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-SIDE JOINT-PRE-ENGINEERED SUPPORT
CI-CF/FSTN-01B ATTACHMENT-SIDE JOINT-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
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

OPTIONAL JOINT SEALANT

SEE DETAIL "A"

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

DETAIL A

1/8" MAX @ JOINT
14 GA. CLIP

1/4" HWH FASTENERS

WALL SUPPORT (14GA. MINIMUM)

INTERIOR SURFACE

EXTERIOR SURFACE

PANEL CLIP @ EACH WALL SUPPORT

WALL SUPPORT
* INSTALL THROUGH GIRT CLIPS INTO MESA WHERE THE SKIN MAKES CONTACT WITH THE STEEL

14 GA. CLIP

1/4" HWH FASTENERS

BULB-TITE® RIVET

GIRT CLIP

INTERIOR SIDE

2 HOLE GIRT CLIP

DOMED HEAD

BULB-TITE® RIVETS

STRUCTURAL STEEL

COMMERCIAL & INDUSTRIAL

ATTACHMENT - BACK FASTENED W/ GIRT CLIPS

CI-CF-FSTN-01C

DATE: Jul '19
* INSTALL THROUGH GIRT FLANGE INTO MESA WHERE THE SKIN MAKES CONTACT WITH STEEL
14 GA. PANEL CLIP

1/4" HWH FASTENERS

1/8" #12 PANCAKE STITCH FASTENER

CONTINUOUS BASE ATTACHMENT (NOT BY PANEL MANUFACTURER)

BASE TRIM

1/8" Ø RIVETS @ 12" O.C.

#12 PANCAKE STITCH FASTENER

CONTINUOUS BASE ATTACHMENT

BASE FLASHING

CONTINUOUS BUTYL SEALANT

BASE ATTACHMENT

SET IN CONTINUOUS BEAD OF URETHANE SEALANT

CONC. FASTENERS (NOT BY PANEL MANUFACTURER)

CONCRETE FLOOR

BASE OVERHANG W/ DRIP TRIM

CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT

ALTERNATE PLACEMENT OF SEALANT

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

BASE TRIM

14 GA. PANEL CLIP

1/4" HWH FASTENERS

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

PANEL SUPPORT ANGLE (NOT BY PANEL MANUFACTURER)

CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT

URETHANE 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
CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT
WIPER GASKET
BASE EXTRUSION
FIELD DRILL 3/8"
MIN.
WEEP HOLES @ 24" O.C.
SPLICE PLATE
CONTINUOUS BUTYL SEALANT
WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT
CONC. FASTENERS (NOT BY PANEL MANUFACTURER)
CONTINUOUS BUTYL SEALANT
#12 PANCAKE STITCH FASTENER
CONTINUOUS BASE ATTACHMENT (NOT BY PANEL MANUFACTURER)
BASE ATTACHMENT SET IN CONTINUOUS BEAD OF URETHANE SEALANT
CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT
URETHANE SEALANT
ALTERNATE PLACEMENT OF SEALANT

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
BUTYL SEALANT
BASE ATTACHMENT SET IN CONTINUOUS BEAD OF URETHANE 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
CONC. FASTENERS (NOT BY PANEL MANUFACTURER)
CONTINUOUS BASE ATTACHMENT (NOT BY PANEL MANUFACTURER)
#12 PANCAKE STITCH FASTENER
BUTYL SEALANT
14 GA. PANEL CLIP
1/4" HWH FASTENERS
1/8" Ø RIVETS @ 12" O.C.
BASE ATTACHMENT SET IN CONTINUOUS BEAD OF URETHANE SEALANT
CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT
URETHANE SEALANT

COMMERCIAL & INDUSTRIAL
BASE - OVERHANG W/ NOTCHED SLAB
CI-CF-BE-02
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ALTERNATE PLACEMENT OF SEALANT

CONTINUOUS BASE ATTACHMENT
(NOT BY PANEL MANUFACTURER)

CONC. FASTENERS
(NOT BY PANEL MANUFACTURER)

14 GA. PANEL CLIP

1/4" HWH FASTENERS

BASE TRIM

1/8" Ø RIVETS
@ 12" O.C.

BASE FLASHING

CONTINUOUS BUTYL SEALANT
WITH MARRIAGE BEAD TO
VERTICAL PANEL JOINT SEALANT

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

URETHANE SEALANT

ALTERNATE PLACEMENT OF SEALANT
**WIPER GASKET**
**BASE EXTRUSION**
**SPLICE BAR**
**FIELD DRILL 3/8" MIN.**
**WEEP HOLES @ 24" O.C.**
**ALTERNATE PLACEMENT OF SEALANT**

Continuous Base Attachment (not by panel manufacturer)

Concrete Fasteners (not by panel manufacturer)

Continuous Butyl Sealant with marriage bead to vertical panel joint sealant

#12 Pancake Stitch Fastener

Butyl Sealant

14 GA. Panel Clip

1/4" HWH Fasteners

**FINISH FLOOR**

Alternate Placement of Sealant

Commercial & Industrial

**CI-CF-EB-01**

Date: Jul '19
SUPPORTS
1/8"
RIVETS @ SUPPORTS
1/4" PANCAKE FASTENER @ EACH SUPPORT
1/8" RIVETS @ SUPPORTS
CORNER TRIM
BUTYL SEALANT
1/8" RIVETS @ 8" O.C.
SEALANT TAPE
EXPANDABLE FOAM INSULATION
(CORNER TRIM AS REQUIRED)
(NOT BY PANEL MANUFACTURER)

OUTSIDE CORNER W/ FLUSH TRIM
1/8" X 3/8" POP RIVET @ EACH WALL SUPPORT
INSIDE CORNER TRIM
WALL GIRT
BUTYL SEALANT 3/8" BEAD @ EACH LEG
BUTYL SEALANT
WIPER GASKET
MALE CORNER EXTRUSION
BUTYL SEALANT
SUPPORTS
1/4" PANCAKE FASTENER @ EACH SUPPORT
FEMALE CORNER EXTRUSION
#12 PANCAKE STITCH FASTENER @ EACH SUPPORT
FIELD MITER PANEL
MALE CORNER EXTRUSION

OUTSIDE CORNER W/ TWO PIECE EXTRUSION
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
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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

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)

SUPPORT

URETHANE SEALANT

1/8" POP RIVET

INTERIOR HEAD TRIM

URETHANE SEALANT

PERIMETER SEALANT (NOT BY PANEL MANUFACTURER)

CONTINUOUS URETHANE SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT
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
14 GA. PANEL CLIP
1/4" HWH FASTENERS
WIPER GASKET
EXTERIOR HEAD EXTRUSION
FIELD DRILL 3/8" Ø MIN.
WEEP 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
WINDOW/DOOR/LOUVER/FRAMING
(NOT BY PANEL MANUFACTURER)
COMMERICAL &
INDUSTRIAL
HEAD W/ TWO PIECE EXTRUSION
CI–CF–EH–01
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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

PERIMETER SEALANT (NOT BY PANEL MANUFACTURER)

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

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

#12 PANCAKE STITCH
SCREW @ ENDS

BUTYL SEALANT

BUTYL SEALANT

PERIMETER SEALANT
(NOT BY PANEL MANUFACTURER)

URETHANE SEALANT

FEMALE JAMB EXTRUSION

MALE JAMB EXTRUSION

WIPER GASKET

BUTYL SEALANT

SUPPORT

WINDOW/LOUVER/DOOR/FRAMING
(NOT BY PANEL MANUFACTURER)
1/8" Ø RIVETS @ 8" O.C.
(1) PER PANEL
(IF REQUIRED)
SET IN URETHANE SEALANT

1/4" HWH FASTENERS

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 TRIM

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

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

SILL TRIM

SUPPORT

FLASHING SEALANT TAPE

14 GA. PANEL CLIP

COMMERCIAL & INDUSTRIAL

SILL DETAIL W/ FLAT TRIM

CI-CF-SL-01
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WIPER GASKET

BUTYL SEALANT

1 1/4” HWH FASTENERS
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

BUTYL SEALANT

WIPER GASKET

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

CONTINUOUS BUTYL SEALANT
WITH MARRIAGE BEAD TO
VERTICAL PANEL JOINT
SEALANT

1/4” HWH FASTENERS

14 GA. PANEL CLIP

SILL DETAIL
W/ EXTRUSION

COMMERCIAL & INDUSTRIAL

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14 GA. PANEL CLIP

1/4" HWH FASTENERS

EXTERIOR HEAD TRIM

URETHANE SEALANT

1/8" Ø POP RIVET

INTERIOR HEAD TRIM

CONTINUOUS URETHANE SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT

BUTYL SEALANT

#12 PANCAKE STITCH SCREW

SUPPORT

HEAD TRIM (OPTIONAL)

URETHANE SEALANT

COMMERCIAL & INDUSTRIAL

O.H. DOOR HEAD W/ TWO PIECE TRIM

CI-CF-HD-02

DATE: Jul '19
14 GA. PANEL CLIP
1/4" HWH FASTENERS
WIPER GASKET
EXTERIOR HEAD EXTRUSION
FIELD DRILL 3/8" Ø MIN.
WEEP 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)

COMMERCIAL & INDUSTRIAL
O.H. DOOR HEAD W/ TWO PIECE EXTRUSION
CI–CF–EH–02
DATE: Jul '19
1/4" PANCAKE FASTENER
(NOT TO EXCEED 5'-0" O.C.)

JAMB WRAP TRIM
(OPTIONAL)

BUTYL SEALANT

INTERIOR JAMB TRIM

BUTYL SEALANT

BUTYL TAPE

1/8" Ø POP RIVET

URETHANE SEALANT

1/8" Ø RIVETS
@ 8" O.C.

EXTERIOR JAMB TRIM

SUPPORT
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

EXPOSED SEALANT (NOT BY PANEL MANUFACTURER)

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

BUTYL SEALANT

URETHANE END DAM

URETHANE SEALANT

COMMERCIAL & INDUSTRIAL

TRIM LAPS AT FRAMED OPENING

CI-CF-T-01
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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

3/8" Ø WEEP HOLES

URETHANE END DAM

BUTYL SEALANT

EXPOSED SEALANT (NOT BY PANEL PANEL MANUFACTURER)
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

#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

WORK POINT ELEV
WIPER GASKET
STACK JOINT EXTRUSION

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

14 GA. PANEL CLIP
1/4" HWH FASTENERS

1/2 3/8"

WIPER GASKET
SPICE 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

COMMERCIAL & INDUSTRIAL
STACK JOINT W/ EXTRUSION

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

FLARING 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

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

COMMERCIAL & INDUSTRIAL
EAVE DETAIL – CONVENTIONAL ROOF
CI–CF–VE–01
DATE: Jul ’19
1/4" HWH FASTENERS
CONTINUOUS BUTYL SEALANT WITH MARRIAGE BEAD TO VERTICAL PANEL JOINT SEALANT
FLUTE PLUG STRIP (1) PER PANEL (IF REQUIRED) SET IN URETHANE SEALANT
METAL CLEAT AND FORM OF ATTACHMENT (NOT BY PANEL MANUFACTURER)
ROOF MEMBRANE & PARAPET CAP (NOT BY PANEL MANUFACTURER)
FLASHING SEALANT TAPE
SUPPORT
14 GA. PANEL CLIP
PARAPET BLOCKING (NOT BY PANEL MANUFACTURER)
FASTENER (NOT BY PANEL MANUFACTURER)
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

COMMERCIAL & INDUSTRIAL

CI-CF-EP-02

DATE: Jul '19
(2) BEADS URETHANE SEALANT

FIELD NOTCH HEM(S)
AS REQUIRED

TRIM LAP 2"

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
(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

NOTE: COMMERCIAL & INDUSTRIAL

TRIM END LAP – TWO PIECE JAMB

DATE: Jul '19
(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 – SILL

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

FIELD NOTCH HEM(S)
AS REQUIRED

NOTE: POP RIVET OR STITCH
SCREW AS NECESSARY
2.5" BASE EXTRUSION [9406A]

2.5" STACK JOINT EXTRUSION [9435A]

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" SILL EXTRUSION [9404A]

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

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
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'

**CONSULT FACTORY FOR FASTENER REQUIREMENTS NEEDED TO MEET SPECIFIC LOAD REQUIREMENTS**
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"

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
FASTENING PATTERN 9
WITH FOUR SELF-TAPPING
SCREWS WITH MIN. 20 GA.
NEOPRENE BONDED WASHER

CONSULT FACTORY FOR FASTENER REQUIREMENTS NEEDED TO MEET SPECIFIC LOAD REQUIREMENTS

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

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

EXISTING PENETRANT

WALL SUPPORT

EXPANDABLE FOAM
(NOT BY PANEL MANUFACTURER)

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

EXTERIOR WEATHER SEAL (NEW PENETRANT, EXISTING WALL)

PANEL CUTOUT

COVER PLATE SEALANT LOCATION

EXTERIOR URETHANE JOINT SEALANT (TO TOP OF WALL)

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

BUTYL SEALANT

COVER PLATE SEALANT LOCATION

PANEL CUTOUT

BUTYL SEALANT

SEAL JOINT CAVITY AT TOP & BOTTOM OF CUTOUT
EXPOSED UРЕTHANE SEALANT
3/8" (MIN) FILLET
PENETRATION PERIMETER SEAL
COVER PLATE ASSEMBLY
WALL PANEL

PENETRANT
URETHANE SEALANT
BOTTOM COVER PLATE
RIVET OR SCREW (TYP)

BOTTOM COVER PLATE INSTALLATION
WALL PANEL

PENETRANT
URETHANE SEALANT
BOTTOM COVER PLATE
RIVET OR SCREW (TYP)

TOP COVER PLATE INSTALLATION
WALL PANEL

PENETRANT
EXPOSED UРЕTHANE 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

Expansion foam (not by panel manufacturer)
LEFT COVER PLATE

PANEL CUTOUT

2"

2"

Lap Area

RIGHT COVER PLATE

COVER PLATE

STRUCTURAL

URETHANE SEALANT

WALL PANEL

RIVET OR SCREW (TYP)

LEFT COVER PLATE INSTALLATION

COVER PLATE

URETHANE SEALANT

COVER PLATE

WALL PANEL

PENETRATION PERIMETER SEAL

EXPOSED SEALANT 3/8"

MIN. FILLET

(COVER PLATE ASSEMBLY)

WALL PANEL

RIGHT COVER PLATE INSTALLATION

COVER PLATE

URETHANE SEALANT

COVER PLATE

WALL PANEL

PENETRATION PERIMETER SEAL

EXPOSED SEALANT 3/8"

MIN. FILLET

(NO BY PANEL MANUFACTURER)