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GENERAL INFORMATION

1. Re-working, cutting, reaming, shimming and fitting of structural connections may be required to match actual field conditions to make the tie-in structurally and aesthetically adequate.

2. Some roof details shown in this section are pictured with roof purlins. Some of the details may also be used in conjunction with roof joists.

3. Roof to wall tie-in details may require fieldwork to ensure weather tight conditions.

4. Nucor is not responsible for closures, flashing, mastic, fasteners, or any other accessories that may be required to adequately weatherproof existing wall and/or roof panels.

IMPORTANT NOTE:

In the case where a Nucor building is tying into an existing building, it is possible that the Nucor building will impose additional loads onto the existing structure. The Project Engineer of Record (not the metal building supplier) must investigate the existing building to insure it remains structurally adequate for strength and stability considerations with the additional loads. This may also be performed by a design professional retained by the building owner. In a case where the existing building is a Nucor structure, Nucor can provide this investigation via special request from the Builder for an additional charge. Nucor shall not be construed as the Project Engineer of Record on any project, and shall not be held responsible for the effects or the design of existing structures. Water runoff from the existing building may invalidate the Galvalume warranty on the new roof. Also, tie-in flashings are not by Nucor.
SECONDARY FRAMING

BJ0030 – PURLIN CONNECTION TO EXISTING NON-NUCOR BUILDING (W/ EXISTING FRAME)

PURSLIN CONNECTION @ EXISTING BUILDING

EXISTING PURSLIN W/ EXISTING FRAME
REFERENCE DETECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

BJ0030.DWG 4.7.3
BJ0040 – PURLIN CONNECTION TO EXISTING NON-NUCOR BUILDING (W/ NEW FRAME)

Transition Member Lap Detail

Transition Member: PTM01 @ 8" & 10" Purlin or WS, PTM02 @ 12" Purlin

Field Drill PTM01 or PTM02 for Bolted Connection, Use (4) 1/2" x 2" A325 Bolts M20/8.8/7

The number represents both the intermediate purlins and the reverse side purlin. Since the parts for these connections are identical.

Section A

Purlin Connection @ Existing Building

Existing Purlin w/ Long Frame

Reference Director Note for Typical Washer Requirements

BJ0040
NOTE: THE NEW HIGH EAVE OR RIDGE JOIST MUST BE HELD 1'−4 DOWN FROM THE HIGH EAVE STEEL LINE OR THE RIDGE IN ORDER FOR THE CFR SYSTEM TO WORK PROPERLY. THE EXISTING JOIST MAY NEED TO BE FIELD CUT TO ALLOW FOR THIS CONDITION. FIELD WORK OF SOME EXISTING JOISTS MAY BE REQUIRED TO AVOID INTERFERENCE WITH NEW JOISTS.

NUCOR STEEL LINE
FACE OF EXISTING BUILDING

NEW NUCOR JOIST

NUCOR STEEL LINE
FACE OF EXISTING BUILDING

FIELD WORK EXISTING RAFTER AS REQUIRED
NEW NUCOR JOIST

EXISTING JOIST
EXISTING FRAME
ANALYSIS OF EXISTING FRAME TO SUPPORT NEW LOADING (NOT BY NUCOR)

2" 1/4" REGARDLESS OF 2" 1/4" BOLTED CONDITION

EXISTING JOIST− MAY NEED TO BE CUT BACK TO CENTERLINE OF FRAME TO AVOID NEW JOISTS
BT0020PE – OPTIONAL JOIST CONNECTION TO NON-NUCOR BUILDING (NEW FRAME)
BT0030PE – STANDARD JOIST CONNECTION AT EXPANDABLE ENDWALL (FULL LOAD FRAME)
BJ0100 – CEE CHANNEL TO EXISTING @ HIGH SIDE OF BUILDING

(4) 1/2” x 2” A325 BOLTS H0603/NUTS H0300

FIELD DRILL (IF REQUIRED) FOR (2) 1/2” BOLTS

NEW NUCOR CEE CHANNEL

EXISTING CEE CHANNEL

CLIP PTC06

1/4” 1/4”

2” 2”

CEE CHANNEL CONN AT EXISTING BUILDING

NUCOR EXISTING CEE CHANNEL @ HIGH SIDE OF BUILDING
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

BJ0100
(3/32" X 1/2" TAPE MASTIC IS PROVIDED FOR WALL PANEL SIDELAPS AT THIS CONDITION DUE TO THE POTENTIAL OF SNOW PILING UP AGAINST THE PANELS. THE MASTIC SHOULD BE INSTALLED FROM THE BOTTOM OF THE WALL PANEL ELEVATION TO 10'-0" ABOVE THE LOWER BUILDING ROOF LINE.)
BT0050PE – OPTIONAL BASE CONDITION AT MASONRY/CONCRETE (NON-NUCOR BUILDING TIE-IN)

(3/32” X 1/2” TAPE MASTIC IS PROVIDED FOR WALL PANEL SIDELAPS AT THIS CONDITION DUE TO THE POTENTIAL OF SNOW PILING UP AGAINST THE PANELS. THE MASTIC SHOULD BE INSTALLED FROM THE BOTTOM OF THE WALL PANEL ELEVATION TO 10’-0’ ABOVE THE LOWER BUILDING ROOF LINE.)

NUCOR “CLASSIC WALL™
NUCOR “ACCENT PANEL™
OR NUCOR “RCT™

WALL DELETION HEIGHT AS SPECIFIED ON THE ORDER DOCUMENTS

EXISTING BUILDING OR STRUCTURE (NOT BY NUCOR)

1-1/4” STEEL LINE

BASE FLASHING – 26 GA. (COLOR TO MATCH WALL PANEL)

BASE ANGLE (SHORT LEG VERTICAL)

POWDER – ACTUATED PIN, CONCRETE NAIL, OR EQUIVALENT AT 3’-0” O.C. (NOT BY NUCOR)

MASONRY OR CONCRETE

FLASH NOT BY NUCOR
(3/32" x 1/2" TAPE MASTIC IS PROVIDED FOR WALL PANEL SIDELAPS AT THIS CONDITION DUE TO THE POTENTIAL OF SNOW PILING UP AGAINST THE PANELS. THE MASTIC SHOULD BE INSTALLED FROM THE BOTTOM OF THE WALL PANEL ELEVATION TO 10'-0" ABOVE THE LOWER BUILDING ROOF LINE.)

NUCOR "CLASSIC WALL™
NUCOR "ACCENT PANEL™
OR NUCOR "RC™"

WALL DELETION HEIGHT AS SPECIFIED ON THE ORDER DOCUMENTS

EXISTING BUILDING OR STRUCTURE (NOT BY NUCOR)

GIRT

BASE FLASHING – 26 GA.
(COLOR TO MATCH WALL PANEL)

FLASH NOT BY NUCOR
ROOF SHEETING: NUCOR CLASSIC ROOF™

BT0070PE – NUCOR CLASSIC ROOF™ PANEL TO EXISTING ROOF PANEL AT RIDGE

- RIDGE LINE
- 1’-4"
- 5 1/4"
- CONTINUOUS 3/4” TAPE MASTIC (TYPICAL)
- DIE-FORMED RIDGE CAP
- ATTACHMENT TO EXISTING (NOT BY NUCOR)
- EXISTING ROOF PANEL
- RIDGE PURLIN
- NEW NUCOR BUILDING
- EXISTING BUILDING
- EXISTING PURLIN
BT0080PE – NUCOR CLASSIC ROOF™ PANEL TO EXISTING ROOF PANEL AT RAKE

STEEL LINE / FACE OF EXISTING

ROOF TRANSITION FLASH

NUCOR “CLASSIC ROOF”™

TAPE MASTIC

EXISTING ROOF PANEL

NEW NUCOR PURLIN

EXISTING PURLIN

NEW NUCOR BUILDING

EXISTING NON-NUCOR BUILDING
BT0090PE – NUCOR CLASSIC ROOF™ PANEL TO EXISTING ROOF PANEL AT ROOF STEP

DETAIL NAME IF APPLICABLE

BT0090PE.DWG
(3/32" X 1/2" TAPE MASTIC IS PROVIDED FOR WALL PANEL SIDELAPS AT THIS CONDITION DUE TO THE POTENTIAL OF SNOW PILING UP AGAINST THE PANELS. THE MASTIC SHOULD BE INSTALLED FROM THE BOTTOM OF THE WALL PANEL ELEVATION TO 10’-0 ABOVE THE LOWER BUILDING ROOF LINE.)

- PANEL CLOSURE AND MASTIC
- NOT BY NUCOR AT NON-NUCOR TIE-INS
- RAKE PARAPET FLASH
- TAPE MASTIC
- NUCOR "CLASSIC ROOF™"
- STEEL LINE / FACE OF EXISTING
- PURLIN
- NEW BUILDING LENGTH
BT0110PE – NUCOR CLASSIC ROOF™ PANEL RAKE PARAPET TO MASONRY OR CONCRETE

NEW BUILDING LENGTH

COUNTER-FLASH IN REGLET NOT BY NUCOR

ATTACHMENT NOT BY NUCOR

RAKE PARAPET FLASH

TAPE MASTIC

NUCOR "CLASSIC ROOF™"

EXISTING MASONRY OR CONCRETE WALL

FACE OF MASONRY OR CONCRETE WALL

PURLIN
BT0120PE – NUCOR CLASSIC ROOF™ PANEL HIGH EAVE PARAPET TO EXISTING BUILDING

(3/32" X 1/2" TAPE MASTIC IS PROVIDED FOR WALL PANEL SIDELAPS AT THIS CONDITION DUE TO THE POTENTIAL OF SNOW PILING UP AGAINST THE PANELS. THE MASTIC SHOULD BE INSTALLED FROM THE BOTTOM OF THE WALL PANEL ELEVATION TO 10’-0 ABOVE THE LOWER BUILDING ROOF LINE.)

EXISTING WALL PANEL

STRUCRAL SUPPORT (NOT BY NUCOR)

8 1/4"

HIGH EAVE HEIGHT

HIGH EAVE FLASH

5" END OF PANEL

NUCOR "CLASSIC ROOF™"

HIGH SIDE PURLIN

STEEL LINE / FACE OF EXISTING BUILDING

1'-4" PURLIN WEB

NEW BUILDING WIDTH
BT0130PE – NUCOR CLASSIC ROOF™ PANEL RAKE PARAPET TO MASONRY OR CONCRETE

- Existing Masonry or Concrete Wall
- Counter-Flash in Reglet Not by Nucor
- Attachment Not by Nucor
- High Eave Flashing
- Panel Closure w/ 3/4" Tape Mastic Top & Bottom
- Nucor "Classic Roof"™
- High Side Purlin
- Insulation Blocking / Fastener Not by Nucor

Face of Existing Masonry or Concrete Wall

5" END OF PANEL

1'-4" PURLIN WEB

NEW BUILDING WIDTH

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

DETAIL NAME IF APPLICABLE

BT0130PE.DWG 4.7.19
ROOF SHEETING: NUCOR CFR™ ROOF

BT0140PE – NUCOR CFR™ ROOF PANEL TO EXISTING BUILDING AT RIDGE

1. Refer to “Section 11.6” of the Product and Engineering Manual for all standard CFR Expansion Joint Details.
1. Refer to “Section 11.7” of the Product and Engineering Manual for all standard VR16-II Expansion Joint Details.
BT0150PE – STANDARD DIMENSIONS FOR ROOF TIE-IN TO EXISTING BUILDINGS

MINIMUM ROOF TIE-IN DIMENSIONS

<table>
<thead>
<tr>
<th>CONDITION</th>
<th>CLASSIC</th>
<th>CFR</th>
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<tbody>
<tr>
<td>A</td>
<td>1'-1&quot;</td>
<td>1'-3&quot;</td>
</tr>
<tr>
<td>B</td>
<td>1'-1&quot;</td>
<td>1'-10&quot;</td>
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<tr>
<td>C</td>
<td>10&quot;</td>
<td>1'-6&quot;</td>
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<td>E</td>
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