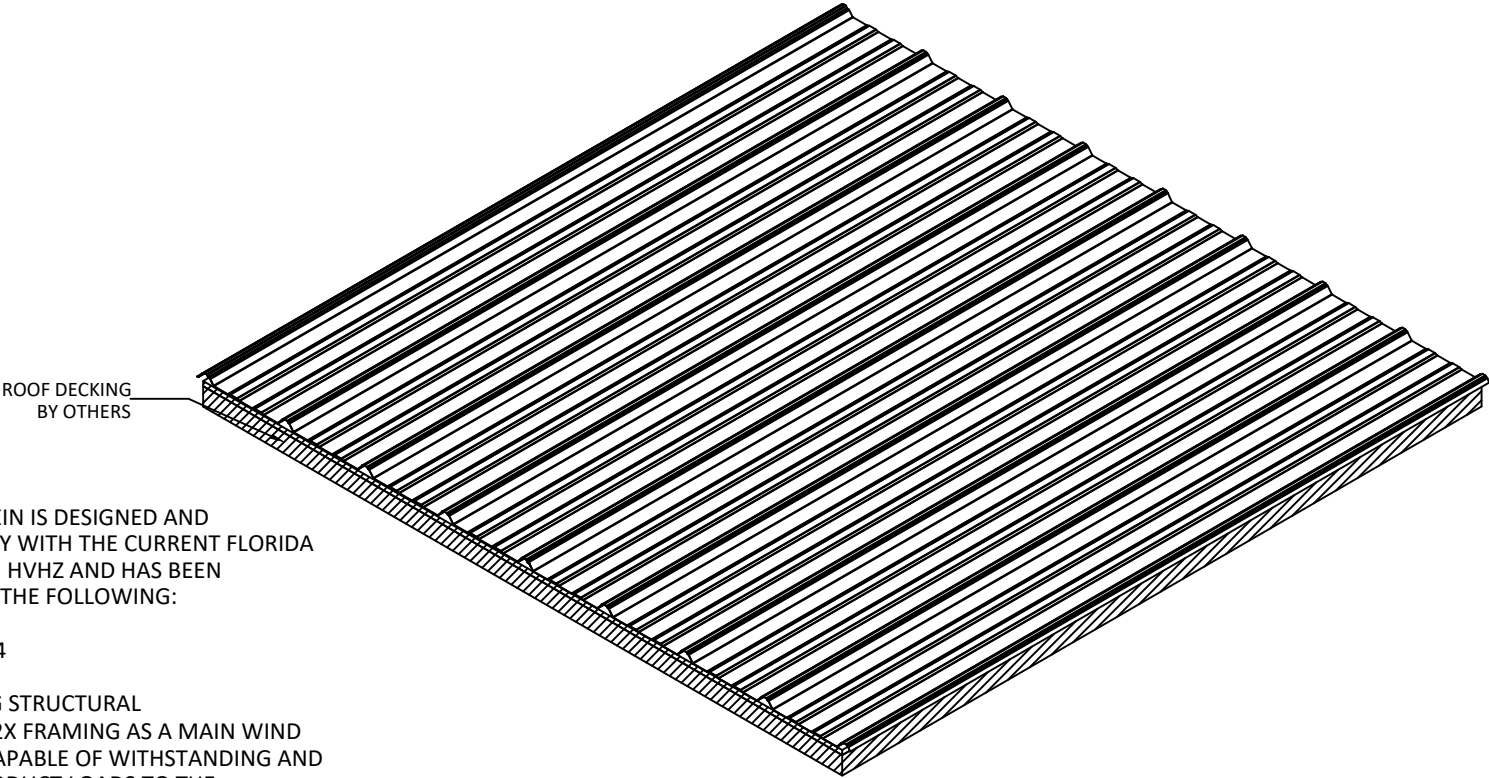


z:\projects\agri metal supply\c-23-0561 fbc 2023 (8th edition)\code change\dwg\113768-r4 metal roofing - fbc 2023\ams009-fbc2023.dwg 9/5/2023 12:58 PM

Agri-Metal Supply, Inc.

Tuff-Rib Roof Panel System



INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/2$ INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- FOR INSTALLATION INTO OPEN FRAMING, SHINGLE ROOF, OR 1X WOOD BATTEN USE #9-15 HWH WOOD SCREWS W/ $1/2$ " O.D. WASHERS OF SUFFICIENT LENGTH TO ACHIEVE $1/4$ " MINIMUM PENETRATION BEYOND WOOD SUBSTRATE.
- 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.
- 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.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE, EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - ASTM E1592-05(17)
 - FM 4471-92, SEC. 5.4
- 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.
- 2X PURLINS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 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.
- PANEL MATERIAL: 29 GA. ASTM A792 STEEL W/ AZ55 GALVALUME COATED FINISH, MIN. YIELD 80 KSI.

ELEVATION ISOMETRIC VIEW

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

AGRI-METAL SUPPLY, INC.

AGRI-METAL SUPPLY, INC.
232 SE INDUSTRIAL PARK CIRCLE BOX C
MAYO, FL 32006
PH: 386.294.1720 FX: 386.294.1724

TITLE:
TUFF-RIB ROOF PANEL SYSTEM

INSTALLATION & GENERAL NOTES

PREPARED BY:

BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338

DANIA BEACH, FL 33004

PH: (954) 399-8478

FAX: (954) 744-4738

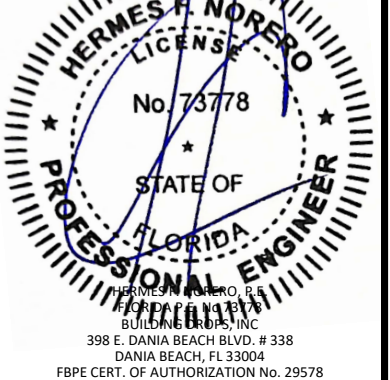
WEB: www.buildingdrops.com



REMARKS	BY	DATE
7TH EDITION FBC REV.	ER	10.15.20
FBC CODE CHANGE	FB	08.22.23

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.

Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2023.10.19 17:19:33 -0400



FL #:

FL13768

DATE: **10.15.20**

DWG. BY: **ER** CHK. BY: **SM**

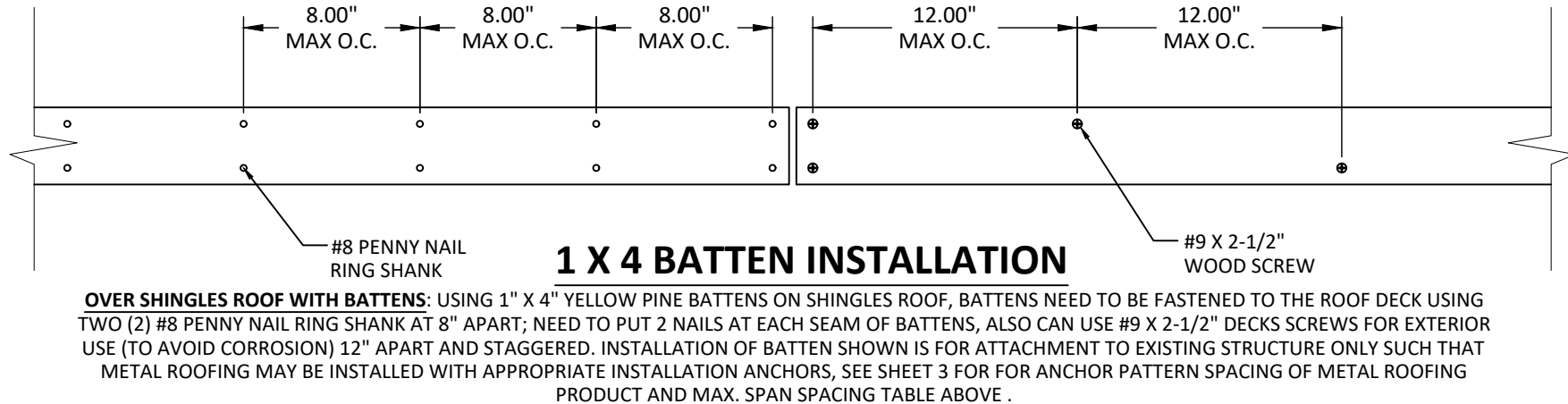
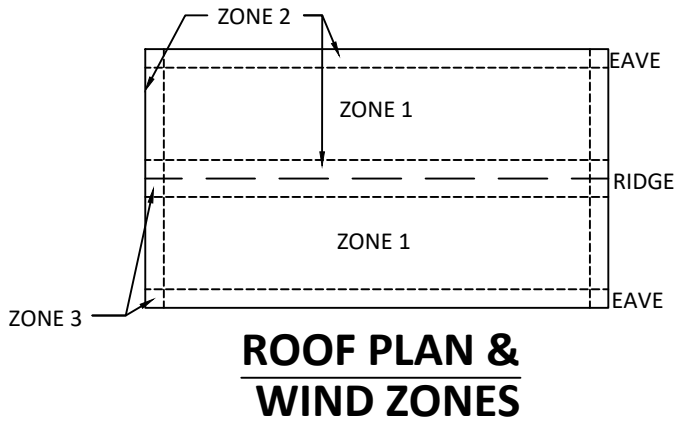
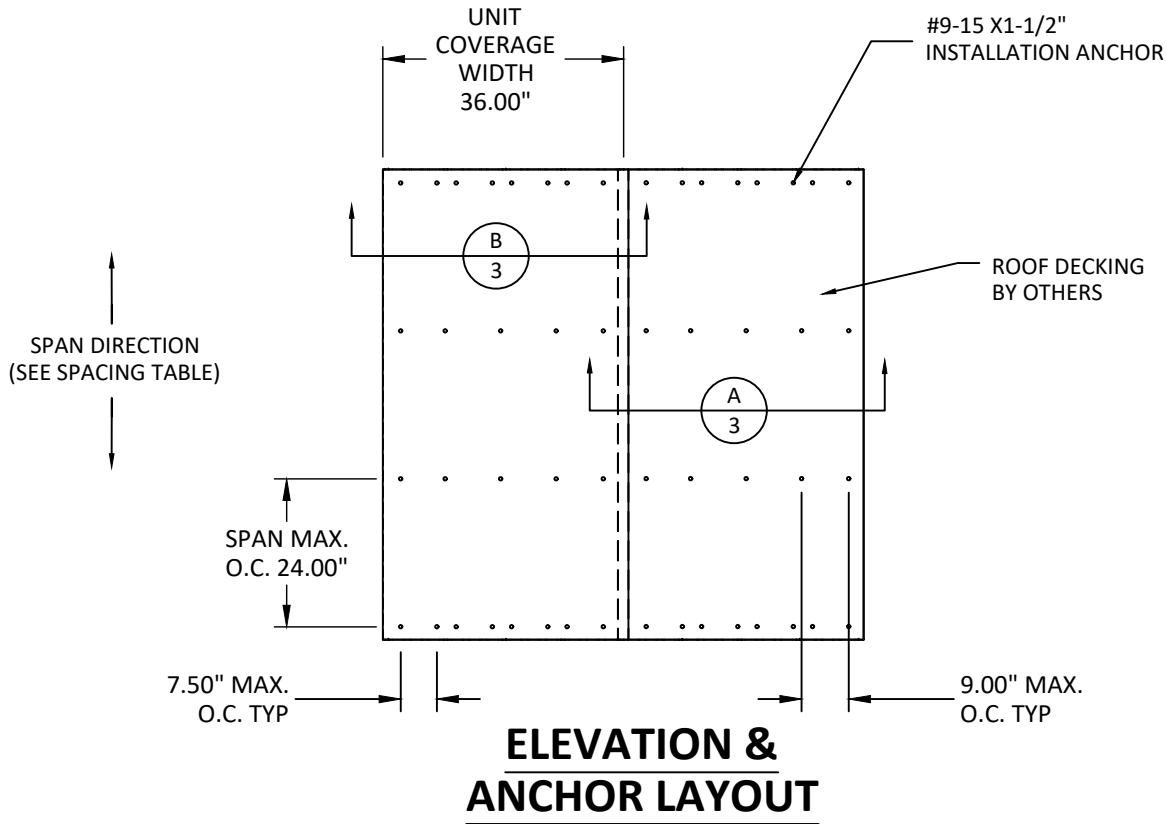
SCALE: **NTS**

DWG. #: **AMS009**

SHEET

1

9/5/2023 12:58 PM
z:\projects\agri metal supply\c-23-0561 fbc 2023 (8th edition) code change\dwg\113768-r4 metal roofing - fbc2023\ams009-fbc2023.dwg



Agri-Metal Supply, Inc. Roofing Panels

- 1) BUILDINGS HAVING A ROOF MEAN HEIGHT $\leq$ 20 FT. GABLE OR HIP ROOF. WIND SPEEDS UP TO 180 MPH, EXPOSURE TYPE: C, RISK CATEGORY II.
- 2) BUILDINGS HAVING A ROOF MEAN HEIGHT $\leq$ 30 FT. GABLE OR HIP ROOF. WIND SPEEDS UP TO 170 MPH, EXPOSURE TYPE: C, RISK CATEGORY II.
- 3) BUILDINGS HAVING A ROOF MEAN HEIGHT $\leq$ 20 FT.; FLAT ROOF. WIND SPEEDS UP TO 170 MPH, EXPOSURE TYPE: C, RISK CATEGORY II.

NOTE:

- 1) BUILDING AND ROOF CONDITIONS BASED ON 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. DESIGN UPLIFT PRESSURE OF 83.2 PSF IS NOT EXCEEDED.
- 3) DESIGN UPLIFT PRESSURE MULTIPIED BY 0.6 FOR ASD ANALYSIS METHOD PER CHAPTER 16, OF THE CURRENT FBC.

			ULTIMATE WIND SPEED ZONE				
			140 MPH	150 MPH	160 MPH	170 MPH	180 MPH
ROOF ZONE	FASTENER	ATTACHING TO:	O.C. SPACING	O.C. SPACING	O.C. SPACING	O.C. SPACING	O.C. SPACING
ZONE 1	WOOD: #9-15 X 1-1/2"	1X4 WOOD BATTEN	24"	24"	24"	24"	24"
		WOOD OPEN	12"	12"	12"	12"	12"
ZONE 2		1X4 WOOD BATTEN	24"	24"	24"	24"	12"
		WOOD OPEN	12"	12"	12"	12"	12"
ZONE 3		1X4 WOOD BATTEN	24"	24"	12"	12"	12"
		WOOD OPEN	12"	12"	12"	12"	12"

- 1) PANEL DESCRIPTION: AGRI-METAL 29 GA. 3/4" TALL RIB, 36" WIDTH
- 2) PANEL FASTENER: WOOD:#9-15 X 1-1/2" HWH W/ 1/2" O.D. WASHER
- 3) AT EAVE AND RIDGE SUPPORTS: FASTENERS ARE NEEDED ON THE FLAT AT EITHER SIDE OF RIB.
- 4) AT INTERIOR SUPPORTS: ONE FASTENER NEEDED IN THE FLAT ADJACENT TO EACH RIB.
- 5) A MAXIMUM 3" OVERHANG IS REQUIRED TO PROVIDE A DRIP EDGE. IF GUTTER IS USED ONLY 1" REQUIRED USING INNER CLOSURE TO SEAL OPEN PANEL RIB.
- 6) PANEL ROLLFORMER: ASC MACHINE TOOLS, INC.
- 7) FOR WIND SPEEDS LESS THAN 140 MPH, SPACING LIMITED TO THAT SPECIFIED AT 140 MPH.
- 8) MAX. ALLOWABLE DESIGN UPLIFT PRESSURE = 83.2 PSF

AGRI-METAL SUPPLY, INC.

AGRI-METAL SUPPLY, INC.
232 SE INDUSTRIAL PARK CIRCLE BOX C
MAYO, FL 32006
PH: 386.294.1720 FX: 386.294.1724

TITLE:
TUFF-RIB ROOF PANEL SYSTEM

ELEVATION & ANCHOR LAYOUT

PREPARED BY:

BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004

PH: (954) 399-8478
FAX: (954) 744-4738

WEB: www.buildingdrops.com



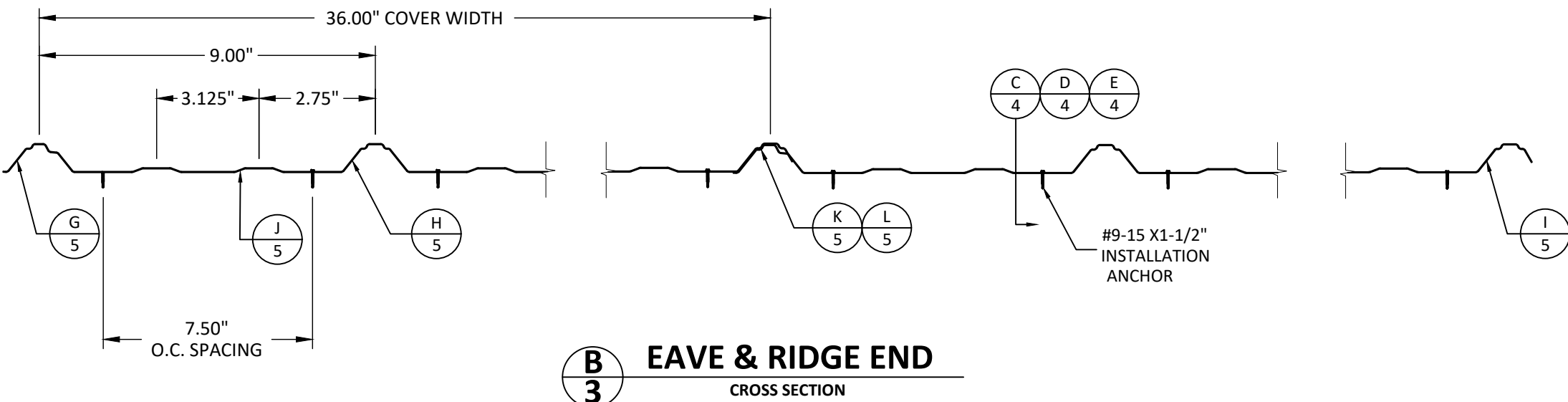
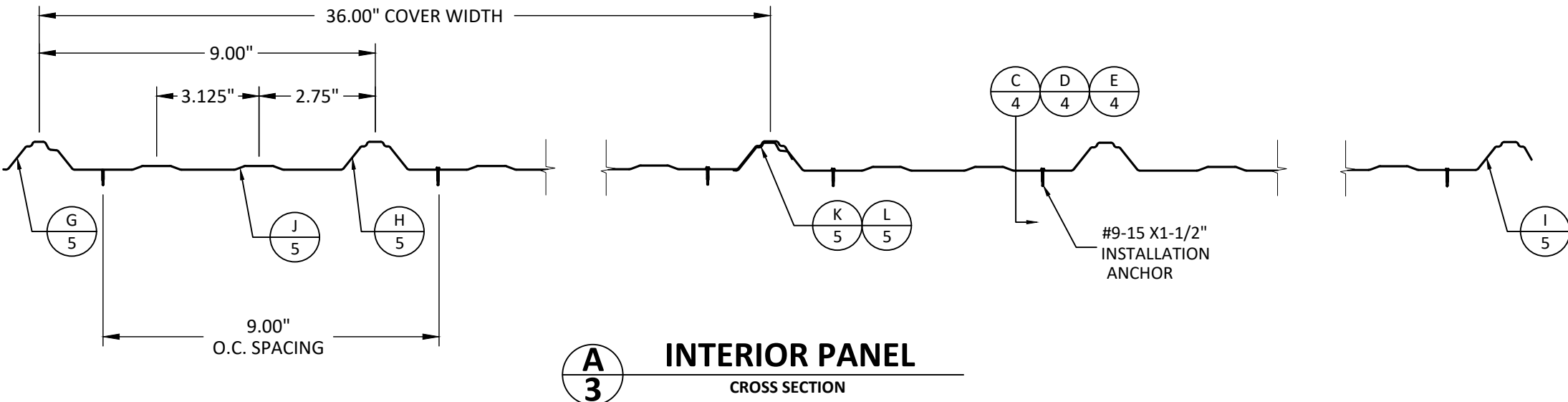
REMARKS	BY	DATE
7TH EDITION FBC REV.	ER	10.15.20
FBC CODE CHANGE	FB	08.22.23

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.



FL #:	FL13768
DATE:	10.15.20
DWG. BY:	ER
CHK. BY:	SM
SCALE:	NTS
DWG. #:	AMS009
SHEET	2

z:\projects\agri metal supply\cc-23-0561 fbc 2023 (8th edition)\code change\dwgs\113768-r4 metal roofing - fbc2023\ams009-fbc2023.dwg 9/5/2023 12:58 PM



AGRI-METAL
SUPPLY, INC.

AGRI-METAL SUPPLY, INC.
232 SE INDUSTRIAL PARK CIRCLE BOX C
MAYO, FL 32006
PH: 386.294.1720 FX: 386.294.1724

TITLE:
TUFF-RIB ROOF PANEL SYSTEM

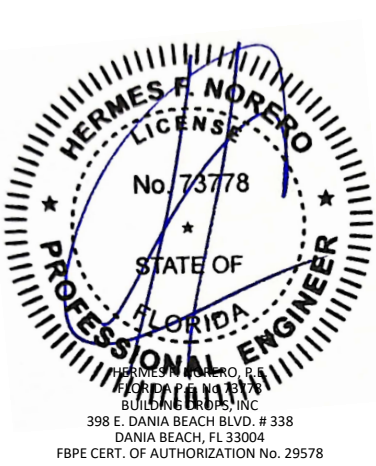
CROSS SECTIONS

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

BUILDING DROPS

REMARKS	BY	DATE
7TH EDITION FBC REV.	ER	10.15.20
FBC CODE CHANGE	FB	08.22.23

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.



FL #:
FL13768

DATE: **10.15.20**

DWG. BY:
ER

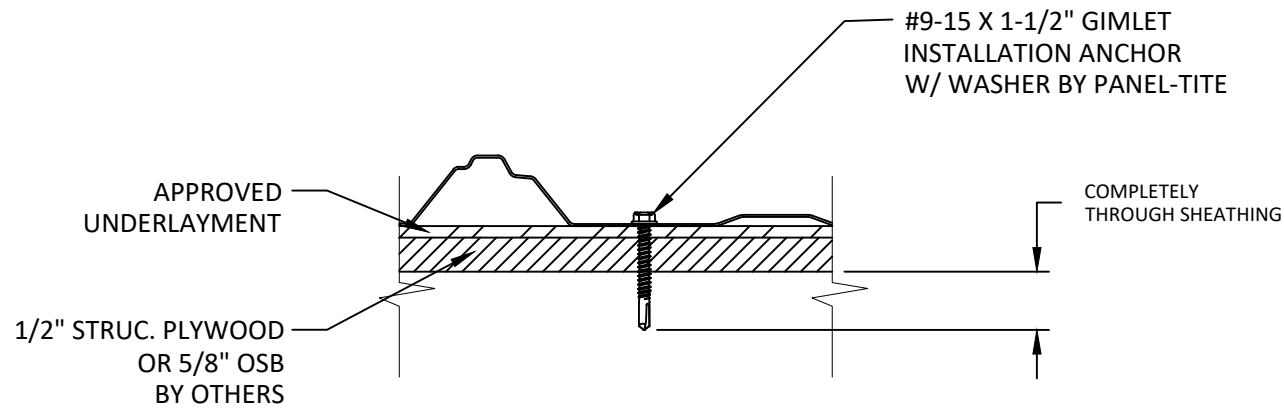
CHK. BY:
SM

SCALE: **NTS**

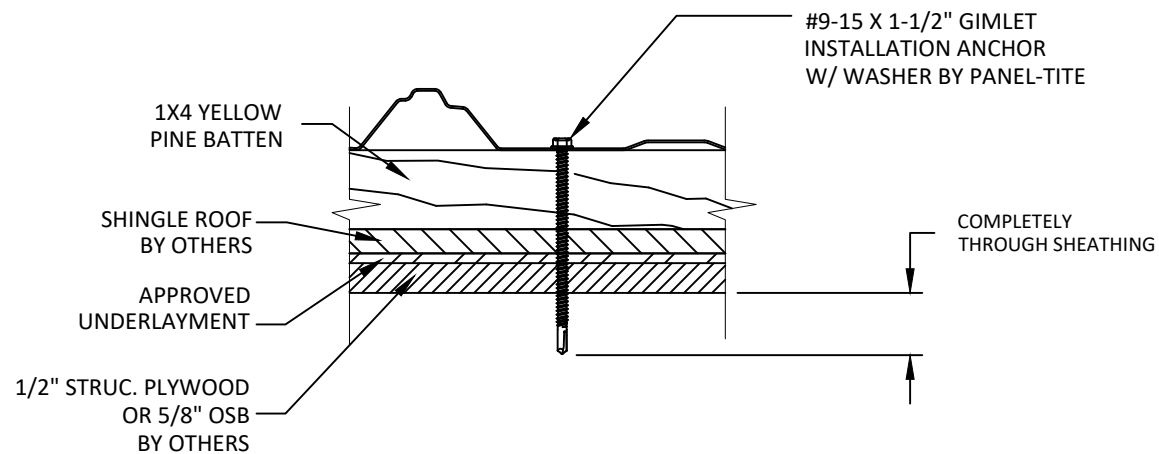
DWG. #: **AMS009**

SHEET
3
OF 5

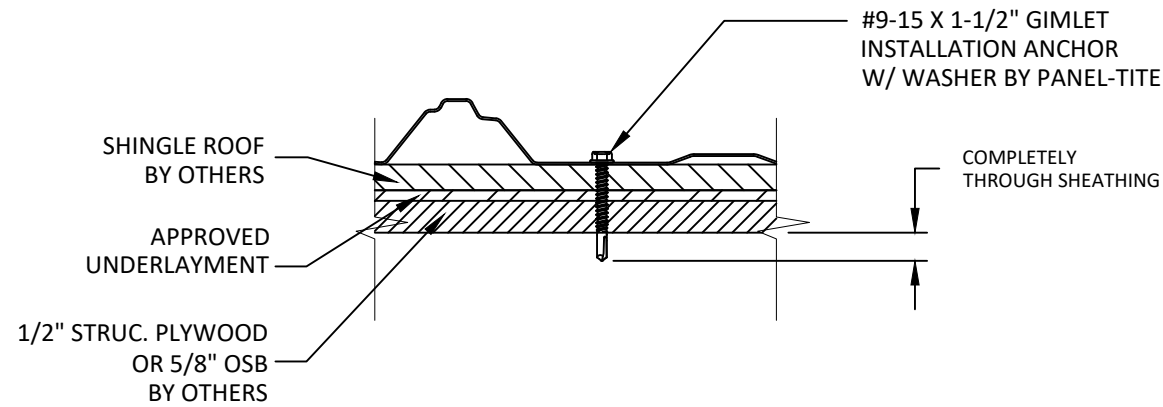
9/5/2023 12:58 PM
z:\projects\agri metal supply\c-23-0561 fbc 2023 (8th edition)\code change\dwg\113768-r4 metal roofing - fbc 2023\ams009-fbc2023.dwg



C
4 **HORIZONTAL SECTION**
OPEN FRAMING



D
4 **HORIZONTAL SECTION**
1X WOOD BUCK ON SHINGLE ROOF



E
4 **HORIZONTAL SECTION**
SHINGLE ROOF

**AGRI-METAL
SUPPLY, INC.**

AGRI-METAL SUPPLY, INC.
232 SE INDUSTRIAL PARK CIRCLE BOX C
MAYO, FL 32006
PH: 386.294.1720 FX: 386.294.1724

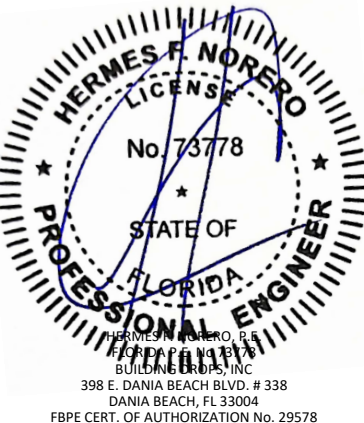
TITLE:
TUFF-RIB ROOF PANEL SYSTEM
INSTALLATION DETAILS

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
7TH EDITION FBC REV.	ER	10.15.20
FBC CODE CHANGE	FB	08.22.23

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.



FL #:
FL13768

DATE: **10.15.20**

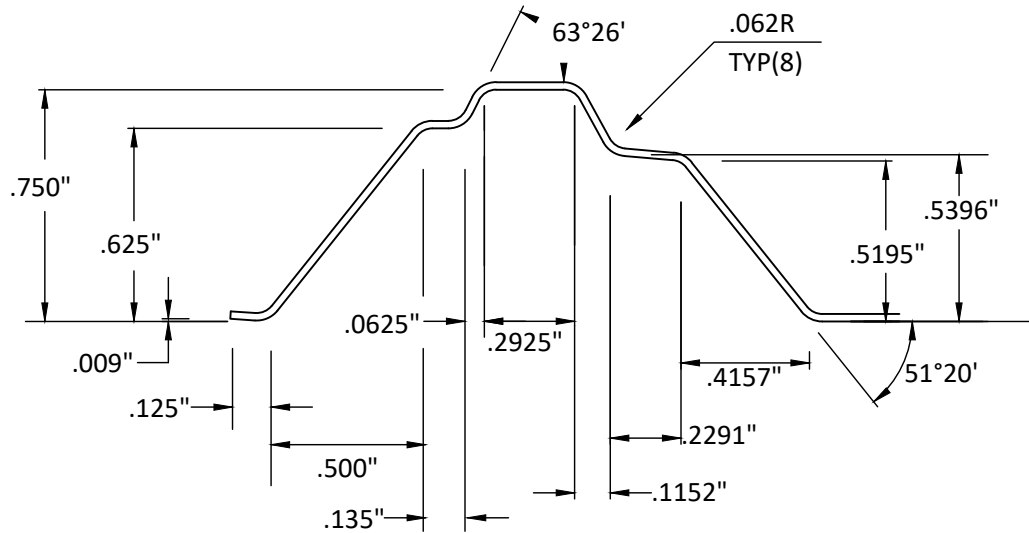
DWG. BY:	CHK. BY:
ER	SM

SCALE: **NTS**

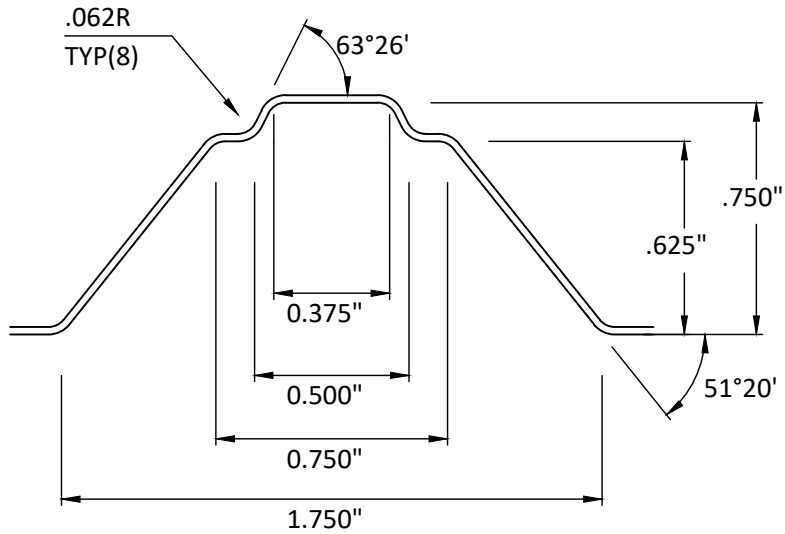
DWG. #: **AMS009**

SHEET
4

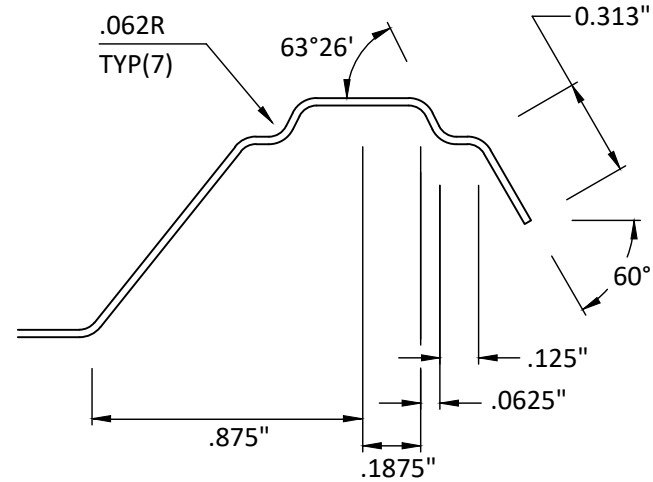
z:\projects\agri metal supply\c-23-0561 fbc 2023 (8th edition) code change\dwg\113768-r4 metal roofing - fbc2023\ams009-fbc2023.dwg 9/5/2023 12:58 PM



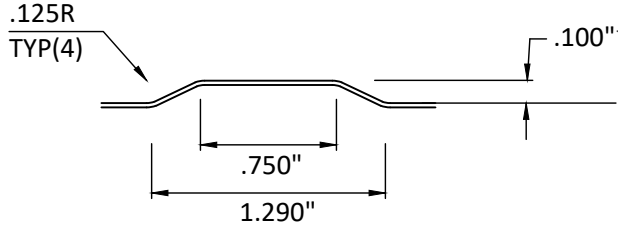
G
5 UNDERLAP DETAIL



H
5 TYPICAL MAJOR RIB
3 PLACES



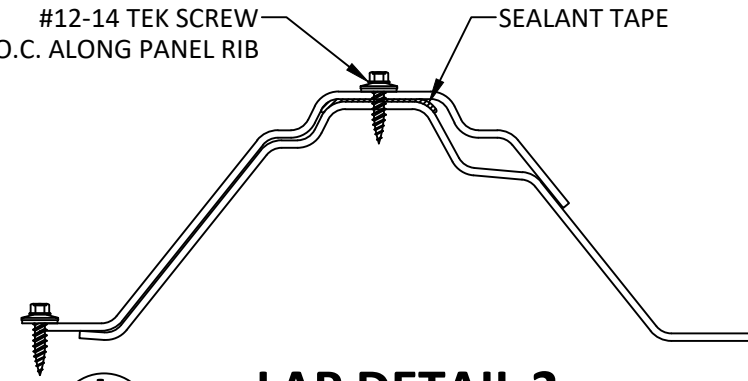
I
5 OVERLAP DETAIL



J
5 TYPICAL MINOR BEAD
8 PLACES



K
5 LAP DETAIL 1
STANDARD INSTALLATION



L
5 LAP DETAIL 2
ALTERNATE INSTALLATION
3:12 SLOPE OR LESS

AGRI-METAL SUPPLY, INC.

AGRI-METAL SUPPLY, INC.
232 SE INDUSTRIAL PARK CIRCLE BOX C
MAYO, FL 32006
PH: 386.294.1720 FX: 386.294.1724

TITLE: TUFF-RIB ROOF PANEL SYSTEM

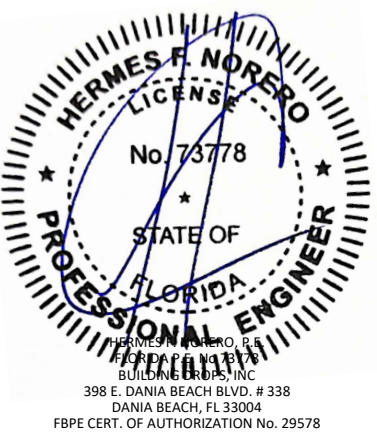
SECTION DETAILS

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

B
D
BUILDING DROPS

REMARKS	BY	DATE
7TH EDITION FBC REV.	ER	10.15.20
FBC CODE CHANGE	FB	08.22.23

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.



FL #:	FL13768
DATE:	10.15.20
DWG. BY:	ER
CHK. BY:	SM
SCALE:	NTS
DWG. #:	AMS009
SHEET	5