

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW REQUIREMENTS	03/06/19	R.L.


NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
- WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL.
- WHERE SHIM OR BUCK THICKNESS IS LESS THAN 1 1/2" WINDOW UNITS MUST BE ANCHORED THROUGH THE FRAME IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE SECURELY FASTENED DIRECTLY INTO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE MATERIAL.
- WHERE WOOD BUCK THICKNESS IS 1 1/2" OR GREATER, BUCK SHALL BE SECURELY FASTENED TO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE. WINDOW UNITS MAY BE ANCHORED THROUGH FRAME TO SECURED WOOD BUCK IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
- WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
- SHIM AS REQUIRED AT EACH ANCHOR LOCATION WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
- SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
- WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
- FRAME MATERIAL: 6060-T64 ALUMINUM.
- UNITS MUST BE GLAZED PER ASTM E1300-04, SEE SHEET 2 FOR GLASS DETAILS
- APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
- FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE UNIVERSAL ANCHOR SF COUNTERSUNK D7.5MM WITH SUFFICIENT LENGTH TO ACHIEVE A 2" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- FOR ANCHORING INTO MASONRY/CONCRETE USE UNIVERSAL ANCHOR SF COUNTERSUNK D7.5MM WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/2" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- FOR ANCHORING INTO METAL STRUCTURE USE COUNTERSUNK SCREW M6 WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- ALL FASTENERS TO BE CORROSION RESISTANT.
- 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 BELOW:
  - WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
  - CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
  - MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
  - METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 1/8" THICK MINIMUM
- APPROVED CONFIGURATIONS: OX, XO.

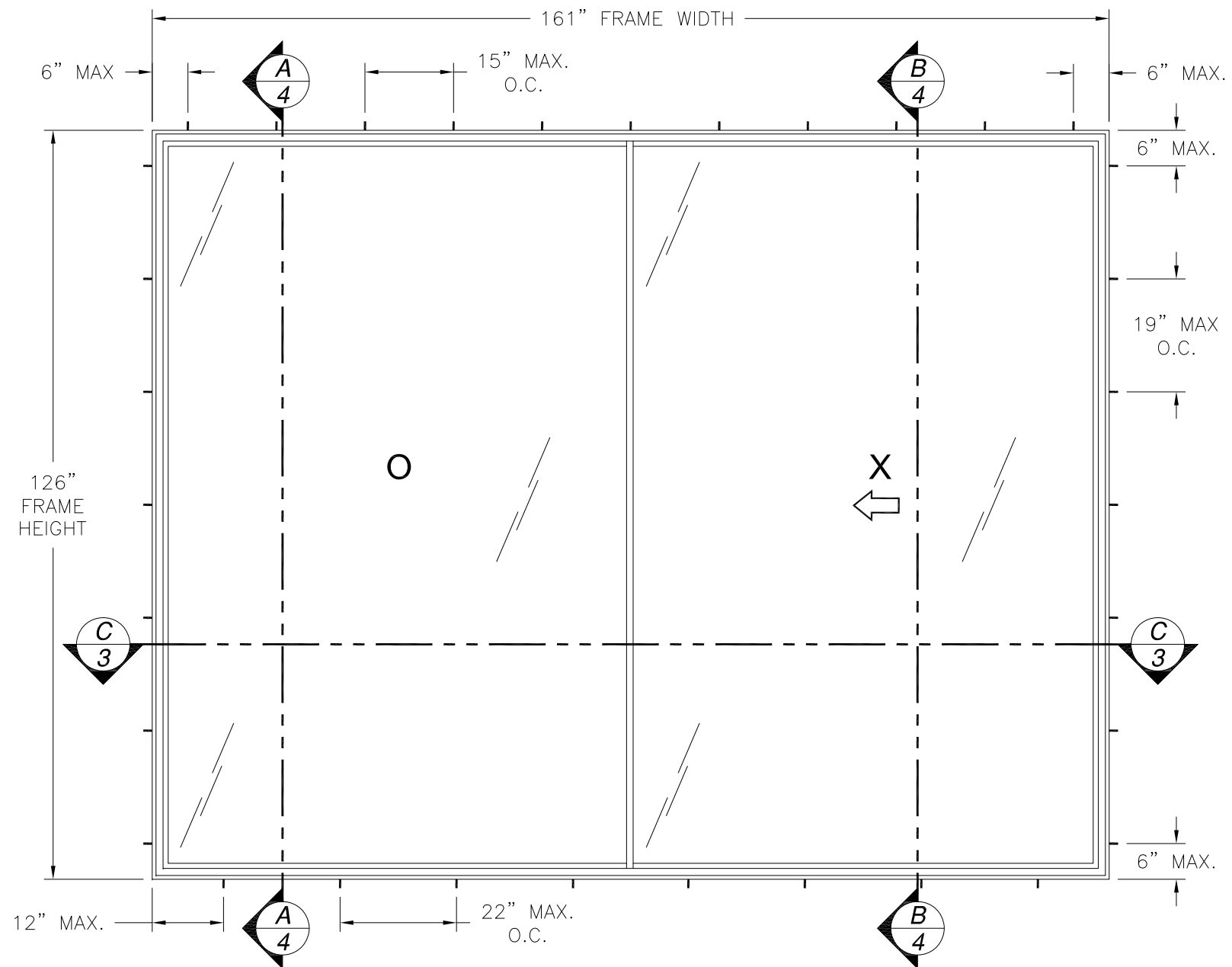
SIGNED: 03/14/2019

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SHEET NO.	DESCRIPTION
1	NOTES
2	ELEVATION
3 - 4	CROSS SECTIONS AND B.O.M.
5 - 8	INSTALLATION DETAILS
9 - 10	COMPONENTS

SKY-FRAME INC. LANGFELDSTRASSE 111 FRAUENFELD, SWITZERLAND CH-8500		
SERIES SKY-FRAME 2 ALUMINUM SGD - IMPACT NOTES		
DRAWN: N.G.	DWG NO. 08-02682	REV A
SCALE NTS	DATE 08/24/15	SHEET 1 OF 10
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@rlomaspe.com		



Luis R. Lomas P.E.  
FL No.: 62514



**SERIES SKY-FRAME 2 SLIDING WINDOW**  
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±50PSF	LARGE AND SMALL MISSILE IMPACT

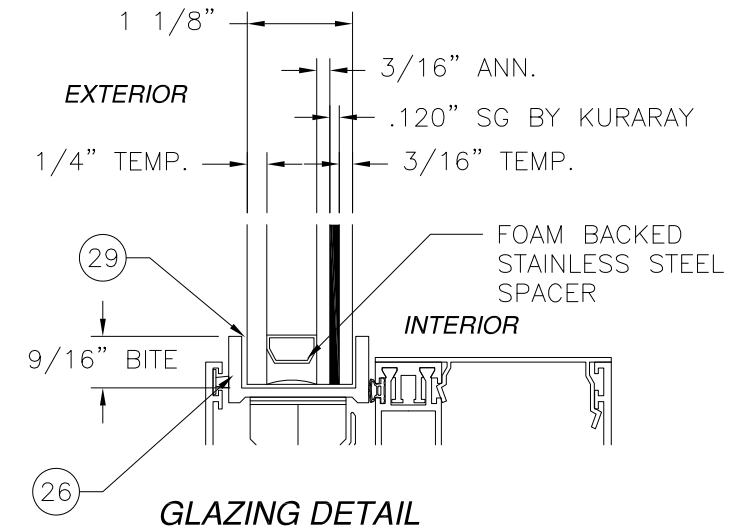
MISSILE LEVEL D, WIND ZONE 4, AND HVHZ

77 3/4" X 120" PANEL SHOWN. OTHER SIZES APPROVED AS LONG AS PANEL AREA DOES NOT EXCEED 64.79 FT<sup>2</sup>

NOTES:

- SASH SIZE: 77 3/4" X 120"
- D.L.O.: 75 3/8" X 117 11/16"
- (13) WEEP SLOT 1 1/8" X 1/4" AT 6" FROM CORNERS AND 12 1/2" ON CENTER.
- (2) 2 1/2" WEEP CHAMBER AT 40" FROM CORNERS INSIDE FRAME
- (2) 2" WEEP BOX MOUNTED TO WEEP CHAMBER
- (2) 2 1/4" X 1 1/4" DRAIN SLOTS 40 1/2" FROM CORNERS AT INSIDE SILL

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HARDWARE SCHEDULE	
A.	(1) MULTIPOINT LOCK BAR ITEM #29 WITH TWO POINTS AT ACTIVE STILE
B.	(2) ADJACENT KEEPERS ITEM #30 AT JAMBS
C.	(2) ROLLER ASSEMBLY ITEM #12 AT SILL
D.	STEEL REINFORCEMENT ITEM #17 (SKI1214.1) AT MEETING STILE FRAME

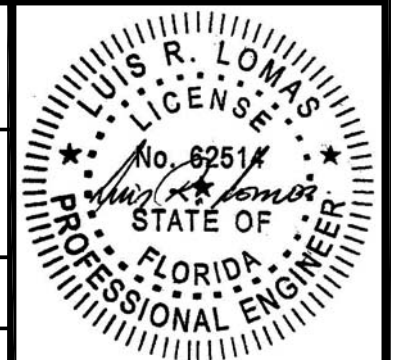
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SKY-FRAME INC.  
LANGFELDSTRASSE 111  
FRAUENFELD, SWITZERLAND CH-8500

SERIES SKY-FRAME 2  
ALUMINUM SGD - IMPACT  
ELEVATION

DRAWN: N.G.	DWG NO. 08-02682	REV A
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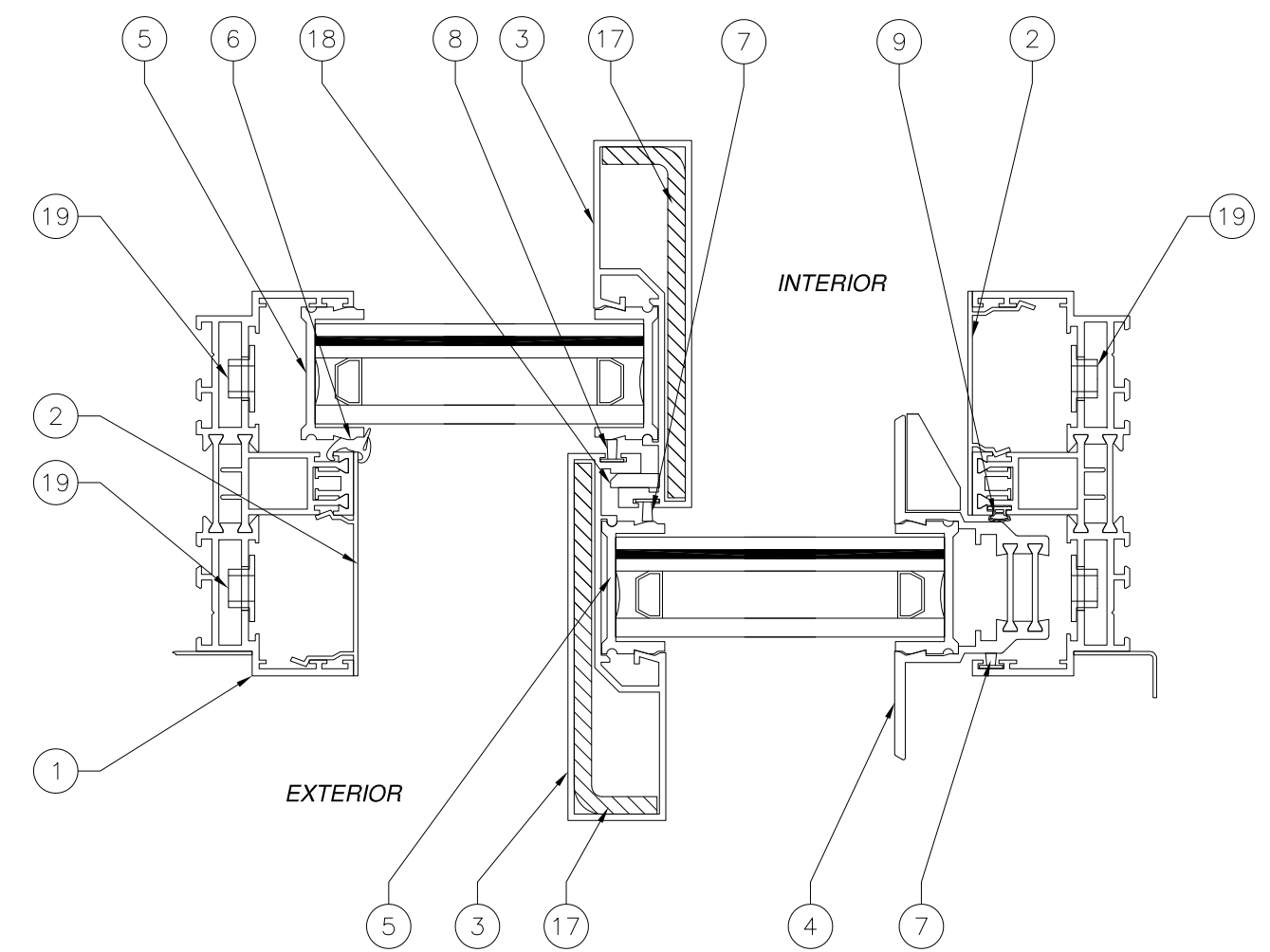


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BILL OF MATERIALS				
ITEM NO.:	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	SK1001	WALL CONNECTION	SKY-FRAME, INC.	ALUMINUM 6060-T64
2	SK1202	COPING	SKY-FRAME, INC.	ALUMINUM 6060-T66
3	SK1214	MULLION	SKY-FRAME, INC.	ALUMINUM 6060-T66
4	SK1101	LOCKING PROFILE	SKY-FRAME, INC.	ALUMINUM 6060-T64
5	SK1304	GRP VERTICAL	SKY-FRAME, INC.	FIBERGLASS
6	SK1420	RUBBER GASKET	SKY-FRAME, INC.	EPDM 70 DUROMETER SHORE A
7	SK1417	BRUSH GASKET	SKY-FRAME, INC.	
8	SK1412	BRUSH GASKET	SKY-FRAME, INC.	
9	SK1416	RUBBER GASKET	SKY-FRAME, INC.	TPS 60 DUROMETER SHORE A
10	SK1001	LINTEL	SKY-FRAME, INC.	ALUMINUM 6060-T64
11	SK1010	BOTTOM TRACK	SKY-FRAME, INC.	ALUMINUM 6060-T64
12	SK1484	RUNNING GEARS	SKY-FRAME, INC.	
13	SK1434	GLASS SUPPORT	SKY-FRAME, INC.	
14	SK1577	INSULATION	SKY-FRAME, INC.	
15	SK1621	10MM BOLT	SKY-FRAME, INC.	EPS
16	SK8001	10MM NUT	TRADER	
17	SK1214.1	STEEL INLAY	TRADER	STEEL
18	SK1547	ABUTTING WEDGE	SKY-FRAME, INC.	POM
19	SK1508	SCREW LOCKING	SKY-FRAME, INC.	
20	SK1514	CORNER CONNECTORS	SKY-FRAME, INC.	ALUMINUM 6063-T6
21	SK1710	EDGE CONNECTING SCREWS/ COUNTERSUNK M8X8	SKY-FRAME, INC.	
22	SK1658	WEEPING SYSTEM	SKY-FRAME, INC.	
23	SK8004	HEXAGON SCREW M10X70	TRADER	
24	SK1571.2	CLAMPING PLATE	SKY-FRAME, INC.	STEEL
25	SK1571.1	BASE PLATE	SKY-FRAME, INC.	STEEL
26	SK1305	SF2 GPK HORIZONTAL	SKY-FRAME, INC.	FIBERGLASS
27	SK1203.3	TRACK	SKY-FRAME, INC.	ALUMINUM 6060-T64
28	SK1380	BASE PLATE	SKY-FRAME, INC.	ALUMINUM 6060-T64
29	WT480	SILICONE	SIKASIL	SILICONE

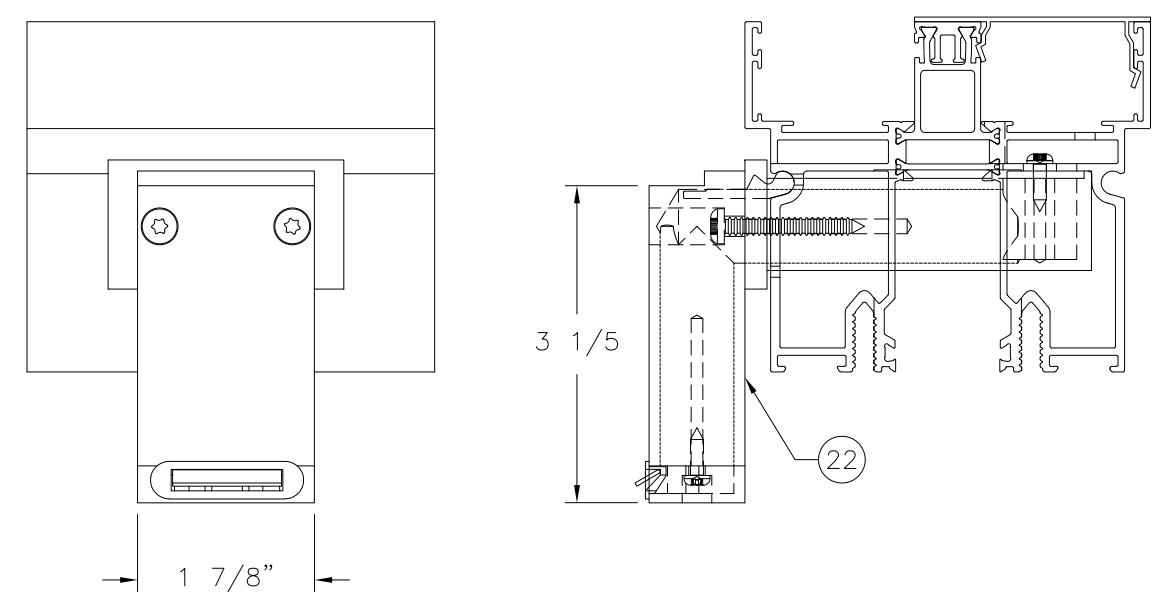
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**FOR ILLUSTRATION PURPOSES ONLY**  
**FOR INSTALLATION DETAILS REFER TO SHEETS 5 - 8**



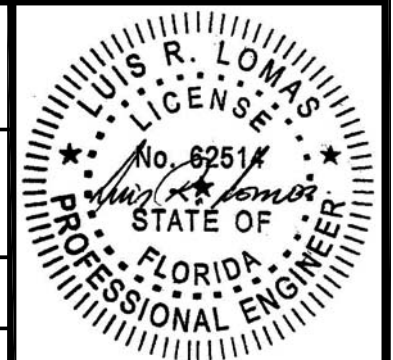
**C**  
**3** HORIZONTAL SECTION

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**WEEPING SYSTEM DETAIL**

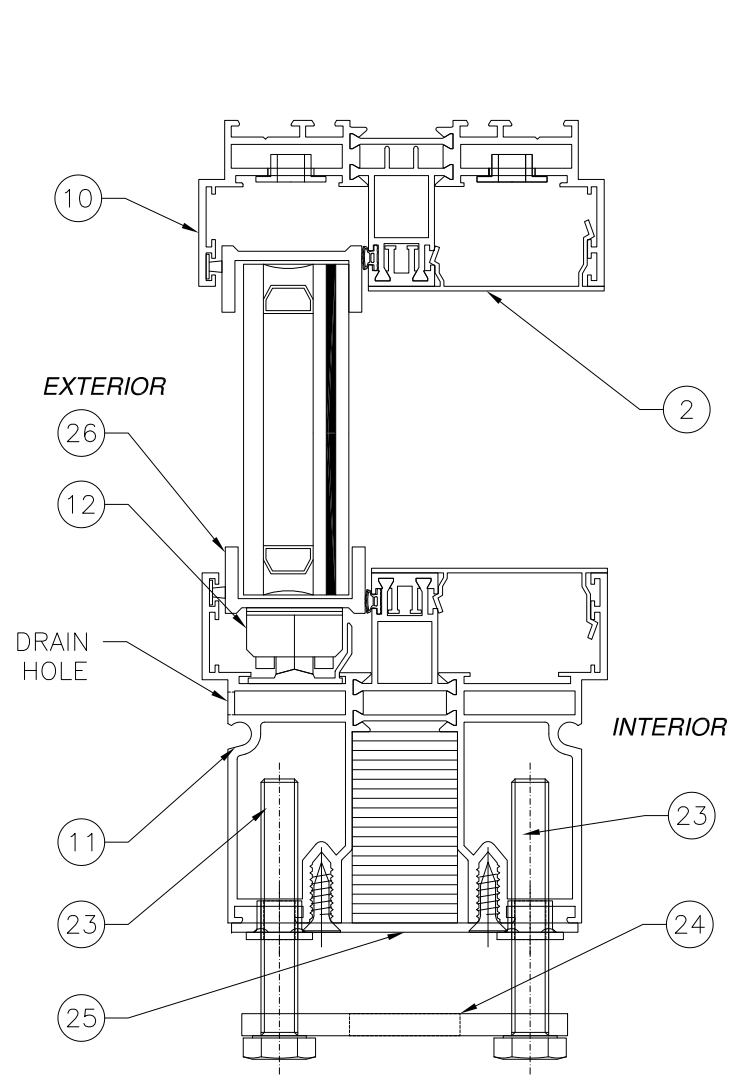
SKY-FRAME INC. LANGFELDSTRASSE 111 FRAUENFELD, SWITZERLAND CH-8500		
SERIES SKY-FRAME 2 ALUMINUM SGD - IMPACT CROSS SECTIONS AND B.O.M.		
DRAWN: N.G.	DWG NO. 08-02682	REV A
SCALE NTS	DATE 08/24/15	SHEET 3 OF 10
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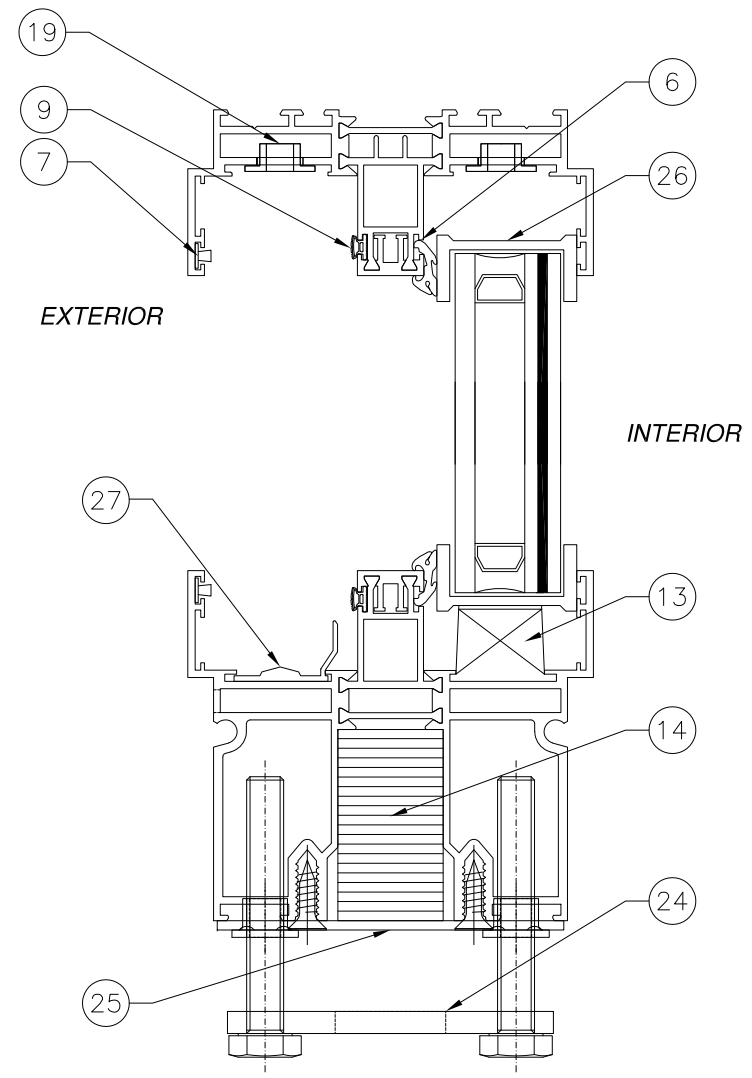
Luis R. Lomas P.E.  
 FL No.: 62514

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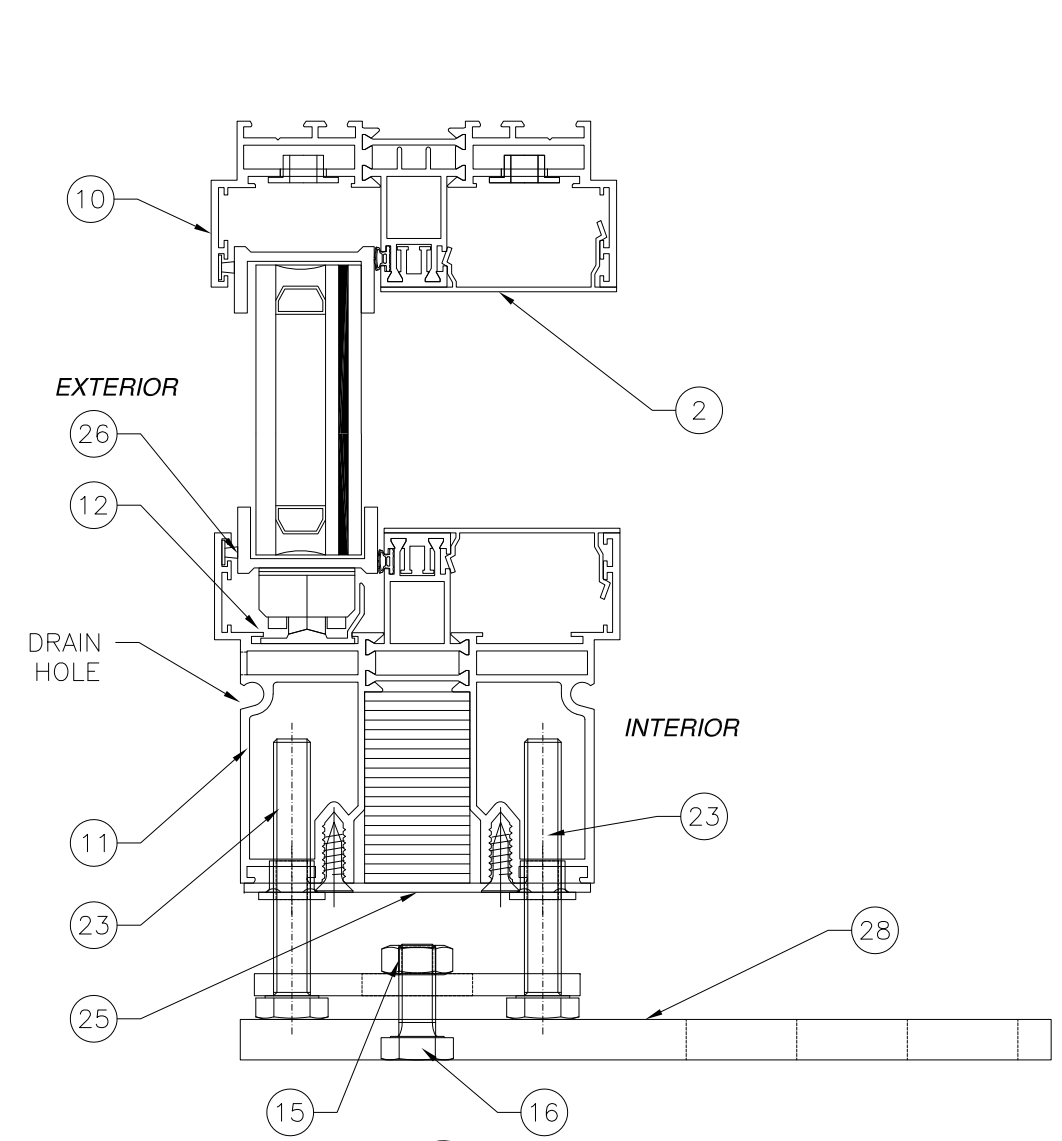
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**A**  
4 VERTICAL SECTION



**B**  
4 VERTICAL SECTION



**A**  
4 VERTICAL SECTION  
WITH BASE PLATE OPTION

SIGNED: 03/14/2019

SKY-FRAME INC.  
 LANGFELDSTRASSE 111  
 FRAUENFELD, SWITZERLAND CH-8500

SERIES SKY-FRAME 2  
 ALUMINUM SGD - IMPACT  
 CROSS SECTIONS

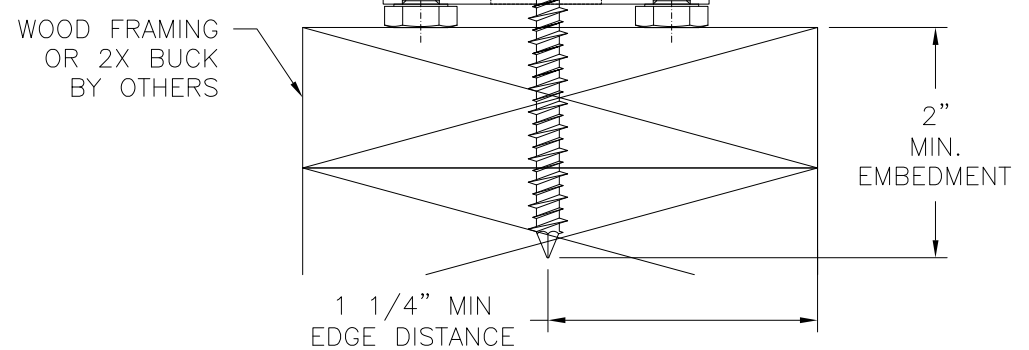
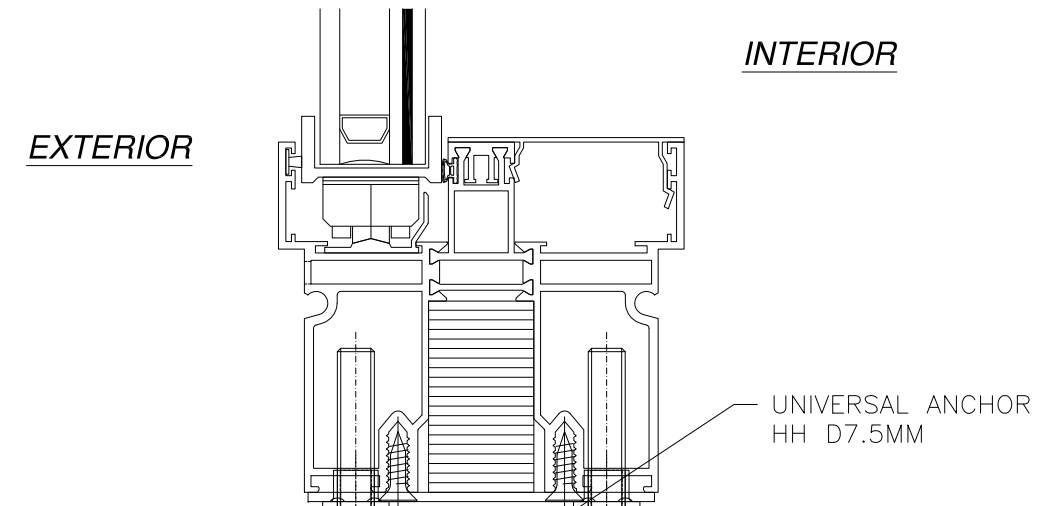
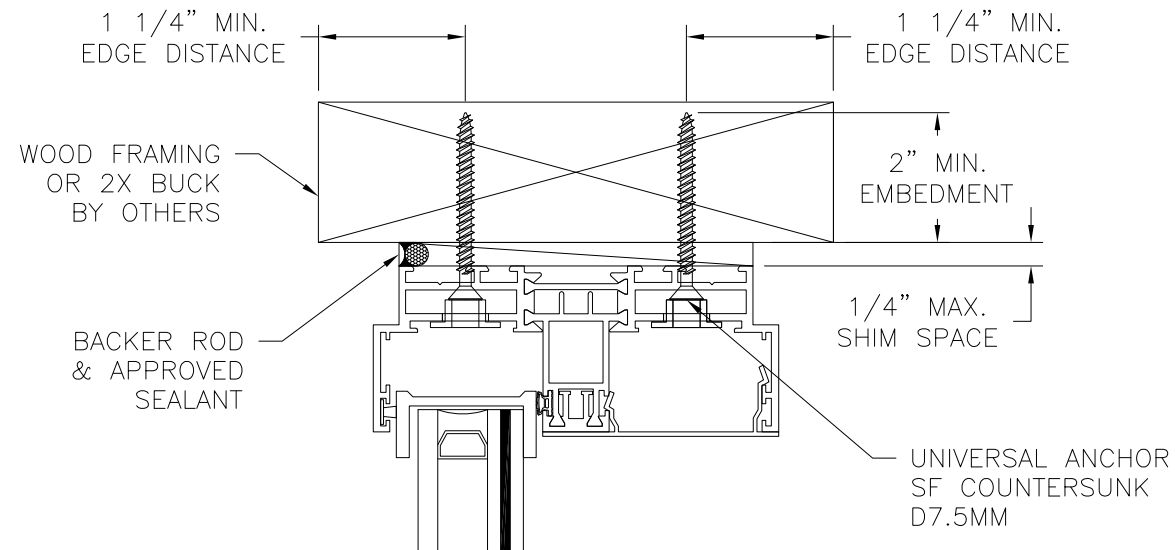
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Professional Engineer Seal for Luis R. Lomas, State of Florida, License No. 62514.

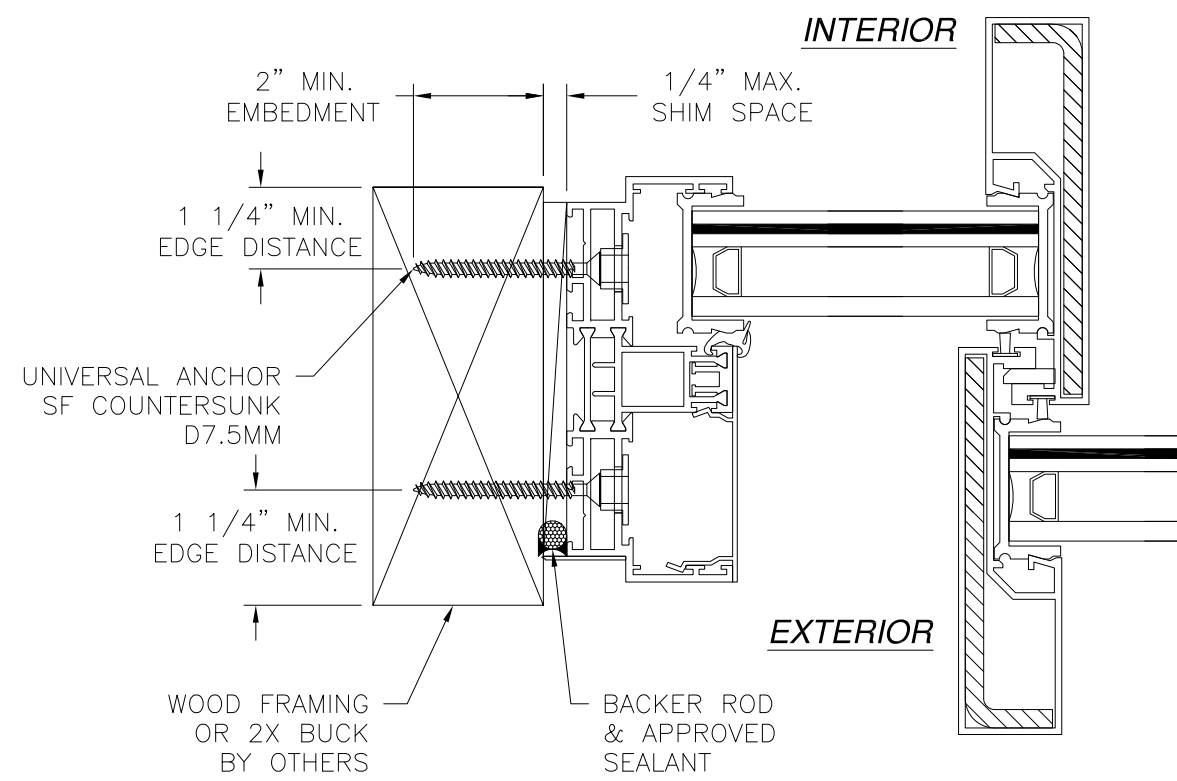
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**VERTICAL CROSS SECTION**  
WOOD FRAMING OR 2X BUCK INSTALLATION

**NOTES:**  
 1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.  
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112



**JAMB INSTALLATION DETAIL**  
WOOD FRAMING OR 2X BUCK INSTALLATION

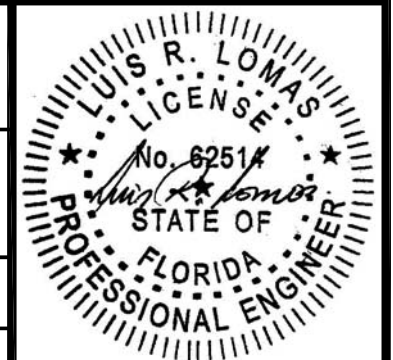
SKY-FRAME INC.  
 LANGFELDSTRASSE 111  
 FRAUENFELD, SWITZERLAND CH-8500

SERIES SKY-FRAME 2  
 ALUMINUM SGD - IMPACT  
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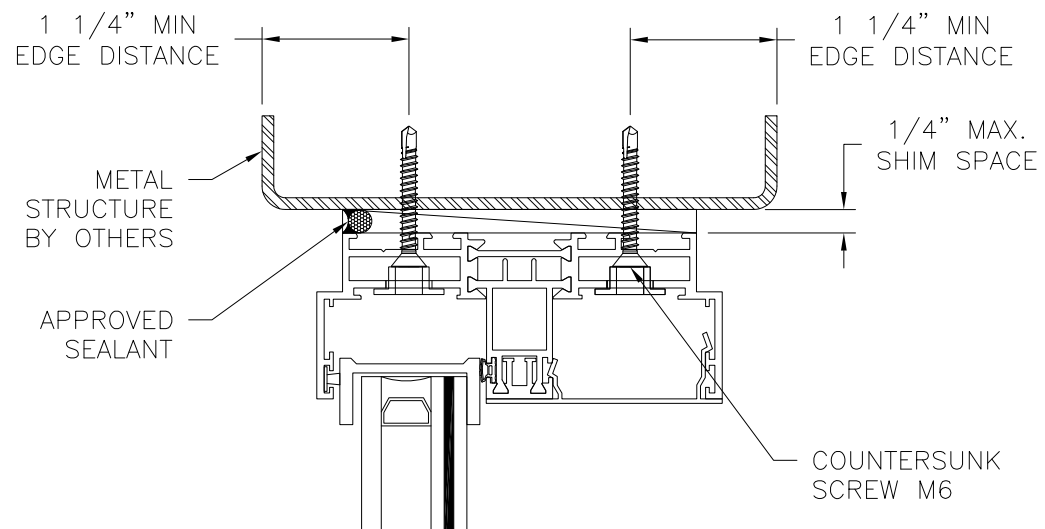
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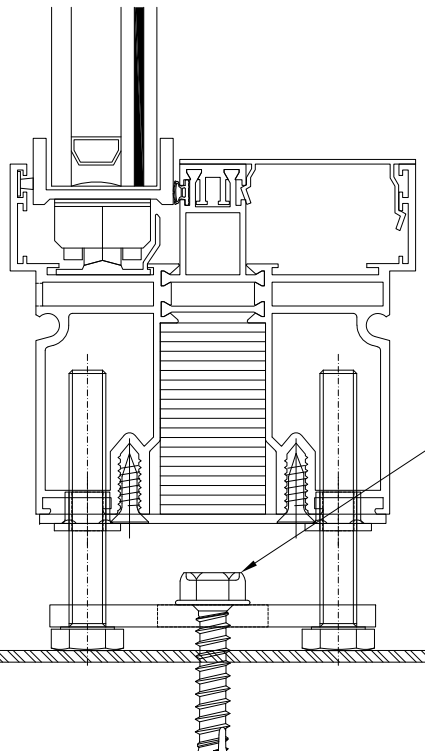
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EXTERIOR

INTERIOR

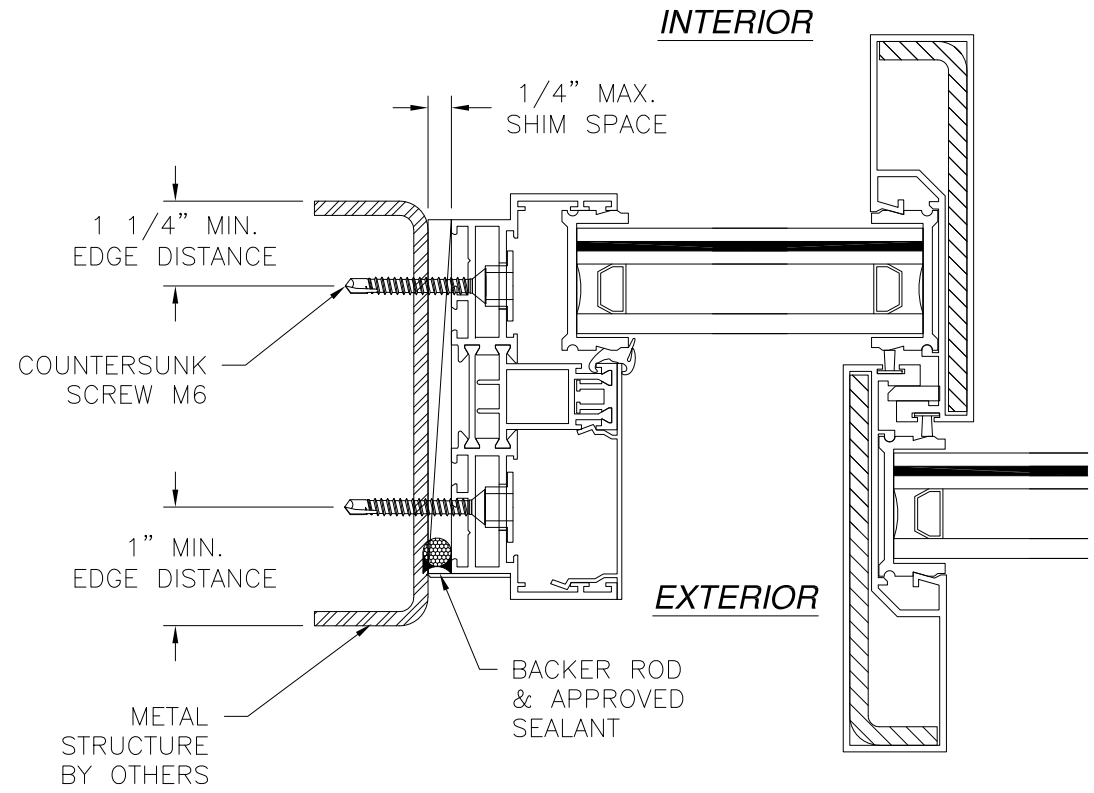


METAL STRUCTURE BY OTHERS

1 1/4" MIN EDGE DISTANCE

**VERTICAL CROSS SECTION**  
METAL STRUCTURE INSTALLATION

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**JAMB INSTALLATION DETAIL**  
METAL STRUCTURE INSTALLATION

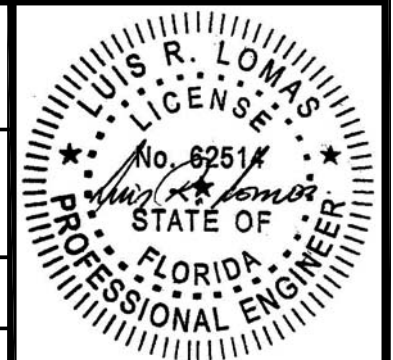
SKY-FRAME INC.  
 LANGFELDSTRASSE 111  
 FRAUENFELD, SWITZERLAND CH-8500

SERIES SKY-FRAME 2  
 ALUMINUM SGD - IMPACT  
 INSTALLATION DETAILS

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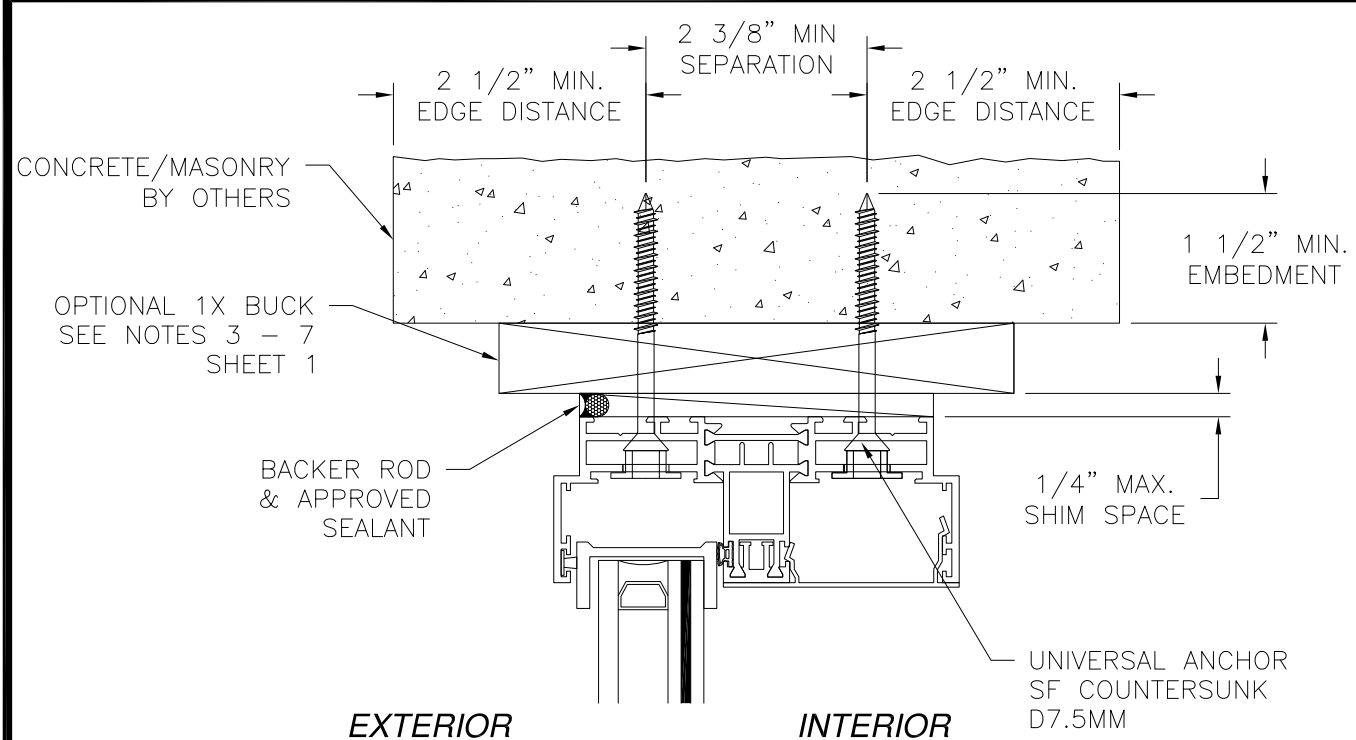
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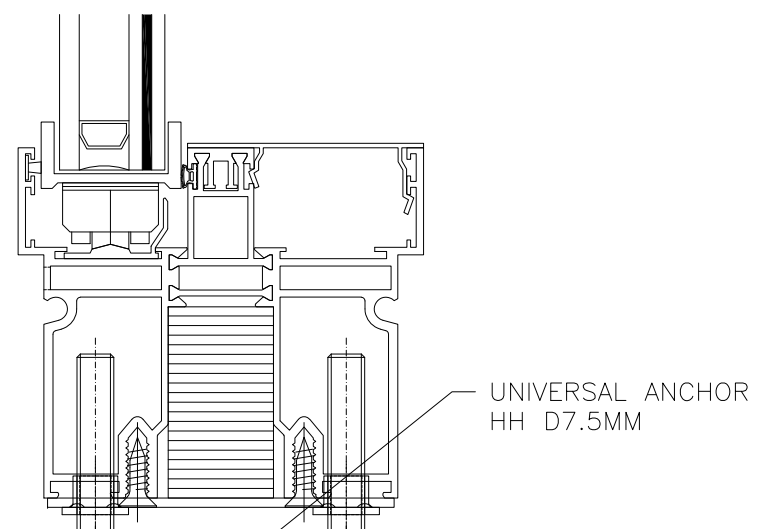


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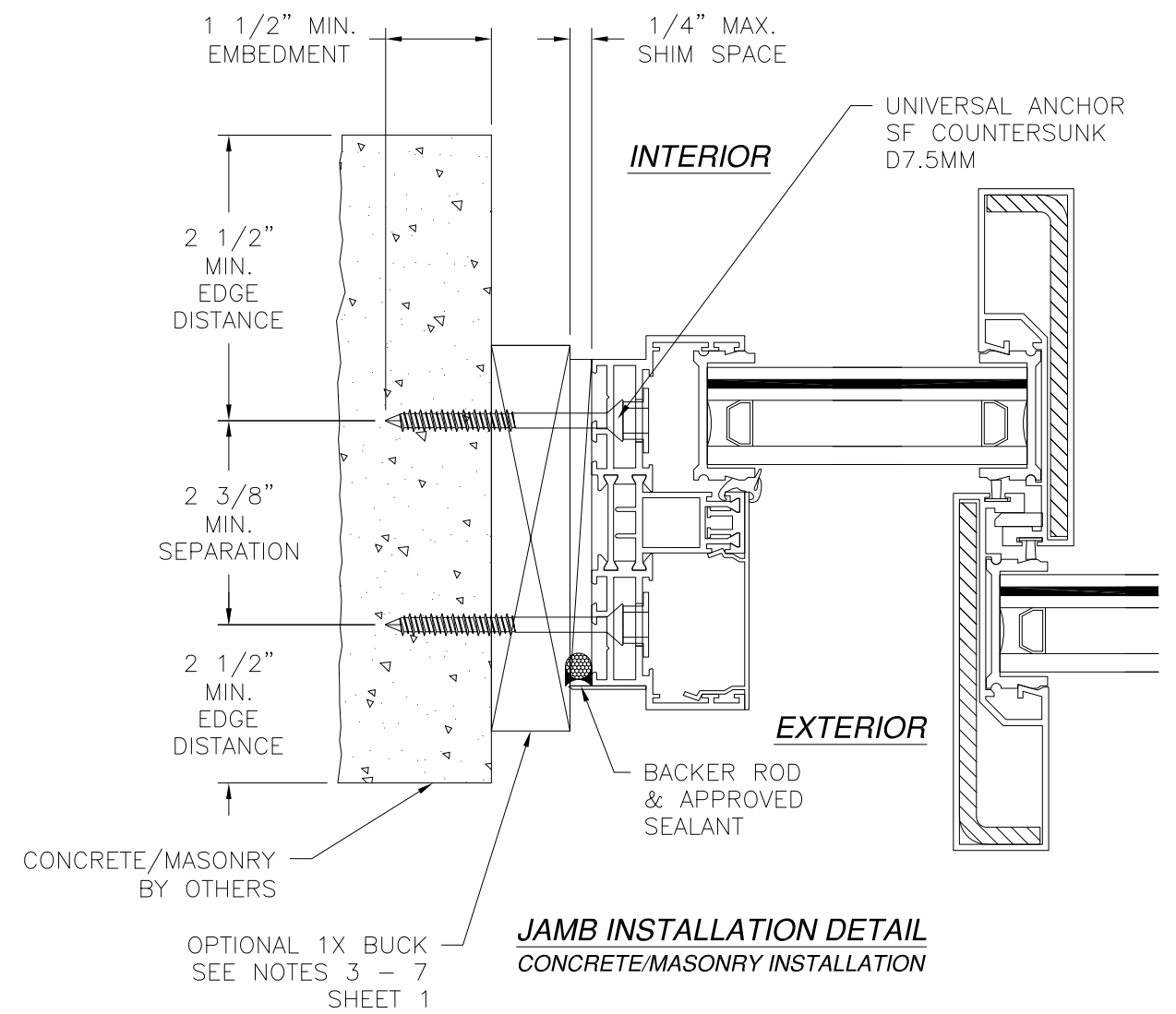
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**EXTERIOR**                      **INTERIOR**



**VERTICAL CROSS SECTION**  
CONCRETE/MASONRY INSTALLATION



**JAMB INSTALLATION DETAIL**  
CONCRETE/MASONRY INSTALLATION

- NOTES:**  
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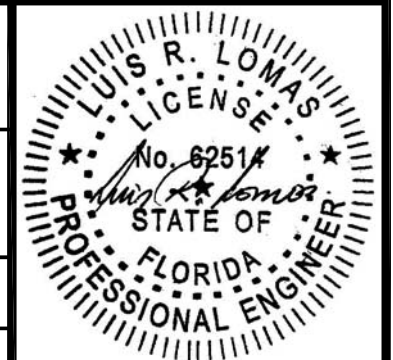
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 FRAUENFELD, SWITZERLAND CH-8500

SERIES SKY-FRAME 2  
 ALUMINUM SGD - IMPACT  
 INSTALLATION DETAILS

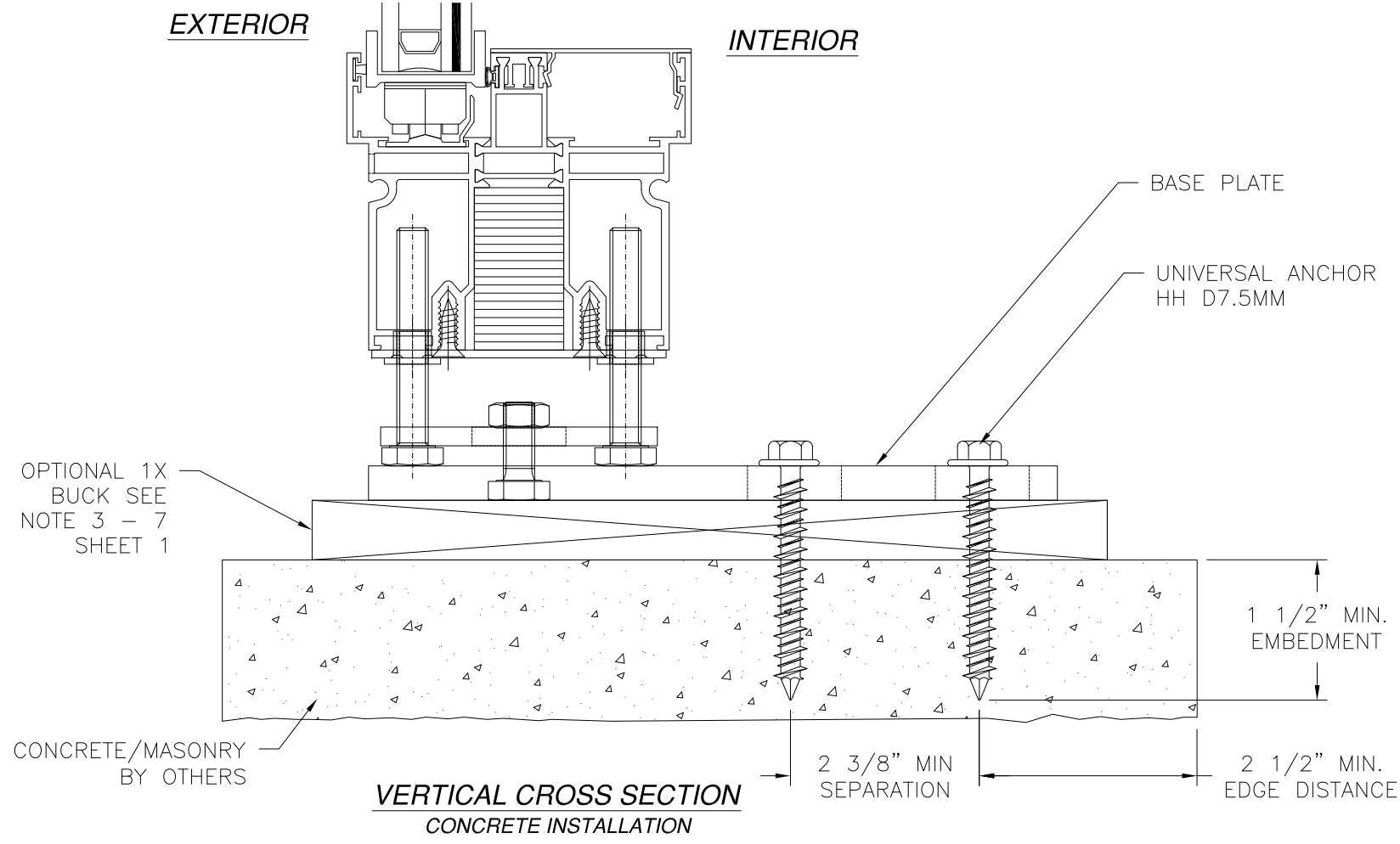
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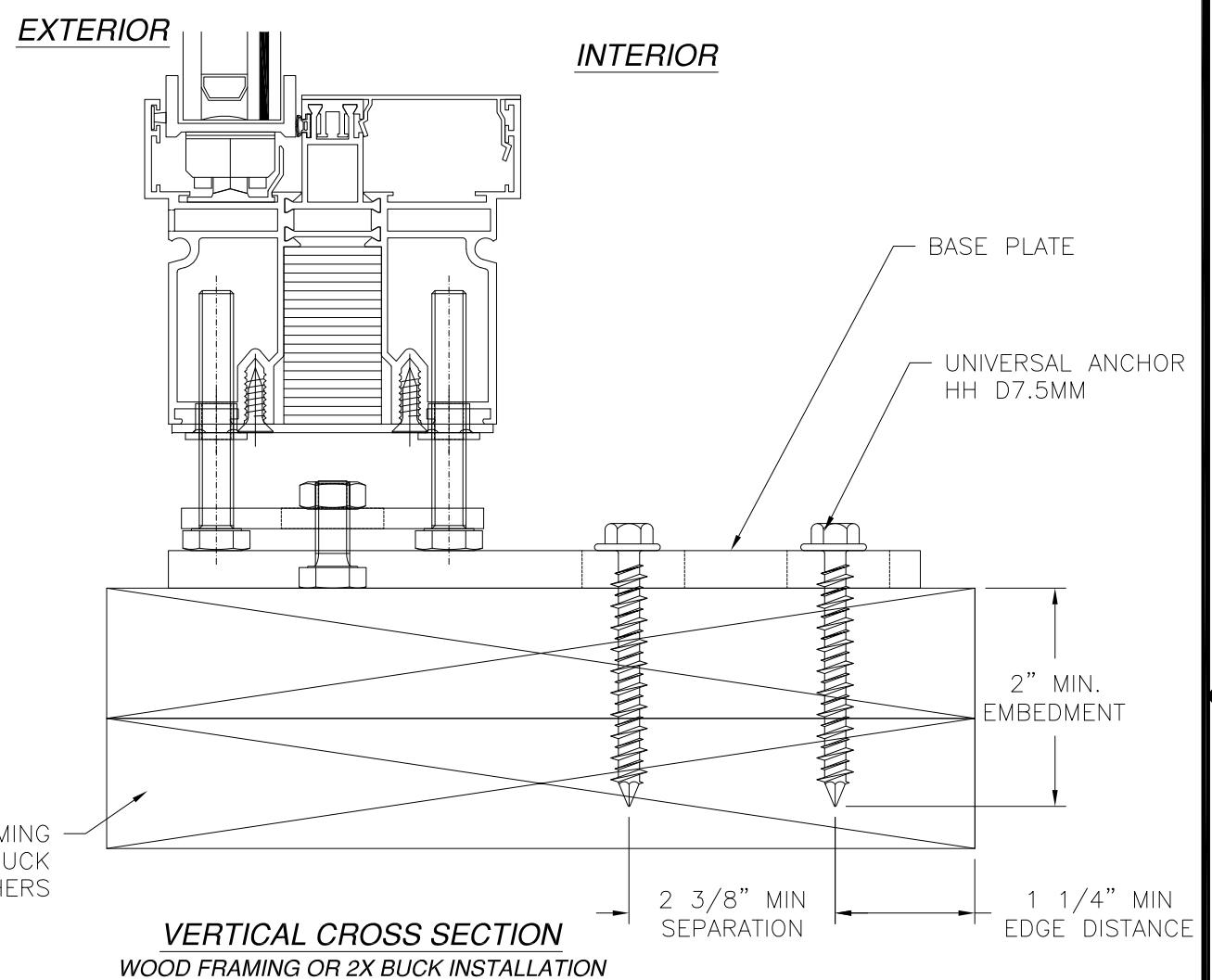


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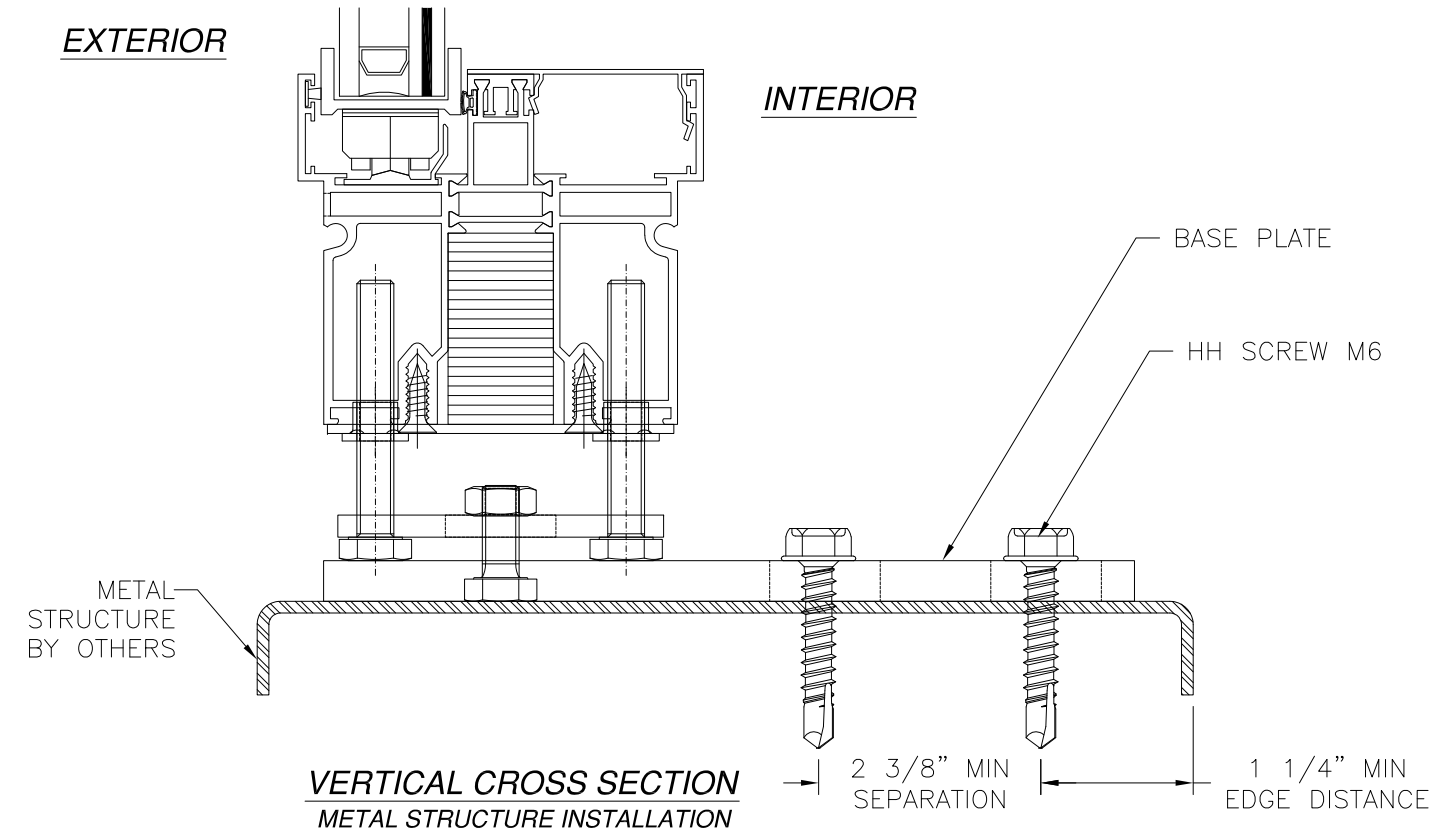
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**VERTICAL CROSS SECTION  
CONCRETE INSTALLATION**



**VERTICAL CROSS SECTION  
WOOD FRAMING OR 2X BUCK INSTALLATION**



**VERTICAL CROSS SECTION  
METAL STRUCTURE INSTALLATION**

- NOTES:**
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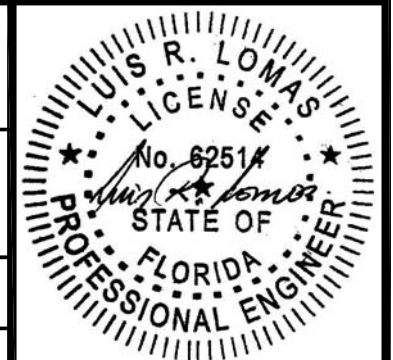
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LANGFELDSTRASSE 111  
FRAUENFELD, SWITZERLAND CH-8500

SERIES SKY-FRAME 2  
ALUMINUM SGD - IMPACT  
INSTALLATION DETAILS

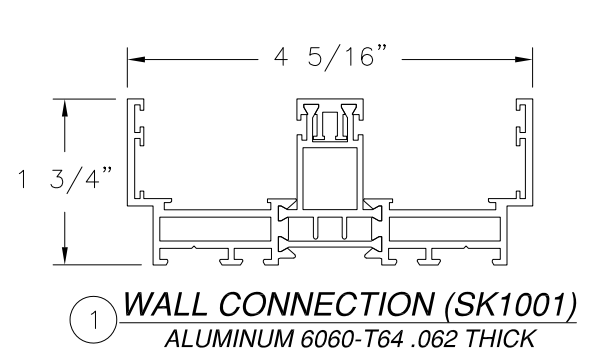
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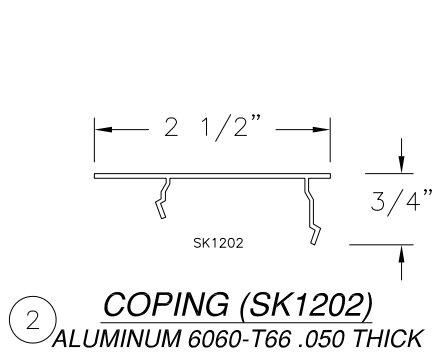


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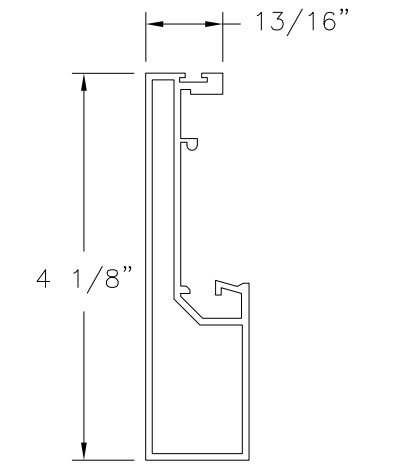




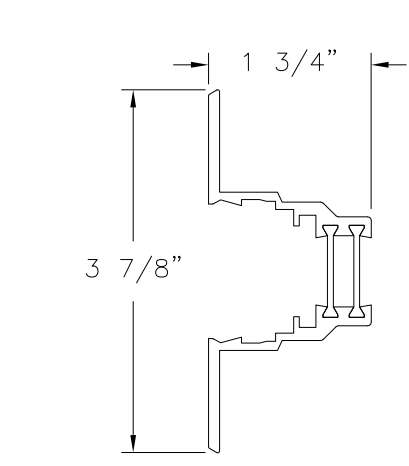
① **WALL CONNECTION (SK1001)**  
ALUMINUM 6060-T64 .062 THICK



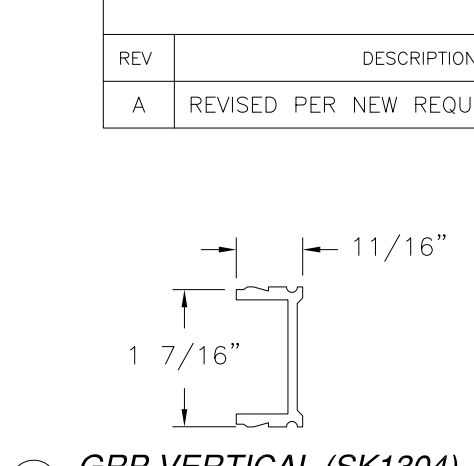
② **COPING (SK1202)**  
ALUMINUM 6060-T66 .050 THICK



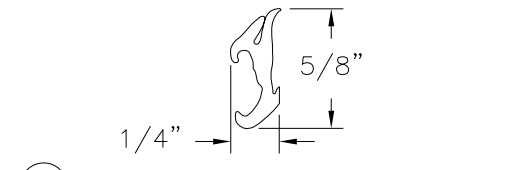
③ **MULLION (SK1214)**  
ALUMINUM 6060-T66 .070 THICK



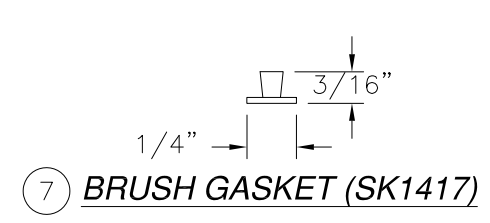
④ **LOCKING PROFILE (SK1101)**  
ALUMINUM 6060-T64 .1181 THICK



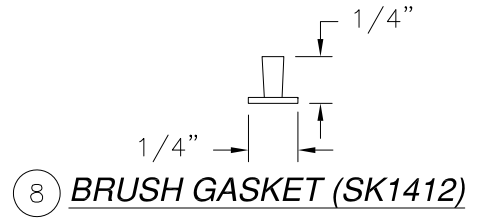
⑤ **GRP VERTICAL (SK1304)**  
FIBERGLASS .098 THICK



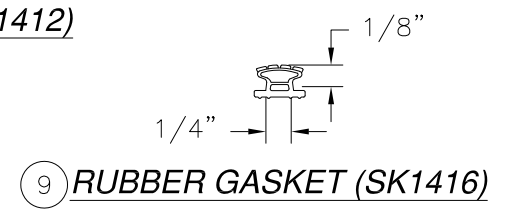
⑥ **RUBBER GASKET (SK1420)**



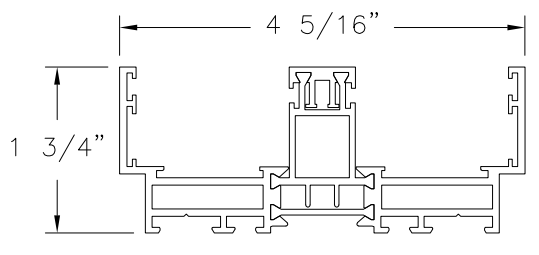
⑦ **BRUSH GASKET (SK1417)**



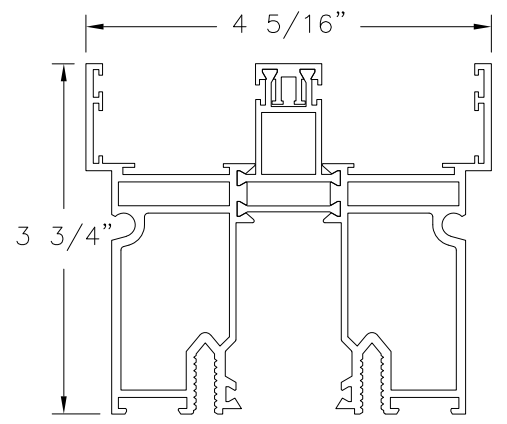
⑧ **BRUSH GASKET (SK1412)**



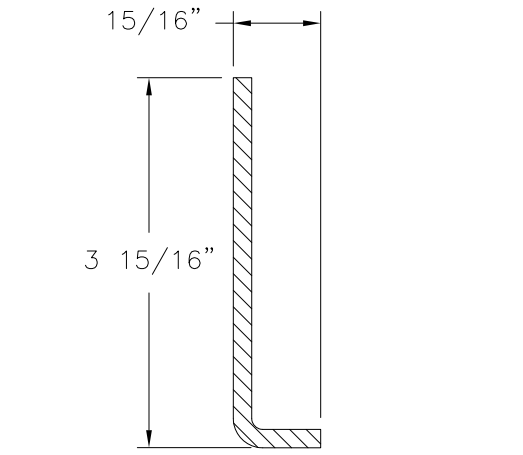
⑨ **RUBBER GASKET (SK1416)**



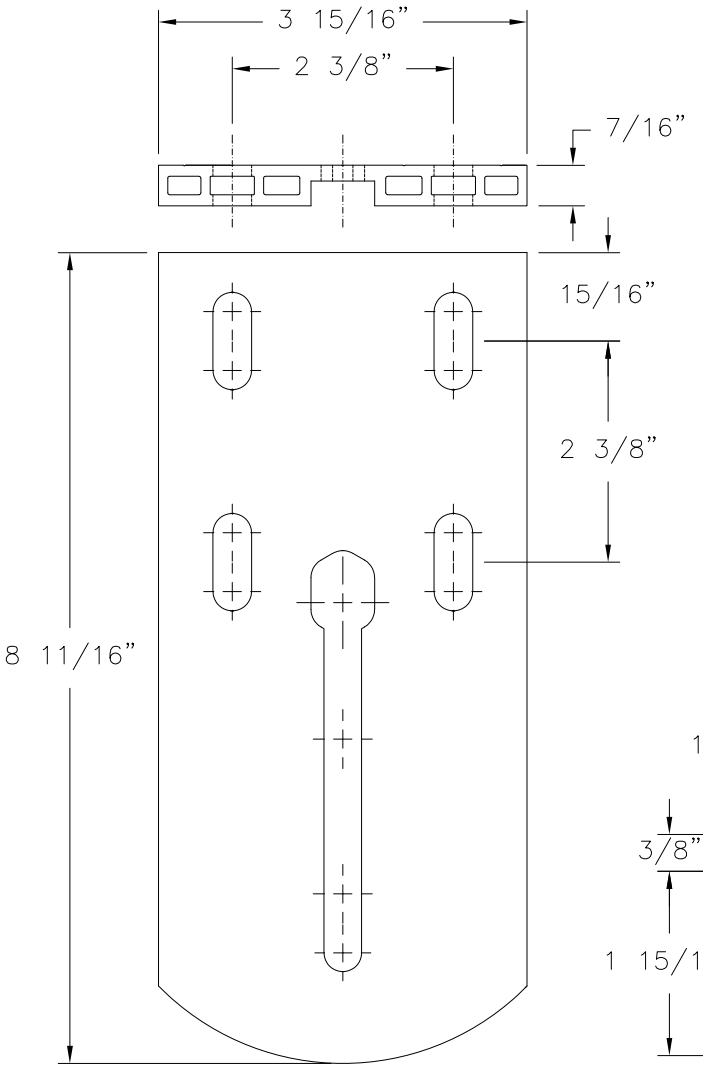
⑩ **LINTEL (SK1001)**  
ALUMINUM 6060-T64 .062 THICK



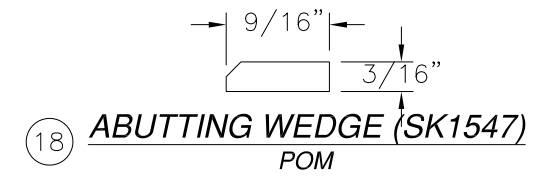
⑪ **BOTTOM TRACK (SK1010)**  
ALUMINUM 6060-T64 .062 THICK



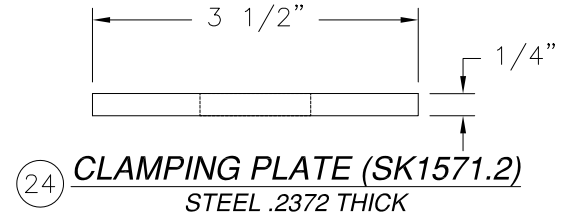
⑰ **STEEL INLAY (SK1214.1)**  
STEEL .1965 THICK



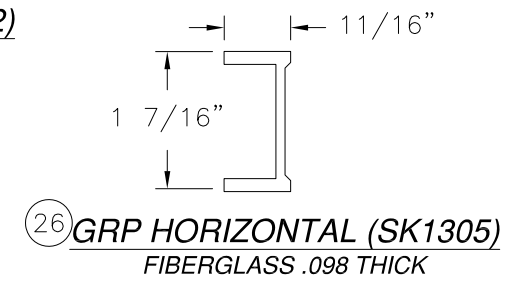
⑳ **BASE PLATE (SK1380)**  
ALUMINUM 6060-T64 .4375 THICK



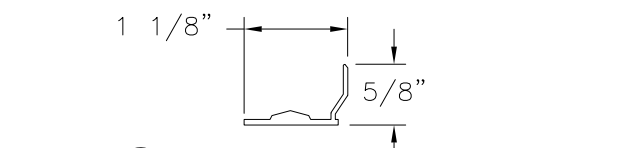
⑱ **ABUTTING WEDGE (SK1547)**  
POM



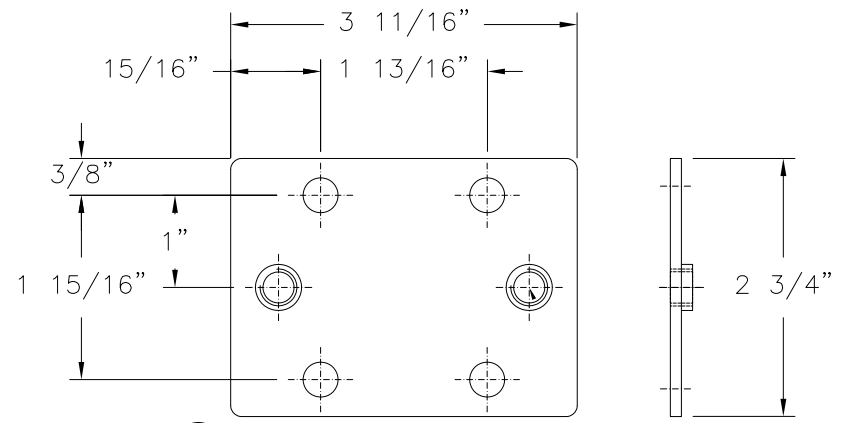
㉔ **CLAMPING PLATE (SK1571.2)**  
STEEL .2372 THICK



㉖ **GRP HORIZONTAL (SK1305)**  
FIBERGLASS .098 THICK



㉗ **TRACK (SK1203.3)**  
ALUMINUM 6060-T6 AND STEEL 1.4310 .050 THICK



㉕ **BASE PLATE (SK1571.1)**  
STEEL .0984 THICK

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW REQUIREMENTS	03/06/19	R.L.

SKY-FRAME INC.  
LANGFELDSTRASSE 111  
FRAUENFELD, SWITZERLAND CH-8500

SERIES SKY-FRAME 2  
ALUMINUM SGD - IMPACT  
COMPONENTS

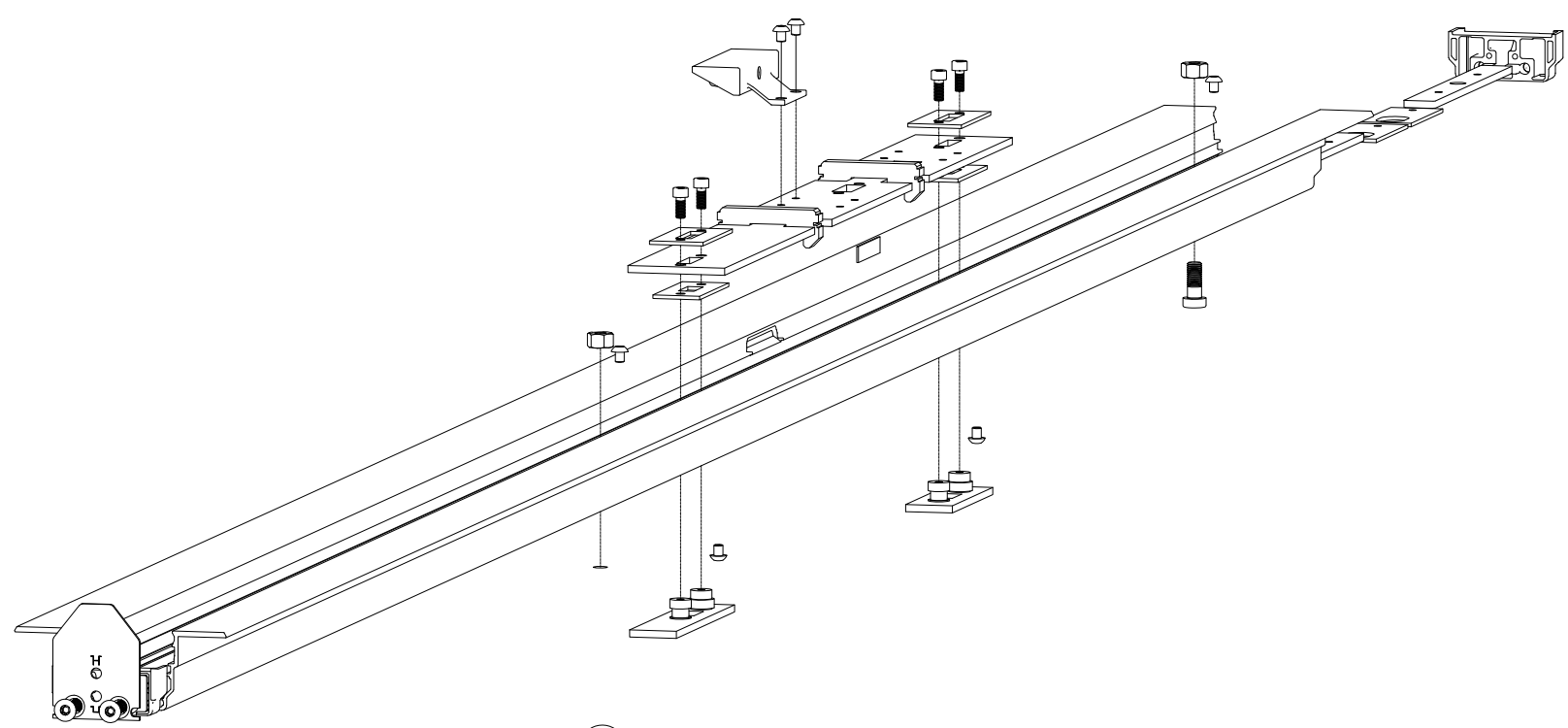
DRAWN: N.G.	DWG NO. 08-02682	REV A
SCALE NTS	DATE 08/24/15	SHEET 9 OF 10

L. ROBERTO LOMAS P.E.  
1432 WOODFORD RD LEWISVILLE, NC 27023  
434-688-0609 rllomas@rlomaspe.com

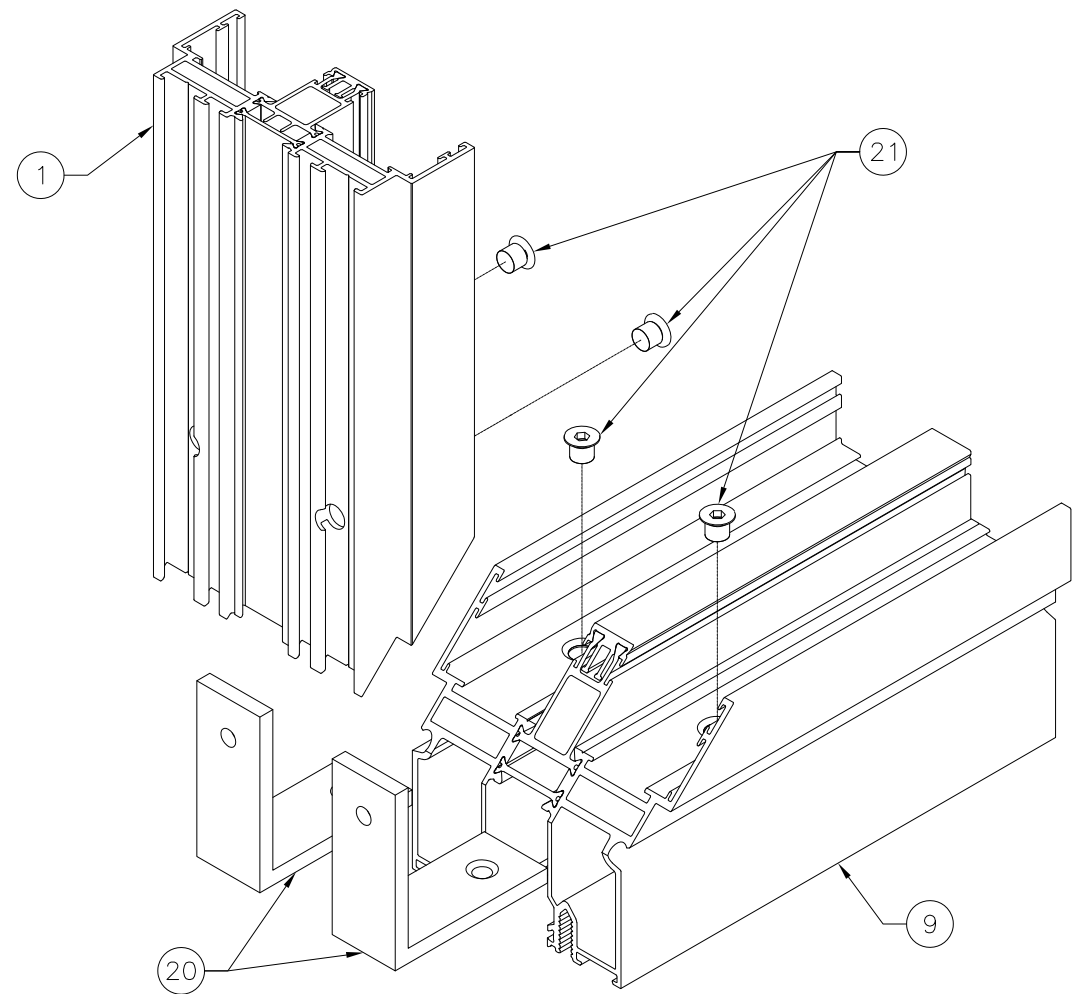
SIGNED: 03/14/2019

Luis R. Lomas P.E.  
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW REQUIREMENTS	03/06/19	R.L.



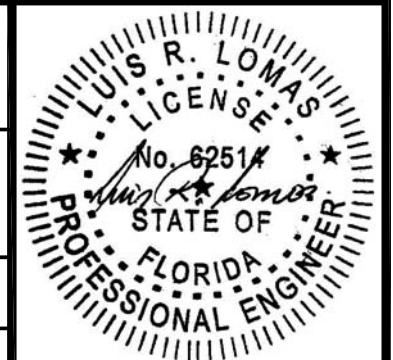
4 **LOCKING PROFILE**  
LOCK HARDWARE MODEL  
SF2 RV



**CORNER JOINT**  
ALUMINUM 6063-T6 .098 THICK

SIGNED: 03/14/2019

<b>SKY-FRAME INC.</b> LANGFELDSTRASSE 111 FRAUENFELD, SWITZERLAND CH-8500		
SERIES SKY-FRAME 2 ALUMINUM SGD - IMPACT COMPONENTS		
DRAWN: N.G.	DWG NO. 08-02682	REV A
SCALE NTS	DATE 08/24/15	SHEET 10 OF 10
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@rlomaspe.com		



Luis R. Lomas P.E.  
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