

STEEL BUILDINGS & STRUCTURES, LLC.

AG METAL ROOF PANEL (NON-HVHZ)

GENERAL NOTES:

1.

THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - ASTM E1592-05(17)
 - FM 4471-92
2.

ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3.

2X PURLINS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4.

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT
5.

ROOF PANEL SPECIFICATIONS:
 - PANEL MATERIAL:
 - GALVALUME STEEL
 - MIN. GRADE 80 KSI, 29 GA., MIN. THICKNESS 0.0135"
6.

INSTALLATION OF THE PANEL AND ACCESSORY PRODUCTS SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE APPLICABLE SECTIONS OF THE FBC.
7.

THIS METAL ROOF PRODUCT IS LIMITED TO BE USED WITHOUT HIP AND RIDGE COVERS.

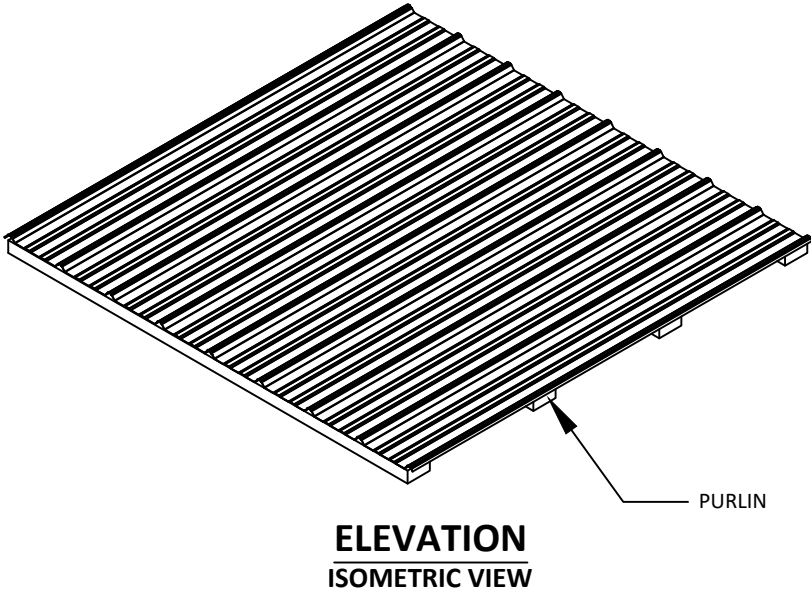


TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL NOTES
2	ELEVATION & ANCHOR LAYOUT
3	CROSS SECTIONS
4	INSTALLATION DETAILS
5	PROFILE DETAILS

DESIGN PRESSURE TABLE		
WIDTH (IN.)	SPAN (IN.)	DESIGN PRESSURE
36.00	SEE SHEET 2	



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GENERAL NOTES

PREPARED BY: BUILDING DROPS, INC.

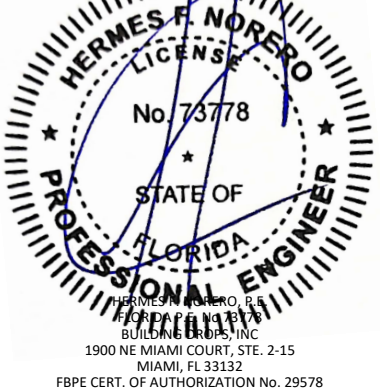
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REMARKS	BY	DATE

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Reason: I am approving this document
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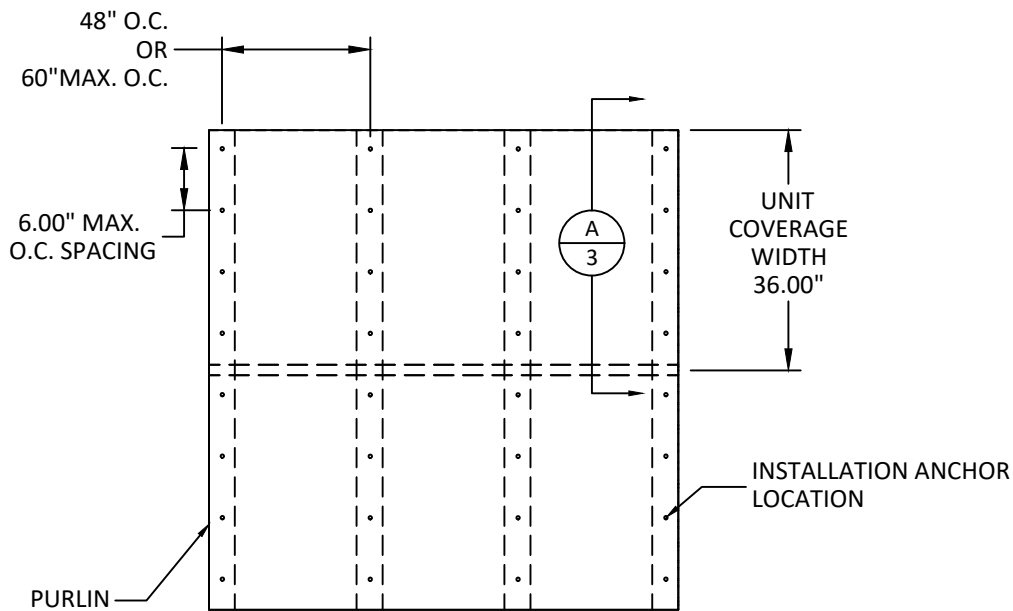
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ELEVATION &
ANCHOR LAYOUT

AG METAL ROOF PANEL

- NOTE:
- 1. BUILDING AND ROOF CONDITIONS BASED ON THE CURRENT FLORIDA BUILDING CODE, ASCE 7-22, MIN. EFFECTIVE AREA > 10 SQ. FT.
 - 2. TABLE BELOW APPLIES TO BUILDING AND ROOF CONDITIONS SUCH THAT MAX. ULTIMATE DESIGN UPLIFT PRESSURE OF 124 PSF IS NOT EXCEEDED. SAFETY FACTOR OF 2 IS APPLIED TO UPLIFT PRESSURE PER FBC SECTION 1504.9.

PURLIN/RAFTER SPACING	INSTALLATION METHOD	GIRT/HAT CHANNEL SPACING	ALLOWABLE DESIGN PRESSURE
4'-0"	DIRECT TO RAFTER/PURLIN	N/A	60 PSF MAX.
	GIRT	4'-0"	50 PSF MAX.
	HAT CHANNEL	4'-0"	40 PSF MAX.
5'-0"	DIRECT TO RAFTER/PURLIN	N/A	35 PSF MAX.
	GIRT	5'-0"	45 PSF MAX.
	HAT CHANNEL	4'-0"	35 PSF MAX.

- 1. PANEL DESCRIPTION: 29 GA. GALVALUME STEEL MIN. 0.0135" (RIB BASE, DESIGN THICKNESS) GRADE: 80 KSI MIN.
- 2. PANEL FASTENER: #12 CARBON STEEL (MIN. GRADE 5) OR STAINLESS STEEL SCREW.
- 3. GIRT: 2.5" X 2.5" X 14 GA., (MIN. 0.052"), GRADE: 50 KSI MIN.
- 4. HAT CHANNEL: 14 GA. STEEL (MIN. 0.0747"), GRADE = 50 KSI MIN.
- 5. A MAXIMUM 12" OVERHANG IS REQUIRED TO PROVIDE A DRIP EDGE.



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ELEVATION
& ANCHOR LAYOUT

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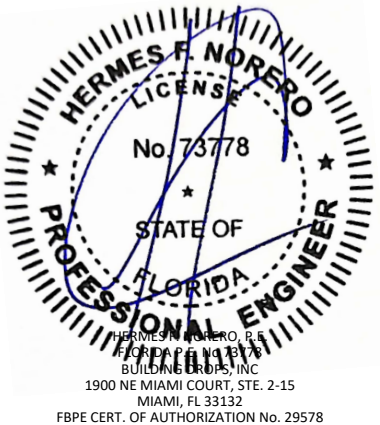
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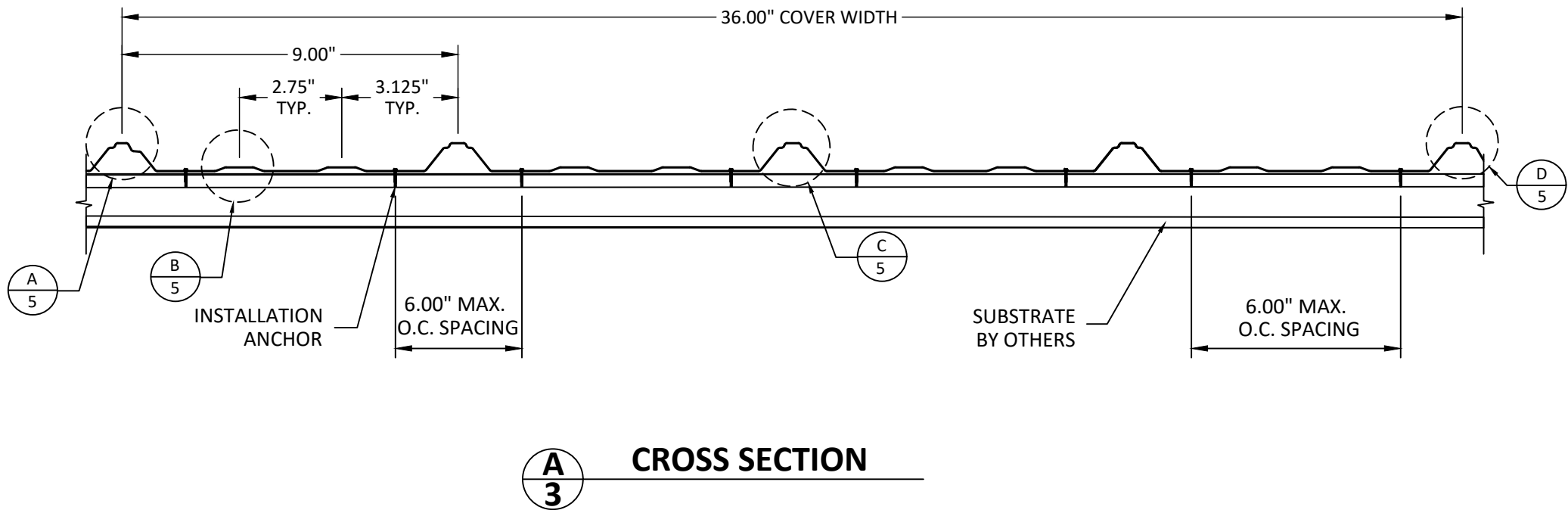
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CROSS SECTIONS

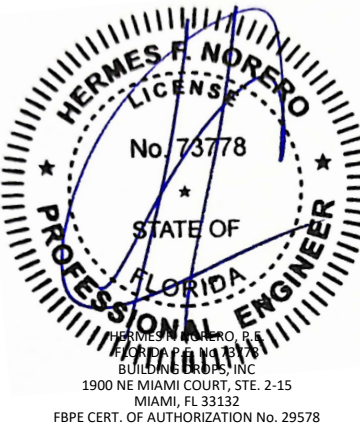
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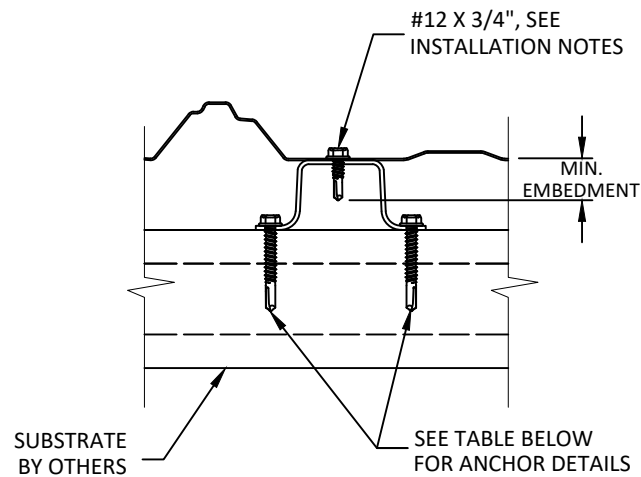
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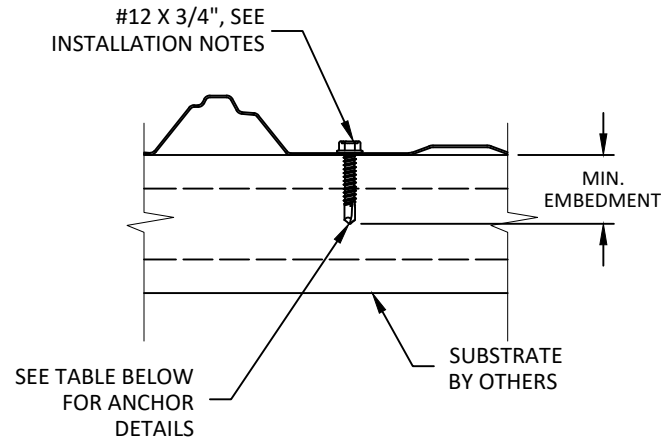
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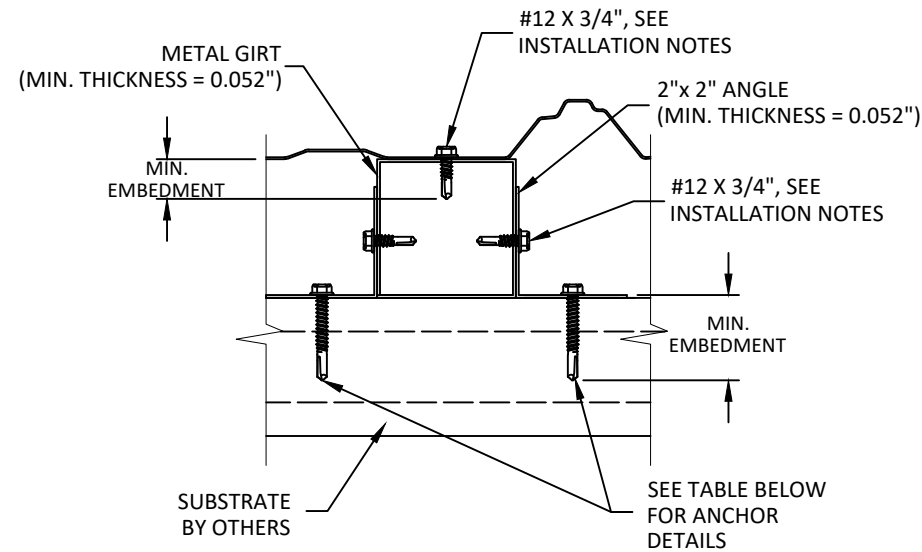


NOTE: (2) TWO ANCHORS REQUIRED FOR HAT CHANNEL CONNECTION TO SUBSTRATE

A 4 INSTALLATION DETAIL HAT CHANNEL



B 4 INSTALLATION DETAIL DIRECT TO RAFTER/PURLIN



NOTE: (4) FOUR ANCHORS REQUIRED AT EACH CONNECTION FOR GIRT CONNECTION TO SUBSTRATE

C 4 INSTALLATION DETAIL GIRT

ANCHOR SCHEDULE				
INSTALLATION METHOD	SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
GIRT, HAT CHANNEL & RAFTER/PURLIN	WOOD: MIN. SG = 0.55	#12 WOOD SCREW OR #12 GRK R4 SS SCREW*	1.50"	0.75"
	METAL: STEEL: MIN. 0.052" THICK, Fy = 50 KSI, ALUMINUM: 1/8" MIN. 6063-T5	#12 SELF DRILLING SCREW OR #12 DEWALT BIFLEX SS*	3 THREADS MIN. PENETRATION BEYOND METAL	0.75"

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/2$ INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR MASONRY OR CONCRETE OPENINGS, A 1X WOOD BUCK MAY BE USED (OPTIONAL) AS LONG AS THE MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS ARE STILL MET WITHIN THE CORRESPONDING HOST SUBSTRATE. SEE GENERAL NOTE #3 ON SHEET 1 FOR MORE INFORMATION.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
 - FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 3S, OR EQUIVALENT CORROSION RESISTANCE).
 - *FASTENERS INSTALLED WITHIN 300 FEET OF A SALTWATER COASTLINE IN EXTERIOR-PARTIALLY SHELTERED OR EXTERIOR-OPEN EXPOSED SPACES SHALL BE STAINLESS STEEL PER SECTION 1711.1.1.1 (ASTM A240 TYPE 304, A305, 316, OR 410)
 - CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED UNVENTED SPACES SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).
 - CONNECTORS AND METAL PLATES USED BETWEEN 300 AND 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED VENTED SPACES, EXTERIOR-PARTIALLY SHELTERED OR EXTERIOR-OPEN EXPOSED SPACES SHALL BE ENHANCED GALVANIZED PER SECTION 1711.1.2.2 (ASTM A653 G185, ASTM A123 AT 2.0 OZ/SF MIN, OR TPI 1 COATING).
 - *CONNECTORS AND METAL PLATES USED WITHIN 300 FEET OF A SALTWATER COASTLINE IN EXTERIOR-PARTIALLY SHELTERED OR EXTERIOR-OPEN EXPOSED SPACES SHALL BE STAINLESS STEEL PER SECTION 1711.1.2.1 (ASTM A240 TYPE 316).
 - FASTENERS USED WITH CONNECTORS OR METAL PLATES SHALL HAVE A CORROSION-RESISTANT COATING OR COMPOSITION COMPATIBLE WITH THAT OF THE CONNECTOR/PLATE TO PREVENT GALVANIC CORROSION BETWEEN DISSIMILAR MATERIALS (SECTION 1711.1.1.3).
EXCEPTION: FASTENERS AND CONNECTORS FULLY EMBEDDED IN CONCRETE OR MORTAR ARE EXEMPT FROM NOTES 6 AND 7 (SECTION 1711.1).
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.



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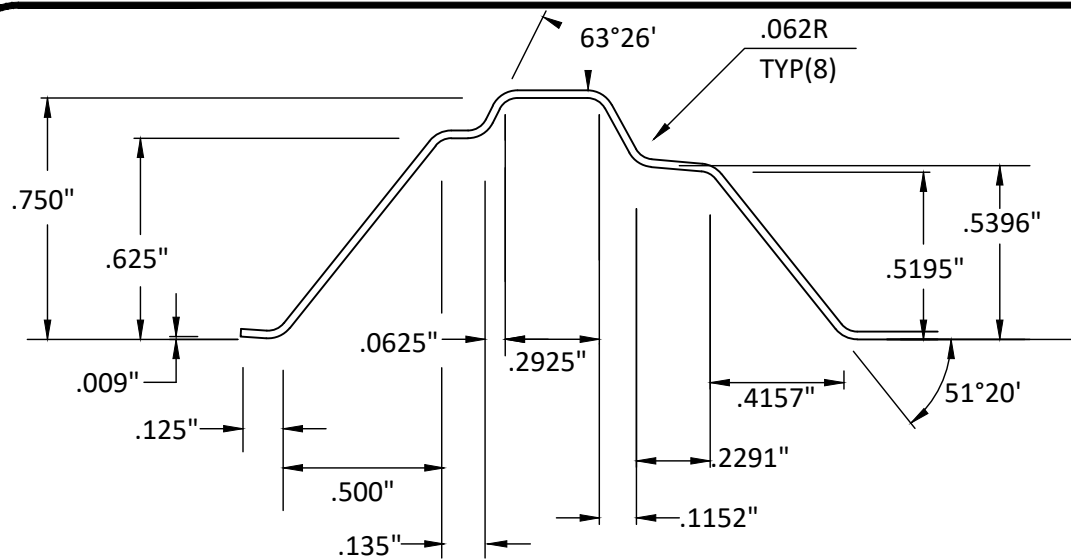
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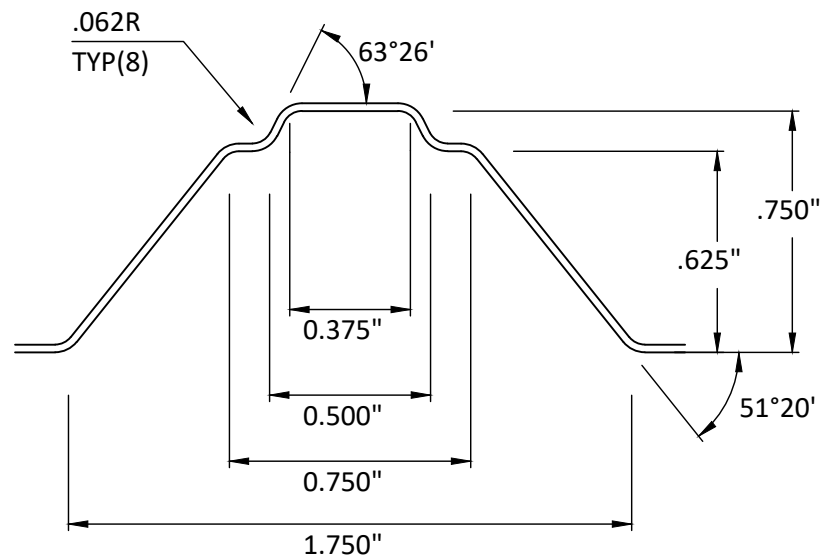


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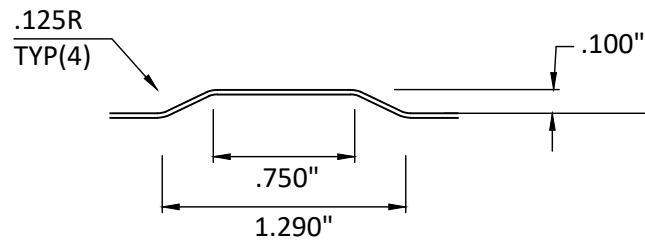
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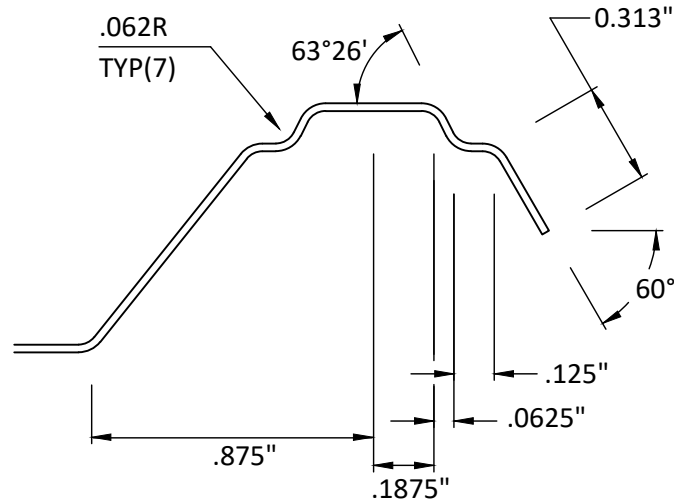
A
5 UNDERLAP SIDE DETAIL



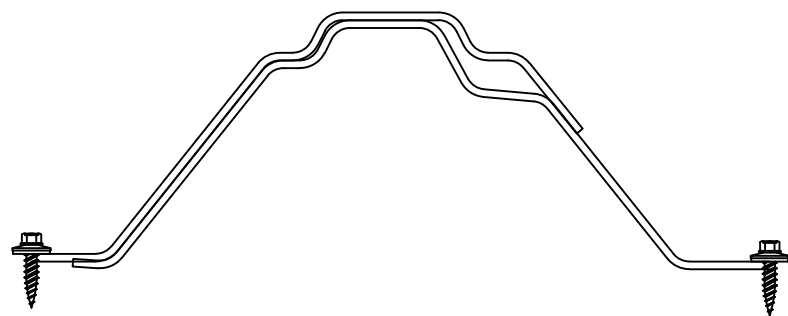
C
5 TYPICAL RIB X-3



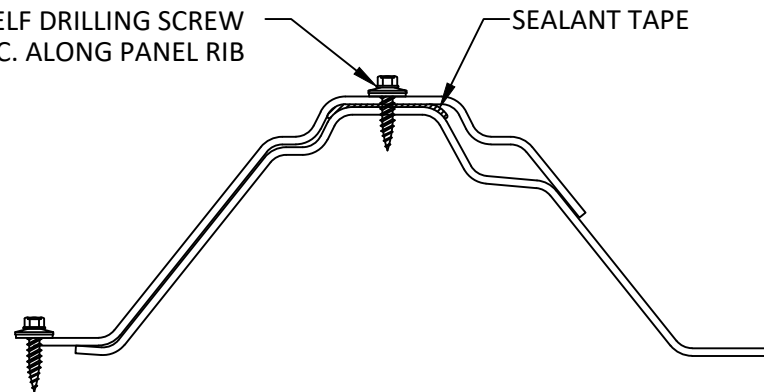
B
5 MINOR PROFILE



D
5 OVERLAP SIDE DETAIL



E
5 LAP DETAIL 1



F
5 LAP DETAIL 2
3:12 SLOPE OR LESS

GENERAL NOTES

1. MATERIAL - STEEL GALVALUME (MIN FY= 80 KSI)
2. DEVELOPED WIDTH 36.000"
3. TOLERANCES STANDARDS
 - 3.1. ACCUMULATION: +/- .0625"
 - 3.2. ANGLE: +/- 2 DEGREES
 - 3.3. RADIUS: +/- .0625"
 - 3.4. ANGLES: +/- .0625"
 - 3.5. CAMBER: +/- 0.125"
 - 3.6. SKI: +/- 0.125"
 - 3.7. DIVE: +/- 0.125"
4. TOOLING MUST BE IN CONTROL AND CAPABLE TO MANUFACTURE THE PART WITHIN ESTABLISHED SPECIFICATION AND TOLERANCES.
5. ALL INSIDE RADII TO BE 0.0625" UNLESS OTHERWISE NOTED

ALL TOLERANCES DIMENSIONS ARE TYPICAL, UNLESS OTHERWISE SPECIFIED.

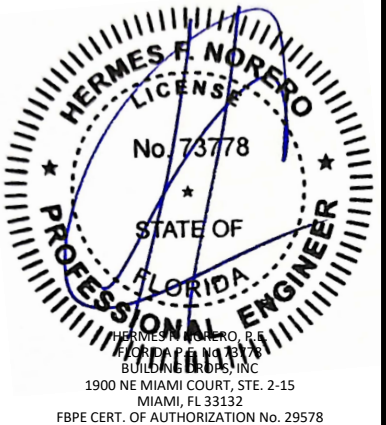


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