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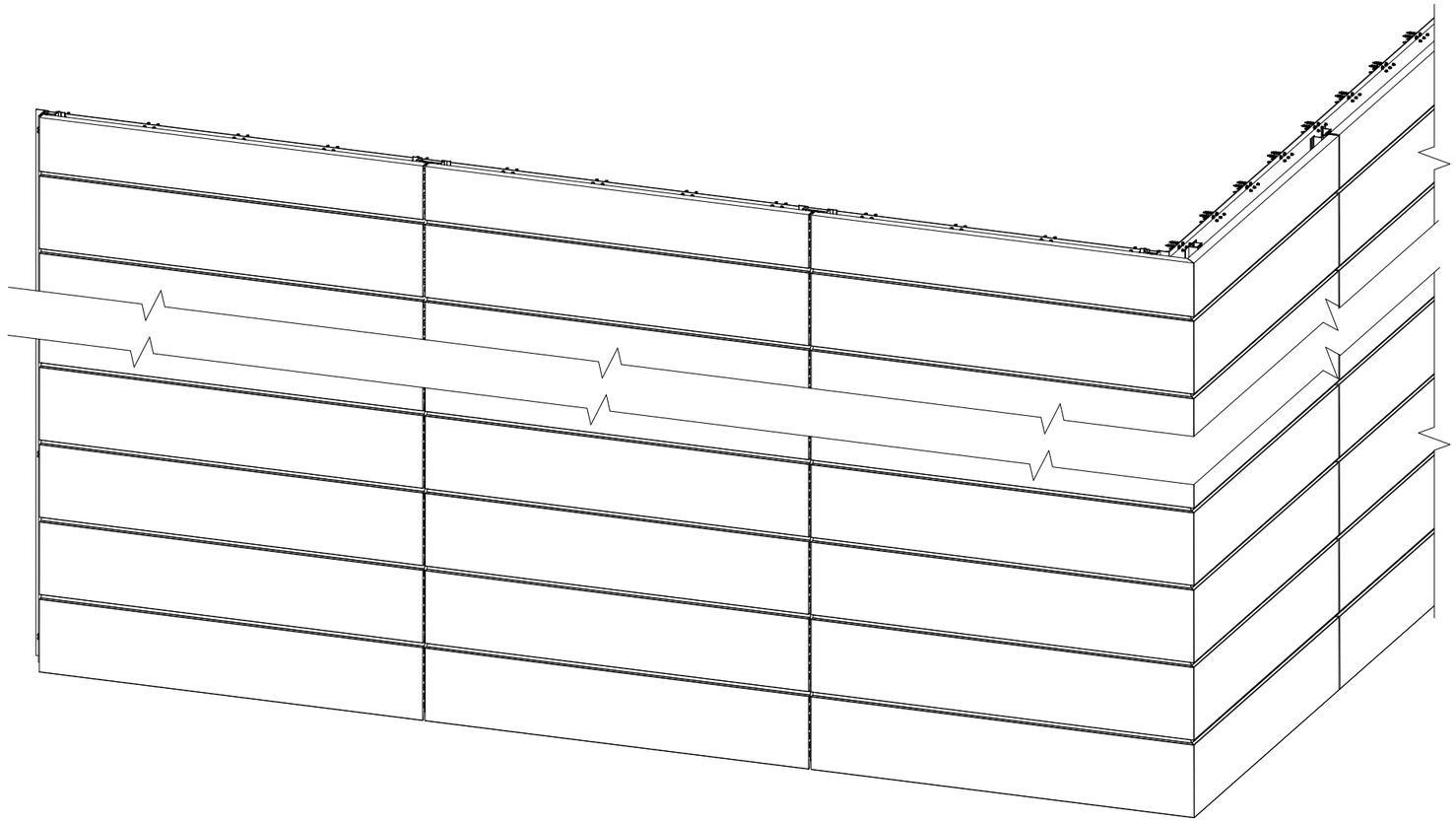
ADDITIONAL DETAILS:
FOR SPECIAL SITE CONDITION, CONTACT SHILDAN INC.

TO OBTAIN AUTOCAD/REVIT COMPATIBLE DETAILS OF THIS PRODUCT, KINDLY GET IN TOUCH WITH US CONTACTING US VIA OUR OFFICIAL EMAIL ADDRESS: CONTACT@JA-PE.COM.

LONGOTON TERRACOTTA RAINSCREEN 12" SYSTEM

FL# 14291.2



GENERAL NOTES

1. THIS SYSTEM PRESENTED HEREIN HAS UNDERGONE DESIGN AND TESTING IN FULL COMPLIANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) AND IS INTENDED FOR USE IN NON HIGH VELOCITY HURRICANE ZONE.
2. THE DESIGN PRESSURES OUTLINED IN THIS DOCUMENT ARE DERIVED FROM MAXIMUM TESTED PRESSURES AND INCORPORATE A 1.5 SAFETY FACTOR.
3. THE PRESSURES PROVIDED IN THIS CERTIFICATION ARE DETERMINED USING THE ALLOWABLE STRESS DESIGN METHOD (ASD).
4. THIS PRODUCT HAS BEEN RIGOROUSLY TESTED IN ACCORDANCE WITH THE STANDARDS DESCRIBED IN NOTE 1 OF THE GENERAL NOTES.
5. THE DESIGN OF THIS SYSTEM DOES NOT INCORPORATE A 33-1/3% INCREASE IN ALLOWABLE STRESS. FOR WOOD ANCHOR DESIGN, A WIND LOAD DURATION FACTOR OF CD=1.6 HAS BEEN EMPLOYED.
6. THE ARCHITECT/ENGINEER OF RECORD RESPONSIBLE FOR THE PROJECT'S SUPERSTRUCTURE, WITH WHICH THIS DESIGN IS ASSOCIATED, SHALL ENSURE THE INTEGRITY OF ALL SUPPORTING SURFACES. COORDINATION WITH THE PERMITTING CONTRACTOR IS REQUIRED, AND PROPER ANCHORING OF WOOD BUCKS (BY OTHERS) MUST FACILITATE LOAD TRANSFER TO THE EXISTING STRUCTURE.
7. THE DETAILS OF THE SYSTEM PROVIDED HEREIN ARE OF A GENERIC NATURE AND DO NOT OFFER SPECIFIC SITE INFORMATION. FOR SITE CONDITIONS THAT DIFFER FROM THOSE SPECIFIED HERE, A LICENSED ENGINEER OR REGISTERED ARCHITECT MUST PREPARE SITE-SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS CERTIFICATION.
8. THE CONTRACTOR IS ACCOUNTABLE FOR INSULATING ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS (E.G., STEEL WITH ALUMINUM).
9. THE SUBSTITUTION OF FASTENERS DESCRIBED IN THIS CERTIFICATION IS PERMISSIBLE, PROVIDED THE ALTERNATIVE ANCHOR EXHIBITS STRENGTH EQUAL TO OR GREATER THAN THE ORIGINALLY SPECIFIED FINAL APPROVAL OF SUBSTITUTED ANCHORS SHALL BE GRANTED BY RELEVANT AUTHORITIES.
10. THE WOOD SCREWS REFERENCED IN THIS CERTIFICATION MUST MEET A MINIMUM GRADE OF 2 (FU = 74,000 PSI).
11. FASTENERS AND ANCHORS MUST BE OF SERIES 300 (STAINLESS STEEL), CONFORMING TO "SPECIFICATIONS FOR ALUMINUM STRUCTURES" AS OUTLINED IN SECTION J.3 OF THE CURRENT CODE BY THE ALUMINUM ASSOCIATION, INC., IN ADDITION TO ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
12. THE ENGINEER'S SEAL AFFIXED HERE VALIDATES THE STRUCTURAL DESIGN AS PRESENTED SOLELY. ANY USE OF THIS SPECIFICATION BY THE CONTRACTOR OR OTHERS INDEMNIFIES AND SAVES THE ENGINEER HARMLESS FROM ALL COSTS AND DAMAGES, INCLUDING LEGAL FEES AND APPELLATE FEES.
13. ARISING FROM MATERIAL FABRICATION, SYSTEM ERECTION, AND CONSTRUCTION PRACTICES BEYOND THE SCOPE CALLED FOR BY LOCAL, STATE, AND FEDERAL CODES OR DEVIATIONS FROM THE PLAN.
14. NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED BEYOND WHAT IS EXPRESSLY PROVIDED IN THIS DOCUMENT.
15. ALTERATIONS, ADDITIONS, OR ANY MARKINGS TO THIS DOCUMENT ARE STRICTLY PROHIBITED AND WILL INVALIDATE THIS CERTIFICATION.
16. PROPER SAFETY MEASURES MUST BE OBSERVED DURING THE INSTALLATION AND USE OF THIS SYSTEM, EVEN THOUGH THEY ARE NOT EXPLICITLY LISTED IN THIS CERTIFICATION.
17. EACH PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM, CONTAINING THE FOLLOWING REQUIRED INFORMATION:

SHILDAN INC.
2047 BRIGGS ROAD, MT. LAUREL, NJ 08054
TEL (215) 525-4510, FAX. (215) 525-4511

APPROVED BY FLORIDA BUILDING COMMISSION
FLORIDA PRODUCT APPROVAL NUMBER FL# 14291.2

JAVAD AHMAD PE, inc
8800 NW 23rd St, Miami FL
33172
Ph: (305) 424-8001
contact@ja-pe.com
CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

LONGOTON TERRACOTTA RAINSCREEN 12" SYSTEM

SHILDAN INC.
2047 BRIGGS ROAD
MT. LAUREL, NJ 08054
TEL. (215) 525-4510
FAX. (215) 525-4511

REVISION			
No.	DATE	BY	DESCRIPTION

date: 09-20-2023		M.S.	H.T.
scale:	drawn by:	check by:	DRAWING NO. JA-1687-23

JAVAD AHMAD LICENSE No 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER
SEALED: 11-27-2023

COVER PAGE

SHEET No. 01 OF 11

GENERAL NOTES

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 FLORIDA BUILDING CODE FOR NON HIGH VELOCITY HURRICANE ZONE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

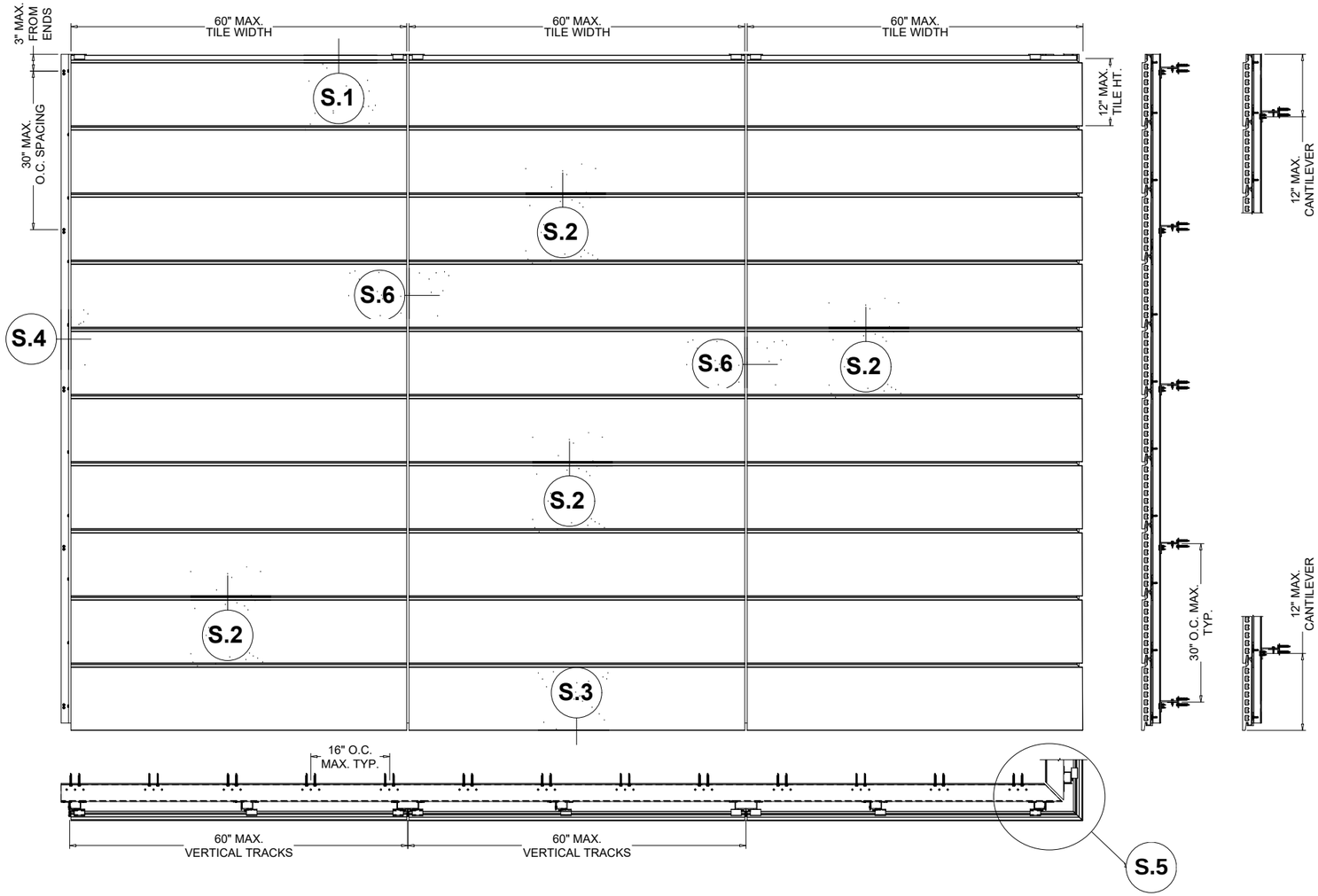
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.



TYPICAL ELEVATION

AT STEEL STUD FRAMING SYSTEM

LONGOTON TERRACOTTA RAINSCREEN SYSTEM

TERRACOTTA TILES ANCHORED TO SHEAR WALLS AS EXTERIOR CLADDING.

AVERAGE BREAKING LOAD PER ASTM C1167 = 1260 Lbs

THIS SYSTEM IS NOT RATED FOR IMPACT.

INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA SHALL MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.

APPROVAL APPLIES TO MULTIPLE UNIT INSTALLATIONS

MAX. DESIGN LOAD = +/- 92.0 PSF
MAX. VERTICAL TRACK SPACING = 60 IN.
MAX. TILE SIZE = 12" HIGH X 60" WIDE

RAINSCREEN SYSTEM SHALL ONLY BE INSTALLED IN FRONT OF 1/2" (5-PLY) PLYWOOD OR OTHER APPROVED SHEATING SUPPORTED BY METAL STUDS, EACH AT 16" O.C.

SHEATING SHALL BE ATTACHED TO FRAMING STUDS IN ACCORDANCE WITH FBC 2023.

ADEQUACY OF STRUCTURE RECEIVING RAINSCREEN SYSTEM SHALL BE CHECKED BY A LICENSED DESIGN PROFESSIONAL IN ACCORDANCE WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE.

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TYP. ELEV.

SHEET No. 02 OF 11

FL# 14291.2

GENERAL NOTES:

A. THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.

B. CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.

C. THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

D. SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

E. THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

ANCHOR DESCRIPTION:

(1) **(4) 1/4" DIA. TEKS OF SELF DRILLING SCREWS (300 STAINLESS STEEL)**
THRU. 1/2" MIN. SHEATHING MIN. 16 GA. METAL STUDS
CLUSTER TO BE AT 16" MAX. SPACING

(2) **#12 SMS OR SELF DRILLING SCREWS (300 STAINLESS STEEL)**
(3) THREAD MIN. PENETRATION BEYOND 1/8" MIN. METAL SUBSTRATE
1/4" MIN. METAL EDGE DISTANCE, 1/2" MIN. O.C. SPACING

(2A) (3) ANCHORS PLACED AT 16" MAX. CLUSTER TO CLUSTER SPACING

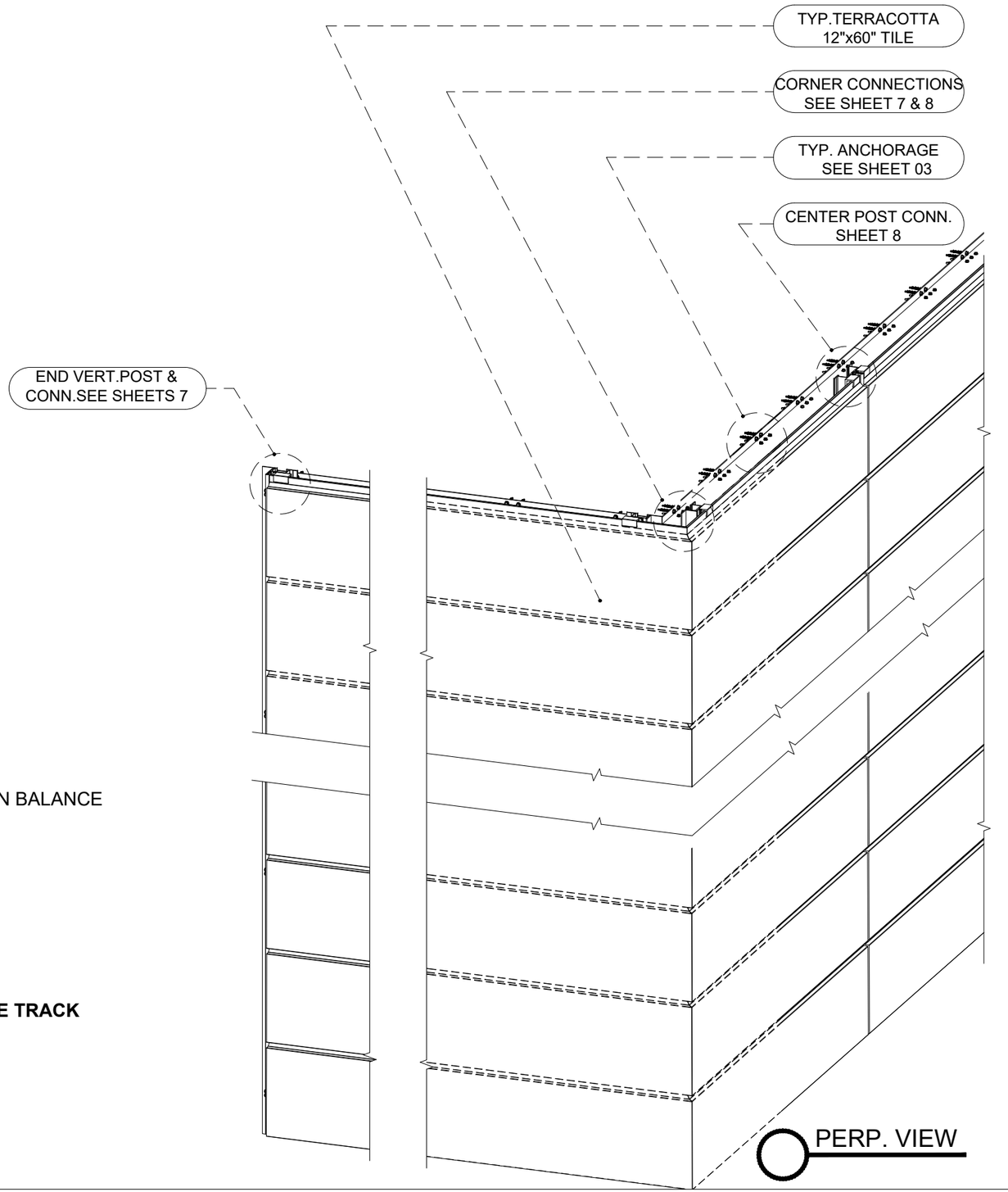
(2B) ANCHORS PLACED AT 3" MAX. FROM ENDS AND 12" MAX. O.C. SPACING IN BALANCE

(3) **#14 SMS OR SELF DRILLING SCREWS (300 STAINLESS STEEL)**
(3) THREAD MIN. PENETRATION BEYOND 1/8" MIN. METAL SUBSTRATE
1/4" MIN. METAL EDGE DISTANCE, 1/2" MIN. O.C. SPACING

(3A) (2) ANCHORS PLACED ON EACH SIDE OF THE VERTICAL
AT 30" MAX. PAIR TO PAIR SPACING

(3B) (2) SLOTTED ROUND HEADED ANCHORS PER CLIP

(4) **#14 X 2-1/2" SELF TAPPING SCREWS (300 STAINLESS STEEL) AT CENTER OF THE TRACK**
(3) THREAD MIN. PENETRATION BEYOND 1/8" MIN. METAL SUBSTRATE
3/4" MIN. METAL EDGE DISTANCE, 1/2" MIN. O.C. SPACING
(2) ANCHORS PLACED AT 30" MAX. PAIR TO PAIR SPACING



PERP. VIEW

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RAINSCREEN 12" SYSTEM

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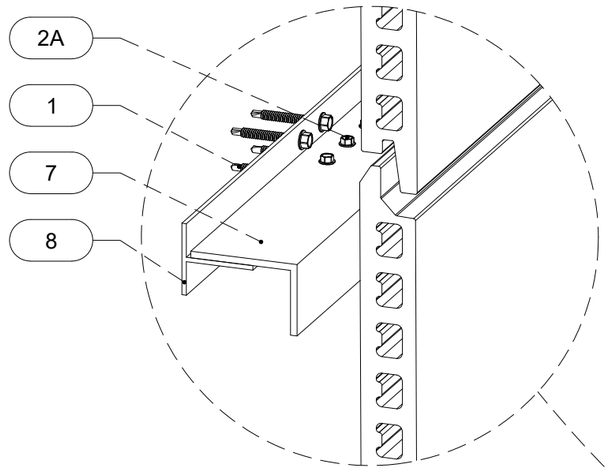
SEALED: 11-27-2023

DESCRIPTION

SHEET No.
03 OF 11

SIDE SECTIONS

FL# 14291.2



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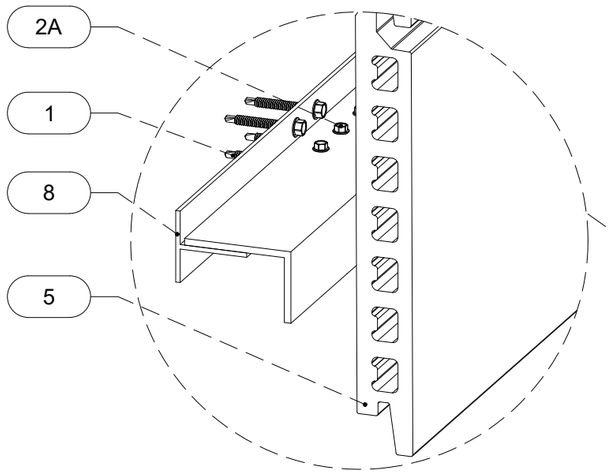

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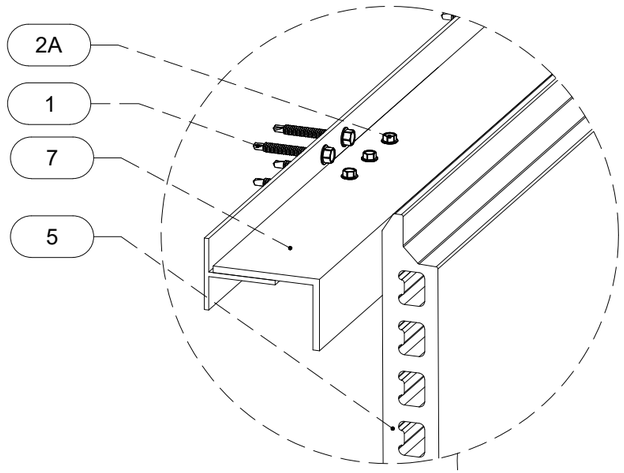

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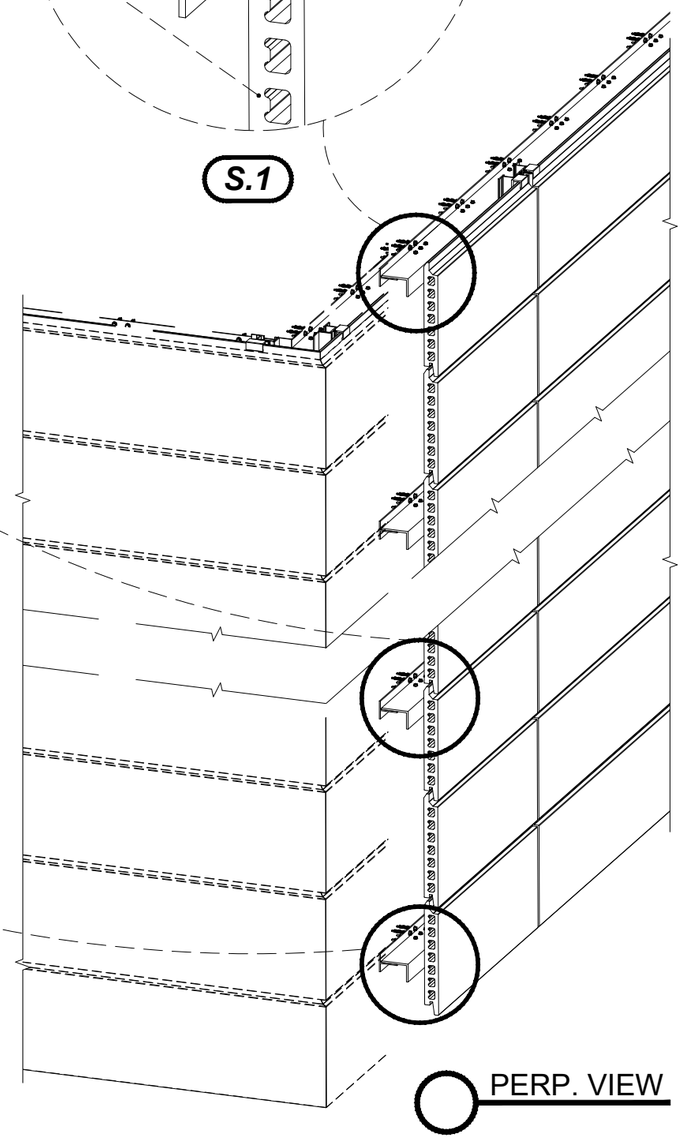

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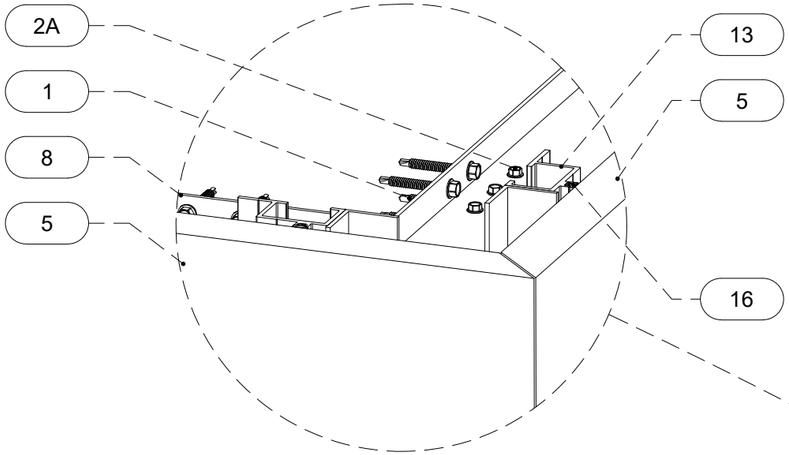
SECTIONS

SHEET No. 04 OF 11

TOP SECTIONS

FL# 14291.2



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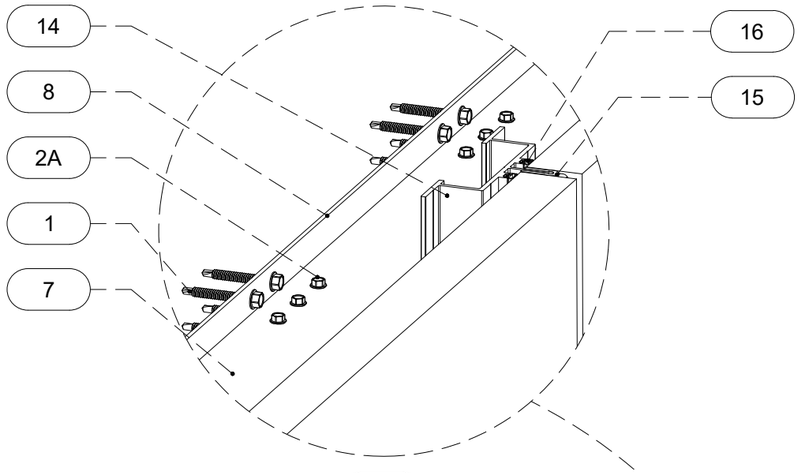

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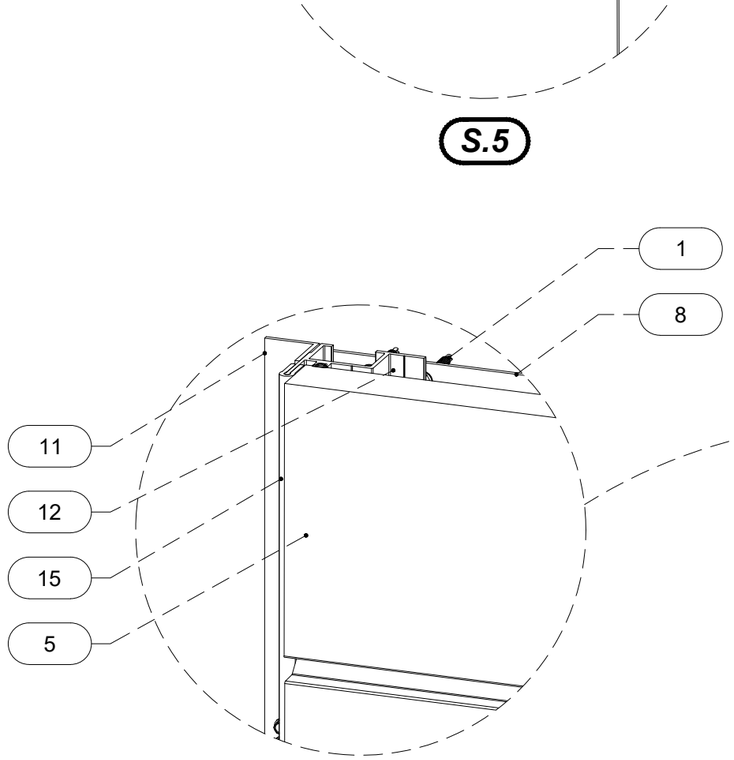

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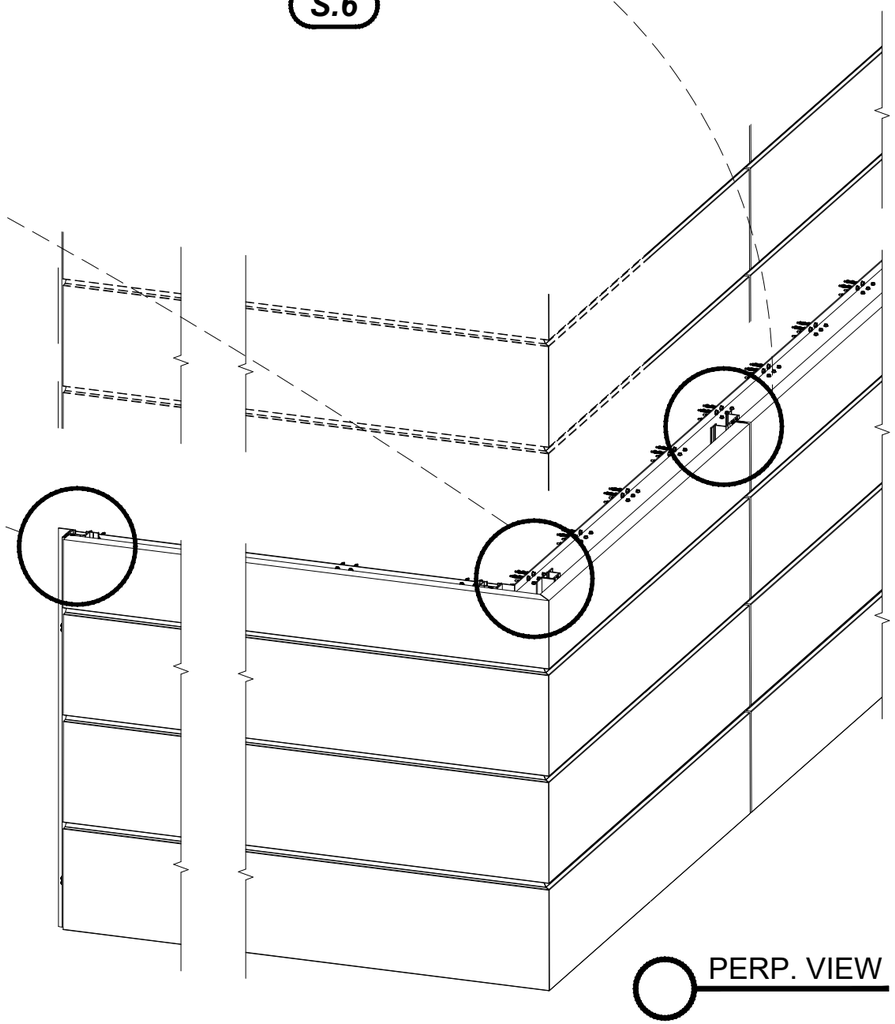

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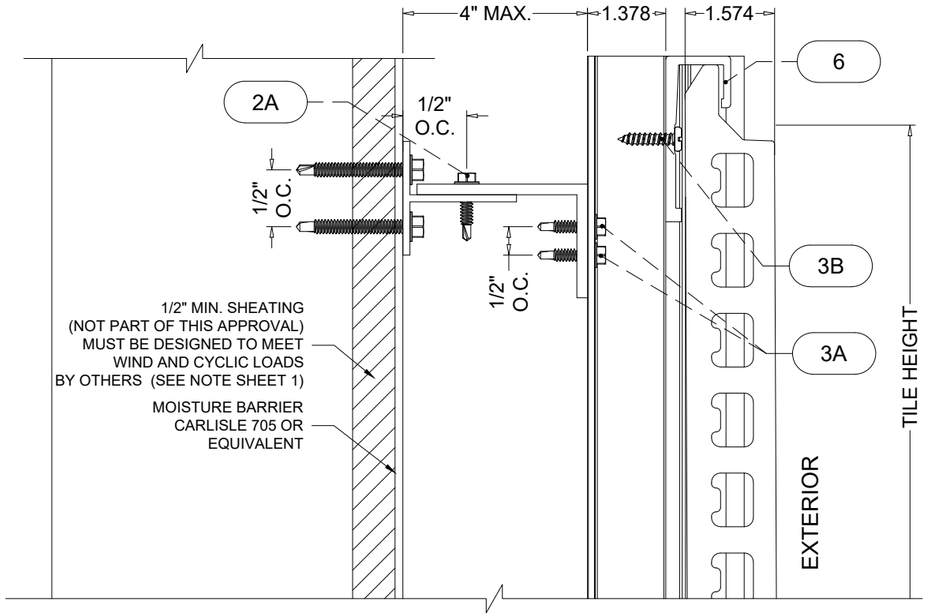
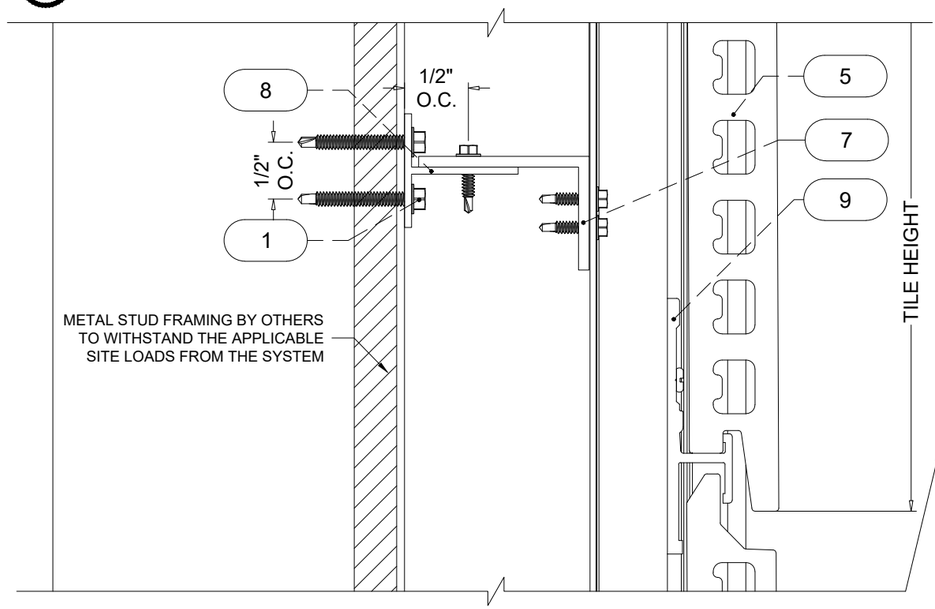
SECTIONS

SHEET No. 05 OF 11

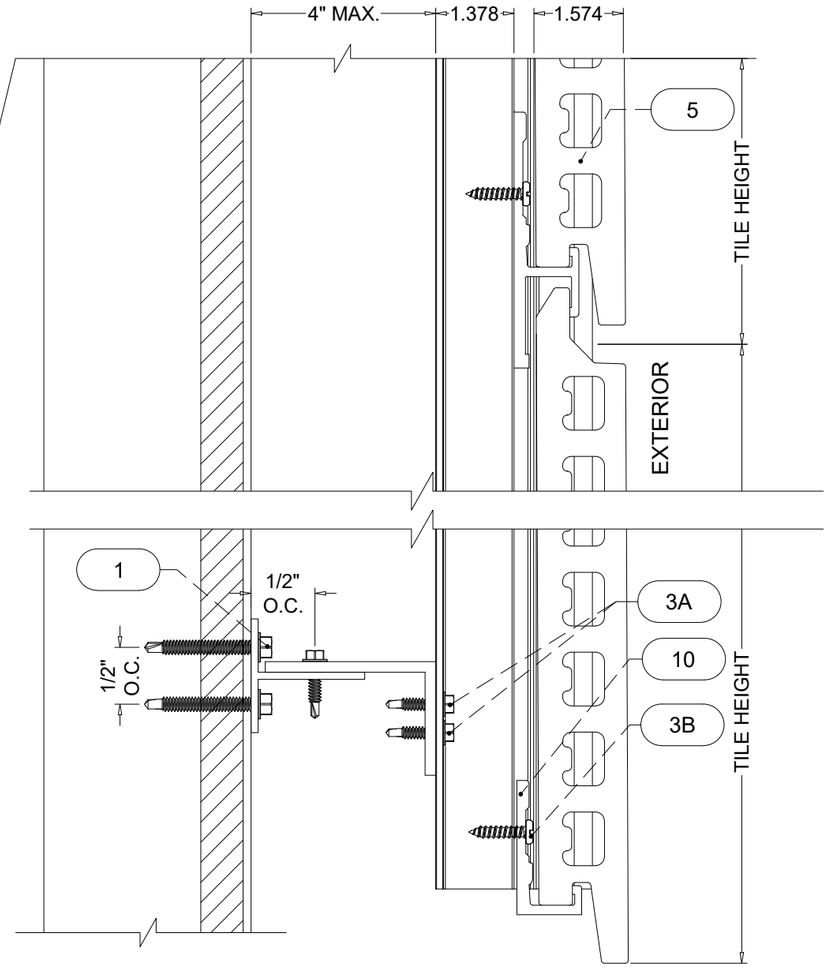
FL# 14291.2



S.1 TOP. DETAIL



S.2 INT. DETAIL



S.3 BOTTOM DETAIL

METAL STRUCTURES NOT BY 'SHILDAN INC.'
MUST SUSTAIN LOADS IMPOSED BY CLADDING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

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SEC. DETAILS

SHEET No. 06 OF 11

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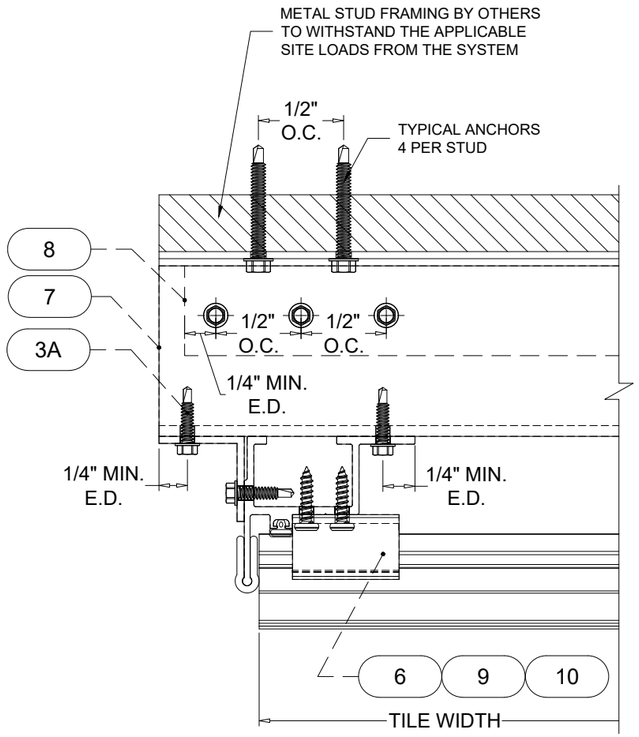
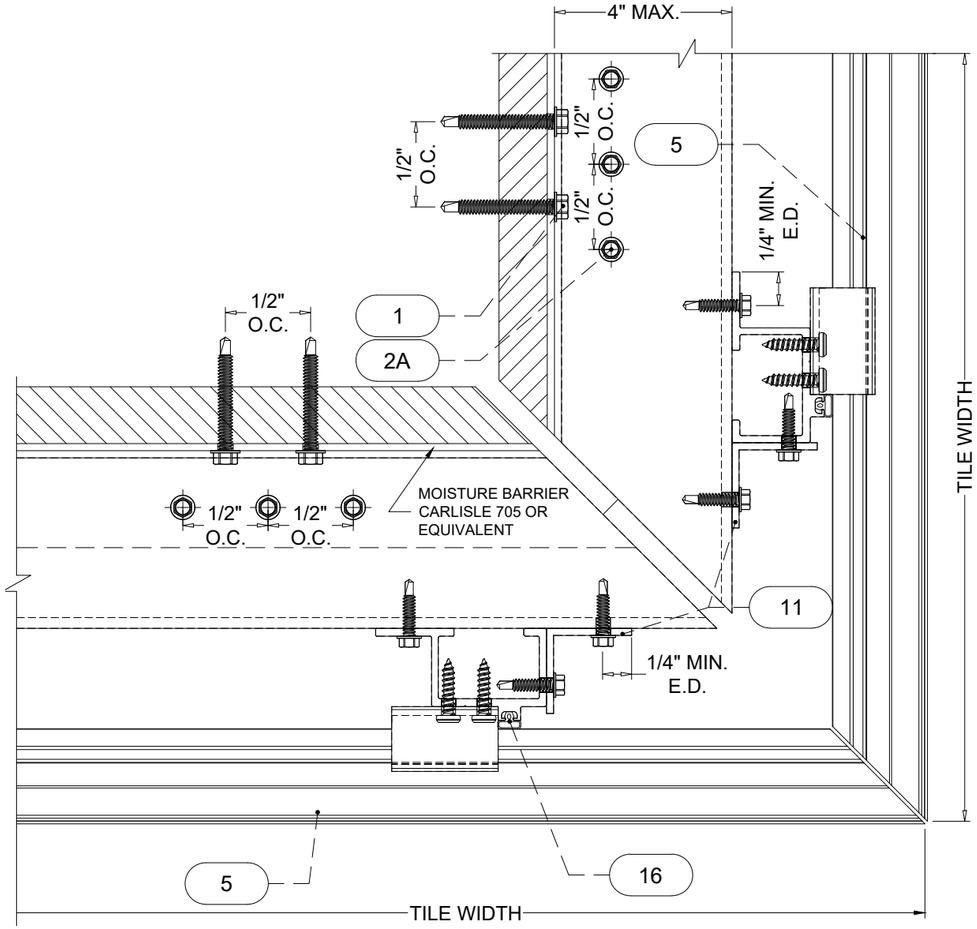


S.4 SIDE DETAIL



S.5 CORNER DETAIL

METAL STRUCTURES NOT BY 'SHILDAN INC.'
MUST SUSTAIN LOADS IMPOSED BY CLADDING SYSTEM
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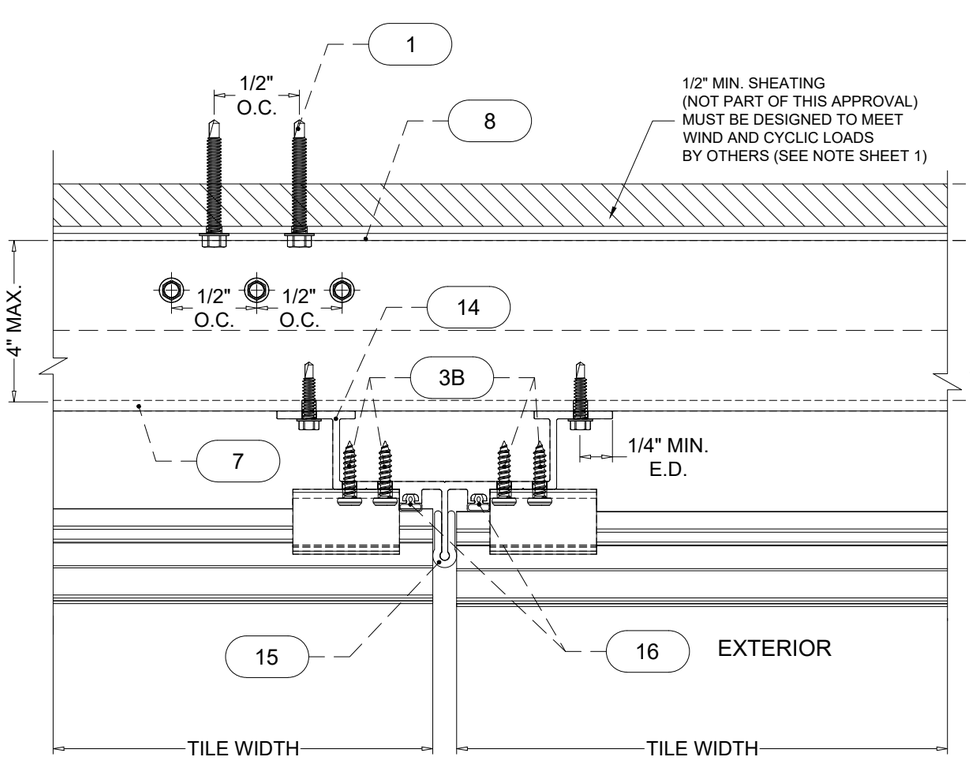
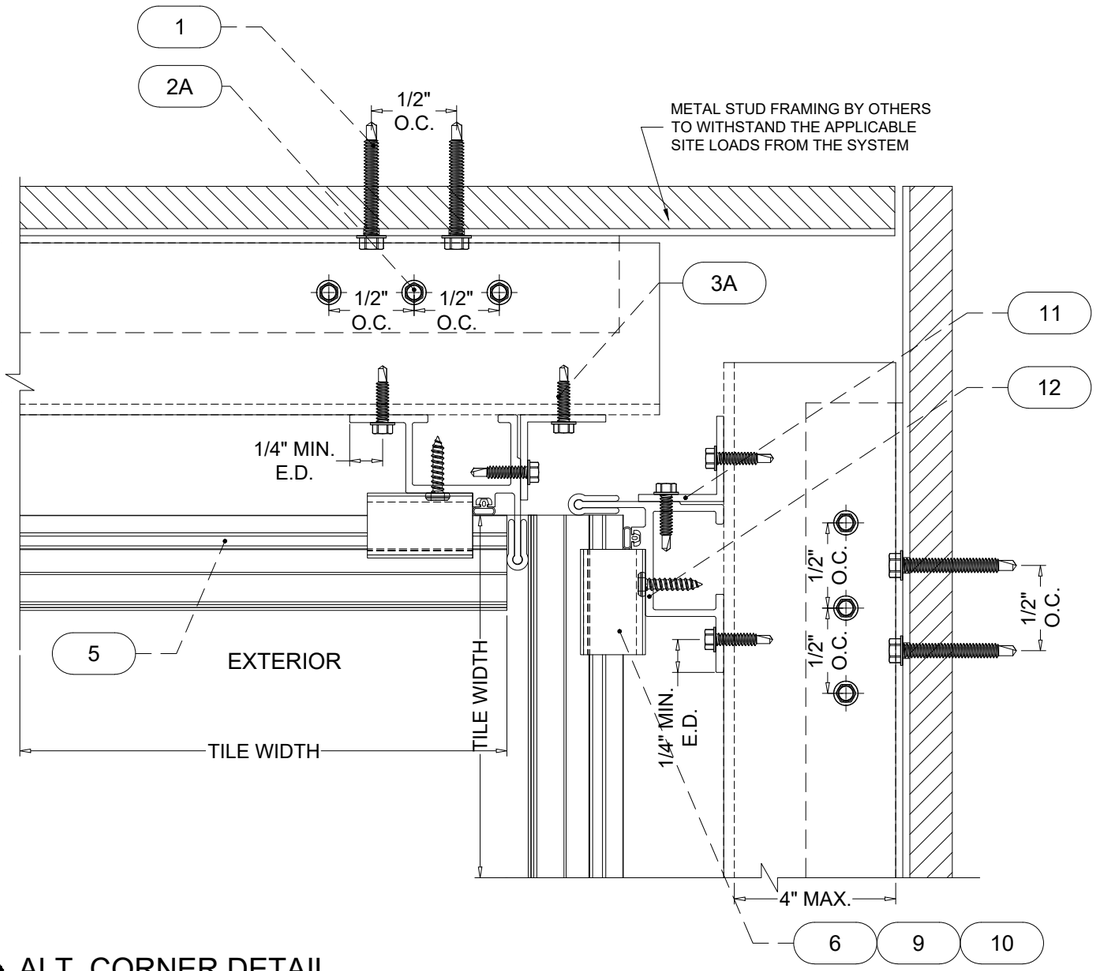
SEC. DETAILS

SHEET No.
07 OF 11

FL# 14291.2



S.6 MID DETAIL



S.8 ALT. CORNER DETAIL

METAL STRUCTURES NOT BY 'SHILDAN INC.'
MUST SUSTAIN LOADS IMPOSED BY CLADDING SYSTEM
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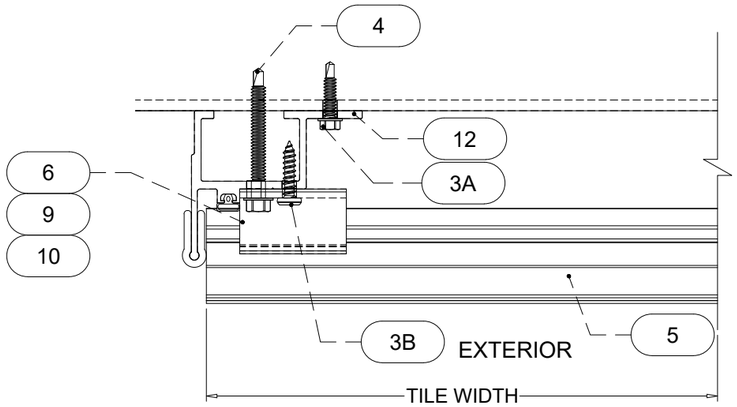
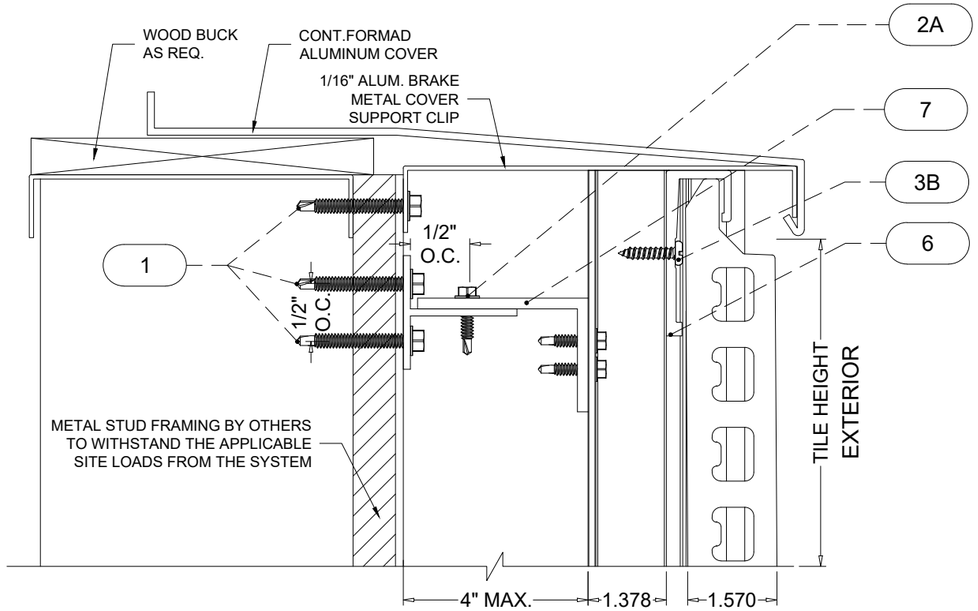
SEC. DETAILS | SHEET No. 08 OF 11

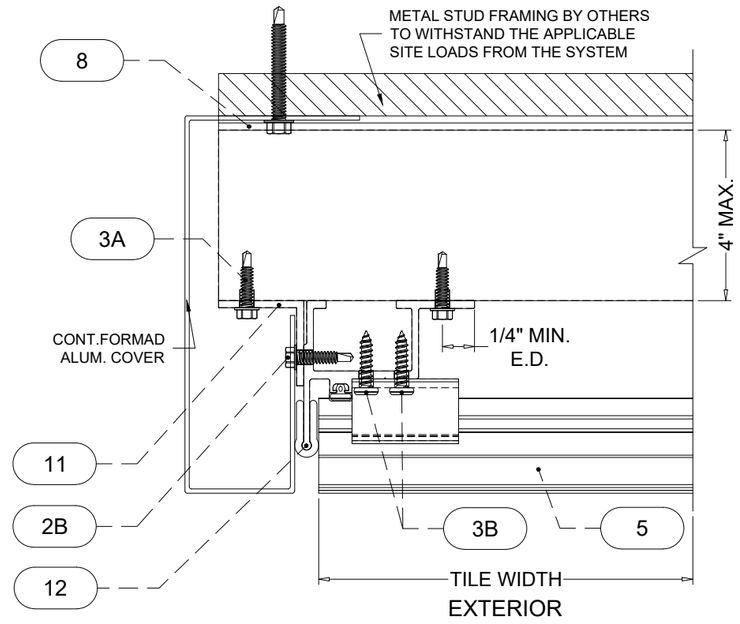
FL# 14291.2



S.7 ALT. JAMB DETAIL



TOP CLOSURE DETAIL



SIDE CLOSURE DETAIL

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LONGOTON TERRACOTTA RAINSCREEN 12" SYSTEM

SHILDAN INC.
2047 BRIGGS ROAD
MT. LAUREL, NJ 08054
TEL. (215) 525-4510
FAX. (215) 525-4511

REVISION

No.	DATE	BY	DESCRIPTION

date:	09-20-2023	M.S.	H.T.	DRAWING NO.
scale:		drawn by:	check by:	JA-1687-23

JAVAD AHMAD LICENSE No 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

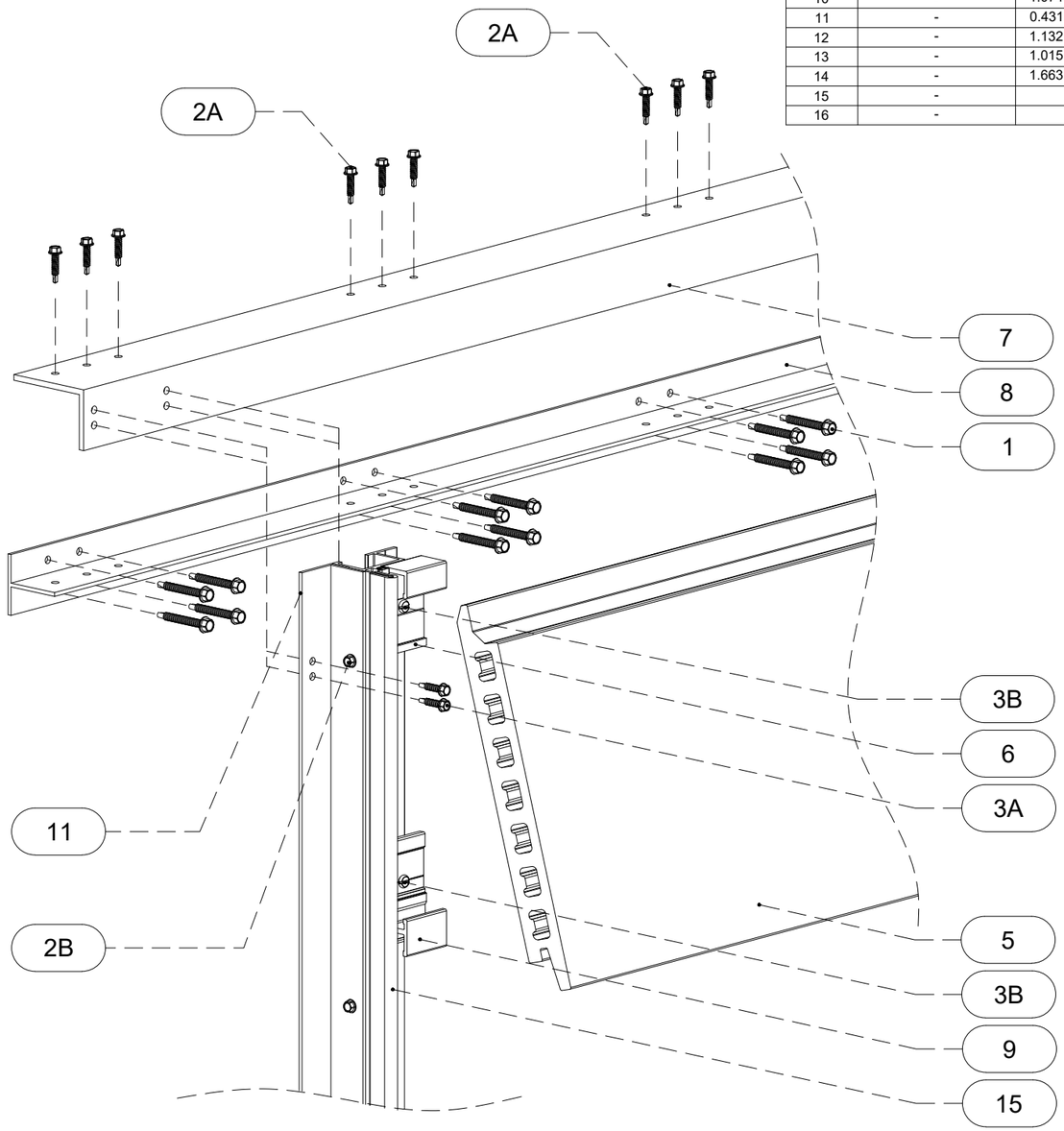
SEALED: 11-27-2023

SEC. DETAILS

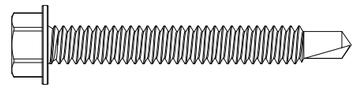
SHEET No. 09 OF 11

BILL OF MATERIAL

ITEM #	PART #	WEIGHT	QUANTITY	DESCRIPTION	MATERIAL	MANF / SUPPLIER / REMARKS
1	1/4" DIA. TEKS	-	AS REQ.	T - BRACKET CLIP FASTERNERS INTO SUBSTRATE	-	300 STAINLESS STEEL
2A	#12 X 1"	-	AS REQ.	HOR. ANGLE FASTERNERS INTO T - BRACKET CLIP	-	300 STAINLESS STEEL
2B	#12 X 1"	-	AS REQ.	VERTICAL TRACK TO ANGLE FASTENERS	-	300 STAINLESS STEEL
3A	#14 X 1"	-	AS REQ.	VERTICAL TRACK TO HOR. ANGLE FASTENERS	-	300 STAINLESS STEEL
3B	#14 X 1"	-	AS REQ.	TILE CLIP FASTENERS	-	300 STAINLESS STEEL
4	#14 X 2-1/2"	-	AS REQ.	VERTICAL TRACK TO HOR. ANGLE FASTENERS	-	300 STAINLESS STEEL
5	-	15 LBS / SQ.FT	AS REQ.	LONGOTON TERRA COTTA TILE	TERRACOTTA	MOEDING KERAMIKFASSADEN GMBH
6	-	1.382 LBS / FT	AS REQ.	TOP TILE CLIP, 1-7/8" LONG	6063-T6	KEYMARK CORP.
7	-	.731 LBS / FT	AS REQ.	2" X 3" CONT. ALUM. ANGLE, 1/8" THK.	6061-T6	KEYMARK CORP.
8	-	.562 LBS / FT	AS REQ.	HORIZONTAL T-CLIP CONT.	6063-T6	KEYMARK CORP.
9	-	1.352 LBS / FT	AS REQ.	MID TILE CLIP, 1-7/8" LONG	6005-T5	KEYMARK CORP.
10	-	1.074 LBS / FT	AS REQ.	BOTTOM TILE CLIP, 1-7/8" LONG	6005-T5	KEYMARK CORP.
11	-	0.431 LBS / FT	AS REQ.	END CLOSURE ANGLE	ALUMINUM	KEYMARK CORP.
12	-	1.132 LBS / FT	AS REQ.	VERTICAL END TRACK	6063-T6	KEYMARK CORP.
13	-	1.015 LBS / FT	AS REQ.	VERTICAL CORNER TRACK	6061-T6 / 6005-T5	KEYMARK CORP.
14	-	1.663 LBS / FT	AS REQ.	VERTICAL CENTER TRACK	6061-T6 / 6005-T5	KEYMARK CORP.
15	-	-	AS REQ.	SPACER GASKET	-	TREMCO
16	-	-	AS REQ.	PRESSURE GASKET	-	TREMCO

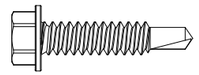


INSTALLATION & TILE REPLACEMENT DETAIL

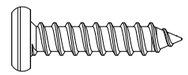


1 1/4" DIA. TEK SCREW
SCALE = 1'-0" = 1'-0"

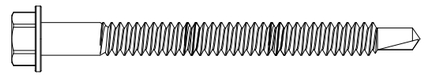
2 #12 X 1" SMS
SCALE = 1'-0" = 1'-0"



3A #14 X 1" SMS
SCALE = 1'-0" = 1'-0"



3B #14 X 1" SMS (ROUND SLOTTED)
SCALE = 1'-0" = 1'-0"



4 #14 X 2-1/2" SMS
SCALE = 1'-0" = 1'-0"

INSTALLATION SCREWS

FL# 14291.2

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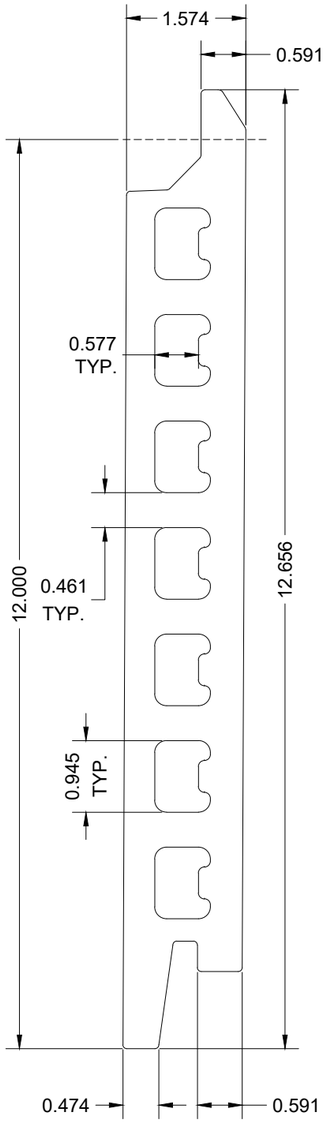
INST. DETAIL

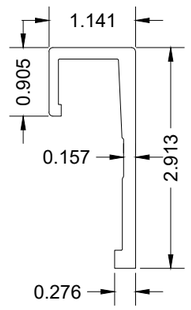
SHEET No. 10 OF 11

FL# 14291.2

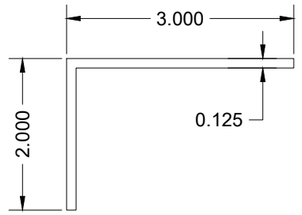


12" H X 60" W (SHOWN)

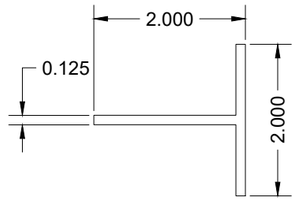
5 LONGOTON TERRACOTTA TILE
SCALE = 6" = 1'-0"



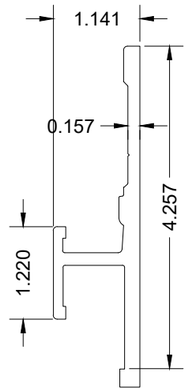
6 TOP TILE CLIP
SCALE = 6" = 1'-0"



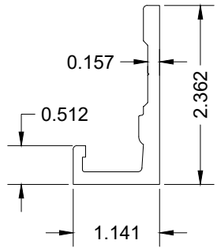
7 HOR. ANGLE
SCALE = 6" = 1'-0"



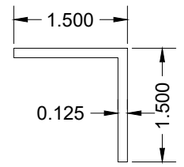
8 HOR. T-CLIP CONT.
SCALE = 6" = 1'-0"



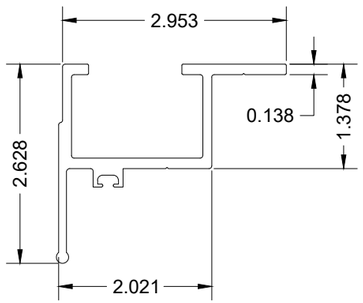
9 MID TILE CLIP
SCALE = 6" = 1'-0"



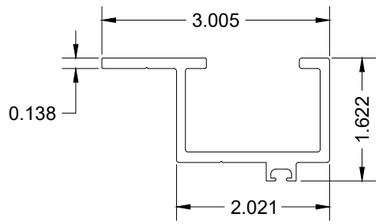
10 BOTTOM CLIP
SCALE = 6" = 1'-0"



11 END CLOSURE ANGLE
SCALE = 6" = 1'-0"



12 VER. END TRACK
SCALE = 6" = 1'-0"



13 VER. CORNER TRACK
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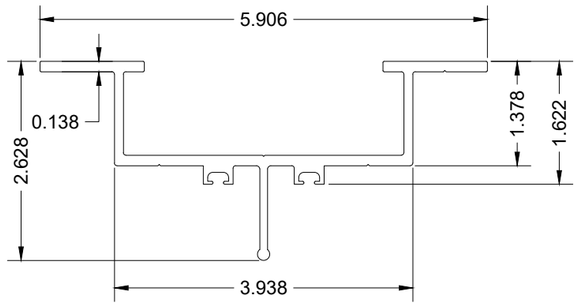

14 VER. CENTER TRACK
SCALE = 6" = 1'-0"

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PROFILES

SHEET No. 11 OF 11