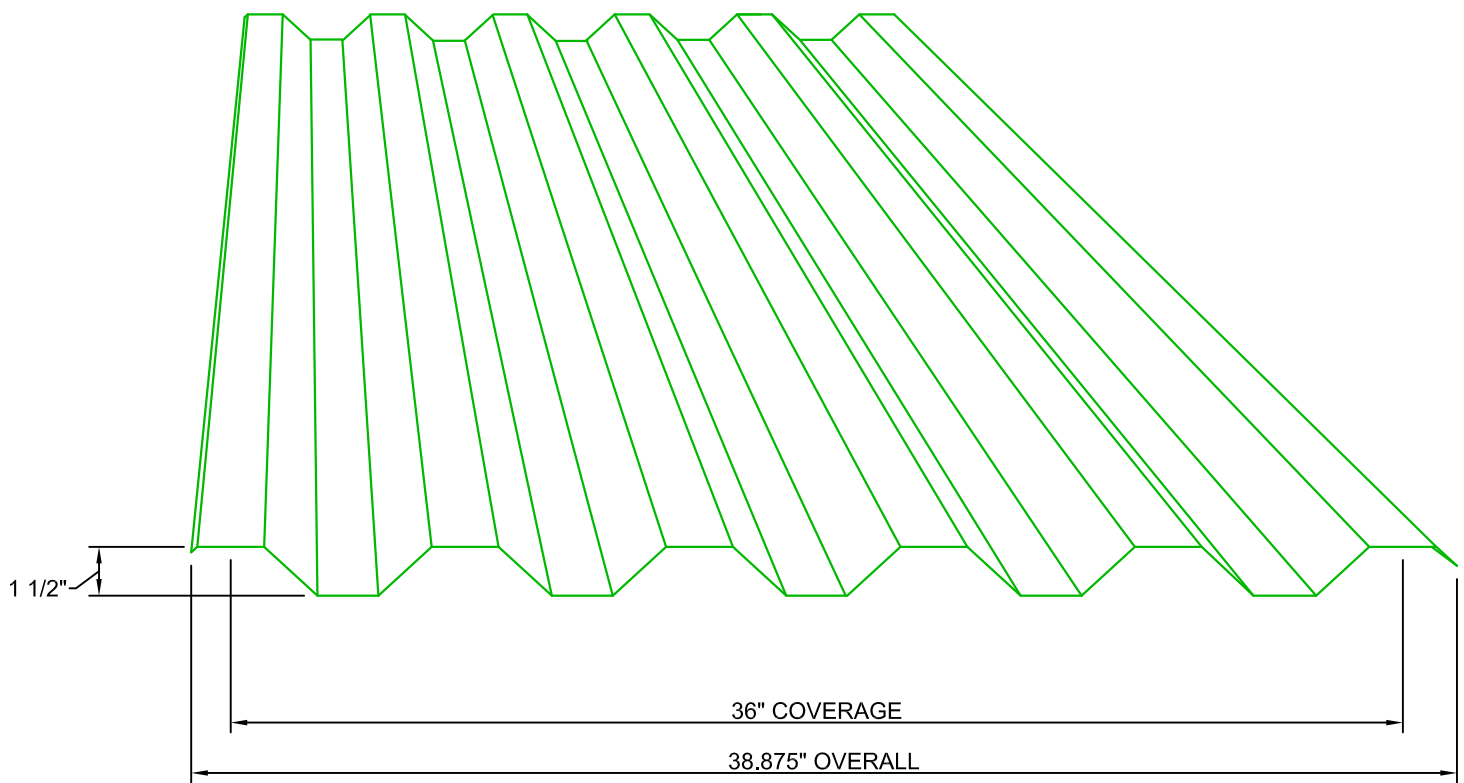


"FLEXBEAM" STANDARD DETAILS



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"FLEXBEAM" STANDARD DETAILS

DRAWN BY:

D. JUREY

DATE:

6/25/25

CHECKED BY:

DATE:

COVER

DRAWING NO.

FLEXBEAM-C

I. GENERAL NOTES:

I(a). "FLEXBEAM" PANELS TO BE MANUFACTURED FROM G-90 GALVANIZED STEEL, GALVALUME, STAINLESS STEEL OR ALUMINUM ALLOY 3003-H14.

I(b). "FLEXBEAM" PANELS TO BE BARE AS NOTED IN NOTE #1, OR PRE-PAINTED WITH A SILICONIZED POLYESTER, KYNAR®, OR FLEXSHIELD FINISH.

I(c). "FLEXBEAM" PANELS TO BE SUPPLIED IN FORMED PANEL LENGTHS UP TO 40'-0". PANELS 40'-60' ARE AVAILABLE WITH SPECIAL PACKAGING AND SHIPPING.

I(d). "FLEXBEAM" PANELS CAN BE SUPPLIED WITH VARIOUS FLASHINGS, PIPE JACKS, FASTENERS, SEALANTS, AND CLOSURES TO COMPLETE A PROJECT.

I(e). CONTRACTOR IS RESPONSIBLE FOR THE PROPER INSTALLATION OF THE PANEL SYSTEM AND TO INSURE ALL PURLINS, GIRTS, OR SUB-FRAMING MEMBERS ARE PROPERLY INSTALLED AND ALIGNED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

I(f). DUE TO INHERENT TOLERANCES OF BASE METAL, ANY FLAT SURFACE PANELS COULD HAVE SOME "OIL-CANNING". THIS IS NOT A BASIS FOR REJECTION OF THE PRODUCT.

I(g). DUE TO THE INDIVIDUALIZED NATURE OF PROJECTS, THE ERECTOR IS RESPONSIBLE FOR THE CORRECT PANEL LENGTHS & QUANTITIES, AND ALL ACCESSORY SIZES, TYPES, & QUANTITIES.

I(h). IF AIR & WATER INFILTRATION TEST IS REQUIRED IN THE SPECIFICATIONS; THEN CALL FACTORY FOR REQUIRED MODIFICATIONS OF DETAILS.

II. UNLOADING & STORAGE NOTES:

II(a). WHEN UNLOADING PANELS, SPREADER BAR & NYLON STRAPS OF THE PROPER SIZE, LENGTH, AND SPACING ARE TO BE USED BY SKILLED PERSONNEL APPLYING PROPER PROCEDURES TO PREVENT BUCKLING OR DAMAGE OF PANELS AND POSSIBLE BODILY INJURY.

II(b). UPON DELIVERY INSPECT & TAKE INVENTORY OF ALL PARTS. NOTE ANY DAMAGED OR MISSING PARTS ON THE BILL OF LADING AND CONTACT FACTORY IMMEDIATELY.

II(c). INSPECT PANELS & TRIM FOR MOISTURE THAT MAY HAVE FORMED DURING SHIPMENT. IF MOISTURE IS PRESENT, THEN MATERIALS MUST BE UNPACKAGED, WIPED DRY, AND THEN RESTACKED.

II(d). IF INSIDE STORAGE IS NOT POSSIBLE, THEN ELEVATE ONE END OF BUNDLE AND COVER LOOSELY TO ALLOW AIR TO CIRCULATE THROUGH MATERIALS. NEVER USE PLASTIC TO COVER MATERIALS.

II(e). TRAPPED MOISTURE CAN CAUSE STAINING OF PANELS OR PROMOTE RUST ON UNPAINTED MATERIALS.

II(f). EXPOSURE TO DIRECT SUNLIGHT AND/OR HIGH HUMIDITY MAY CAUSE STRIPPABLE PLASTIC FILM TO ADHERE TO THE METAL PERMANENTLY AND DISCOLOR FINISH.

III. ERECTION NOTES:

III(a). "FLEXBEAM" PANELS ARE RECOMMENDED FOR ROOF SLOPES 1:12 AND GREATER.

III(b). 3/32" x 1/2" SEALER TAPE TO BE INSTALLED CONTINUOUSLY @ ALL SIDE LAPS OF ROOF PANELS ON ROOF SLOPES 4:12 AND LESS. SEALER TAPE IS OPTIONAL ON SLOPES GREATER THAN 4:12. SEALER TAPE TO BE USED AT END LAPS REGARDLESS OF PITCH.



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"FLEXBEAM" STANDARD DETAILS

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GENERAL NOTES

DRAWING NO.

FLEXBEAM-I

III. ERECTION NOTES(cont.):

III(c). SIDE LAP FASTENERS TO BE SPACED 16" O/C MAX.

III(d). CLOSED CELL POLYETHYLENE CLOSURES FACTORY FORMED TO THE PANEL PROFILE TO BE FIELD INSTALLED WHERE NECESSARY TO WEATHERTIGHT THE PANEL SYSTEM.

III(e). "FLEXBEAM" PANELS ARE TO BE SQUARE WITH BUILDING & ALIGNED USING MARKS @ THE EAVES, RIDGE, BASE, & VALLEYS. MARKS TO BE 36" ON CENTER.

III(f). RIBS OF "FLEXBEAM" ROOF PANELS AT RIDGE TO ALIGN WITH RIBS ON OPPOSITE SIDE OF THE RIDGE.

III(g). ANY CUTTING OR BEVELING OF PANELS @ ENDS OF PANEL RUNS, HIPS, VALLEYS, OR PENETRATIONS TO BE DONE BY THE ERECTOR IN THE FIELD.

III(h). REMOVE ALL STRIPPABLE PLASTIC AS PANELS ARE BEING ERECTED.

IV. CLEAN-UP NOTES:

IV(a). INSPECT ENTIRE ROOF AND SIDING AREA. REMOVE ANY PIECES OF STRIPPABLE PLASTIC FILM STILL LEFT ON PANELS OR FLASHING. MAKE SURE FLASHING IS PROPERLY INSTALLED AND CAULKED WHERE SHOWN ON DETAILS.

IV(b). ANY METAL SHAVINGS FROM FIELD CUTTING OR DRILLING OF PANELS, MUST BE CLEANED OFF ROOF EACH DAY TO PREVENT RUST AND/OR DISCOLORATION OF PANELS.

IV(c). TOUCH-UP ANY SCRATCHES, NICKS, OR FASTENER HEADS WITH TOUCH-UP PAINT. MAKE SURE AREA IS THOROUGHLY CLEANED AND USE ONLY AN ARTISTS BRUSH. COVER ONLY THE SCRATCH - DO NOT PAINT OVER ANY PREPAINTED AREA.

V. CAUTIONS:

V(a). CARE MUST BE TAKEN TO NOT OVER TORQUE FASTENERS.

V(b). DO NOT UNDER ANY CIRCUMSTANCE, STEP ON THE PANEL AT THE SIDE LAP & HI RIBS, OR AT THE PANEL ENDS. THE ROOF PANEL MAY NOT SUPPORT THE WEIGHT OF A MAN AT THESE LOCATIONS WHICH COULD RESULT IN SERIOUS INJURY AND IT COULD AFFECT PANEL ALIGNMENT.

V(c). CARE MUST BE TAKEN IN PROTECTING ROOF PANELS FROM OTHER TRADES, DISSIMILAR METALS, AND POSSIBLE RUN OFF OF HVAC EQUIPMENT.

V(d). THESE STANDARD DETAILS ARE PROVIDED FOR REFERENCE ONLY. OTHER DETAILS MAY BE NECESSARY BASED ON ACTUAL JOBSITE CONDITIONS, BUILDING CODE AND REGULATORY ISSUES, OWNER/ARCHITECT/CONTRACTOR/ERECTOR REQUIREMENTS AND MANY OTHER FACTORS. THE PURCHASER IS RESPONSIBLE FOR THE SELECTION, USE AND IMPLEMENTATION OF THE PROPER DETAILS.

V(e). INSURING WATER-TIGHTNESS ON ANY GIVEN PROJECT IS THE FUNCTION OF THE INSTALLER. THE ARCHITECT/GENERAL CONTRACTOR/INSTALLER HAVE THE RESPONSIBILITY TO SELECT DETAILS TO INSURE ADEQUATE WATER-TIGHTNESS TO MEET PARTICULAR BUILDING REQUIREMENTS.



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"FLEXBEAM" STANDARD DETAILS

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DATE: 6/25/25

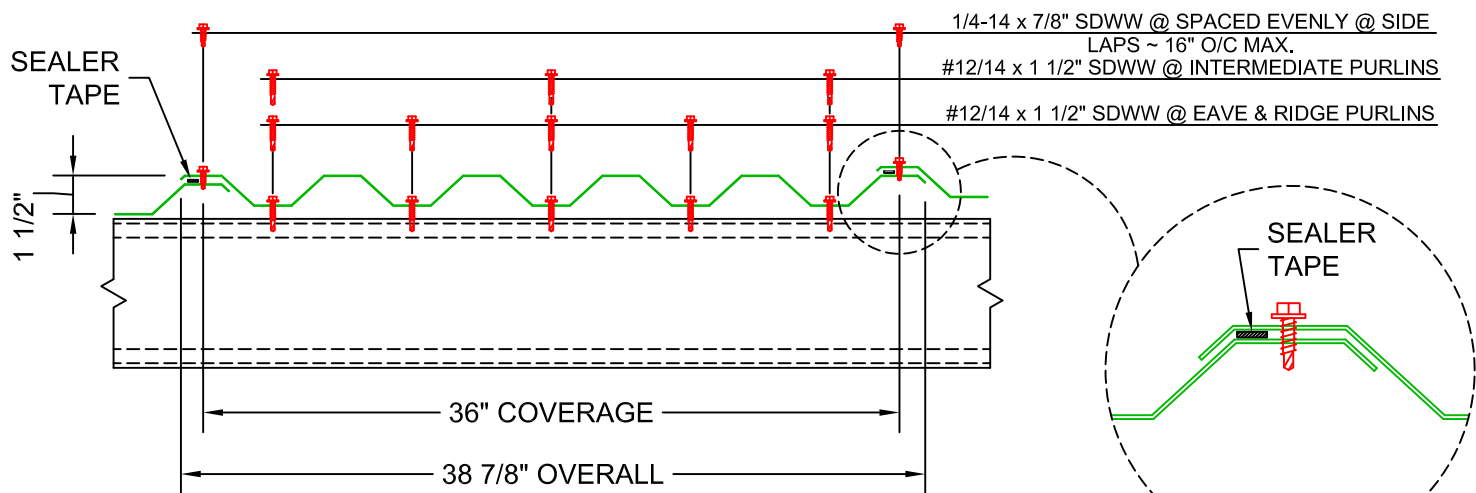
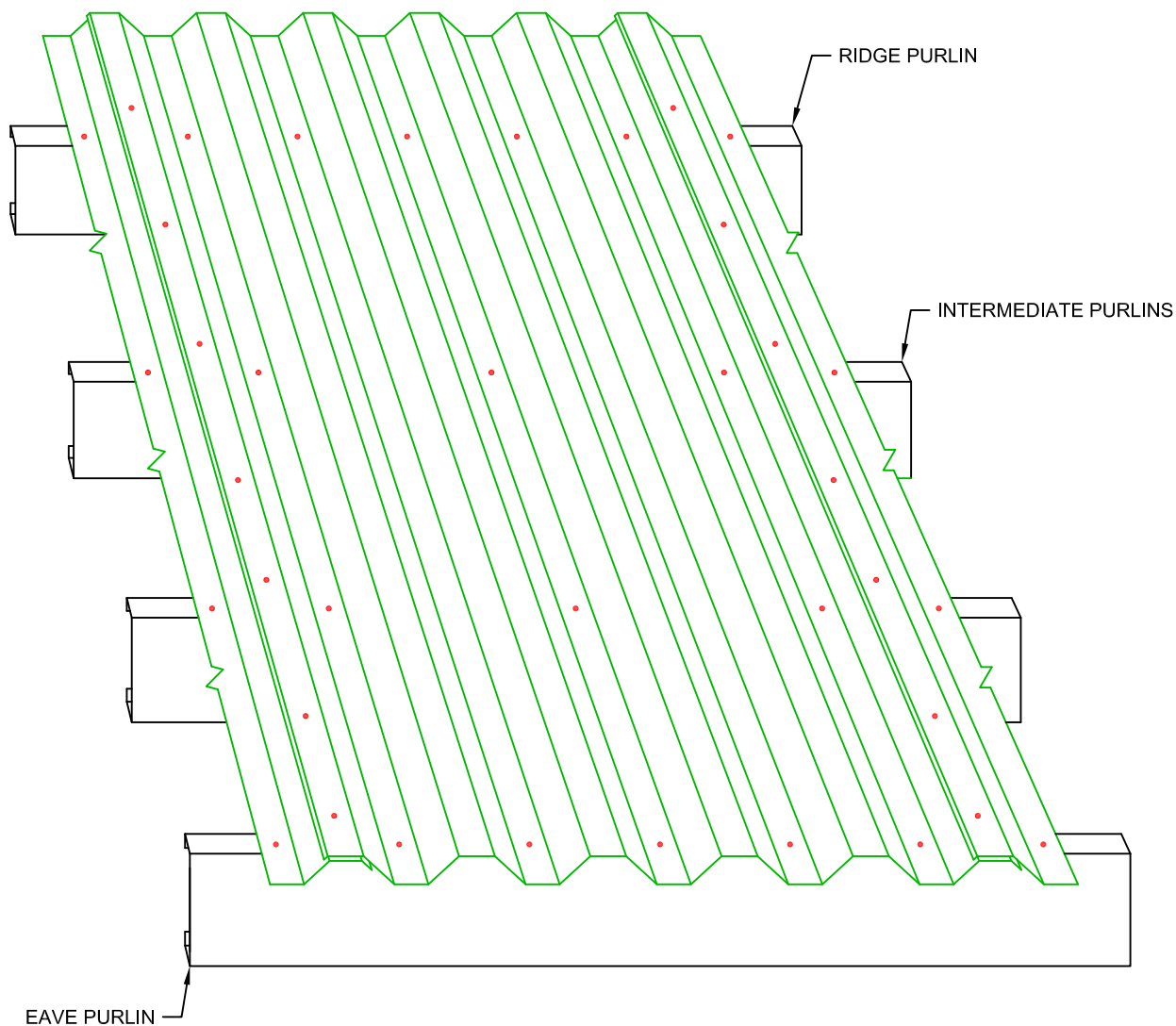
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GENERAL NOTES(CONT.)

DRAWING NO.

FLEXBEAM-2



NOTE: SEALER TAPE TO BE USED @ ALL SIDE & END LAPS ON ROOF PITCHES 4:12 AND LESS.



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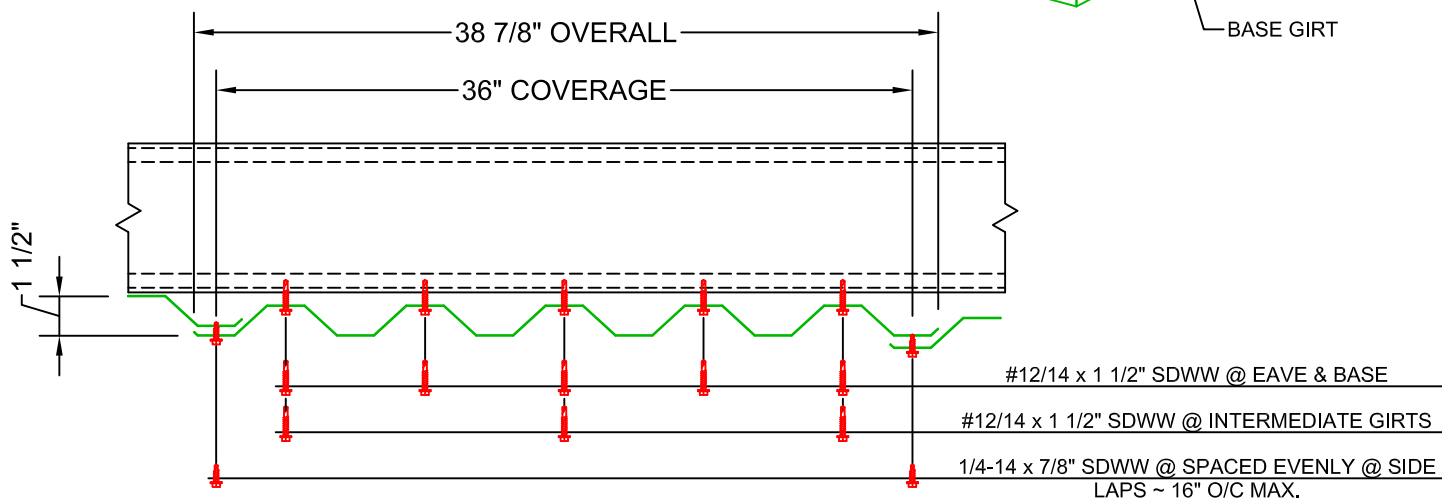
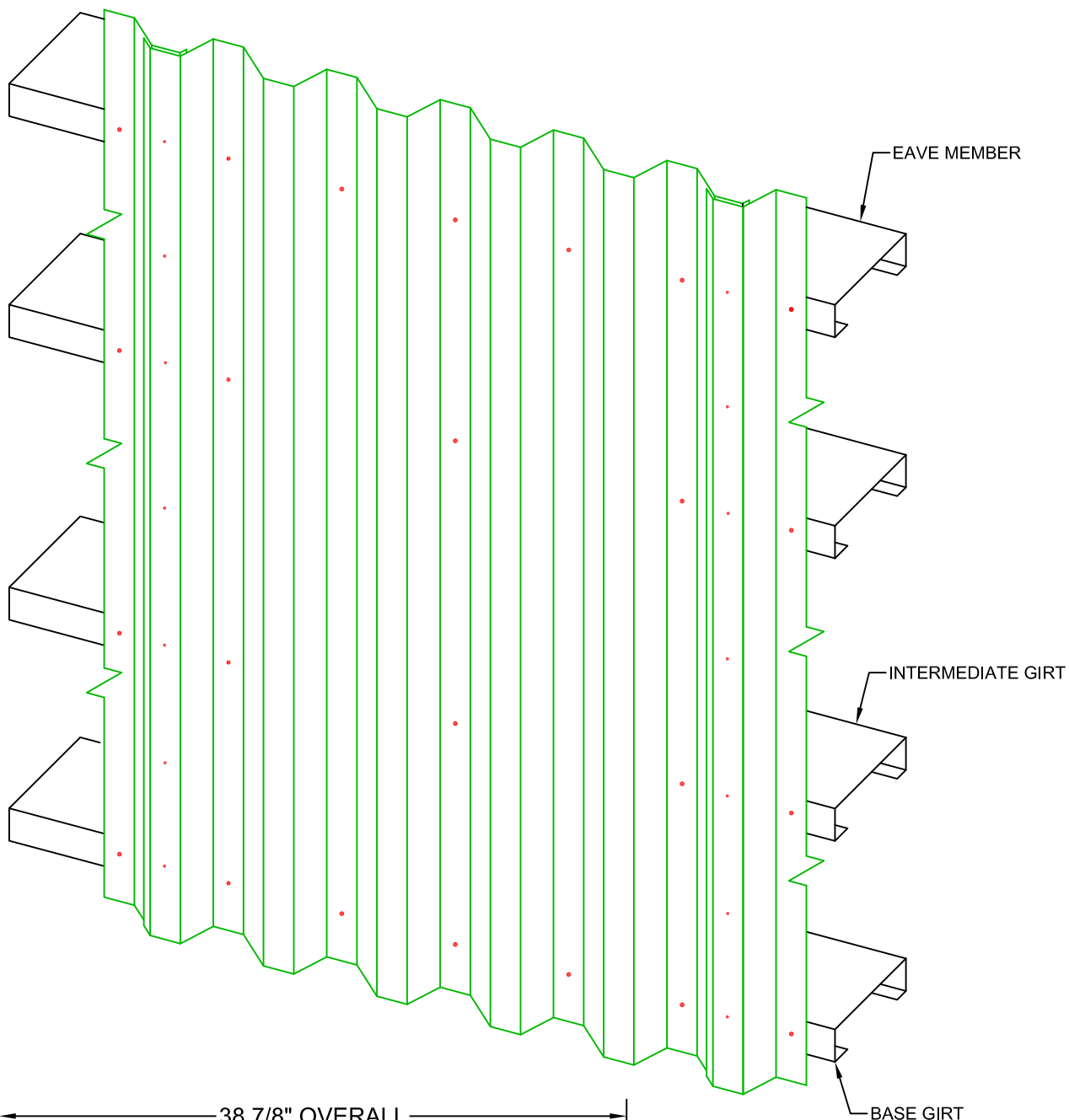
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ISOMETRIC ROOFING
 FASTENER DETAIL

DRAWING NO.

FLEXBEAM-3



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"FLEXBEAM" STANDARD DETAILS

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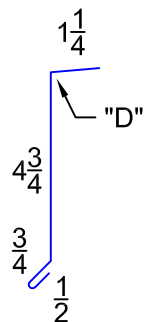
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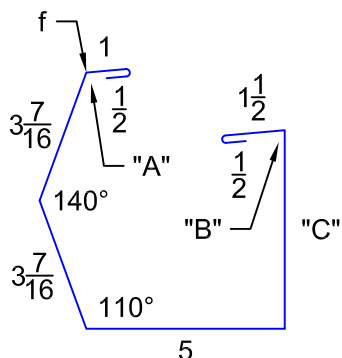
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FASTENER DETAIL

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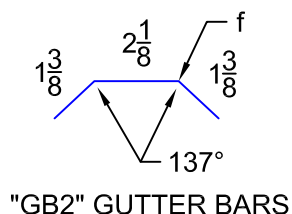
FLEXBEAM-4



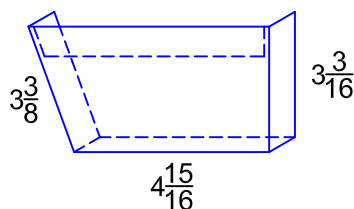
"LE3" EAVE TRIM



"FBGU1" GUTTER

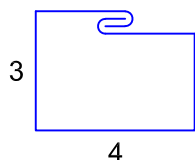


"GB2" GUTTER BARS



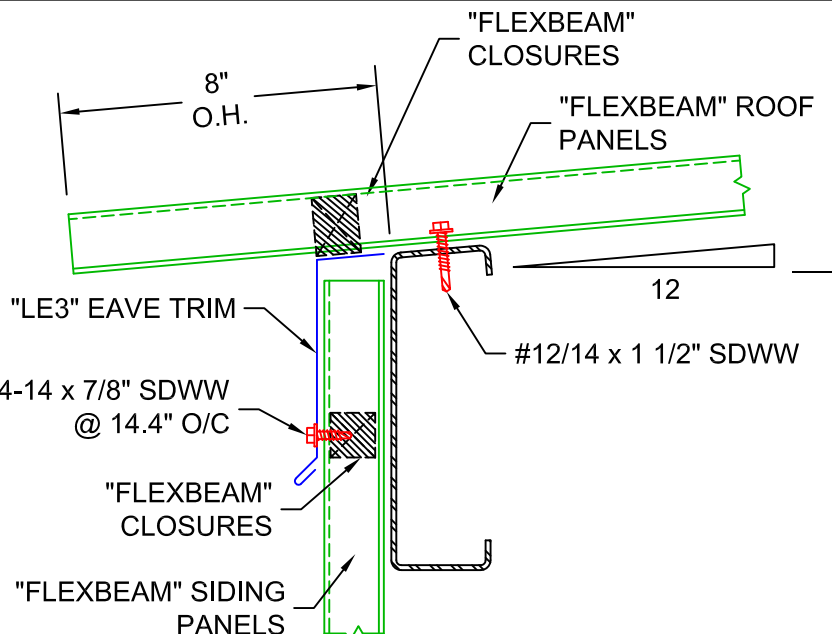
"GU1EC(R&L)" END CAPS

"GU1ECR" ~ AS SHOWN
"GU1ECL" ~ OPP. HAND

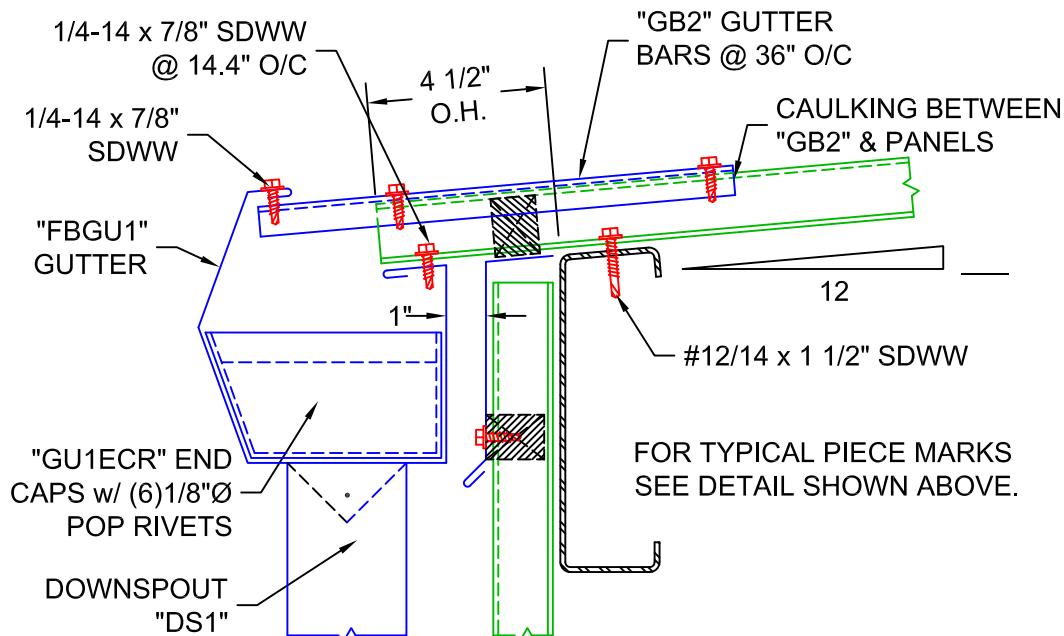


"DS1" DOWNSPOUTS

ROOF PITCH	GIRTH	"A"	"B"	"C"	"D"
1:12	20 3/4"	115°	85°	5 3/8"	95°
2:12	21 1/8"	119°	81°	5 3/4"	100°
3:12	21 9/16"	124°	76°	6 3/16"	104°
4:12	21 15/16"	128°	72°	6 9/16"	109°
5:12	22 5/16"	133°	67°	6 15/16"	113°



EAVE w/ TRIM



EAVE w/ TRIM & GUTTER

NOTES:

1. GUTTER TO BE CAULKED & LAPPED 4" MIN. AND POP RIVETED TOGETHER USING (8) 1/8"Ø POP RIVETS.
2. FIELD LOCATE AND MARK DOWNSPOUT LOCATION IN BOTTOM OF GUTTER. DRAW LINE FROM CORNER TO CORNER AND CUT ALONG LINE. BEND TABS DOWN AND POP RIVET INSIDE DOWNSPOUT.
3. USE THE CHART TO THE LEFT FOR DIMENSION VALUES FOR YOUR PARTICULAR ROOF PITCH.
4. GUTTER SIZE AND GUTTER BAR SPACING MUST BE ADJUSTED TO SUIT LOCAL WEATHER PECULIARITIES AND/OR TO ACCOMMODATE LONG ROOF SLOPES.



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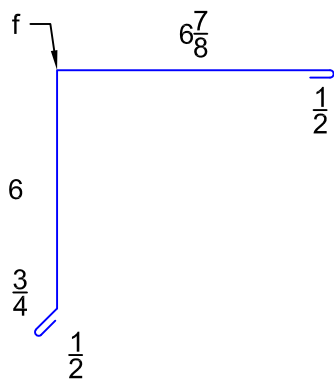
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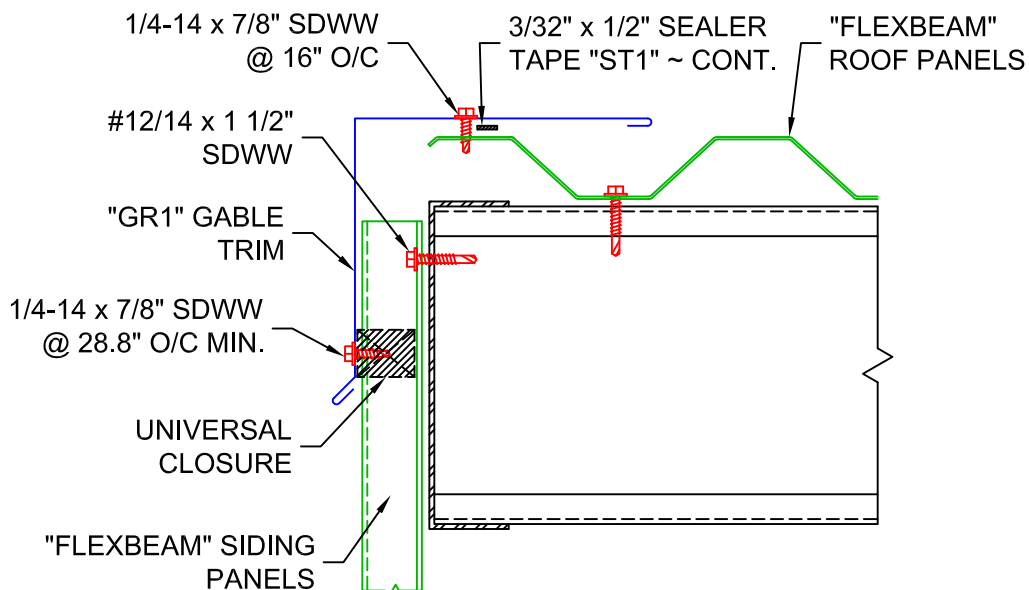
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FLEXBEAM-5

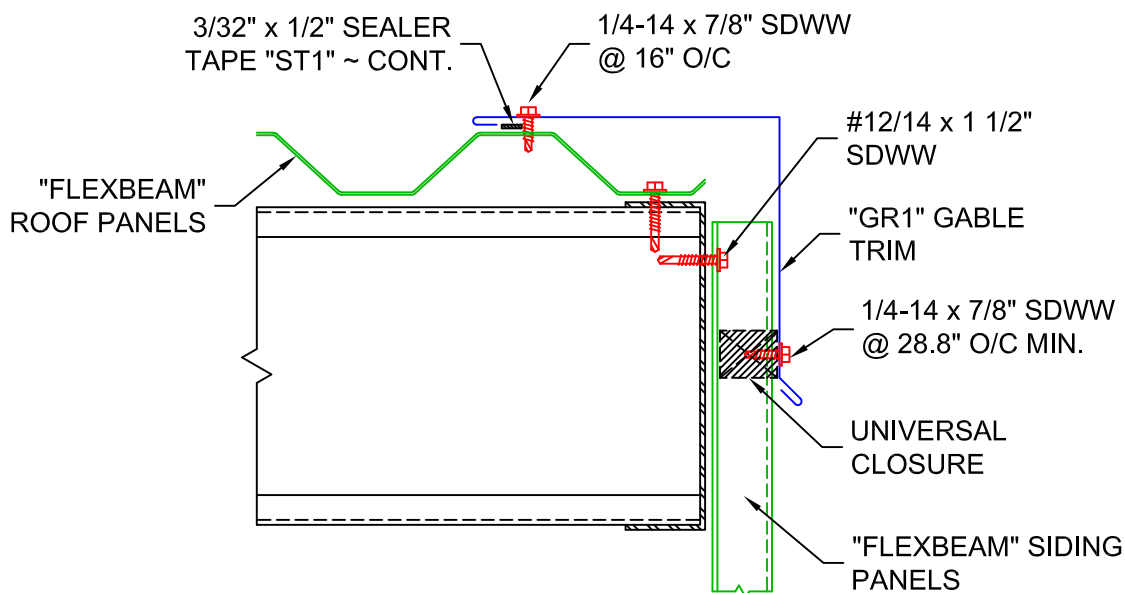
EAVE DETAILS



"GR1" GABLE TRIM



START GABLE DETAIL



FINISH GABLE DETAIL



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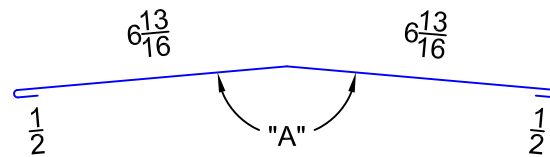
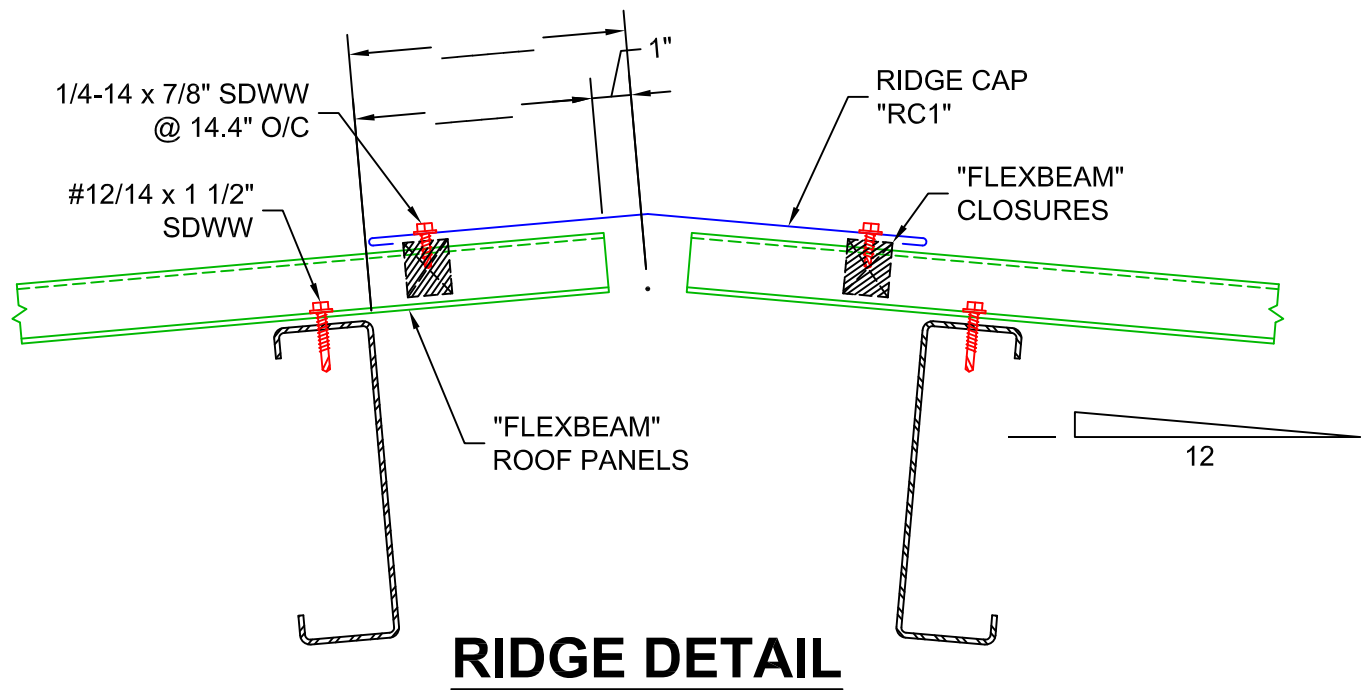
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GABLE DETAILS

DRAWING NO.

FLEXBEAM-6



"RC1" RIDGE CAP

PITCH	"A" ANGLE
1:12	171°
2:12	161°
3:12	152°
4:12	143°
5:12	135°



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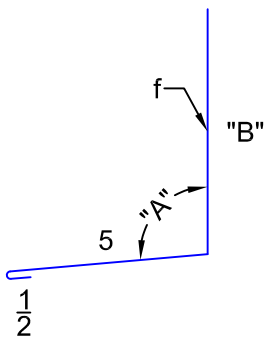
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RIDGE DETAIL

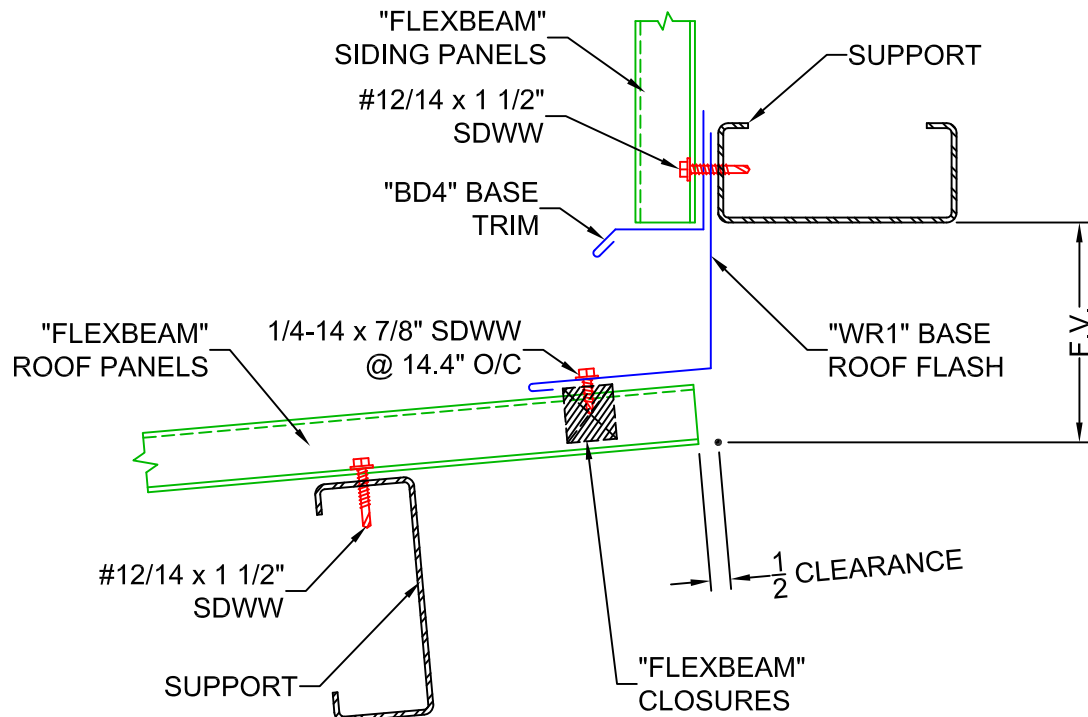
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FLEXBEAM-7

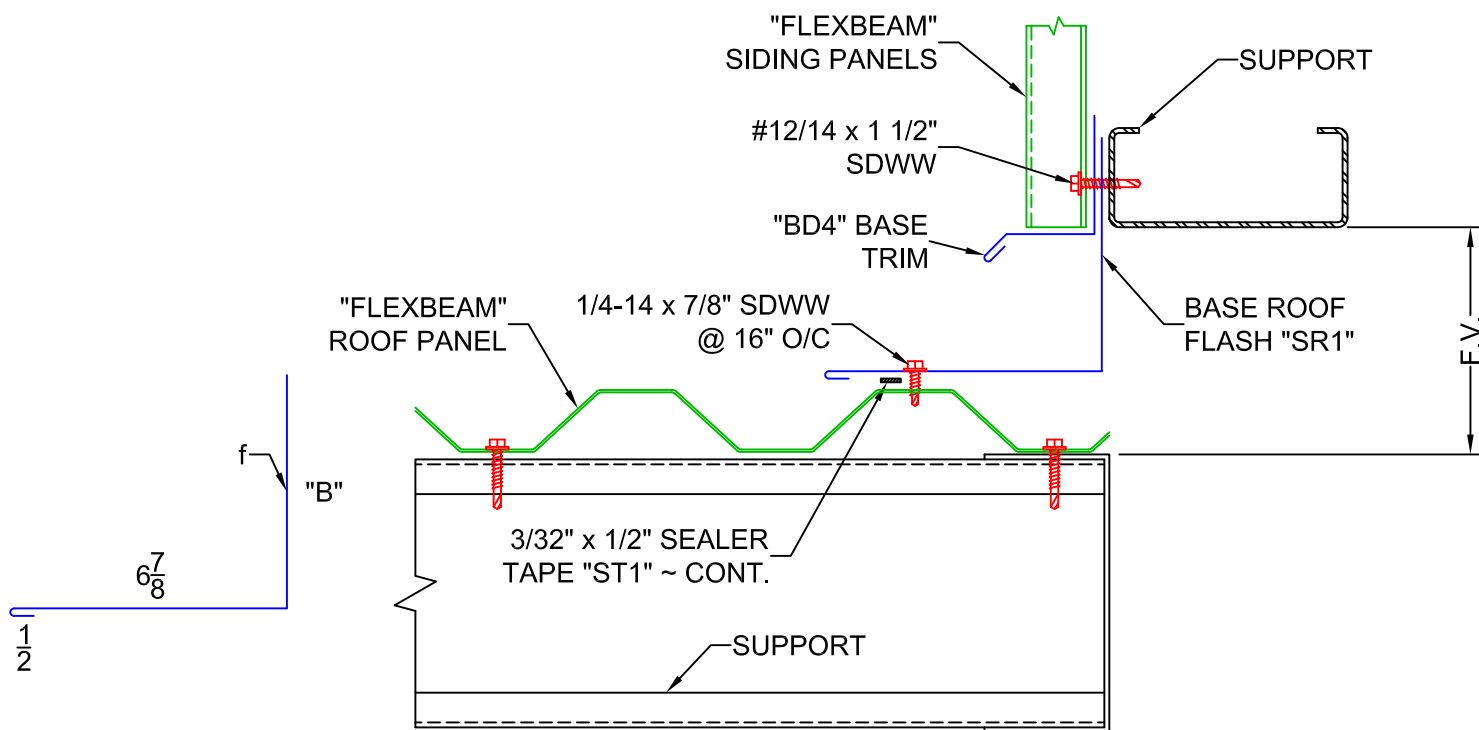


"WR1" BASE ROOF FLASH

PITCH	"A" ANGLE
1:12	95°
2:12	99°
3:12	104°
4:12	108°
5:12	113°



BASE ROOF(HALF RIDGE) DETAIL



"SR1" BASE ROOF FLASH

BASE ROOF DETAIL

ERECTOR NOTES:

1. ENDS OF BASE ROOF FLASH SHOULD BE CAULKED AND LAPPED 4" AWAY FROM PREVAILING WIND. FLASHING SHOULD BE STITCHED TOGETHER AT ENDS USING TWO 1/4-14 x 7/8" SDWW FASTENERS.
2. "A" & "B" DIMENSIONS VARY DUE TO CONSTRUCTION VARIATIONS.



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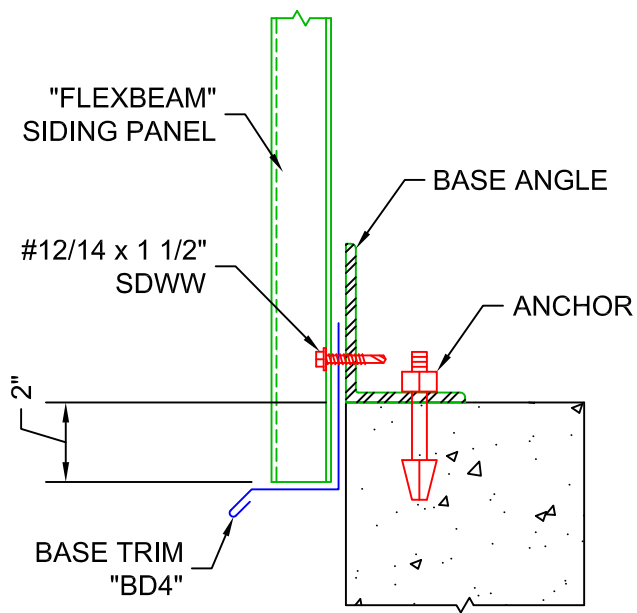
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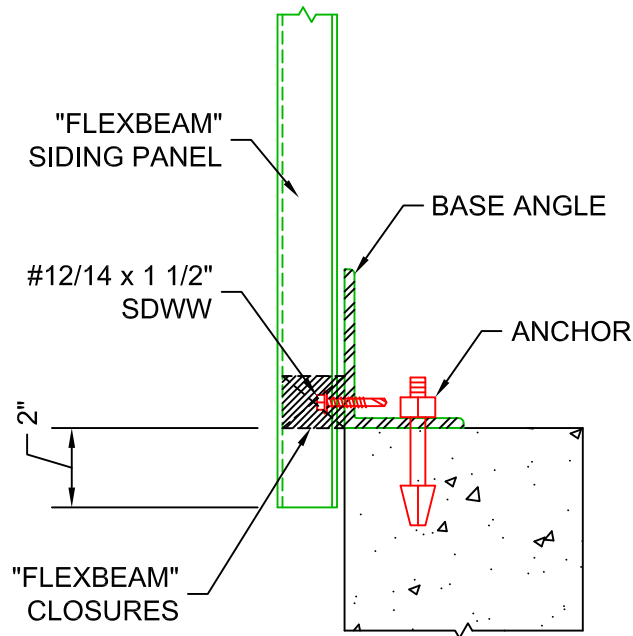
BASE ROOF DETAILS

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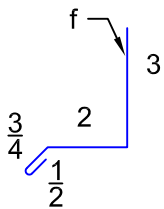
FLEXBEAM-8



CURB w/ TRIM



CURB w/ CLOSURE



"BD4" BASE TRIM



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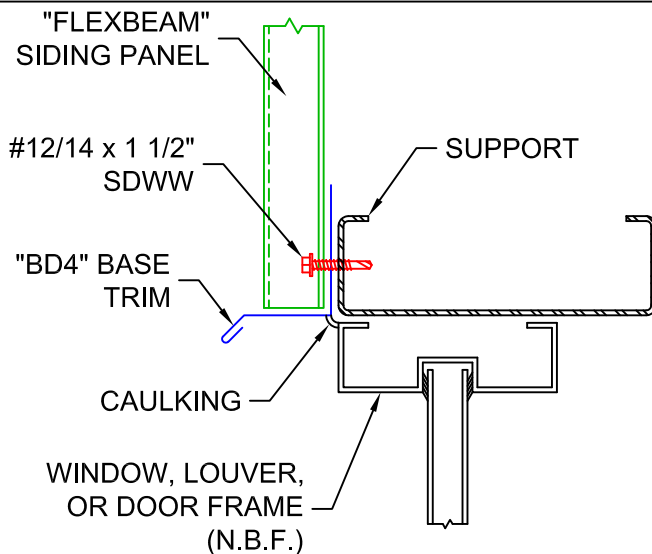
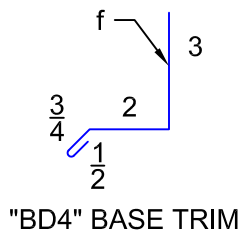
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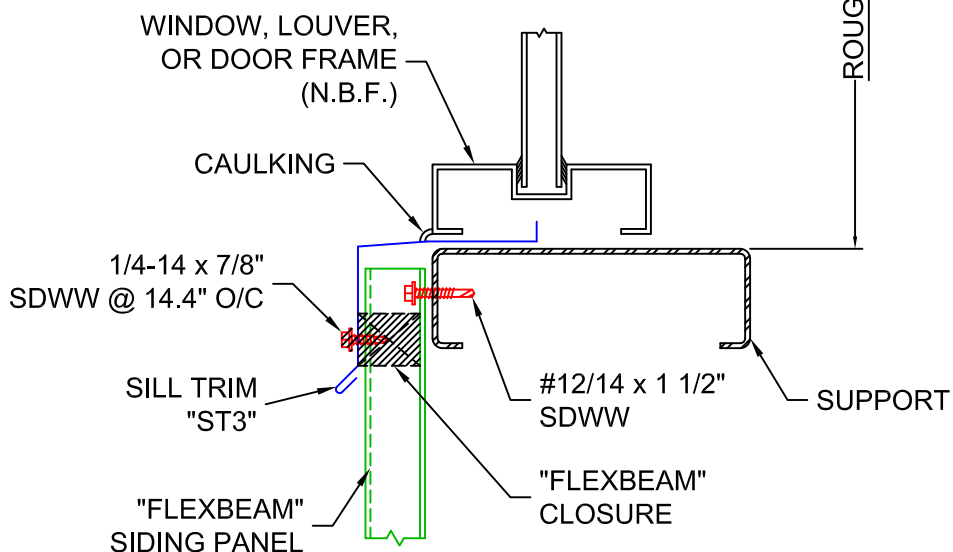
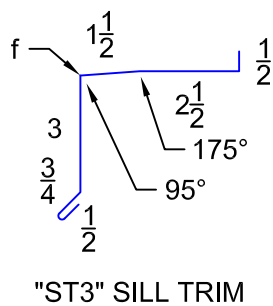
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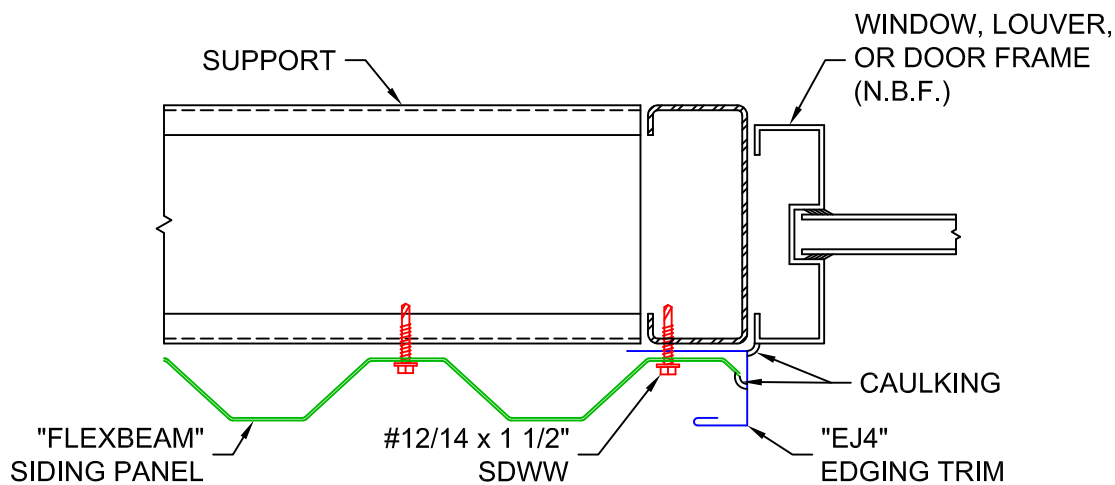
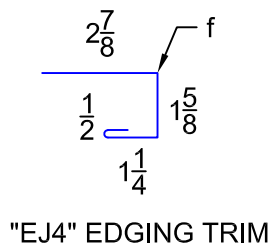
FLEXBEAM-9



OPENING HEAD



OPENING SILL



OPENING JAMB



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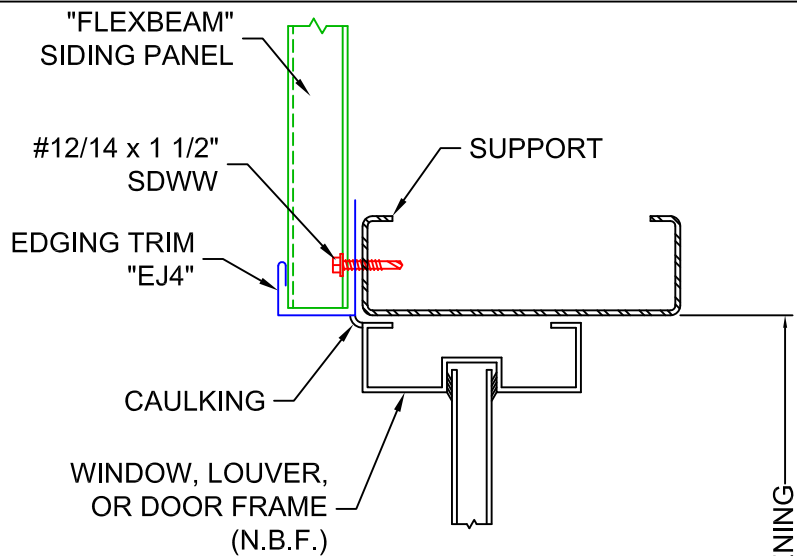
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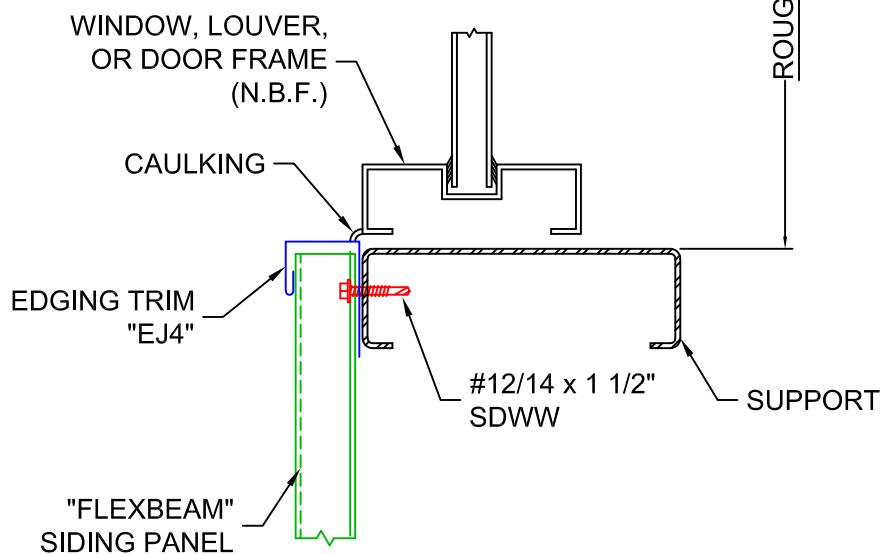
OPENING HEAD, SILL, & JAMB
DETAILS

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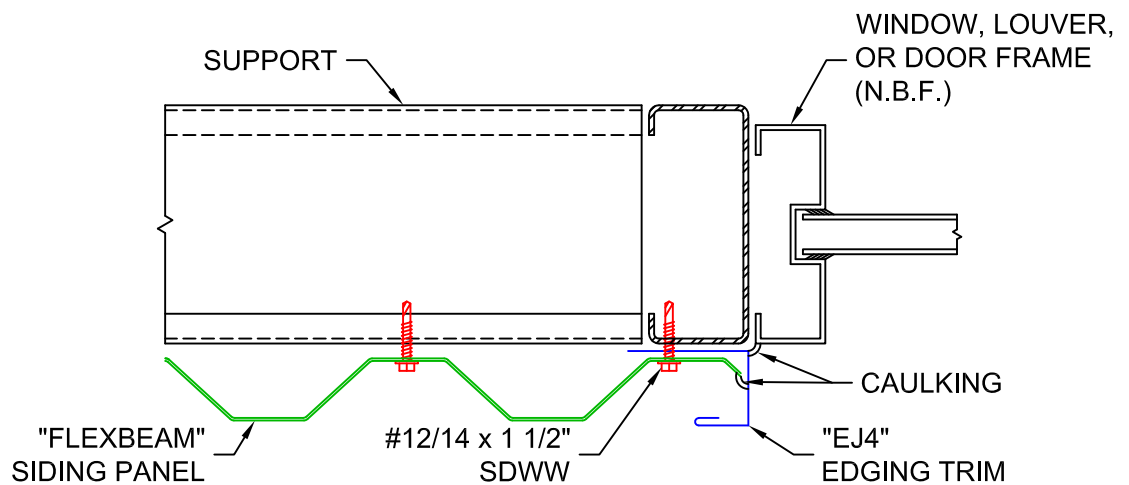
FLEXBEAM-10



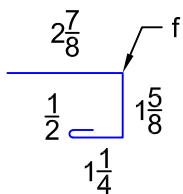
OPENING HEAD



OPENING SILL



OPENING JAMB



"EJ4" EDGING TRIM



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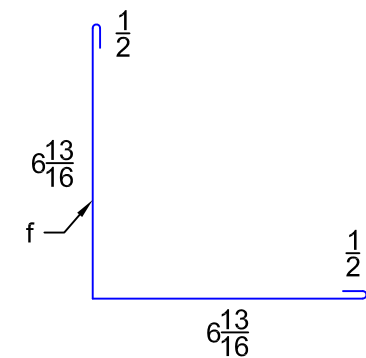
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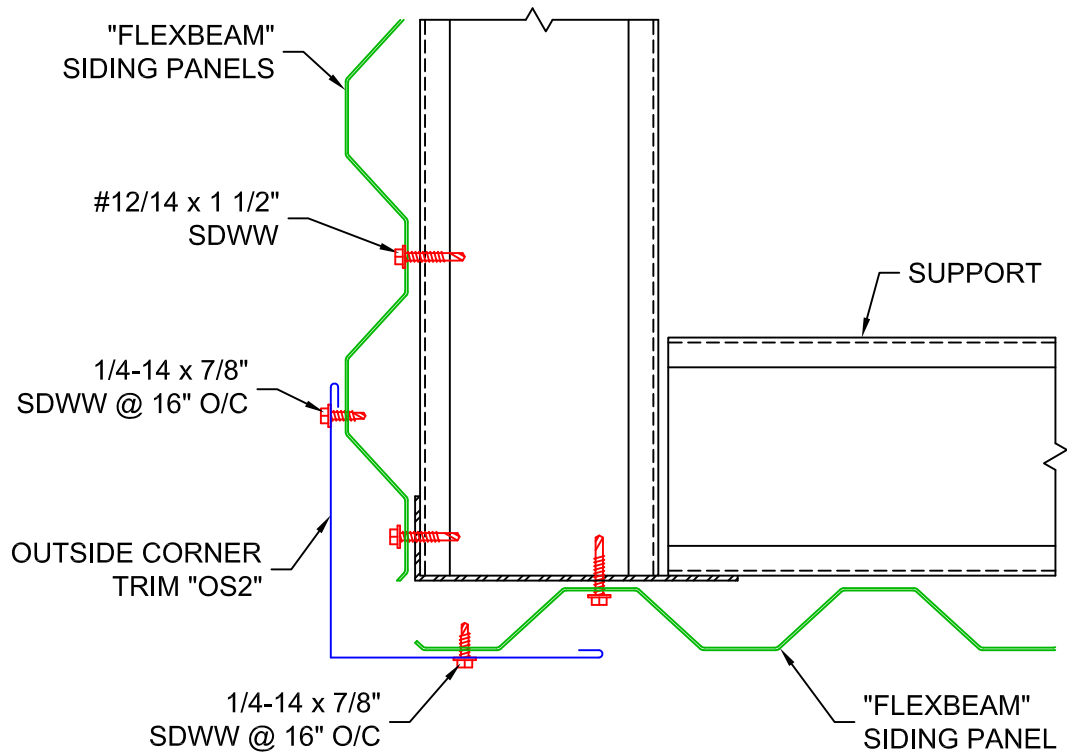
OPENING HEAD, SILL, & JAMB
DETAILS

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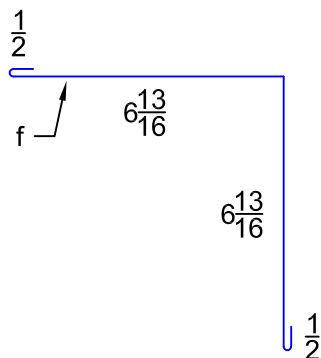
FLEXBEAM-10B



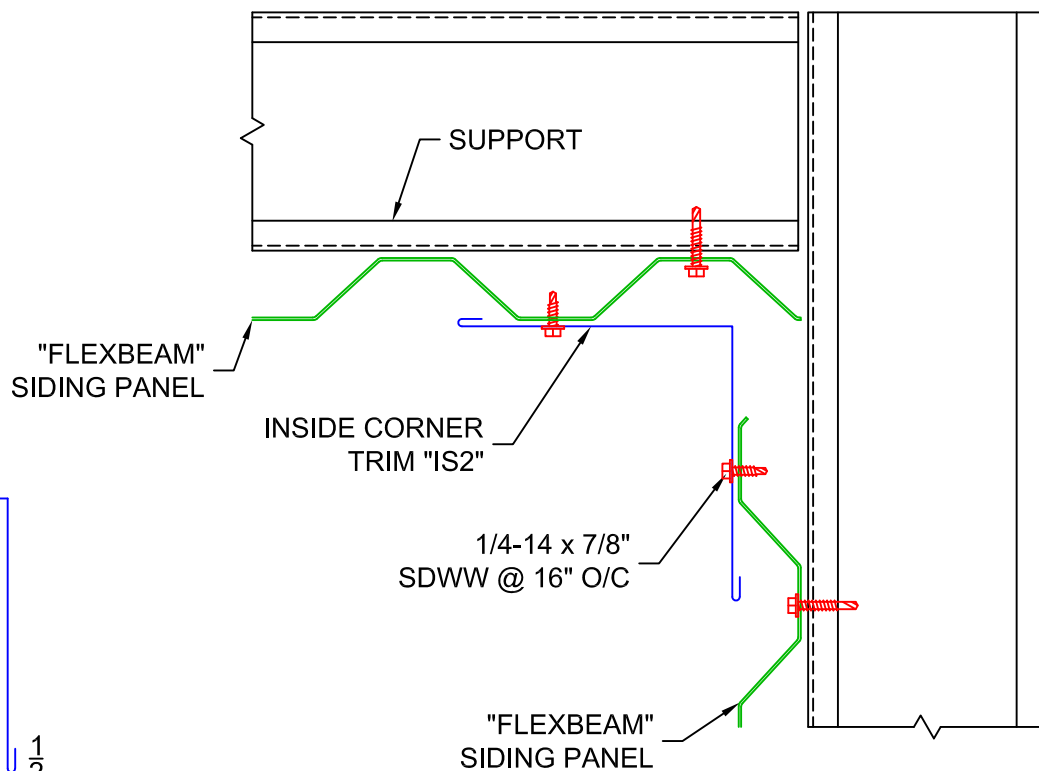
"OS2" OUTSIDE CORNER TRIM



OUTSIDE CORNER DETAIL



"IS2" INSIDE CORNER TRIM



INSIDE CORNER DETAIL



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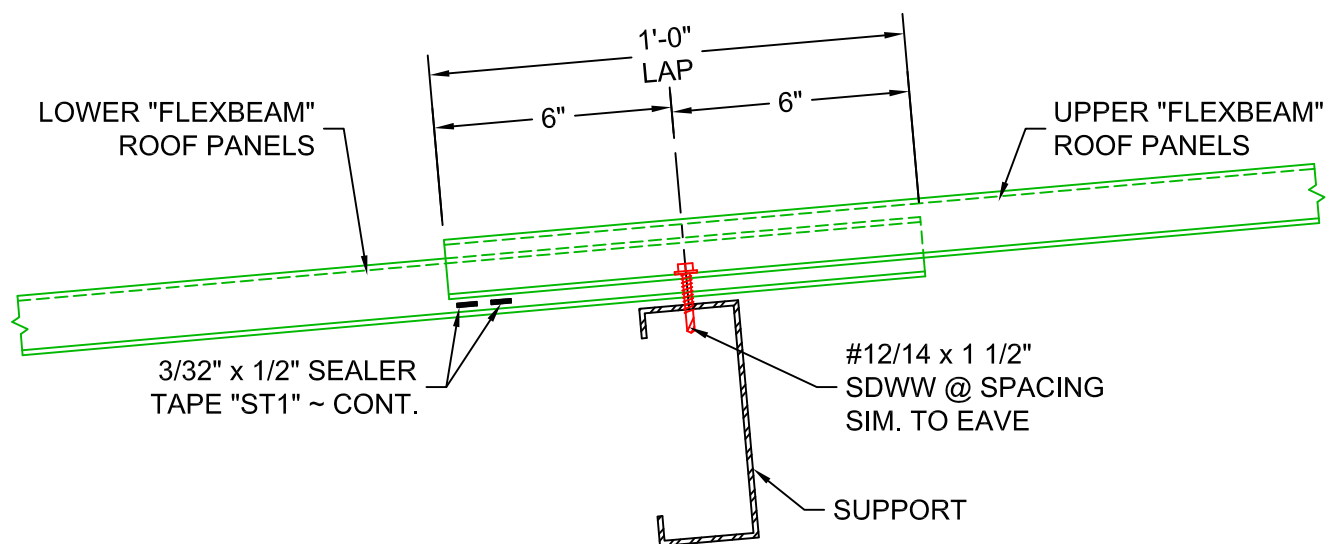
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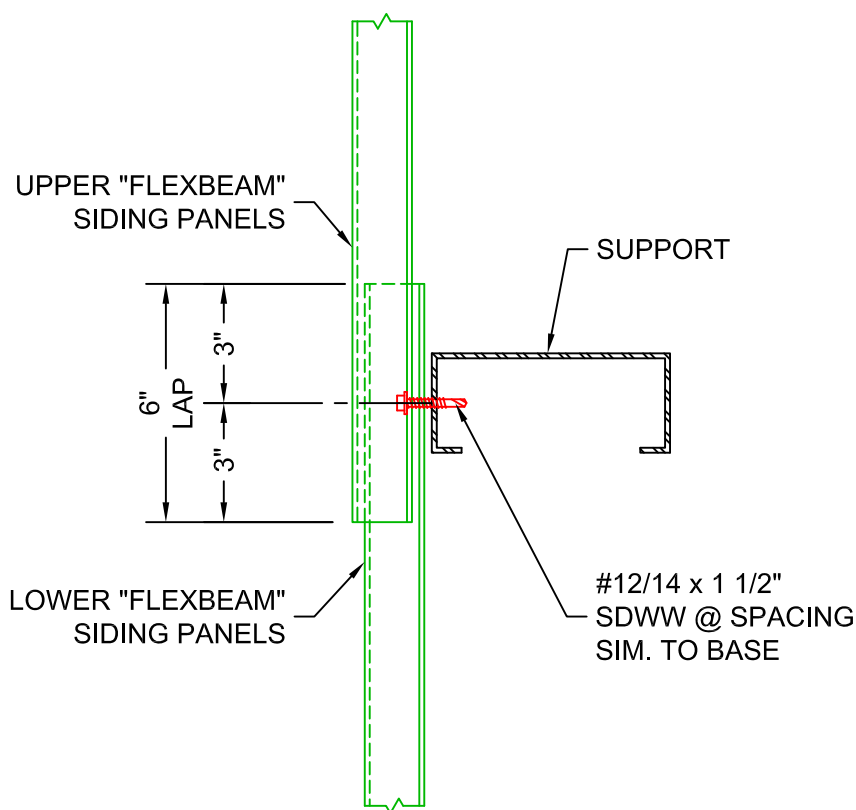
OUTSIDE & INSIDE CORNER
DETAILS

DRAWING NO.

FLEXBEAM-II



ROOF PANEL END LAP DETAIL



SIDING PANEL END LAP DETAIL

NOTES:

1. 3/32" x 1/2" SEALER TAPE "ST1" TO BE USED @ END LAPS OF ALL ROOF PANELS REGARDLESS OF ROOF PITCH.
2. ROOF PANEL END LAPS SHOULD BE STAGGERED WHEN POSSIBLE.



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ROOF & SIDING END LAP
DETAILS

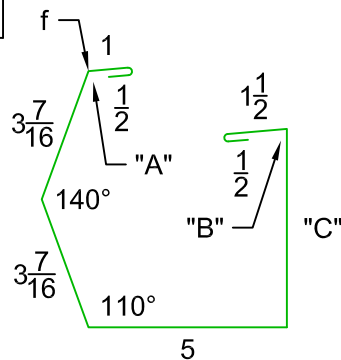
DRAWING NO.

FLEXBEAM-12

"FLEXBEAM" STANDARD TRIM SKETCHES

GA. # _____ COLOR _____

GIRTH



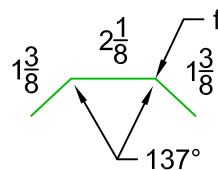
ROOF PITCH	GIRTH	"A"	"B"	"C"
1:12	20 3/4"	115°	85°	5 9/16"
2:12	21 1/8"	119°	81°	5 15/16"
3:12	21 9/16"	124°	76°	6 3/8"
4:12	21 15/16"	128°	72°	6 3/4"
5:12	22 5/16"	133°	67°	7 1/8"

REQ'D: _____ PCS. @ 10'-0" LG.

"FBGU1" GUTTER

GA. # _____ COLOR _____

4 7/8"

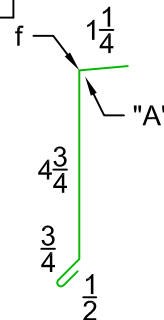


REQ'D: _____ PCS. @ 1'-0" LG.

"GB2" GUTTER BARS

GA. # _____ COLOR _____

7 1/4"



PITCH	"A" ANGLE
1:12	95°
2:12	99°
3:12	104°
4:12	108°
5:12	113°

REQ'D: _____ PCS. @ 10'-0" LG.

"LE3" EAVE TRIM

NOTES:

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2. MAXIMUM LENGTH OF TRIM IS 10'-0".
3. PLEASE INSERT GAUGE OF MATERIAL IN SPACES PROVIDED.
4. PLEASE INSERT COLOR OF MATERIAL IN SPACES PROVIDED.
5. PLEASE INSERT QUANTITY DESIRED WHERE SHOWN.
6. PLEASE INSERT REQ'D DIMENSIONS.



BOX 515 RAILROAD STREET
SANDY LAKE, PENNSYLVANIA 16145-0515
PHONE: 800-245-0396 • FAX: 724-376-3864

"FLEXBEAM" STANDARD DETAILS

DRAWN BY: D. JUREY

DATE: 6/26/25

REVISED BY:

DATE:

"FLEXBEAM" STANDARD TRIM
SKETCHES

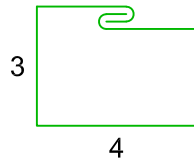
DRAWING NO.

FLEXBEAM-13

"FLEXBEAM" STANDARD TRIM SKETCHES

GA. # _____ COLOR _____

15 1/2"

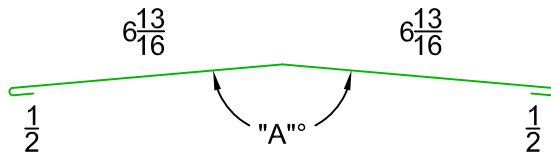


REQ'D: _____ PCS. @ 10'-0" LG.

"DS1" DOWNSPOUTS

GA. # _____ COLOR _____

14 5/8"



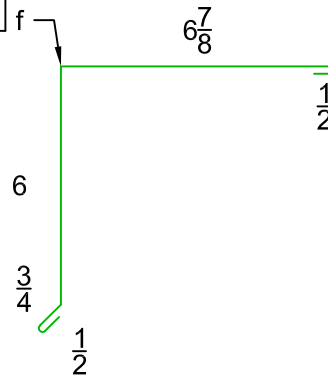
PITCH	"A" ANGLE
1:12	171°
2:12	161°
3:12	152°
4:12	143°
5:12	135°

REQ'D: _____ PCS. @ 10'-0" LG.

"RC1" RIDGE CAP

GA. # _____ COLOR _____

14 5/8"



REQ'D: _____ PCS. @ 10'-0" LG.

"GR1" GABLE TRIM

GA. # _____ COLOR _____



PITCH	"A" ANGLE
1:12	95°
2:12	99°
3:12	104°
4:12	108°
5:12	113°

REQ'D: _____ PCS. @ 10'-0" LG.

"WR1" BASE ROOF

NOTES:

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"FLEXBEAM" STANDARD DETAILS

DRAWN BY:

D. JUREY

DATE:

6/26/25

REVISED BY:

DATE:

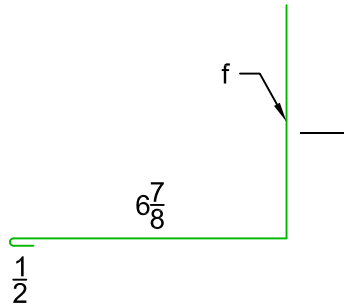
"FLEXBEAM" STANDARD TRIM
SKETCHES

DRAWING NO.

FLEXBEAM-14

"FLEXBEAM" STANDARD TRIM SKETCHES

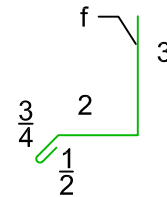
GA.	# _____ COLOR _____



REQ'D: _____ PCS. @ 10'-0" LG.

"SR1" BASE ROOF

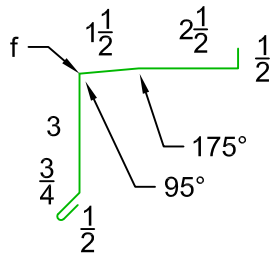
GA.	# _____ COLOR _____
6 1/4"	



REQ'D: _____ PCS. @ 10'-0" LG.

"BD4" BASE TRIM

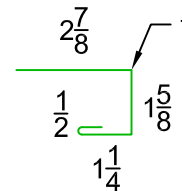
GA.	# _____ COLOR _____
8 3/4"	



REQ'D: _____ PCS. @ 10'-0" LG.

"ST3" SILL TRIM

GA.	# _____ COLOR _____
6 1/4"	



REQ'D: _____ PCS. @ 10'-0" LG.

"EJ4" EDGING TRIM

NOTES:

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"FLEXBEAM" STANDARD DETAILS

DRAWN BY: D. JUREY

REVISED BY:

DATE: 6/26/25

DATE:

"FLEXBEAM" STANDARD TRIM
SKETCHES

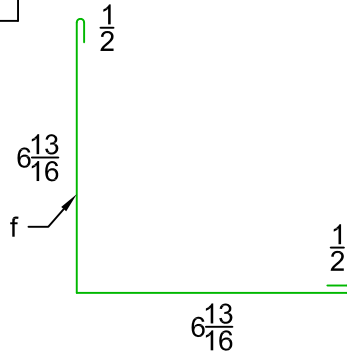
DRAWING NO.

FLEXBEAM-15

"FLEXBEAM" STANDARD TRIM SKETCHES

GA. # _____ COLOR _____

14 5/8"

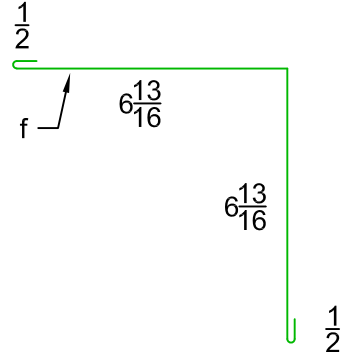


REQ'D: _____ PCS. @ 10'-0" LG.

"OS2" O.S. CORNER

GA. # _____ COLOR _____

14 5/8"



REQ'D: _____ PCS. @ 10'-0" LG.

"IS2" I.S. CORNER

GA. # _____ COLOR _____



REQ'D: _____ PCS. @ 10'-0" LG.

GA. # _____ COLOR _____



REQ'D: _____ PCS. @ 10'-0" LG.

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"FLEXBEAM" STANDARD DETAILS

DRAWN BY:

D. JUREY

DATE:

6/26/25

REVISED BY:

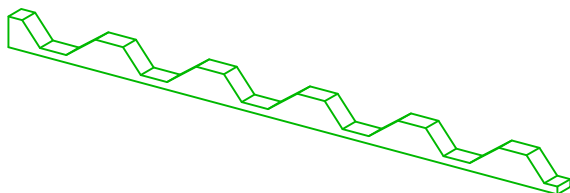
DATE:

"FLEXBEAM" STANDARD TRIM
SKETCHES

DRAWING NO.

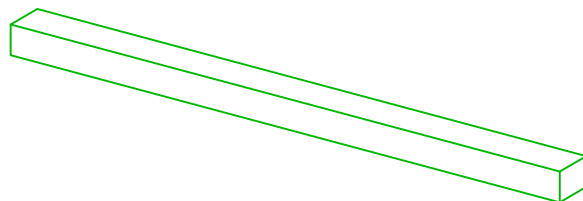
FLEXBEAM-16

"FLEXBEAM" STANDARD ACCESSORIES



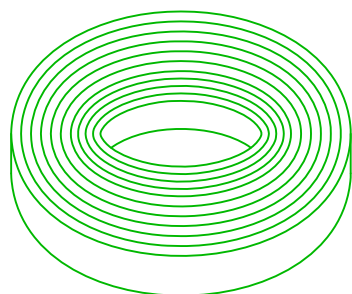
REQ'D: _____ PCS. @ 3'-3" LG.

"FLEXBEAM" CLOSURES



REQ'D: _____ LIN. FT. (25' ROLL)

2" x 2" UNIVERSAL CLOSURE



REQ'D: _____ ROLLS @ 50'-0" LG.

3/32" x 1/2" SEALER TAPE "ST1"

SHEETING SCREWS



#12/14 x 1 1/2" SDWW
REQ'D: _____ PCS.

LAP & TRIM SCREWS



1/4-14 x 7/8" SDWW
REQ'D: _____ PCS.

STANDARD FASTENERS

NOTES:

- "FLEXBEAM" CLOSURES ARE A CLOSED CELL POLYETHYLENE FACTORY FORMED TO THE PANEL PROFILE AS SHOWN ABOVE.
- SEALER TAPE IS A NON-DRYING, NON-SKINNING, BUTYL BASE TAPE SUPPLIED IN 3/32" THICK x 1/2" WIDE x 50' ROLLS.
- FASTENERS ARE ZINC PLATED CARBON STEEL, 5/16" HEX HEAD, SELF DRILLING & SELF TAPPING METAL SCREWS. FASTENERS CAN BE SUPPLIED WITH PAINTED HEADS TO MATCH ROOFING OR SIDING.
- CONTACT FACTORY FOR PRICE AND AVAILABILITY OF NON-STANDARD ACCESSORIES.



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"FLEXBEAM" STANDARD DETAILS

DRAWN BY: D. JUREY

DATE: 6/26/25

CHECKED BY:

DATE:

"FLEXBEAM" STANDARD
ACCESSORIES

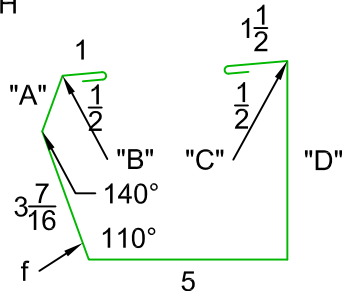
DRAWING NO.

FLEXBEAM-17

"FLEXBEAM" STANDARD TRIM SKETCHES

GA. # _____ COLOR _____

GIRTH



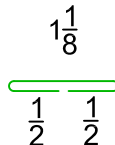
ROOF PITCH	GIRTH	"A"	"B"	"C"	"D"
1:12	19 1/4"	1 15/16"	115°	85°	5 3/8"
2:12	19 1/2"	1 13/16"	119°	81°	5 3/4"
3:12	19 15/16"	1 13/16"	124°	76°	6 3/16"
4:12	20 1/8"	1 5/8"	128°	72°	6 9/16"
5:12	20 3/8"	1 1/2"	133°	67°	6 15/16"

REQ'D: _____ PCS. @ 10'-0" LG.

"FRGU2" GUTTER

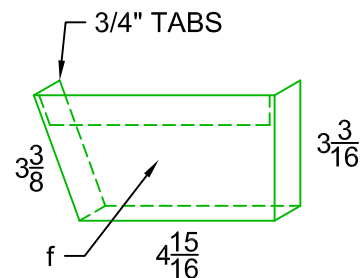
GA. # _____ COLOR _____

2 1/8



REQ'D: _____ PCS. @ 1'-0" LG.

GA. # _____ COLOR _____



"GU1ECR" ~ AS SHOWN "GU1ECL" OPP. HAND

REQ'D: _____ (RIGHT) REQ'D: _____ (LEFT)

GUTTER BARS "GSS1"

"GU1EC(R&L)" END CAPS

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"FLEXBEAM" STANDARD DETAILS

DRAWN BY: D. JUREY

DATE: 6/26/25

REVISED BY:

DATE:

"FLEXBEAM" STANDARD TRIM
SKETCHES

DRAWING NO.

FLEXBEAM-18