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Cable/Rod Bracing Typical End Connections

BR01/AA

CABLE/ROD BRACING TYPICAL END CONNECTIONS

CABLE BRACING
AT RAFTER WEB

ROD BRACING
AT COLUMN/RAFTER WEB

CABLE/ROD w/BRC___
AT UPPER SHOP WELDED PLATE
SIMILAR AT COLUMN BASE AND COLUMN FLANGE

Download the DWG file by clicking here.

To Section Index

Issued 12/22/2016
Section at Column/Rafter
Interior Frame w/ Adjacent Bay Bracing
BR01A/AA

Download the DWG file by clicking here.
Rod Bracing Assembly

BR01W/AA

Rod Bracing Assembly

Download the DWG file by clicking here.
40’ or Greater Rod Assembly Detail w/ Coupling Nut
Web to Web Rod Assembly
BR02/AA

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<td>BR_-</td>
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<tr>
<td>LOWER ROD</td>
<td>BR_-</td>
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<table>
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<tr>
<th>ROD DIAMETER</th>
<th>COUPLING NUT</th>
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<tr>
<td>5/8” (BR5)</td>
<td>CPN5</td>
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<tr>
<td>3/4” (BR6)</td>
<td>CPN6</td>
</tr>
<tr>
<td>7/8” (BR7)</td>
<td>CPN7</td>
</tr>
<tr>
<td>1” (BR8)</td>
<td>CPN8</td>
</tr>
<tr>
<td>1 1/8” (BR9)</td>
<td>CPN9</td>
</tr>
<tr>
<td>1 1/4” (BR10)</td>
<td>CPN10</td>
</tr>
<tr>
<td>1 3/8” (BR11)</td>
<td>CPN11</td>
</tr>
<tr>
<td>1 1/2” (BR12)</td>
<td>CPN12</td>
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2. ATTACH THE UPPER ROD TO THE LOWER ROD ASSEMBLY, UNTIL THE ROD IS FULLY SEATED IN THE REMAINING 1/2 OF THE COUPLING NUT. REFER TO DIMENSIONS ABOVE.

3. INSTALL THE ROD ASSEMBLY AT COLUMN/RAFTER WEB.

Download the DWG file by clicking here.
Field Slotting Girts For Cross Bracing

BR03/AA

ON BUILDINGS WITH INSET OR FLUSH GIRTS, THE HORIZONTAL WEB OF THE GIRT OR GIRTS IN A BRACED BAY, MUST HAVE TO BE SLOTTED IN ORDER FOR THE ROD BRACE TO PULL IN A STRAIGHT LINE FROM THE TOP OF ONE COLUMN TO THE BOTTOM OF THE NEXT COLUMN. INSTALLING THE BRACING EITHER TO THE INSIDE OR OUTSIDE OF THE GIRTS, TAKES THE BRACING OUT OF A STRAIGHT LINE PULL. THIS DOES NOT ALLOW THE BRACING TO FUNCTION PROPERLY AND IS AN UNACCEPTABLE ELECTION PROCEDURE. MOVING THE HOLES IN OR OUT ON THE COLUMN TO ACHIEVE A STRAIGHT LINE PULL IS ALSO UNACCEPTABLE.

SLOTING THE WEB OF THE GIRT TO ACHIEVE THIS STRAIGHT LINE PULL IS THE ONLY ACCEPTABLE METHOD; TO MARK THE HOLE LOCATION THE FOLLOWING METHOD MAY BE USED.

1. INSTALL A NYLON STRING IN THE PROPER HOLES AT THE TOP OF ONE COLUMN TO THE BOTTOM OF THE NEXT COLUMN, RUNNING THE NYLON STRING TO THE INSIDE OR OUTSIDE OF THE GIRTS.
2. TIGHTEN THE NYLON STRING LINE SO THERE IS NO SLACK.
3. WHERE THE NYLON STRING LINE CROSSES THE WEB OF THE GIRTS, MARK TWO INCHES ON EITHER SIDE OF THIS POINT.
4. USING A SQUARE, MAKE TWO PARALLEL LINES FROM THESE TWO MARKS ON THE WEB OF THE GIRTS.
5. AT THE COLUMN, DETERMINE THE MEASUREMENT FROM OUTSIDE GIRT LINE TO CENTERLINE OF ROD BRACE HOLE, UTILIZE THIS MEASUREMENT AS THE CENTERLINE OF A 1" X 4" SLOT TO BE MADE BETWEEN THE TWO PARALLEL LINES MARKED ON THE WEB OF THE GIRTS.
6. AFTER ALL GIRTS HAVE BEEN MARKED AND SLOTTED, INSTALL CABLE OR ROD BRACING THROUGH THE SLOTS, THROUGH THE SPACE HOLES IN THE COLUMNS, AND TIGHTEN.
7. VISUALLY CHECK TO SEE THAT THE BRACING IS NOT TOUCHING THE GIRTS AT THE SLOTS. IF IT IS TOUCHING, TIGHTEN THE SLOTS AS NECESSARY.
8. TIGHTEN BRACING AS NECESSARY TO PLUMB COLUMNS.

Download the DWG file by clicking here.

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Issued 9/28/2016
WALL FRAMING ELEVATION AT DIAGONAL BRACING BRACKET

NOTE: THE WALL FRAMING ELEVATION ABOVE IS FOR EXAMPLE ONLY. SEE BUILDING ERECTION DRAWINGS FOR CORRECT FRAMING ELEVATION.

Download the DWG file by clicking here.

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Issued 12/22/2016
Typical Roof Plan w/ Bracing Layout

BR06/AA

Download the DWG file by clicking here.
Section Through Rafter at Purlin Brace
Left
BR07/AA

Download the DWG file by clicking here.
Section Through Rafter at Purlin Brace
Right
BR08/AA

SAFETY PRECAUTION:
EACH WORKER SHOULD BE TRAINED
TO USE THE SAFEST AND MOST
PRODUCTIVE ERECTION TECHNIQUES.

1/2X1 1/4 A325T/
1/2 HVHX NUT
WITH (2) H WASHERS
(ONE UNDER THE BOLT HEAD
AND ONE UNDER THE NUT)

ADDITIONAL PURLIN

PURLIN BRACE
CPB-

STRUCTURAL FASTENER(S)
#12X1 1/4
(8) PER PURLIN BRACE

CABLE BRACING

FRAME BRACE

1/2X1 1/4 A325T/
1/2 HVHX NUT
(NO WASHERS REQUIRED)

RAFTER

SECTION THROUGH RAFTER AT PURLIN BRACE
RIGHT
BR08
AA

Download the DWG file by clicking here.

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Issued 9/28/2016
Section at Purlin Brace

BR09/AA

SAFETY PRECAUTION:
MAKE CERTAIN THAT THE CORRECT TOOL IS AVAILABLE AND USED FOR EACH PHASE OF BUILDING ERECTION. IMPROPER TOOL USAGE RESULTS IN EMPLOYEE INJURY.

PURLIN BRACE (AT FRAME LINES AND AT EACH PURLIN BRACE LINE OR AT 1/3 POINTS IF THERE ARE NO PURLIN BRACE LINES)

STRUCTURAL FASTENER(S) #12X1 1/4 (8) PER PURLIN BRACE

SECTION AT PURLIN BRACE

Download the DWG file by clicking here.

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Issued 9/28/2016
Section at Purlin Brace
Through-Fastened Roofs
BR09/BA

SAFETY PRECAUTION:
MAKE CERTAIN THAT THE CORRECT TOOL
IS AVAILABLE AND USED FOR EACH PHASE
OF BUILDING ERECTION. IMPROPER TOOL
USAGE RESULTS IN EMPLOYEE INJURY.

SECTION AT PURLIN BRACE
THROUGH–FASTENED ROOFS

Download the DWG file by clicking here.

To Section Index

Issued 9/28/2016
Purlin Bracing with Loc Seam/Standing Seam Roofs
Clip-Fastened Roof
BR09W/AA

**PLAN VIEW**

STRUCTURAL FASTENER(S)
#12X1 1/4
(8) PER PURLIN BRACE

PURLIN BRACE (AT FRAME LINES
AND AT EACH PURLIN BRACE LINE
OR AT 1/3 POINTS IF THERE ARE
NO PURLIN BRACE LINES)
CPB_

PURLIN

9 1/2"

**SECTION VIEW**

BRACE ANGLE
CBA_ or CBBA_ (ORIENTATION VARIES)

PURLIN BRACING WITH LOC SEAM/STANDING SEAM ROOFS
CLIP-FASTENED ROOF

BR09W
AA

Download the DWG file by clicking here.

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Revised 9/30/2017
Section at Strut Purlin

BR09X/AA

ANTI-ROLL CLIP LOCATIONS:

USE STD. ANTI-ROLL CLIP IF THERE IS NO ADDED STRUT PURLIN OR IF THE STRUT IS LOCATED ON THE SIDE OPPOSITE OF THE ANTI-ROLL CLIP. IF THE STANDARD ANTI-ROLL CLIP LOCATION INTERFERES WITH THE PURLIN BRACE, LOCATE THE ANTI-ROLL CLIP ON THE OTHER SIDE OF THE PURLIN.

SECTION AT STRUT PURLIN

Download the DWG file by clicking here.
Diagonal Bracing with DBB0_
By-Pass, Inset or Flush Girts at One Bay Endwall, Bracing Conn. from DBB0_ to Column Flange
BR10A/AA

Download the DWG file by clicking here.
Diagonal Bracing with DBB0_
By-Pass, Inset or Flush Girts, Bracing Conn. from DBB0_ to Web of Column
BR10B/AA

DIAGONAL BRACING WITH DBB0_
BYPASS, INSET OR FLUSH GIRTS, BRACING CONNECTS FROM DBB0_ TO WEB OF COLUMN
REFERENCE DETAILS: BR12AA, BR12RAA, BR20WAA, BR01WAA

Download the DWG file by clicking here.

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Issued 12/22/2016
Diagonal Bracing with DBB0_
By-Pass, Inset or Flush Girts, Bracing Conn. from DBB0_ to Web of Column
BR10W/AA

Download the DWG file by clicking here.

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Issued 12/22/2016
Plan View at Ending 4" Pipe Strut

BR11B/AA

SAFETY PRECAUTION:
Each worker should be trained to use the safest and most productive erection techniques.

1/4" A325T/
1/2 HVHX NUT
BOLTS MUST BE INSTALLED FROM TOP WITH THE NUT ON THE UNDERSIDE OF THE RAFTER FLANGE.

See Note

PLAN VIEW AT ENDING 4" PIPE STRUT

BR14A
AA

NOTE:
4 BOLT CONNECTION REQUIRED AT ALL NON-EAVE PIPE STRUT LOCATIONS
6 BOLT CONNECTION REQUIRED AT ALL EAVE PIPE STRUT LOCATIONS

Download the DWG file by clicking here.

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Issued 9/28/2016
Plan View at Ending 6" or 8" Pipe Strut

BR11Y/AA

SAFETY PRECAUTION:
EACH WORKER SHOULD BE TRAINED TO USE THE SAFEST AND MOST PRODUCTIVE ERECTION TECHNIQUES.

1 1/4" 1 1/4"

1/2X2 A325T/
1/2 HVH4X NUT
BOLTS MUST BE INSTALLED FROM TOP WITH THE NUT ON THE UNDERSIDE OF THE RAFTER FLANGE.

SEE NOTE

NOTE:
4 BOLT CONNECTION REQUIRED AT ALL NON-EAVE PIPE STRUT LOCATIONS
6 BOLT CONNECTION REQUIRED AT ALL EAVE PIPE STRUT LOCATIONS

PLAN VIEW AT ENDING 6" OR 8" PIPE STRUT

Download the DWG file by clicking here.

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Issued 9/28/2016
Top View of Diagonal Bracing Bracket
Bolt Locations at Inset or Flush Girts
BR12/AA

Download the DWG file by clicking here.
Sectional View at Continuous 4" Pipe Struts

BR12A/AA

Download the DWG file by clicking here.
Plan View at Continuous 4" Pipe Struts

BR12B/AA

SAFETY PRECAUTIONS: EACH WORKER SHOULD BE TRAINED TO USE THE SAFEST AND MOST PRODUCTIVE ERECTION TECHNIQUES.

4" PIPE STRUT

RAFTER

1/2X2 A325TI/1/2 HVHX NUT
BOLTS MUST BE INSTALLED FROM TOP WITH THE NUT ON THE UNDERSIDE OF THE RAFTER FLANGE.

4" PIPE STRUT

NOTE:
PIPE ENDPLATE NESTS ON TOP OF ADJACENT PIPE ENDPLATE.

PLAN VIEW AT CONTINUOUS 4" PIPE STRUTS

4 BOLT CONNECTION REQUIRED AT ALL NON-EAVE PIPE STRUT LOCATIONS
6 BOLT CONNECTION REQUIRED AT ALL EAVE PIPE STRUT LOCATIONS

Download the DWG file by clicking here.
Top View of Diagonal Bracing Bracket
Bolt Location at By-Pass Girts
BR12R/AA

1" ANCHOR ROD (TYP.)
w/ WASHER
(BY OTHERS)

DIAGONAL BRACING BRACKET
DB80_

BRACING ROD PLATE
BRCP_

A325(T) BOLT/
HVHX NUT

WALK DOOR
JAMB
(OR OTHER JAMB)

4"

* SEE TABLE

1'0"

EXTERIOR EDGE
OF FINISHED FLOOR

* BOLT LOCATION FROM
EDGE OF CONCRETE

<table>
<thead>
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<th>GIRT DEPTH</th>
<th>DIMENSION</th>
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<td>10 1/2&quot;</td>
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<td>9 1/2&quot;</td>
<td>1'0&quot;</td>
</tr>
<tr>
<td>12&quot;</td>
<td>1'-2 1/2&quot;</td>
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TOP VIEW OF DIAGONAL BRACING BRACKET
BOLT LOCATION AT BYPASS GIRTS

Download the DWG file by clicking here.

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Issued 12/22/2016
Sectional View at Continuous 6" or 8" Pipe Struts

BR12W/AA

Download the DWG file by clicking here.

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Issued 9/28/2016
Plan View at Continuous 6" or 8" Pipe Struts

BR12Y/AA

NOTE:
PIPE ENDPLATE NESTS ON TOP OF ADJACENT PIPE ENDPLATE.

SAFETY PRECAUTIONS:
EACH WORKER SHOULD BE TRAINED TO USE THE SAFEST AND MOST PRODUCTIVE ERECTION TECHNIQUES.

1/2X2 A325T/
1/2 HVHX NUT
BOLTS MUST BE INSTALLED FROM TOP WITH THE NUT ON THE UNDERSIDE OF THE RAFTER FLANGE.

RAFTER

1 1/4" 1 1/4"

6" OR 8" PIPE STRUT

SEE NOTE

NOTE:
4 BOLT CONNECTION REQUIRED AT ALL NON-EAVE PIPE STRUT LOCATIONS
6 BOLT CONNECTION REQUIRED AT ALL EAVE PIPE STRUT LOCATIONS

PLAN VIEW AT CONTINUOUS 6" OR 8" PIPE STRUTS

BR12Y

AA

Download the DWG file by clicking here.

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Issued 9/28/2016
Flange Mounted 4" Pipe Strut at Rafter

BR14A/AA

Download the DWG file by clicking here.

To Section Index
Flange Mounted 6" or 8" Pipe Strut at Rafter

BR14W/AA

Download the DWG file by clicking here.

To Section Index

Issued 9/28/2016
Stiffener Mounted 4" Pipe Strut at Column

BR15A/AA

Download the DWG file by clicking here.

To Section Index

Issued 9/28/2016
4" Pipe Strut to Endwall Corner Column Inside Flange

BR15B/AA

Download the DWG file by clicking here.

To Section Index

Issued 9/28/2016
Stiffener Mounted 6" or 8" Pipe Strut at Column

BR15W/AA

Download the DWG file by clicking here.
6" Pipe Strut to Endwall Corner Column Inside Flange

BR15Y/AA

Download the DWG file by clicking here.

To Section Index
Stiffener Mounted 4" Pipe Strut at Rafter

BR16A/AA

Download the DWG file by clicking here.
Section View at Continuous 4" Pipe Strut

BR16B/AA

Download the DWG file by clicking here.

To Section Index

Issued 9/28/2016
Stiffener Mounted 6" or 8" Pipe Strut at Rafter

BR16W/AA

Download the DWG file by clicking here.

To Section Index

Issued 9/28/2016
Section View at Continuous 6" or 8" Pipe Strut

BR16Y/AA

Download the DWG file by clicking here.
Frame Brace
For Bypass Purlins/Girts
BR17/AA

SAFETY PRECAUTION:
WORKERS SHOULD BE TRAINED IN THE PROPER ERECTION PROCEDURES FOR ALL JOBS.

1/2X1 1/4 A325T
1/2 HV/HX NUT
WITH (2) 1/2 H WASHERS
(ONE UNDER THE BOLT HEAD
AND ONE UNDER THE NUT)

FRAME BRACE

1/2X1 1/4 A325T
1/2 HV/HX NUT
(NO WASHERS REQUIRED)

FRAME BRACE BEHIND BOTH SIDES IF REQUIRED BY DESIGN AS NOTED ON THE BUILDING ERECTION DRAWINGS

PURLIN/GIRT
RAFTER OR COLUMN

Download the DWG file by clicking here.

To Section Index

Issued 9/28/2016
SAFETY PRECAUTION:
IT IS RECOMMENDED THAT ALL WORKERS
WEAR STEEL TOE SHOES WITH METATARSAL
GUARD, EYE PROTECTION, AND HARD HATS.

1/2X1 1/4 A325T/
1/2 HVHX NUT
(NO WASHERS REQUIRED)

FRAME BRACE
BOTH SIDES IF REQUIRED
BY DESIGN AS NOTED ON
THE BUILDING ERECTION
DRAWINGS

COLUMN

1/2X1 1/4 A325T/
1/2 HVHX NUT
WITH (2) 1/2 H WASHERS
(ONE UNDER THE BOLT HEAD
AND ONE UNDER THE NUT)

VARIES

VARIES

FRAME BRACE
INSET

Download the DWG file by clicking here.
Cold-Formed Interior Column Frame Brace
For Bypass Girts
BR17B/AA

Download the DWG file by clicking here.
SAFETY PRECAUTION:
IT IS RECOMMENDED THAT ALL WORKERS WEAR STEEL TOE SHOES WITH METATARSAL GUARD, EYE PROTECTION, AND HARD HATS.

1/2X1 1/4 A325T/
1/2 HVHX NUT
(NO WASHERS REQUIRED)

FRAME BRACE
BOTH SIDES IF REQUIRED
BY DESIGN AS NOTED ON
THE BUILDING ERECTION
DRAWINGS

COLUMN

1/2X1 1/4 A325T/
1/2 HVHX NUT
WITH (2) 1/2 H WASHERS
(ONE UNDER THE BOLT HEAD
AND ONE UNDER THE NUT)

VARES

VARES

FRAME BRACE
FLUSH

BR17P/AA

Download the DWG file by clicking here.

To Section Index
Knee Brace Detail
Type "A" (Single GBB-) & "B" (Double GBB-)
BR18W/AA

SAFETY PRECAUTION:
ALWAYS WEAR OSHA APPROVED EYE PROTECTION WHEN OPERATING DRILLS OR ELECTRIC SCREW GUNS.

FIELD CALCULATE LENGTH
FIELD CUT

NOTE: HOLE SIZE IN ANGLE WILL NEED TO BE 13/16" Ø.

Download the DWG file by clicking here.
Gable Knee Brace
Type "C"
BR18Y/AA

SAFETY PRECAUTION:
ALWAYS WEAR OSHA APPROVED EYE PROTECTION WHEN OPERATING DRILLS OR ELECTRIC SCREW GUNS.

GABLE KNEE BRACE
Type "C"

To Section Index
Gable Knee Brace
Type "D"
BR18Z/AA

SAFETY PRECAUTION:
ALWAYS WEAR OSHA APPROVED EYE PROTECTION WHEN OPERATING DRILLS OR ELECTRIC SCREW GUNS.

STANDARD FRAME BRACE * AT PURLIN CLOSEST TO COLUMN LOCATION

* NOTE: FRAME BRACE IS REQUIRED AT THIS LOCATION

(4) 1/2X1 1/4 A325TI/1/2 HVX NUT

GABLE KNEE BRACE
Type "D"

Download the DWG file by clicking here.
Section at Knee Brace
Type "A" (Single GBB-_) & "B" (Double GBB-_)  
BR19W/AA

SAFETY PRECAUTION:
USE OSHA APPROVED TIE OFFS,  
NETTING OR RAILING WHEN WORKING ON ROOF AREAS.

3/4X2 A325T / 3/4 HVHX NUT
(2) 1/2X1 1/4 A325T / 1/2 HVHX NUT

1/4"

KBC1 (TYP.)
PURLIN

GBS-_

GBB-
(FIELD CUT END AND ATTACH TO GBS- AT STIFFENER)

CL31
(REQ'D ONLY FOR TYPE "B")

3/4 X 2 A325T / 3/4 HVHX NUT
(FIELD ATTACHED 3'-0" O.C. MAX)

SECTION AT KNEE BRACE
TYPE "A" (SINGLE GBB-_) & TYPE "B" (DOUBLE GBB-_)  
BR19W
AA

Download the DWG file by clicking here.

To Section Index

Issued 9/28/2016
Endwall Rod Connection to Corner Column

BR20/AA

PROPERLY INSTALLED COUPLING NUT:
ROD ENDS BUTT TOGETHER AT CENTERLINE

A325(T) BOLT/ HVHX NUT (TYP)

CLIP (SHOP WELDED) (TYP)

CUT WASHER (TYP)

HVHX NUT (TYP)

BRACER BWP (TYP)

CORNER COLUMN

INTERIOR COLUMN

ENDWALL ROD CONNECTION TO CORNER COLUMN

Download the DWG file by clicking here.

To Section Index

Issued 9/28/2016
Endwall Rod to Corner Column Tier Bracing at Girt Line

BR20A/AA

Download the DWG file by clicking here.
Endwall Rod to Corner Column Tier Bracing at Pipe Strut

BR20B/AA

Download the DWG file by clicking here.
Section at Portal Column w/ Flush Girts

BR20P/AA

Download the DWG file by clicking here.
Section at Portal Column w/ Inset Girts

BR20Q/AA

Download the DWG file by clicking here.

To Section Index

Issued 9/28/2016
Single Paddle, Rod Bracing Assembly

BR20W/AA

<table>
<thead>
<tr>
<th>ROD Ø</th>
<th>ROD BRACING</th>
<th>BRACER</th>
<th>CUT WASHER</th>
<th>* HVHX NUT</th>
<th>BRACING ROD PLATE (w/ COUPLING NUT)</th>
<th>A325(T) BOLT AT BRCP_(L/R)</th>
<th>HVHX NUT AT BRCP_(L/R)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/8&quot;</td>
<td>BR1-</td>
<td>BWP1</td>
<td>5/8 CUT WASHER</td>
<td>5/8 HVHX NUT</td>
<td>BRCP7R (w/ CPN5)</td>
<td>(1) 1X3 1/4 A325T</td>
<td>(1) 1 HVHX NUT</td>
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<td>3/4&quot;</td>
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<td>BWP2</td>
<td>3/4 CUT WASHER</td>
<td>3/4 HVHX NUT</td>
<td>BRCP6R (w/ CPN6)</td>
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<td>BR7-</td>
<td>BWP3</td>
<td>7/8 CUT WASHER</td>
<td>7/8 HVHX NUT</td>
<td>BRCP7R (w/ CPN7)</td>
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<td></td>
</tr>
<tr>
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<td>BR8-</td>
<td>BWP3</td>
<td>1 CUT WASHER</td>
<td>1 HVHX NUT</td>
<td>BRCP8R (w/ CPN8)</td>
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<tr>
<td>1 1/8&quot;</td>
<td>BR9-</td>
<td></td>
<td>1 1/8 CUT WASHER</td>
<td>1 1/8 HVHX NUT</td>
<td>BRCP9R (w/ CPN9)</td>
<td>(1) 1/4X3 A325 w/ 1 1/4 HVHX NUT</td>
<td></td>
</tr>
<tr>
<td>1 1/4&quot;</td>
<td>BR10-</td>
<td></td>
<td>1 1/4 CUT WASHER</td>
<td>1 1/4 HVHX NUT</td>
<td>BRCP10R (w/ CPN10)</td>
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</tr>
</tbody>
</table>

NOTE:

PROPERLY INSTALLED COUPLING NUT:

ROD AT BRACING ROD PLATE (BRCP_R) AND ROD BRACING (BR_-) ENDS BUTT TOGETHER AT THE CENTERLINE OF COUPLING NUT.

SINGLE PADDLE, ROD BRACING ASSEMBLY

BR20W

AA

Download the DWG file by clicking here.

To Section Index

Revised 9/30/2017
Endwall Rod to Corner Column Tier Bracing at 6" Pipe Strut

BR20Y/AA

Download the DWG file by clicking here.
NOTE: FIELD WELDING REQUIRED, SEE DETAIL ENFWA_.

WELD ANGLE BRACE TO THE TOP FLANGE OF THE RAFTER OR FIELD DRILL 9/16" HOLE 1 1/4" FROM WEB AND CONNECT WITH 1/2" A325T BOLT WITH 1/2 HVHX NUT

ATTACH PFB TO COLUMN STIFFENER USING (1) 3/4X2 A325T/ 3/4 HVHX NUT
SEE DETAIL BR22AAA

Download the DWG file by clicking here.
Portal Frame Knee Brace at Rafter Flange
Connection From Portal Stiffener to Rafter Top Flange
BR22A/AA

Download the DWG file by clicking here.
Portal Frame Brace to Column Web

BR23/AA

Download the DWG file by clicking here.
Portal Frame Brace to Column Web

BR23A/AA

1/2X1 1/4 A325T/
1/2 HVHX NUT
TYP.
FIELD DRILL 9/16" HOLE
AT COLUMN WEB

FRAME BRACE
FB--
FIELD BEND TABS

2 1/2"

RIGID FRAME
COLUMN

PORTAL FRAME
COLUMN

PORTAL FRAME BRACE TO COLUMN WEB

Download the DWG file by clicking here.
Portal Frame Bracing Clip Connections
Connection From Portal Frame to Jamb
BR24/AA

FIELD ATTACH CL-3 AT GIRT AND EAVE STRUT, USING (6) #12X1 1/4 STRUCTURAL FASTENERS

<table>
<thead>
<tr>
<th>GIRT DEPTH</th>
<th>CLIP MARK#</th>
</tr>
</thead>
<tbody>
<tr>
<td>8&quot;</td>
<td>CC1</td>
</tr>
<tr>
<td>9 1/2&quot;</td>
<td>CC9</td>
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<tr>
<td>12&quot;</td>
<td>CC12</td>
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</tbody>
</table>

Download the DWG file by clicking here.
Portal Frame Connection to Main Frame

BR25/AA

Download the DWG file by clicking here.

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Issued 9/28/2016
Double Paddle Rod Bracing
One Bay Endwall (Gable Endwall Shown, Single Slope Similar)
BR30/AA

Download the DWG file by clicking here.

To Section Index

Issued 9/28/2016
Double Paddle Rod Bracing, Tier Bracing at Girt Line
One Bay Endwall (Gable Endwall Shown, Single Slope Similar)
BR30A/AA

Download the DWG file by clicking here.

To Section Index

Issued 9/28/2016
Double Paddle Rod Bracing, Tier Bracing With Pipe Strut
One Bay Endwall (Gable Endwall Shown, Single Slope Similar)
BR30B/AA

LOCATION NOTES: END LOCATION OF TURNBUCKLE VARIES AS REQUIRED
ELEVATIONS OF WELDED CLIPS MAY VARY

PROPERLY INSTALLED COUPLING NUT:
ROD ENDS BUTT TOGETHER AT CENTERLINE

A325(T) BOLT/ HVHX NUT
(TYP)

CLIP
(SHOP WELDED)
(TYP)

CLIP
(SHOP WELDED)
(TYP)

ADJUST ROD TENSION
KEEPING ROD END TRANSITION CENTERED WITHIN TURNBUCKLE

CORNER COLUMN

DOUBLE PADDLE ROD BRACING, TIER BRACING WITH PIPE STRUT
ONE BAY ENDWALL (GABLE ENDWALL SHOWN, SINGLE SLOPE SIMILAR)

REFERENCE DETAIL: BR30WAA

Download the DWG file by clicking here.

To Section Index

Issued 9/28/2016
Double Paddle, Rod Bracing Assembly
Double Paddle-Single Rod Bracing Assemblies, Attach Only (1) Paddle to Each Gusset Plate
BR30W/AA

<table>
<thead>
<tr>
<th>ROD Ø</th>
<th>&quot;D&quot;</th>
<th>REQUIRED FOR ROD ASSEMBLY</th>
<th>BRACING ROD PLATE CONNECTION</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ROD BRACING</td>
<td>LEFT HAND BRACING ROD PLATE</td>
</tr>
<tr>
<td>5/8&quot;</td>
<td>1'-2 1/4&quot;</td>
<td>BR5-</td>
<td>BRCP5L</td>
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<tr>
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<td>1'-2 1/4&quot;</td>
<td>BR6-</td>
<td>BRCP6L</td>
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<td>BR7-</td>
<td>BRCP7L</td>
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<td>BRCP8L</td>
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<td>1'-2 3/4&quot;</td>
<td>BR9-</td>
<td>BRCP9L</td>
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<tr>
<td>1 1/4&quot;</td>
<td>1'-2 3/4&quot;</td>
<td>BR10-</td>
<td>BRCP10L</td>
</tr>
</tbody>
</table>

NOTES:
1.) PROPERLY INSTALLED COUPLING NUT:
   ROD AT BRACING ROD PLATE (BRCP_R) AND ROD BRACING (BR_-) ENDS BUTT TOGETHER AT CENTERLINE OF COUPLING NUT.
2.) TURNBUCKLES REQUIRED FOR ROD ADJUSTMENT FOR THIS FIXED END PLATE CONNECTION.
   ONLY (1) TURNBUCKLE ALLOWED PER ROD ASSEMBLY.

DOUBLE PADDLE, ROD BRACING ASSEMBLY
DOUBLE PADDLE - SINGLE ROD BRACING ASSEMBLIES, ATTACH ONLY (1) PADDLE TO EACH GUSSET PLATE
BR30W/AA

Download the DWG file by clicking here.

To Section Index

Issued 12/22/2016
Double Paddle Rod Bracing, Tier Bracing With 6" Pipe Strut
One Bay Endwall (Gable Endwall Shown, Single Slope Similar)
BR30Y/AA

LOCATION NOTES: END LOCATION OF TURNBUCKLE VARIES AS REQUIRED
ELEVATIONS OF WELDED CLIPS MAY VARY

PROPERLY INSTALLED COUPLING NUT:
ROD ENDS BUTT TOGETHER AT CENTERLINE

A325(T) BOLT/ HVHX NUT (TYP)

ROD BRACING ASSEMBLY

ADJUST ROD TENSION
KEEPING ROD END TRANSITION CENTERED WITHIN TURNBUCKLE

CORNER COLUMN

ROD BRACING ASSEMBLY

PSS6—LENGTH

ROD BRACING ASSEMBLY

CLIP (SHOP WELDED) (TYP)

CLIP (SHOP WELDED) (TYP)

CORNER COLUMN

DOUBLE PADDLE ROD BRACING, TIER BRACING WITH 6" PIPE STRUT  BR30Y
ONE BAY ENDWALL (GABLE ENDWALL SHOWN, SINGLE SLOPE SIMILAR)

REFERENCE DETAIL: BR30WAA

Download the DWG file by clicking here.

To Section Index
Double Rod Bracing at Column Web
Connection From Column Web to Adjacent Bay Column Web
BR32/AA

DOUBLE ROD BRACING AT COLUMN WEB
CONNECTION FROM COLUMN WEB TO ADJACENT BAY COLUMN WEB

REFERENCE DETAIL: BR34AA

Download the DWG file by clicking here.
Tier Bracing With Pipe Strut And Double Rod Bracing
Tee Bracket Bolted Connection at Column Web
BR32A/AA

Download the DWG file by clicking here.

To Section Index

Issued 12/22/2016
Tier Bracing With Pipe Strut And Double Rod Bracing
Connection From Column Web to Adjacent Bay Column Web
BR32W/AA

Download the DWG file by clicking here.
Double Rod Bracing at Column Flange
Typical Connection to Shop Welded Gusset Plates
BR33/AA

Download the DWG file by clicking here.
Tier Bracing With Pipe Strut And Double Rod Bracing
Tee Bracket Bolted Connection at Column Flange
BR33A/AA

PROPERLY INSTALLED COUPLING NUT:
ROD ENDS BUTT TOGETHER AT CENTER

DOUBLE, ROD BRACING
ASSEMBLY
(2) REQUIRED
(TYP.)

A325(T) BOLT/
HVHX NUT
(TYP.)

BOLTED TEE
CLIP
(TYP.)

(4) 3/4 A325T / HVHX NUT

GUSSSET
PLATE
(SHOP WELDED)
(TYP.)

COLUMN

COLUMN FLANGE

GUSSSET
PLATE
(SHOP WELDED)

A325(T) BOLT/
HVHX NUT

COLUMN

COLUMN

NOTE: ELEVATIONS OF WELDED CLIPS VARY AS REQUIRED

TIER BRACING WITH PIPE STRUT AND DOUBLE ROD BRACING

TEE BRACKET BOLTED CONNECTION AT COLUMN FLANGE

BR33A

AA

REFERENCE DETAIL: BR34AA

Download the DWG file by clicking here.

To Section Index

Issued 12/22/2016
Tier Bracing With Pipe Strut And Double Rod Bracing
Tiered Bracing Between Columns to Shop Welded Gusset Plates
BR33W/AA

NOTE: ELEVATIONS OF WELDED CLIPS VARY AS REQUIRED

TIER BRACING WITH PIPE STRUT AND DOUBLE ROD BRACING
TIERED BRACING BETWEEN COLUMNS TO SHOP WELDED GUSSET PLATES

Download the DWG file by clicking here.

To Section Index

Issued 12/22/2016
Double Rod Bracing Assembly
Double Rod Bracing Assemblies at Each Side of Gusset Plate
BR34/AA

<table>
<thead>
<tr>
<th>ROD Ø</th>
<th>ROD BRACING</th>
<th>LEFT HAND BRACING ROD PLATE (REQ'D FOR TURNBUCKLE)</th>
<th>TURNBUCKLE</th>
<th>RIGHT HAND BRACING ROD PLATE (w/ COUPLING NUT)</th>
<th>A325(T) BOLT AT BRCP_(L/R)</th>
<th>HVHX NUT AT BRCP_(L/R)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/8&quot;</td>
<td>BR5-</td>
<td>BRCP5L</td>
<td>TNBK5</td>
<td>BRCP5R (w/ CPN5)</td>
<td>(2) 1X3 1/4 A325T</td>
<td>(2) 1 HVHX NUT</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>BR6-</td>
<td>BRCP6L</td>
<td>TNBK6</td>
<td>BRCP6R (w/ CPN6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7/8&quot;</td>
<td>BR7-</td>
<td>BRCP7L</td>
<td>TNBK7</td>
<td>BRCP7R (w/ CPN7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1&quot;</td>
<td>BR8-</td>
<td>BRCP8L</td>
<td>TNBK8</td>
<td>BRCP8R (w/ CPN8)</td>
<td></td>
<td></td>
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<tr>
<td>1 1/8&quot;</td>
<td>BR9-</td>
<td>BRCP9L</td>
<td>TNBK9</td>
<td>BRCP9R (w/ CPN9)</td>
<td>(2) 1 1/4X3 1/4 A325 w/1 1/4 HVHX NUT</td>
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</tr>
<tr>
<td>1 1/4&quot;</td>
<td>BR10-</td>
<td>BRCP10L</td>
<td>TNBK10</td>
<td>BRCP10R (w/ CPN10)</td>
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</table>

NOTES:
1.) PROPERLY INSTALLED COUPLING NUT:
   ROD AT BRACING ROD PLATE (BRCP_R) AND ROD BRACING (BR_-)
   ENDS BUTT TOGETHER AT CENTERLINE OF COUPLING NUT.
2.) TURNBUCKLES ARE REQUIRED FOR ROD ADJUSTMENT FOR THIS
    FIXED END PLATE CONNECTION.
    ONLY (1) TURNBUCKLE ALLOWED PER ROD ASSEMBLY.

DOUBLE ROD BRACING ASSEMBLY
DOUBLE ROD BRACING ASSEMBLIES AT EACH SIDE OF GUSSET PLATE
BR34
AA

Download the DWG file by clicking here.

To Section Index

Issued 12/22/2016
Double Rod Bracing Isometric View of Base Connection at Web
Double Rod Bracing With Rod Bracing Assemblies at Each Side of Gusset Plate
BR35/AA

**NOTE ORIENTATION:**
ROD FACES OUTWARD, AWAY FROM SHOP WELDED GUSSET PLATE

**DOUBLE ROD BRACING ISOMETRIC VIEW OF BASE CONNECTION AT WEB**

**Download the DWG file by clicking here.**

To Section Index

Issued 9/28/2016
Eave Frame Brace Connection (Bypass)
Diagonal Haunch Connection From Eave Strut to Splice Plate
BR40/AA

SAFETY PRECAUTION:
EACH WORKER SHOULD BE TRAINED TO USE THE SAFEST AND MOST PRODUCTIVE ERECTION TECHNIQUES.

STRUCTURAL FASTENER(S)
#12X1 1/4
(6) PER EAVE FRAME BRACE IN PRE-PUNCHED HOLES

EAVE STRUT BRACKET (SHOP WELDED)

* EAVE FRAME BRACE EFB_____

COLUMN

CONNECT AT SPlice PLATE BOLT CLOSEST TO INSIDE KNEE

NOTE:
LONGER BOLT SUPPLIED IF REQUIRED FOR SPlice PLATE TO EFB______ CONNECTION

EAVE FRAME BRACE CONNECTION (BYPASS) BR40
DIAGONAL HAUNCH CONNECTION FROM EAVE STRUT TO SPlice PLATE AA

Download the DWG file by clicking here.

To Section Index

Issued 9/28/2016
Eave Frame Brace Connection Detail
Diagonal Haunch Connection From Eave Strut to Splice Plate
BR40A/AA

SAFETY PRECAUTION:
EACH WORKER SHOULD BE TRAINED TO USE THE SAFEST AND MOST PRODUCTIVE ERECTION TECHNIQUES.

STRUCTURAL FASTENER(S)
#12X1 1/4
(6) PER EAVE FRAME BRACE IN PRE-PUNCHED HOLES

EAVE STRUT

* EAVE FRAME BRACE EFB____-

* FRAME BRACE TABS TO BE BENT IN FIELD AS REQ.

SPlice PLATE

CONNECT AT SPlice PLATE BOLT CLOSEST TO INSIDE KNEE

NOTE:
LONGER BOLT SUPPLIED IF REQUIRED FOR SPlice PLATE TO EFB____-__ CONNECTION

Download the DWG file by clicking here.

To Section Index

Issued 9/28/2016
Eave Frame Brace Connection (Inset)
Diagonal Haunch Connection From Eave Strut to Splice Plate
BR40W/AA

SAFETY PRECAUTION:
EACH WORKER SHOULD BE TRAINED TO USE THE SAFEST AND MOST PRODUCTIVE ERECTION TECHNIQUES.

EAVE STRUT

STRUCTURAL FASTENER(S)
#12X1 1/4
(6) PER EAVE FRAME BRACE IN PRE-PUNCHED HOLES

SPICE PLATE

* EAVE FRAME BRACE EFB______

COLUMN

RAFTER

CONNECT AT SPICE PLATE BOLT CLOSEST TO INSIDE KNEE

NOTE:
LONGER BOLT SUPPLIED IF REQUIRED FOR SPICE PLATE TO EFB______ CONNECTION

EAVE FRAME BRACE CONNECTION (INSET)
DIAGONAL HAUNCH CONNECTION FROM EAVE STRUT TO SPICE PLATE

Download the DWG file by clicking here.

To Section Index

Issued 9/28/2016
Eave Frame Brace Connection (Flush)
Diagonal Haunch Connection From Eave Strut to Splice Plate
BR40Y/AA

SAFETY PRECAUTION: EACH WORKER SHOULD BE TRAINED TO USE THE SAFEST AND MOST PRODUCTIVE ERECTION TECHNIQUES.

EAVE STRUT

STRUCTURAL FASTENER(S)
#12X1 1/4
(6) PER EAVE FRAME Brace IN PRE-PUNCARED HOLES

SPICe PLATE

* EAVE FRAME Brace EFb______

COLUMN

CONNECT AT SPICE PLATE BOLT CLOSEST TO INSIDE KNEE

* FRAME Brace TABS TO BE BENT IN FIELD AS REQ.

NOTE:
LONGER BOLT SUPPLIED IF REQUIRED FOR SPICE PLATE TO EFB______ CONNECTION

EAVE FRAME BRACE CONNECTION (FLUSH) BR40Y
DIAGONAL HAUNCH CONNECTION FROM EAVE STRUT TO SPICE PLATE AA

Download the DWG file by clicking here.

To Section Index

Issued 9/28/2016
Eave Frame Brace Connection (Bypass)
Straight Column Connection From Eave Strut to Column Stiffener
BR41/AA

SAFETY PRECAUTION:
Each worker should be trained to use the safest and most productive erection techniques.

EAVE STRUT

STRUCTURAL FASTENER(S)
#12X1 1/4
(6) PER EAVE FRAME Brace IN PRE-PUNCHED HOLES

EAVE STRUT BRACKET
(SHOP WELDED)

* EAVE FRAME Brace
EFB______

* FIELD BEND EAVE FRAME Brace TABS AS REQUIRED

COLUMN STIFFENER
SXF______
(SHOP WELDED)

3/4X2 A325T/
3/4 HVHX NUT

COLUMN

EAVE FRAME Brace CONNECTION (BYPASS) BR41
STRAIGHT COLUMN CONNECTION FROM EAVE STRUT TO COLUMN STIFFENER AA

Download the DWG file by clicking here.
Eave Frame Brace Connection Detail
Straight Column Connection From Eave Strut to Column Stiffener
BR41A/AA

Download the DWG file by clicking here.
Eave Frame Brace Connection (Inset)
Straight Column Connection From Eave Strut to Column Stiffener
BR41W/AA

SAFETY PRECAUTION:
Each worker should be trained to use the safest and most productive erection techniques.

EAVE STRUT

STRUCTURAL FASTENER(S)
#12X1 1/4
(6) PER EAVE FRAME BRACE IN PRE-PUNCHED HOLES

* EAVE FRAME BRACE EFB___

* FIELD BEND EAVE FRAME BRACE TABS AS REQUIRED

COLUMN STIFFENER SXFX__
(SHOP WELDED)

SIMILAR TO
BR41A AA

RAFTER

COLUMN

3/4X2 A325T/3/4 HVHX NUT

2 1/2"

EAVE FRAME BRACE CONNECTION (INSET)
STRAIGHT COLUMN CONNECTION FROM EAVE STRUT TO COLUMN STIFFENER
BR41W AA

Download the DWG file by clicking here.

To Section Index
SAFETY PRECAUTION:
Each worker should be trained to use the safest and most productive erection techniques.

Eave Frame Brace Connection (Flush)
Straight Column Connection From Eave Strut to Column Stiffener
BR41Y/AA

Download the DWG file by clicking here.

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Issued 9/28/2016
Bracing Detail - Roof Slope Less Than or Equal to 1:12
8" & 9 1/2" Zee Purlins w/ Clip-Fastened Roof - High Side Similar
BR51/AA

NOTE:
INSTALL BRACE CHANNEL AS CLOSE AS POSSIBLE TO BRACE ANGLE.

BRACE ANGLE (TYP.)
CBA_ or
CBBA_
SEE BR91AA

FIELD ATTACH CPB-1
STRUCTURAL FASTENER(S)
(4) #12X1 1/4

BRACE CHANNEL
60C16-
SEE BR96WAA

PURLIN (TYP.)
EAVE STRUT

SPACING

SPACING

Bracing Detail - Roof Slope Less Than or Equal to 1:12
8" & 9 1/2" Zee Purlins w/ Clip-Fastened Roof - High Side Similar
BR51/AA

Download the DWG file by clicking here.

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Issued 9/28/2016
Purlin & Eave Bracing - Roof Slopes Less Than/Equal To 1:12
8" & 9 1/2" Zee Purlins w/ Standing Seam, Loc Seam Roofs
BR51A/AA

NOTE:
INSTALL BRACE CHANNEL AS CLOSE AS POSSIBLE TO BRACE ANGLE.

PURLIN & EAVE BRACING – ROOF SLOPES LESS THAN/EQUAL TO 1:12
8" & 9 1/2" ZEE PURLINS w/STANDING SEAM, LOC SEAM & SEAM LOC ROOFS
BR51A/AA

Download the DWG file by clicking here.
Bracing Detail Through-Fastened Roof
8" or 9 1/2" Purlins
BR51/BA

Download the DWG file by clicking here.
Bracing Detail - Roof Slope Greater Than 1:12
8" & 9 1/2" Zee Purlins w/ Clip-Fastened Roof - High Side Similar
BR52/AA

NOTE:
INSTALL BRACE CHANNEL AS CLOSE
AS POSSIBLE TO BRACE ANGLE.

FIELD ATTACH CPB-1
STRUCTURAL FASTENER(S)
(4) #12X1 1/4

PURLIN (TYP.)
EAVE STRUT

SPACING

BRACE CHANNEL
60C16
SEE BR96WAA

BRACE ANGLE (TYP.)
CBA_ or CBBA_
SEE BR91AA

Download the DWG file by clicking here.

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Issued 9/28/2016
Purlin & Eave Bracing - Roof Slope Greater Than 1:12
8" & 9 1/2" Zee Purlins w/ Clip-Fastened Roof - High Side Similar
BR52A/AA

NOTE:
INSTALL BRACE CHANNEL AS CLOSE AS POSSIBLE TO BRACE ANGLE.

FIELD ATTACH CPB-1
STRUCTURAL FASTENER(S)
(4) #12X1 1/4

PURLIN & EAVE BRACING—ROOF SLOPE GREATER THAN 1:12  BR52A
8" & 9 1/2" ZEE PURLINS w/CLIP—FASTENED ROOF — HIGH SIDE SIMILAR  AA

Download the DWG file by clicking here.

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Issued 9/28/2016
Purlin & Eave Bracing - Roof Slopes Less Than or Equal to 1:12
12'' Zee Purlin w/ Clip-Fastened Roof - High Side Similar
BR52W/AA
Purlin & Eave Bracing - Roof Slopes Greater Than 1:12
12" Zee Purlin w/ Clip Fastened Roof - High Side Similar
BR52Y/AA

NOTE: INSTALL BRACE CHANNEL AS CLOSE AS POSSIBLE TO BRACE ANGLE.

Download the DWG file by clicking here.
Girt Bracing Cross Section
8”, 9 1/2” or 12” Girts
BR89/AA

Download the DWG file by clicking here.
Purlin Bracing Key Plan
8" & 9 1/2" Zee Purlins w/ Clip-Fastened Roof
BR90/AA

* NOTE: SPACING AS REQUIRED BY DESIGN.

PURLIN BRACING KEY PLAN
8" & 9 1/2" ZEE PURLINS w/CLIP-FASTENED ROOF

Download the DWG file by clicking here.
Purlin Bracing Key Plan
12" Zee Purlins w/ Clip-Fastened Roof
BR90A/AA

*NOTE:
Spacing as required by design.

PURLIN BRACING KEY PLAN  
12" ZEE PURLINS w/ CLIP-FASTENED ROOF

Download the DWG file by clicking here.
Bracing Key Plan
8"., 9 1/2" & 12" Purlins w/ Through-Fastened Roof
BR90/BA

*NOTE:
Spacing and location as required by design.

BRACING KEY PLAN
8", 9 1/2" & 12" PURLINS W/THROUGH-FASTENED ROOF

Download the DWG file by clicking here.
Purlin & Eave Bracing - Key Plan
8" & 9 1/2" Zee Purlins w/ Clip-Fastened Roof (Ridge Building Shown, Single Slope Similar)
BR90B/AA

RIDGE BRACE CHANNEL, 60C16–
(TYPICAL THIS LOCATION)

@ RIDGE

BRACE ANGLE
CBA_ or CBBA_
(TYPICAL UNLESS NOTED)

PURLINS

RAFTER

BRACE CHANNEL
60C16–
(TYPICAL THIS LOCATION)

BRACE ANGLES
EBAA–LENGTH (TOP)
EBAB–LENGTH (BOTTOM)

* * * *

TYPICAL BAY

* NOTE:
SPACING AS REQUIRED BY DESIGN.

PURLIN & EAVE BRACING – KEY PLAN

Download the DWG file by clicking here.
Eave Bracing - Key Plan
Clip-Fastened Roof
BR90Z/AA

* EAVE BRACE ANGLE SPACING:
  AS SHOWN IN BAYS WITHOUT PURLIN BRACING,
  IN BAYS WITH PURLIN BRACING INSTALL IN LINE
  WITH EACH ROW OF PURLIN BRACING.

EAVE BRACING — KEY PLAN
CLIP—FASTENED ROOF
BR90Z
AA

Download the DWG file by clicking here.
Brace Angle Installation
Clip-Fastened Roof
BR91/AA

**BRACE ANGLES ARE INSTALLED DIAGONALLY**
ALTERNATING END POSITIONS

**STEP 1:**
INSERT BRACE ANGLE TABS INTO DIAMOND HOLES AND ROTATE BRACE ANGLE 90° UNTIL TABS ARE VERTICAL.

**STEP 2:**
BEND BRACE ANGLE TABS 90° FLAT AGAINST PURLIN WEB TO LOCK IN PLACE.

**STRUCTURAL FASTENERS**
#12x1 1/4 SDHH
(2) PER CBBA_ TAB

**CBBA_ BENT BRACE ANGLE**
PURLIN SPACING LESS THAN 1’-6” (AT 8” & 9 1/2” PURLINS)
PURLIN SPACING LESS THAN 3’-0” (AT 12” PURLINS)

**EXISTING STRUCTURES WITH CBBA_**
AT PURLINS WITHOUT PUNCHING FIELD BEND ANGLE TABS AND FASTEN TO PURLIN WEB.

**DOWNLOAD THE DWG FILE BY CLICKING HERE.**
Brace Channel Installation
8" & 9 1/2" Zee Purlin
BR92/AA

FIELD ATTACH STRUCTURAL FASTENER(S)
(2) #12X1 1/4 SDHH

NOTE:
INSTALL BRACE CHANNEL AS CLOSE AS POSSIBLE TO BRACE ANGLE.

BRACE CHANNEL INSTALLATION
8" & 9 1/2" ZEE PURLIN

Download the DWG file by clicking here.
Brace Channel Installation
12" Zee Purlin
BR92A/AA

NOTE:
INSTALL BRACE CHANNEL AS CLOSE AS POSSIBLE TO BRACE ANGLE.

Download the DWG file by clicking here.
Brace Channel Installation Above Brace Angle

BR92/BA

Download the DWG file by clicking here.
Purlin Bracing Cross Section-Roof Slopes Less Than or Equal to 1:12
8” or 9 1/2” Zee Purlin w/ Clip-Fastened Roof - Ridge Building Shown, Single Slope Similar
BR93/AA

Download the DWG file by clicking here.

To Section Index
Purlin Bracing Cross Section - Roof Slopes Less Than or Equal to 1:12
12" Zee Purlin w/Clip-Fastened Roof - Ridge Building Shown, Single Slope Similar
BR93A/AA

Download the DWG file by clicking here.
Purlin Bracing Cross Section—Roof Slope Greater Than 1:12
8" or 9 1/2" Zee Purlin w/ Clip-Fastened Roof-Ridge Building Shown, Single Slope Similar
BR93B/AA

SAFETY PRECAUTION:
DON'T ALLOW OBJECTS TO BECOME A FALLING HAZARD TO THOSE BENEATH THE ROOF. WORKERS SHOULD WEAR OSHA APPROVED HARD HATS.

Download the DWG file by clicking here.

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Purlin Bracing Cross Section - Roof Slope Greater Than 1:12
12" Zee Purlin w/ Clip-Fastened Roof - Ridge Shown, Single Slope Similar
BR93Y/AA

Download the DWG file by clicking here.
Detail at Ridge Purlin
8” or 9 1/2” Purlin Bracing
BR94/AA

Download the DWG file by clicking here.

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Download the DWG file by clicking here.

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Purlin & Eave Bracing - Roof Slopes Less Than or Equal to 1:12
8” & 9 1/2” Zee Purlins w/ Clip-Fastened Roof - Ridge Building Shown, Single Slope Similar
BR95A/AA

Download the DWG file by clicking here.

To Section Index
Purlin & Eave Bracing - Roof Slope Greater Than 1:12
8” & 9 1/2” Zee Purlins w/ Standing Seam Roof - Ridge Building Shown, Single Slope Similar
BR95B/AA

Download the DWG file by clicking here.
Purlin & Eave Bracing Section - Roof Slope Less Than or Equal to 1:12
12" Zee Purlin w/ Clip-Fastened Roof - Ridge Building Shown, Single Slope Similar
BR95W/AA

Download the DWG file by clicking here.
Purlin & Eave Bracing - Roof Slopes Greater Than 1:12
12" Zee Purlin w/ Clip Fastened Roof - Ridge Building Shown, Single Slope Similar
BR95Y/AA

Download the DWG file by clicking here.

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Issued 9/28/2016
Brace Channel Mark Numbers
8” or 9 1/2” Purlins
BR96W/AA

BRACE CHANNEL SPACING:

<table>
<thead>
<tr>
<th>PURLIN</th>
<th>SPACING</th>
</tr>
</thead>
</table>

BRACE CHANNEL LENGTH

60C16- (LENGTH = PURLIN SPACING - 3/4”)

RIDGE BRACE CHANNEL SPACING:

<table>
<thead>
<tr>
<th>RIDGE</th>
<th>SPACING</th>
</tr>
</thead>
</table>

RIDGE BRACE CHANNEL LENGTH

<table>
<thead>
<tr>
<th>SPACING</th>
<th>CHANNEL LENGTH</th>
<th>MARK NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1'-11 3/4” TO 2'-4 7/8”</td>
<td>2'-2”</td>
<td>60C16-</td>
</tr>
<tr>
<td>2'-5” TO 2'-11 3/8”</td>
<td>2'-5 5/8”</td>
<td>60C16-</td>
</tr>
<tr>
<td>2'-11 1/2” TO 3'-0”</td>
<td>2'-11 7/8”</td>
<td>60C16-</td>
</tr>
</tbody>
</table>

NOTE:
CHANNEL LENGTHS ABOVE ARE FOR RETROFIT AT EXISTING BUILDINGS.
VERIFY AND FIELD MEASURE ALL SPACINGS.

BRACE CHANNEL MARK NUMBERS
8” OR 9 1/2” PURLINS
BR96W AA

Download the DWG file by clicking here.

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Issued 9/28/2016
Brace Channel Mark Numbers
12" Zee
BR96Y/AA

**Brace Channel Spacing:**

**Ridge Brace Channel Spacing:**

<table>
<thead>
<tr>
<th>Ridge Brace Channel Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPACING</td>
</tr>
<tr>
<td>1'-9 1/2&quot; TO 2'-2 1/4&quot;</td>
</tr>
<tr>
<td>2'-2 3/8&quot; TO 2'-11 1/4&quot;</td>
</tr>
<tr>
<td>2'-11 3/8&quot; TO 3'-0&quot;</td>
</tr>
</tbody>
</table>

**Note:**
Channel lengths above are for retrofit at existing buildings. Verify and field measure all spacings.

Brace Channel Mark Numbers
12" Zee
BR96Y/AA

Download the DWG file by clicking here.
Bracing Detail - Roof Slopes Less Than or Equal to 1:12
12" Zee Purlin w/ Clip-Fastened Roof - High Side Similar
BR97A/AA

NOTE:
INSTALL BRACE CHANNEL AS CLOSE AS POSSIBLE TO BRACE ANGLE.

FIELD ATTACH CPB-1 STRUCTURAL FASTENER(S)
#12X1 1/4 (4) PER CLIP

BRACING DETAIL — ROOF SLOPES LESS THAN OR EQUAL TO 1:12
12" ZEE PURIN w/CLIP—FASTENED ROOF — HIGH SIDE SIMILAR
BR97A/AA

Download the DWG file by clicking here.

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Issued 9/28/2016
Bracing Detail  Through-Fastened Roof
12" Purlins
BR97A/BA

* Brace channel may be located on the uphill or downhill side of the anti-roll cup connection. Refer to erection drawings. Install brace channel as close as possible to the anti-roll clip.

Download the DWG file by clicking here.

To Section Index
Bracing w/ Through-Fastened Roof

BR97/BA

Download the DWG file by clicking here.

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Issued 9/28/2016
Bracing Detail - Roof Slopes Greater Than 1:12
12" Zee Purlin w/ Clip-Fastened Roof - High Side Similar
BR97Y/AA

NOTE:
INSTALL BRACE CHANNEL AS CLOSE AS POSSIBLE TO BRACE ANGLE.

FIELD ATTACH CPB–1 STRUCTURAL FASTENER(S)
#12X1 1/4
(4) PER CLIP

BRACE CHANNEL
95C14——SEE BR96YAA

BRACE ANGLE
CBA_ or CBBA_
SEE BR91AA

Download the DWG file by clicking here.

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Issued 9/28/2016
Bracing Layout For Use With Through-Fastened Roofs

BR98A/BA

NOTES:
- Anti-roll clips shown are "Beyond" (at the frame lines)
- This is applicable to all single slope buildings and can be used with cable buildings with expansion ridge flashing
- Brace channels required at purlin spacings with anti-roll clips
- Install brace channels at frame lines and above brace angle (SSA1) or support channel (SSC14- )

Anti-roll clip, brace channel and purlin bracing locations are shown on roof framing plan or cross sections.

Download the DWG file by clicking here.

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Bracing Layout For Use With Through-Fastened Roofs

BR98B/BA

Download the DWG file by clicking here.

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Issued 9/28/2016
Purlin Bracing Notes

BROA/AA

1. APPLICABLE TO ROOFS WITH STANDING SEAM II, STANDING SEAM 360, LOC-SEAM, LOC-SEAM 360 AND SEAM-LOC PANELS.

2. PURLINS ARE TO BE INSTALLED WITH PURLIN WEBS 90° TO RAFTERS.

3. PURLIN BRACING IS NOT TO DISTORT OR ALTER PURLINS FROM THEIR INTENDED SHAPE AND LOCATION.

4. SPACING AS REQUIRED BY DESIGN.

5. FOR FACTORY MUTUAL REQUIREMENTS, PURLIN BRACING IS NOT TO EXCEED 80" O.C. AND IS REQUIRED ONLY IN THE END BAYS OF THE BUILDING.

(BRACING NOT APPLICABLE WITH SCREW DOWN ROOF SYSTEMS)

Download the DWG file by clicking here.
Ridge Bridging Clip Connection Detail

RF05/AA

SAFETY PRECAUTION: WORKER PERSONAL PROTECTION EQUIPMENT SHOULD ALWAYS MEET OSHA STANDARDS.

Ridge Bridging Clip Connection Detail

Download the DWG file by clicking here.

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