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GENERAL AND DOWNSPOUT DETAILS

WS0020PE – PANEL PROFILES

* STANDARD PANEL DEPTHS ARE 2", 2.5", 3", 4"

DM40 – DOUBLE MESA

EXTERIOR SIDE

2"  2 3/16"  3'-4"

HE40 – HEAVY EMBOSSED

EXTERIOR SIDE

3'-4"

HE40A – ADOBE

EXTERIOR SIDE

3'-4"

ST40 – STRIATED

EXTERIOR SIDE

3'-6"
"INSULATED WALL PANEL" ERECTION NOTES

ERECTOR NOTES:
1. Block girts to "LEVEL" position before starting panel erection. Maintain wood blocking (not by NUCOR) until panel to structural fasteners are installed.
2. Align and plumb first wall panel.
3. Shimming of panels may be required. Panels shims by others.
4. Foundation must be square, level, and correct to the out-to-out steel line dimensions.
5. The use of a center punch to slightly dimple the panel face prior to installing the through fasteners is recommended to prevent "walking" of the fasteners. Excessive damage of the panel caused during the installation may void the warranty.
6. *Ensure panel seam caulk is continuous. If no caulk is present or if caulk is not continuous, field apply continuous butyl tube caulk.
7. Erection crew is to clean all wall panels before leaving job site.

* TRIM FASTENER (SEE FASTENER SCHEDULE)
* HIDDEN FASTENER (SEE CHART)
▲ THROUGH FASTENER (SEE CHART)

PANCAKE HEAD FASTENER
SEE CORNER DETAIL FOR FASTENER PLACEMENT

HIDDEN FASTENER W/ WASHER
EAVE MEMBER

FIELD CUT PANEL (IF REQ'D)

INSULATED WALL PANEL

* SIDE LAP
GIRTS

(CFULL PANELS A " NET LAY)

CORNER TRIM

Trim fastener 12" O.C.

BASE MEMBER

LAST REVISION DATE: 02/16/15
BY: AK CHK: EGB
DETAIL NAME IF APPLICABLE
GA2041.DWG

11.9.3
**PRODUCT & ENGINEERING MANUAL**

**GA2001 – SIDE LAP**

**BUTYL—CAULK & PERIMETER MEMBERS**

- Material Type: Insulated Wall Panels
- Prior to Panel Installation:
  - Review insulated wall panel erection manual, installation procedures, and erection drawing details.
  - With all secondary support steel installed and plumbed. Verify wall component alignment and plane flatness.
  - Components should not vary more than 3/16”.
  - Surface should not vary more than 1/4” over a 20’ length in any direction. Shimming or panels may be required. Panel shims and lumber to install shims N.I.C.
  - Alignment at transition areas, such as corners and eave shall be within 1/8” of the theoretical plane to accommodate corner panels and formed flashing.

**Panel Installation Notes:**
- Install panels as indicated on the insulated wall panel erection manual and erection drawing details.
- Do not overtighten fasteners. Over tightening fasteners can cause damage and distortion of the panel face.
- Do not skip attachments at secondary support members. Panels must be attached at each girt line in progression. Securing panels at top and bottom only can cause panels to bow and make it impossible for them to return to their normal position.

**Vertical Joint “Section” & Mid-Span Girt**

- Material Type: Insulated Wall Panels
- Prior to Joint Installation:
  - Review insulated wall panel erection manual, installation procedures, and erection drawing details.
  - With all secondary support steel installed and plumbed. Verify wall component alignment and plane flatness.

**Panel Erection Notes:**
- Ensure caulking is continuous. If no caulking is present or if caulking is not continuous, field apply continuous caulking. Ref. H3151
- Field apply continuous 3/8” min. 1/2” max. bead butyl caulk at vertical joint (continuous 3/8” bead)
GA2002 – SIDE LAP SECTION

<table>
<thead>
<tr>
<th>PANEL THICKNESS</th>
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* ENSURE CAULK IS CONTINUOUS, IF NO CAULK IS PRESENT OR IF CAULK IS NOT CONTINUOUS, FIELD APPLY CONTINUOUS CAULK. MK# H3151

EXPOSED GIRT DETAIL
VERTICAL JOINT @ MID-SPAN GIRT

INSULATED WALL PANELS
GA2042 – HORIZONTAL JOINT

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UNTIL WALL PANELS ARE INSTALLED, POP RIVETS ARE TO BE USED FOR TEMPORARY INSTALLATION OF STACKING TRIM.

* ENSURE CAULK IS CONTINUOUS, IF NO CAULK IS PRESENT OR IF CAULK IS NOT CONTINUOUS, FIELD APPLY CONTINUOUS CAULK H3151

BUTYL CAULK MK# H3151 (CONTINUOUS 3/8” BEAD) MARRY TO CAULK AT PANEL BASE

(2) HIDDEN JOINT FASTENERS w/WASHER MK# WC-01 TYPICAL

H1020 @ 1’-0" O.C.

SUPPORT ANGLE MAR02 L.L.V.

1/8"

GIRT

BUTYL CAULK MK# H3151 (CONTINUOUS) ABOVE AND BELOW STACKING TRIM

ERECTOR NOTE: FIELD DRILL/NOTCH SUPPORT ANGLE AT GIRT LAP BOLTS AS REQUIRED

* FIELD OR FACTORY APPLIED BUTYL CAULK AT VERTICAL JOINT (CONTINUOUS 3/8” BEAD)

STACKING TRIM STI____

PIGTAIL BUTYL CAULK TO SIDE JOINT CAULK

NO CAULK OR SEALANT BEHIND STACK COVER TRIM TO ALLOW MOISTURE TO WEEP THROUGH

STACK COVER TRIM SCI01

H1100 FASTENER @ 12” O.C.

GA2042 – HORIZONTAL JOINT

INSULATED WALL PANELS

PANEL SHIMMING MAY BE REQUIRED. PANEL SHIMS BY OTHERS

GA2042

11.9.6
**GA2130 – STANDARD DOWNSPOUT WITH “S”**

**ERECTOR NOTES:**

1. Mitering of the "S" will be required at slopes over 4:12 for proper line up with the downsout.

2. If project contract specifies "S" shapes at the bottom of the downsout in lieu of elbows, see detail GA0105.

3. Locate one downsout strap at every "S", elbow and downsout splice.

---

**MARK OPENING LOCATION USING A DOWNSPOUT TO SIZE OVAL AREA. NEXT, CUT ALONG THE DASHED LINES. BEND TABS DOWN ALONG THE SOLID LINES AND ATTACH DOWNSPOUT "S" TO GUTTER TABS WITH (4) H1060 FASTENERS.**

**STANDARD GUTTER AND DOWNSPOUT DETAIL**

REFERENCE GUTTER AND DOWNSPOUT SCHEDULE FOR DOWNSPOUT MARK NUMBERS
GA2135 – CONNECTOR BOX

USE (4) POP RIVETS MK. H1100 AT ALL ELBOWS AND DOWNSPOUT CONNECTIONS U.N.O.

ERECTOR NOTES:
1. IT IS INTENDED FOR THE LEG OF THE CONNECTOR BOX, ADJACENT TO THE WALL, TO BE INSTALLED IN A PLUMB POSITION. FIELD MITERING OF THE TOP OF THE CONNECTOR BOX MAY BE REQUIRED TO ACHIEVE THIS.

2. IF PROJECT CONTRACT SPECIFIES "S" SHAPES AT THE BOTTOM OF THE DOWNSPOUT IN LIEU OF ELBOWS, SEE DETAIL GA2105

3. LOCATE ONE DOWNSPOUT STRAP AT EVERY ELBOW AND DOWNSPOUT SPlice.

GUTTER & DOWNSPOUT DETAIL WITH CONNECTOR BOX

REFERENCE GUTTER AND DOWNSPOUT SCHEDULE FOR DOWNSPOUT MARK NUMBERS
USE (4) POP RIVETS
MK. H1100 AT ALL
ELBOW AND DOWNSPOUT
CONNECTIONS U.N.O.

ERECTOR NOTES:
1. IF PROJECT
CONTRACT SPECIFIES
"S" SHAPES AT THE
BOTTOM OF THE
DOWNSPOUT IN LIEU
OF ELBOWS, SEE
DETAIL GA2105.

2. LOCATE ONE
DOWNSPOUT STRAP AT
EVERY ELBOW AND
DOWNSPOUT SPLICE.

USE TEMPLATE,
MK. TEB02 TO SIZE
GUTTER OPENING

GUTTER

COLLECTOR BOX
MK. TCB01
ATTACH WITH
(12) H1100
POP RIVETS

FULL
SECTION

MALE END

FEMALE END

TYPICAL AT
ALL SPLICES

FULL OR
PARTIAL SECTION
AS REQUIRED

ELBOW IF
REQUIRED
MK. H2330

DOWNSPOUT STRAP
MK. DPA01 (SCREW STRAP
TO WALL USING (1) H1060
FASTENER BEFORE
INSERTING DOWNSPOUT)
FIELD BEND STRAP AND
FASTEN TO DOWNSPOUT
WITH (2) H1060 FASTENERS

GUTTER & DOWNSPOUT DETAIL WITH COLLECTOR BOX
REFERENCE GUTTER AND DOWNSPOUT SCHEDULE FOR DOWNSPOUT MARK NUMBERS
GA2170 – STANDARD DOWNSPOUT @ EAVE OVERHANG

MARK OPENING LOCATION USING A DOWNSPOUT TO SIZE OVAL AREA. NEXT, CUT ALONG THE DASHED LINES. BEND TABS DOWN ALONG THE SOLID LINES. ATTACH ELBOW TO GUTTER TABS WITH (4) H1060 FASTENERS.

NOTE: THIS TO BE SEAM SIDE ON ELBOWS

ELBOW MK. H2330

DOWNSPOUT STRAP MK. DPA01 (SCREW STRAP TO WALL USING (1) H1060 FASTENER BEFORE INSERTING DOWNSPOUT) FIELD BEND STRAP AND FASTEN TO DOWNSPOUT WITH (2) H1060 FASTENERS

ERECTOR NOTES:
1. IF PROJECT CONTRACT SPECIFIES “S” SHAPES AT THE BOTTOM OF THE DOWNSPOUT IN LIEU OF ELBOWS, SEE DETAIL GA2105.
2. LOCATE ONE DOWNSPOUT STRAP AT EVERY ELBOW AND DOWNSPOUT SPlice.

GUTTER AND DOWNSPOUT DETAIL AT OVERHANG

REFERENCE GUTTER AND DOWNSPOUT SCHEDULE FOR DOWNSPOUT MARK NUMBERS

LAST REVISION
DATE: 12/04/17
BY: KMC CHK: AES

DETAIL NAME IF APPLICABLE
GA2170.DWG

11.9.10
BASE CONDITION DETAILS
STANDARD FINISHED FLOOR DETAILS
GB2300 – BASE SUPPORT ANGLE W/ TRIM

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* ENSURE CAULK IS CONTINUOUS, IF NO CAULK IS PRESENT OR IF CAULK IS NOT CONTINUOUS, FIELD APPLY CONTINUOUS CAULK MK# H3151

* FIELD OR FACTORY APPLIED BUTYL CAULK AT VERTICAL JOINT (CONTINUOUS 3/8" BEAD)

CONTINUOUS STRUCTURAL SUPPORT MAR02 L.L.V.
APPLY A CONTINUOUS BEAD OF BUTYL CAULK MK# H3151 AROUND THE PERIMETER SUPPORT MEMBERS AND THEN MARRY HORIZONTAL CAULK TO PANEL CAULK

BASE TRIM DETAIL
BASE TRIM WITH PANEL SUPPORT
SEE INSULATED WALL PANEL SHEETING ERECTION NOTES FOR PANEL FASTENER LOCATIONS.

Note: Base Angle standard. Base Channel available upon request.
GB2320 – BASE SUPPORT ANGLE W/ TRIM @ < 4’ CURB WALL

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* FIELD OR FACTORY APPLIED BUTYL CAULK AT VERTICAL JOINT (CONTINUOUS 3/8" BEAD)

INTERIOR FACE

CONTINUOUS STRUCTURAL SUPPORT MAR02 L.L.V.

APPLY A CONTINUOUS BEAD OF BUTYL CAULK MK# H3151 AROUND THE PERIMETER SUPPORT MEMBERS AND THEN MARRY HORIZONTAL CAULK TO PANEL CAULK

BASE TRIM DETAIL @ CURB WALL

BASE TRIM WITH PANEL SUPPORT @ CURB WALL < 4’-0” TALL
SEE INSULATED WALL PANEL SHEETING ERECTION NOTES FOR PANEL FASTENER LOCATIONS.

Note: Base Angle standard. Base Channel available upon request.
STANDARD ABOVE FINISHED FLOOR DETAILS
GB2321 – BASE SUPPORT ANGLE W/ TRIM AFF > 4’

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* FIELD OR FACTORY APPLIED BUTYL CAULK AT VERTICAL JOINT (CONTINUOUS 3/8” BEAD)

INTERIOR FACE
CONTINUOUS STRUCTURAL SUPPORT MAR02 L.L.V.
APPLY A CONTINUOUS BEAD OF BUTYL CAULK MK# H3151 AROUND THE PERIMETER SUPPORT MEMBERS AND THEN MARRY HORIZONTAL CAULK TO PANEL CAULK

BASE TRIM DETAIL @ CONCRETE WALL
BASE TRIM WITH PANEL SUPPORT @ CURB WALL > 4’-0” TALL
SEE INSULATED WALL PANEL SHEETING ERECTION NOTES FOR PANEL FASTENER LOCATIONS.

Note: Base Angle standard. Base Channel available upon request.
STANDARD CONCRETE NOTCH DETAILS
GB2330 – BASE TRIM AT NOTCH

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NOTE: PANEL SCREWS MUST ENGAGE THE BASE ANGLE.
FIELD NOTCHING OF THE ANGLE MAY BE REQUIRED AT THE
COLUMNS AND CORNERS.

INTERIOR FACE

APPLY A CONTINUOUS 3/8” BEAD OF BUTYL CAULK MK H3151 AROUND THE PERIMETER
SUPPORT MEMBERS AND THEN MARRY HORIZONTAL CAULK TO PANEL CAULK
CONTINUOUS BASE ANGLE MK MAR02 (L.L.V). MUST BE SEALED TO SLAB (SEALANT BY OTHERS)
FASTEN AT 3'-0" O.C. MAX.
(FASTENERS NOT BY NUCOR)

BASE TRIM AT NOTCH
SEE INSULATED WALL PANEL SHEETING ERECTION NOTES
FOR PANEL FASTENER LOCATIONS.

GB2330

Note: Base Angle standard. Base Channel available upon request.
NOTE: THE USE OF A CENTER PUNCH TO SLIGHTLY DIMPLE THE PANEL FACE PRIOR TO INSTALLING THE THROUGH FASTENERS IS RECOMMENDED TO PREVENT "WALKING" OF THE FASTENERS. EXCESSIVE DAMAGE OF THE PANEL FINISH CAUSED DURING INSTALLATION MAY VOID THE PANEL FINISH WARRANTY.

FIELD CUT PANEL AT CORNER. SEE PANEL LAYOUT

OUTSIDE CORNER DETAIL
INSULATED WALL PANEL

GC2021
GC2051 – INSIDE CORNER

NOTE: THE USE OF A CENTER PUNCH TO SLIGHTLY DIMPLE THE PANEL FACE PRIOR TO INSTALLING THE THROUGH FASTENERS IS RECOMMENDED TO PREVENT "WALKING" OF THE FASTENERS. EXCESSIVE DAMAGE OF THE PANEL FINISH CAUSED DURING INSTALLATION MAY VOID THE PANEL FINISH WARRANTY.

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<tr>
<td>4&quot;</td>
<td>#14 X 5 SDPH</td>
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FIELD CUT PANEL AT CORNER. SEE PANEL LAYOUT

INSULATED WALL PANEL

APPLY A CONTINUOUS BEAD OF BUTYL TUBE CAULK MK# H3151 (TYP)

LOOSE INSULATION AS REQUIRED (N.I.C.)

STRUCTURAL ANGLE MAP02

(2) H1220 FASTENERS PER SUPPORT

APPLY A CONTINUOUS BEAD OF BUTYL TUBE CAULK MK# H3151 (TYP)

THROUGH FASTENER 2’-0” O.C. (SEE CHART & NOTE)

INSIDE CORNER DETAIL

INSULATED WALL PANEL

GC2051

GC2051.DWG

LAST REVISION
DATE: 02/16/15
BY: AK CHK: EGB

DETAIL NAME IF APPLICABLE

11.9.16
### GC2081 – INSIDE TRANSITION CORNER AT MASONRY OR EXISTING BUILDING

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**NOTE:** The use of a center punch to slightly dimple the panel face prior to installing the through fasteners is recommended to prevent "walking" of the fasteners. Excessive damage of the panel finish caused during installation may void the panel finish warranty.

**FIELD CUT PANEL AT CORNER. SEE PANEL LAYOUT**

<table>
<thead>
<tr>
<th><strong>INSIDE CORNER TRANSITION DETAIL</strong></th>
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<tr>
<td><strong>INSULATED WALL PANEL © MASONRY OR EXISTING BLDG.</strong></td>
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</tbody>
</table>

![Diagram of inside corner transition detail]

- Apply a continuous bead of butyl tube caulk MK# H3151 (typ).
- Through fastener (see chart & note) 2’-0" O.C.
- Struct. angle MAR02
- Zee or Cee girt
- Insulated wall panel
- (2) H1220 fasteners per support
- Apply a continuous bead of butyl tube caulk MK# H3151 (typ)
- Pop rivet MK. H1100 @ 12" O.C.
- Termination TRIM TTI
- Apply a continuous bead of poly tube caulk MK# H3152

**GC2081**

---

**LAST REVISION**
**DATE:** 02/16/15
**BY:** AK  CHK: EGB

**DETAIL NAME IF APPLICABLE**
**GC2081.DWG**

**11.9.17**
FRAMED OPENING DETAILS
GD2020 – JAMB TRIM – CF JAMB

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**NOTE:** The use of a center punch to slightly dimple the panel face prior to installing the through fasteners is recommended to prevent "walking" of the fasteners. Excessive damage of the panel finish caused during installation may void the panel finish warranty.

H1100 POP RIVET
AT 2'-0" O.C.

FRAMED OPENING

THROUGH FASTENER AT 2'-0"
O.C. (SEE CHART & NOTE)

APPLY A CONTINUOUS BEAD OF
H3151 BUTYL TUBE CAULK (TYP)

JAMB

INSULATED WALL PANEL

H1100 POP RIVET
AT 1'-0" O.C.

FRAMED OPENING TRIM
MK. JTI__

APPLY A CONTINUOUS BEAD OF
H3151 BUTYL TUBE CAULK (TYP)

H1100 POP RIVET
AT 2'-0" O.C.

APPLY A CONTINUOUS BEAD OF
H3151 BUTYL TUBE CAULK (TYP)

OPTIONAL COVER TRIM IF ORDERED VIA CONTRACT. IF SUPPLIED, REFERENCE ERECTION DRAWINGS FOR PART NUMBER.

| CCA___ (USE AT 8" CEE) |
| CCB___ (USE AT 10" CEE) |
| CCC___ (USE AT 12" CEE) |
| CSA___ (USE AT 8" STRUCTURAL CEE) |
| CSC___ (USE AT 12" STRUCTURAL CEE) |

JAMB DETAIL

INSULATED WALL PANEL AT JAMB
PRE-DRILLING WILL BE REQUIRED FOR POP RIVETS

GD2020
GD2021 – JAMB TRIM – HR JAMB

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NOTE: THE USE OF A CENTER PUNCH TO SLIGHTLY DIMPLE THE PANEL FACE PRIOR TO INSTALLING THE THROUGH FASTENERS IS RECOMMENDED TO PREVENT "WALKING" OF THE FASTENERS. EXCESSIVE DAMAGE OF THE PANEL FINISH CAUSED DURING INSTALLATION MAY VOID THE PANEL FINISH WARRANTY.

HOT ROLLED JAMB DETAIL

INSULATED WALL PANEL AT HR JAMB
PRE-DRILLING WILL BE REQUIRED FOR POP RIVETS

GD2021
GD2040 – HEAD TRIM – CF CEE

NOTE: THE USE OF A CENTER PUNCH TO SLIGHTLY DIMPLE THE PANEL FACE PRIOR TO INSTALLING THE THROUGH FASTENERS IS RECOMMENDED TO PREVENT "WALKING" OF THE FASTENERS. EXCESSIVE DAMAGE OF THE PANEL FINISH CAUSED DURING INSTALLATION MAY VOID THE PANEL FINISH WARRANTY.

* ENSURE Caulk is continuous. If no caulk is present or if caulk is not continuous, field apply continuous caulk W/ H3151.

DETAIL NAME IF APPLICABLE

GD2040.DWG

SECTION AT HEADER

INSULATED WALL PANELS
PRE-DRILLING WILL BE REQUIRED FOR POP RIVETS

GD2040
GD2041 – HEAD TRIM HR CEE

NOTE: THE USE OF A CENTER PUNCH TO SLIGHTLY DIMPLE THE PANEL FACE PRIOR TO INSTALLING THE THROUGH FASTENERS IS RECOMMENDED TO PREVENT "WALKING" OF THE FASTENERS. EXCESSIVE DAMAGE OF THE PANEL FINISH CAUSED DURING INSTALLATION MAY VOID THE PANEL FINISH WARRANTY.

* ENSURE CAULK IS CONTINUOUS, IF NO CAULK IS PRESENT OR IF CAULK IS NOT CONTINUOUS, FIELD APPLY CONTINUOUS CAULK WITH H3151.

SECTION AT HOT ROLLED HEADER

INSULATED WALL PANELS
PRE-DRILLING WILL BE REQUIRED

<table>
<thead>
<tr>
<th>PANEL THICKNESS</th>
<th>THROUGH FASTENER</th>
<th>HIDDEN FASTENER</th>
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<tbody>
<tr>
<td>2&quot;</td>
<td>1/4 X 3 SDPH</td>
<td>1/4 X 3 SDPH</td>
</tr>
<tr>
<td>2 1/2&quot;</td>
<td>1/4 X 4 SDPH</td>
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<tr>
<td>4&quot;</td>
<td>1/4 X 5 SDPH</td>
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GD2041.DWG
GD2070 – SILL TRIM

NOTE: THE USE OF A CENTER PUNCH TO SLIGHTLY DIMPLE THE PANEL FACE PRIOR TO INSTALLING THE THROUGH FASTENERS IS RECOMMENDED TO PREVENT "WALKING" OF THE FASTENERS. EXCESSIVE DAMAGE OF THE PANEL FINISH CAUSED DURING INSTALLATION MAY VOID THE PANEL FINISH WARRANTY.

APPLY A CONTINUOUS 1/8" BEAD OF H3151 BUTYL TUBE CAULK (TYP)

INSULATED WALL PANEL

MID-SPAN OF PANEL

SECTION AT SILL

INSULATED WALL PANEL
PRE-DRILLING WILL BE REQUIRED FOR POP RIVETS

GD2070.DWG

H1100 POP RIVET AT 2'-0" O.C.
H1100 POP RIVET AT 1'-0" O.C.

(1) THROUGH FASTENERS AT MIDSPAN OF EACH PANEL
(SEE SOPH CHART & NOTE)

SILL

SIDE JOINT OF PANEL

Framed Opening Trim

MK. J1.

COVER TRIM (OPTIONAL)

COVER TRIM (OPTIONAL)

* ENSURE CAULK IS CONTINUOUS. IF NO CAULK IS PRESENT OR IF CAULK IS NOT CONTINUOUS, FIELD APPLY CONTINUOUS CAULK MK# H3151.

* FIELD OR FACTORY APPLIED BUTYL CAULK AT VERTICAL JOINT. 1/8" CONTINUOUS BEAD

APPLY A CONTINUOUS 1/8" BEAD OF H3151 BUTYL TUBE CAULK (TYP)

INSULATED WALL PANEL

H1100 POP RIVET AT 2'-0" O.C.
H1100 POP RIVET AT 1'-0" O.C.

APPLY A CONTINUOUS 1/8" BEAD OF H3151 BUTYL TUBE CAULK (TYP)

SILL

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