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# Maibec®

## ARCHITECTURAL ALUMINUM PANEL



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TITLE: ARCHITECTURAL ALUMINUM PANEL

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REMARKS	BY	DATE
FBC CODE CHANGE	FB	09/07/23

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 #: **FL22530**

DATE: **06.08.20**

DWG. BY: **ER** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **DZL002**

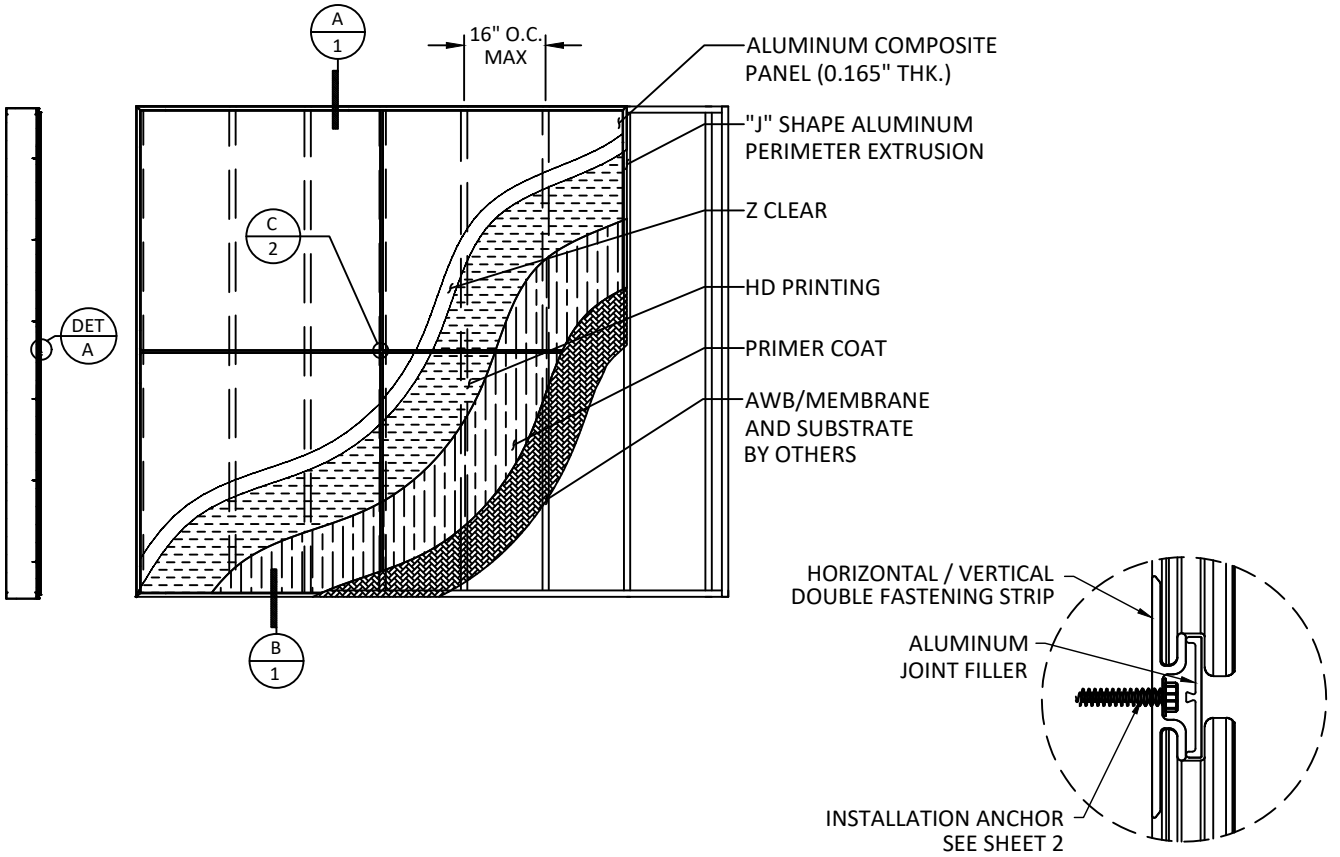
SHEET: **1** OF 2

### GENERAL NOTES:

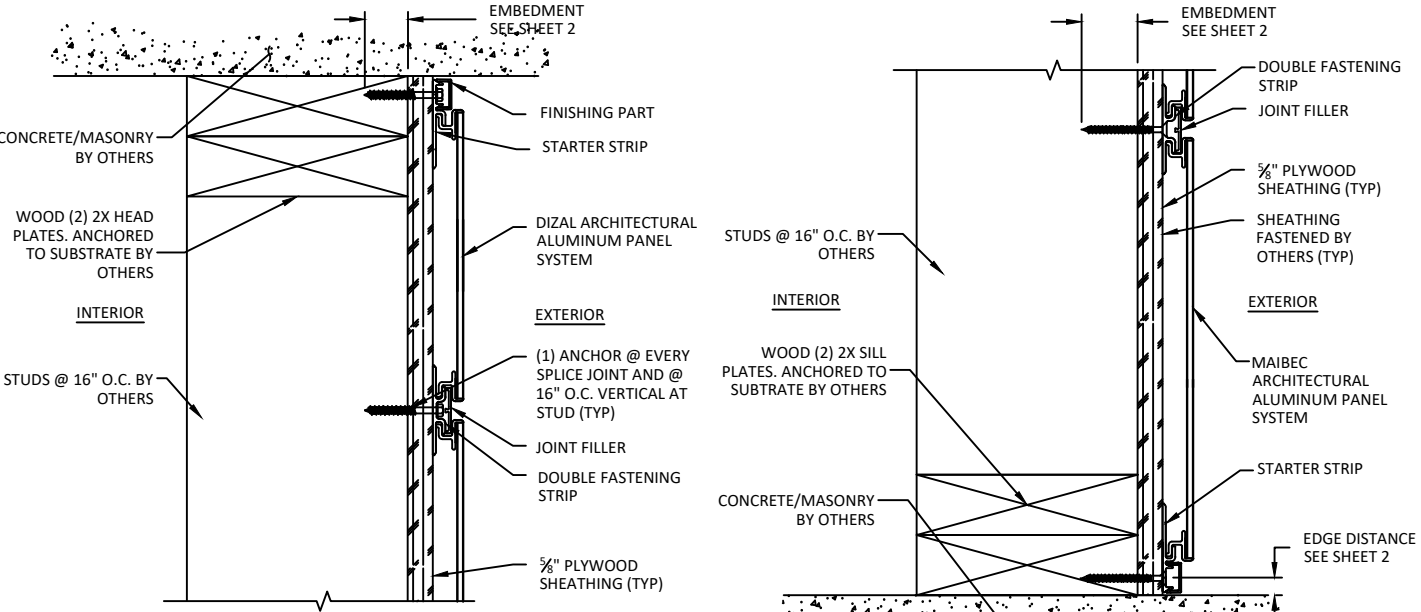
- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
  - ASTM E 283-04(12)
  - ASTM E 330-14
  - ASTM E 331-00(16)
  - AAMA 501-15
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY 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 MEMBERS (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.
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- ALUMINUM COMPOSITE PANELS MEET THE REQUIREMENTS OF THE CURRENT FBC. APPLICATION OF ALUMINUM COMPOSITE PANELS SHALL MEET REQUIREMENTS OF THE CURRENT FBC.
- THIS PRODUCT COMPLIES WITH CHAPTER 16 OF THE CURRENT FLORIDA BUILDING CODE WHEN USED IN AREAS **NOT REQUIRING** WIND BORNE DEBRIS PROTECTION.
- ALUMINUM COMPOSITE PANEL SPECIFICATIONS:
  - ALUMINUM MATERIAL: 6063-T5
  - ALUMINUM THICKNESS:
    - FACE SKIN: 0.7 MM (0.028")
    - BACK SKIN: 0.3 MM (0.012")
  - CORE MATERIAL: WAFER STYLE ALUMINUM
  - CORE THICKNESS: 3.0 MM (0.118")
  - OVERALL THICKNESS: 4 MM (0.165")
  - PANEL MAX. LENGTH: 96.00"
  - PANEL MAX. HEIGHT: 48.00"
- INSTALLATION OF PANEL ACCESSORIES SUCH AS CORNERS, STARTER STRIPS, TRIMS AROUND OPENINGS SHALL BE DONE IN ACCORDANCE WITH CURRENT FBC AND MANUFACTURER'S INSTRUCTIONS.

### INSTALLATION NOTES:

- SEE SHEET 2 FOR ANCHOR TYPE REQUIREMENTS, MINIMUM EMBEDMENTS, AND MINIMUM EDGE DISTANCES. ALL ANCHOR REQUIREMENTS MUST BE ADHERED TO. ANY DEVIATIONS FROM ANCHOR REQUIREMENTS REQUIRES SEPARATE EVALUATION AND APPROVAL.
- 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.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, SHEATHING AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- 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, ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- STARTER AND DOUBLE FASTENING STRIP LOCATIONS:
  - STARTER STRIP USED CONTINUOUSLY AROUND PERIMETER OF PANELS.
  - 4' X 4' PANEL - DOUBLE FASTENING STRIP USED IN 24" LENGTH AT INTERMEDIATE VERTICAL AND HORIZONTAL JOINTS, CENTERED SUCH THAT 12" OF PANEL ON EITHER SIDE DOES NOT ENGAGE DOUBLE FASTENING STRIP.
  - 8' X 4' PANEL - DOUBLE FASTENING STRIP USED IN 24" LENGTH AT INTERMEDIATE VERTICAL JOINTS AND 80" AT INTERMEDIATE HORIZONTAL JOINTS, CENTERED SUCH THAT 12" OF PANEL ON EITHER SIDE DOES NOT ENGAGE DOUBLE FASTENING STRIP.
  - ANCHOR SPACING OUTLINED BELOW APPLIES TO STRIPS DESCRIBED ABOVE.



DETAIL A

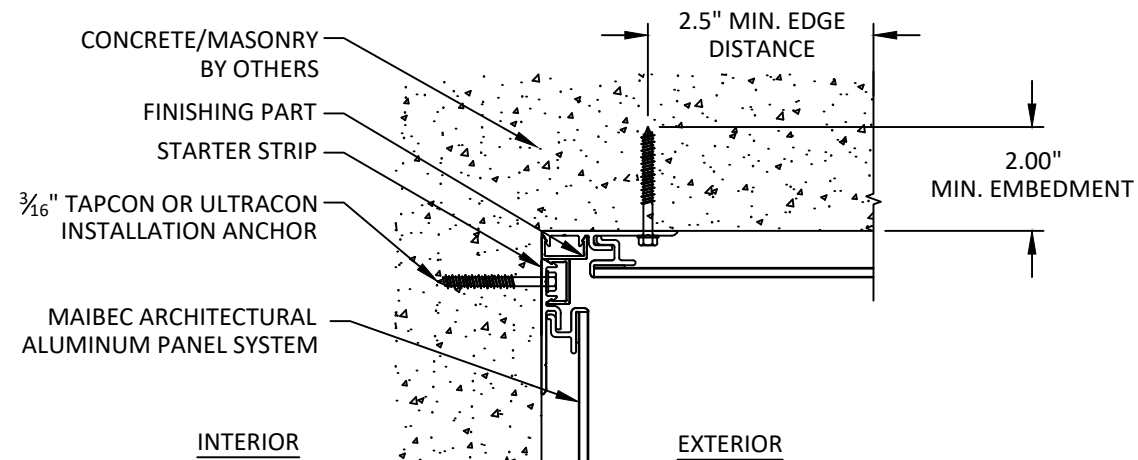


**A 1** HEAD DETAIL  
SEE ANCHOR TABLE FOR DIFFERENT SUBSTRATES

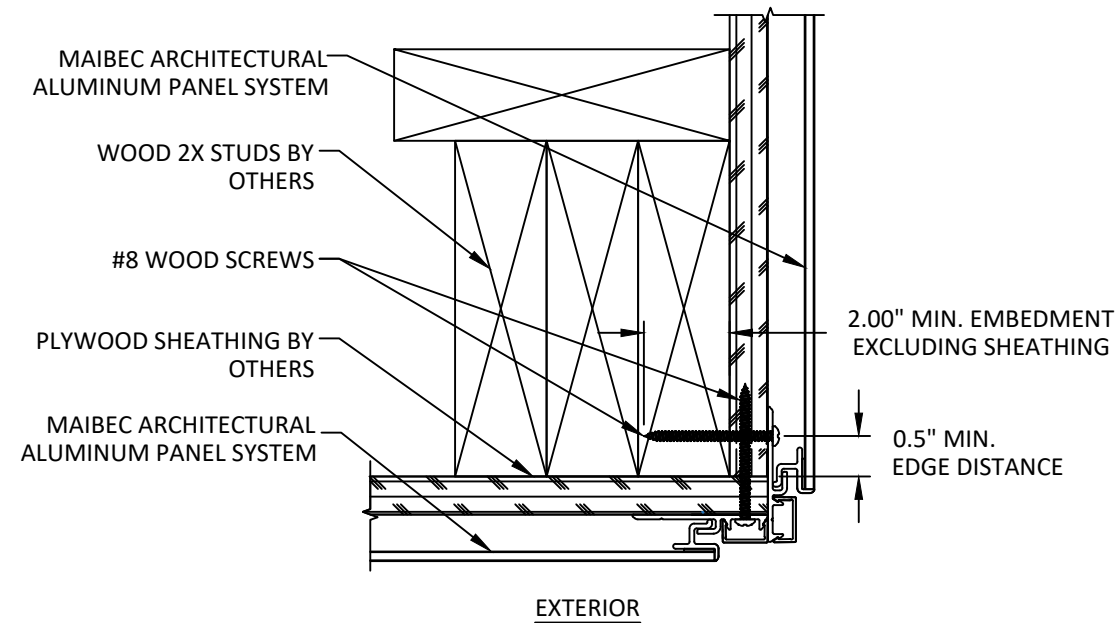
**B 1** SILL DETAIL  
SEE ANCHOR TABLE FOR DIFFERENT SUBSTRATES

DESIGN PRESSURE TABLE				
PANEL SIZE	INSTALLATION	WALL PROPERTIES	ANCHOR SPACING	DESIGN PRESSURE
4' X 4'	STUD WALL	18 GA STEEL, MIN Fy=33 KSI	16" O.C. AT STUDS	+/- 33.7 PSF
		16 GA STEEL, MIN Fy=33 KSI	16" O.C. AT STUDS	+/- 42.1 PSF
	CONCRETE/MASONRY	2" X 4" MIN. WOOD STUD (MIN. S.G. = 0.55) OR STEEL STUD (18 GA MIN.) WITH 2X4" MIN WOOD BACKING	16" O.C. AT STUDS	+/- 75.0 PSF
		MASONRY - CMU. UNIT PER ASTM C-90, W/ MIN. COMPRESSIVE STRENGTH OF 2 KSI	2" FROM CORNERS, 4" O.C.	+/- 47.6 PSF
8' X 4'	CONCRETE/MASONRY	CONCRETE - MIN. COMPRESSIVE STRENGTH OF 3 KSI	2" FROM CORNERS, 16" O.C.	+/- 75.0 PSF
	STUD WALL	18 GA STEEL, MIN Fy=33 KSI	16" O.C. AT STUDS	+/- 28.1 PSF
		16 GA STEEL, MIN Fy=33 KSI	16" O.C. AT STUDS	+/- 35.1 PSF
	STUD WALL	2" X 4" MIN. WOOD STUD (MIN. S.G. = 0.55) OR STEEL STUD (18 GA MIN.) WITH 2X4" MIN WOOD BACKING	16" O.C. AT STUDS	+/- 62.5 PSF
		MASONRY - CMU. UNIT PER ASTM C-90, W/ MIN. COMPRESSIVE STRENGTH OF 2 KSI	2" FROM CORNERS, 5" O.C.	+/- 42.3 PSF
	CONCRETE/MASONRY	CONCRETE - MIN. COMPRESSIVE STRENGTH OF 3 KSI	2" FROM CORNERS, 16" O.C.	+/- 75.0 PSF

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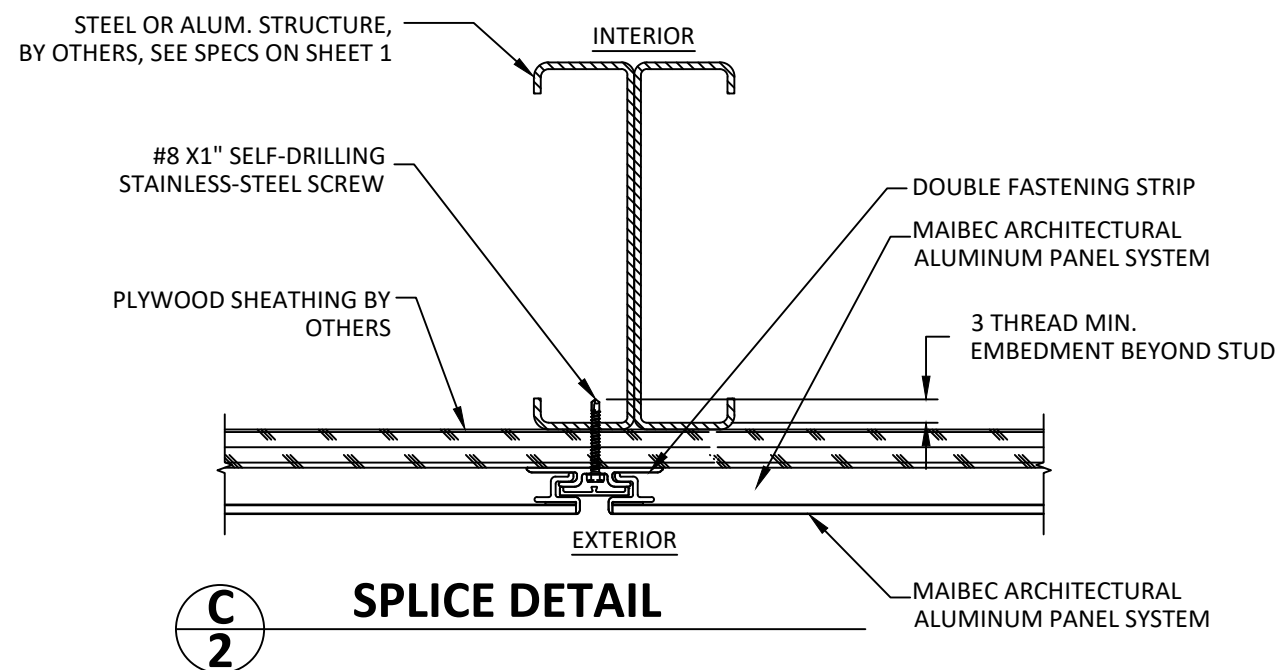


**A**  
**2** **INSIDE CORNER DETAIL**

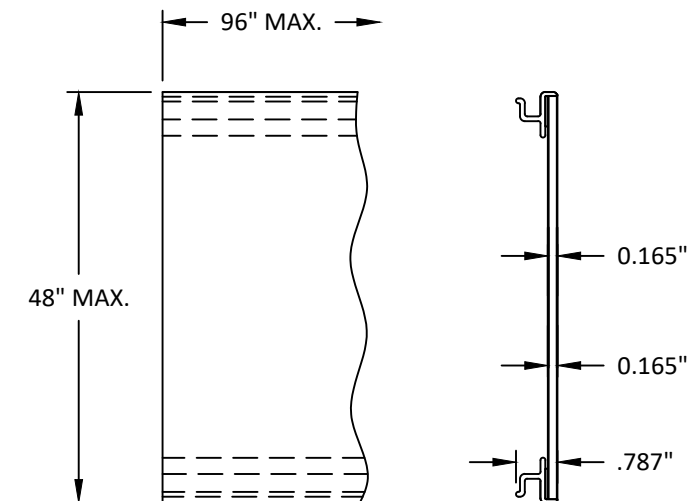


**B**  
**2** **OUTSIDE CORNER DETAIL**

ALUMINUM COMPOSITE PANEL SYSTEM ANCHOR TYPES				
ANCHOR DESCRIPTION	SUBSTRATE REQUIREMENTS	MIN. EMBEDMENT	MIN. EDGE DISTANCE	NOTES
3/16" Ø TAPCON BY ITW (F <sub>u</sub> =125 KSI, F <sub>y</sub> =100 KSI) OR 3/16" Ø ULTRACON BY ELCO (F <sub>u</sub> =155 KSI, F <sub>y</sub> =177 KSI)	CONCRETE F' <sub>c</sub> =3000 PSI MIN. OR C-90 HOLLOW/FILLED BLOCK F' <sub>m</sub> =2000 PSI MIN.	2"	2-1/2"	MAY BE USED THROUGH OPTIONAL 1X BUCKS, BY OTHERS
#8 WOOD SCREWS	MIN. S.G. = 0.55 WOOD	2"	1/2"	--
#8-32 SELF-DRILLING OR SELF- TAPPING SCREWS (GRADE 5)	STEEL: 18 GA. MIN., F <sub>y</sub> =33 KSI MIN.	3 THREADS PENETRATION PAST METAL STRUCTURE	1/2"	STEEL IN CONTACT WITH ALUM. TO BE PLATED OR PAINTED



**C**  
**2** **SPLICE DETAIL**



**D**  
**2** **PANEL DETAIL**



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DATE:	06.08.20
DWG. BY:	ER
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	DZL002
SHEET:	2