITH MARRIAGE BEAD TO
VERTICAL PANEL JOINT
SEALANT

14 GA. PANEL CLIP

SUPPORT

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

PERIMETER SEALANT
(NOT BY PANEL MANUFACTURER)
WIPER GASKET

BUTYL SEALANT

14 GA. PANEL CLIP

SUPPORT

WINDOW/LOUVER/DOOR/FRAMING

(Not by panel manufacturer)

CONTINUOUS BUTYL SEALANT

WITH MARRIAGE BEAD TO

VERTICAL PANEL JOINT

SEALANT

#12 PANCAKE STITCH SCREW

@ 12" O.C.

(Not by panel manufacturer)

PERIMETER SEALANT

(Not by panel manufacturer)

SILL EXTRUSION

WIPER GASKET

FLUTE PLUG STRIP

(1) PER PANEL

(IF REQUIRED)

SET IN URETHANE SEALANT

1/4" HWH FASTENERS

14 GA. PANEL CLIP

COMMERCIAL & INDUSTRIAL

SILL DETAIL W/ EXTRUSION

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SUPPORT
14 GA. PANEL CLIP
1/4" HWH FASTENERS
BUTYL SEALANT
#12 PANCAKE STITCH SCREW
HEAD TRIM (OPTIONAL)
CONTINUOUS URETHANE SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT
EXTERIOR HEAD TRIM
URETHANE SEALANT
1/8" POP RIVET
INTERIOR HEAD TRIM
URETHANE SEALANT
HEAD TRIM
SUPPORT
COMMERCIAL & INDUSTRIAL
O.H. DOOR HEAD W/ TWO PIECE TRIM
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14 GA. PANEL CLIP
1/4" HWH FASTENERS
WIPER GASKET
EXTERIOR HEAD EXTRUSION
FIELD DRILL 3/8" Ø MIN. WEER HOLES @ 24" O.C.
URETHANE SEALANT
PERIMETER SEALANT (NOT BY PANEL MANUFACTURER)
INTERIOR HEAD EXTRUSION
CONTINUOUS URETHANE SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT
BUTYL SEALANT
#12 PANCAKE STITCH SCREW
SUPPORT
HEAD TRIM (OPTIONAL)
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

URETHANE SEALANT

BUTYL SEALANT

TRIM LAPS AT FRAMED OPENING
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

COMMERCIAL & INDUSTRIAL
EXTRUSION AT FRAMED OPENING

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14 GA. PANEL CLIP
1/4" HWH FASTENERS
BASE TRIM
1/8" Ø RIVET @ 8" O.C.
STACK JOINT TRIM
FLASHING SEALANT TAPE
FLUTE PLUG STRIP
(1) PER PANEL (IF REQUIRED)
SET IN URETHANE SEALANT

#12 PANCAKE STITCH SCREW
CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT
SUPPORT
CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT
14 GA. PANEL CLIP

1/4" HWH FASTENERS

WIPER GASKET

STACK JOINT EXTRUSION

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

WIPER GASKET

SPLICE BAR

#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

FLASHING 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

COMMERCIAL & INDUSTRIAL
EAVE DETAIL – CONVENTIONAL ROOF
CI-CF-VE-01
DATE: Jul '19
1/4" HWH FASTENERS

METAL CLEAT AND FORM OF ATTACHMENT (NOT BY PANEL MANUFACTURER)

FLASHING 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

PARAPET BLOCKING (NOT BY PANEL MANUFACTURER)

FASTENER (NOT BY PANEL MANUFACTURER)

ROOF MEMBRANE & PARAPET CAP (NOT BY PANEL MANUFACTURER)

14 GA. PANEL CLIP
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)

1/4" HWH FASTENERS

14 GA. PANEL CLIP

SUPPORT

ROOF MEMBRANE &
PARAPET CAP
(NOT BY PANEL MANUFACTURER)

PARAPET (SUPPORTED)
W/ EXTRUSION
BEADS
URETHANE SEALANT
FIELD NOTCH HEM(S)
AS REQUIRED
2"
TRIM LAP
2"
TRIM LAP

(2) BEADS
URETHANE SEALANT

NOTE: POP RIVET OR STITCH
SCREW AS NECESSARY

COMMERCIAL &
INDUSTRIAL

TRIM END LAP –
BASE

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BEADS URETHANE SEALANT

FIELD NOTCH HEM(S) AS REQUIRED

2" TRIM LAP

(2) BEADS URETHANE SEALANT

2" TRIM LAP

NOTE: POP RIVET OR STITCH SCREW AS NECESSARY

COMMERICAL & INDUSTRIAL

TRIM END LAP – CORNER

CI-CF-EL-C

DATE: Jul '19
(2) BEADS URETHANE SEALANT

FIELD NOTCH HEM(S) AS REQUIRED

TRIM LAP - 2"

NOTE: POP RIVET OR STITCH SCREW AS NECESSARY
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

2" TRIM LAP

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

2" TRIM LAP

FIELD NOTCH HEM(S) AS REQUIRED

NOTE: POP RIVET OR STITCH SCREW AS NECESSARY

COMMERCIAL & INDUSTRIAL

TRIM END LAP – STACK JOINT

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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

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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 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
(INSTALL THROUGH CUTOUT)

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

EXPANDABLE FOAM
(NOT BY PANEL MANUFACTURER)

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

PANEL CUTOUT

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

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

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)

BOTTOM COVER PLATE INSTALLATION

WALL PANEL

URETHANE SEALANT

TOP COVER PLATE

PENETRANT

RIVET OR SCREW (TYP)

WALL PANEL

TOP COVER PLATE INSTALLATION

EXPOSED URETHANE SEALANT

3/8" (MIN) FILLET

WALL PANEL

COVER PLATE ASSEMBLY

PENETRATION PERIMETER SEAL
FILLER INSULATION

PANEL CUTOUT (AT CENTER OF PANEL)

PANEL CUTOUT (AT PANEL JOINT)

FILLER INSULATION
LEFT COVER PLATE INSTALLATION

RIGHT COVER PLATE INSTALLATION

COVER PLATE LAYOUT

PENETRATION PERIMETER SEAL

RIVET OR SCREW (TYP)

URETHANE SEALANT

COVER PLATE

WALL PANEL

STRUCTURAL

URETHANE SEALANT

COVER PLATE

WALL PANEL

STRUCTURAL

COVER PLATE ASSEMBLY

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

WALL PANEL

COMMERICAL & INDUSTRIAL

BEAM PENETRATION – FLASHING

CI–CF–PEN–7

DATE: Jul '19