SL-16, 17, 19-1, & 20 SERIES / ALUM. HYBRID IN-SWING/ OUT-SWING DOORS

SPECIAL-LITE INC

LARGE & SMALL MISSILE IMPACT RATED

FOR USE OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ)

THIS IS A NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.

FRANK BENNARDO, PE
PE# 0046549 CA# 9885

FRANK L. BENNARDO LICENSE No 0046549 STATE OF FLORIDA PROFESSIONAL ENGINEER

OCTOBER 28, 2026

Digitally signed by Frank Bennardo
Date: 2026.10.29 17:08:38 -04'00'

GENERAL NOTES

1. THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR.

2. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.

3. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.

4. REFER TO FASTENER MANUFACTURER'S PUBLISHED DATA SHEETS AND RECOMMENDATIONS FOR FASTENER INSTALLATION INSTRUCTIONS.

5. ENGINEER SEAL AFFIXED HERETO VALIDATE STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, ET. AL. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.

6. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

7. PRESSURE VALUES IN THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES U.N.O.

8. ALTERATIONS, ADDITIONS OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.

9. PRODUCTS SHALL BE LABELED IN ACCORDANCE WITH THE FLORIDA BUILDING COMMISSION AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATION AS IS APPLICABLE. (SEE FBC SECTION 1709 FOR REQUIREMENTS).

10. FOR PERMANENT OUTDOOR INSTALLATIONS, ALL EXPOSED ANCHORS, FASTENERS, CONNECTORS, AND METAL PLATES SHALL BE CORROSION RESISTANT. CORROSION RESISTANCE MAY BE PROVIDED BY INHERENT MATERIAL COMPOSITION OR, WHERE PERMITTED BY CODE, BY AN APPROVED PROTECTIVE COATING OR GALVANIZATION. WHERE APPLICABLE NEAR A SALTWATER COASTLINE, SUCH COMPONENTS SHALL COMPLY WITH FBC SECTION 1711, INCLUDING APPLICABLE REQUIREMENTS FOR EXPOSED, PROTECTED, OR ENCLOSED CONDITIONS. MATERIALS, COATINGS, AND FINISHES SHALL BE COMPATIBLE WITH CONNECTED MATERIALS, AND PROTECTIVE COATINGS SHALL BE CONTINUOUS OVER EXPOSED SURFACES. FASTENERS USED WITH ALUMINUM MEMBERS SHALL ALSO COMPLY WITH SECTION J.3.7.2 OF THE ALUMINUM DESIGN MANUAL, "SPECIFICATION FOR ALUMINUM STRUCTURES." SUBSTITUTION OF COMPONENTS FROM ALTERNATE MANUFACTURERS, OR WITH DIFFERENT MATERIALS, COATINGS, OR FINISHES, SHALL NOT BE ASSUMED EQUIVALENT AND MAY REQUIRE ADDITIONAL ENGINEERING REVIEW OR SITE-SPECIFIC ANALYSIS.

11. THE DOOR ASSEMBLIES COVERED BY THIS APPROVAL HAVE BEEN DESIGNED AND TESTED TO COMPLY WITH THE FLORIDA BUILDING CODE 9TH EDITION FOR USE OUTSIDE THE HIGH-VELOCITY HURRICANE ZONE (HVHZ).

12. THE APPROVED DOOR ASSEMBLIES ARE RATED FOR LARGE AND SMALL MISSILE IMPACT AND DO NOT REQUIRE SEPARATE IMPACT-PROTECTIVE SHUTTERS.

13. INSTALL ANCHORS AT THE LOCATIONS AND MAXIMUM SPACINGS INDICATED ON SHEET 2. REFER TO SHEET 9 FOR ANCHOR OPTIONS, MINIMUM EMBEDMENT, EDGE DISTANCES, SUBSTRATE REQUIREMENTS, AND MAXIMUM SHIM THICKNESS. REQUIRED EMBEDMENT SHALL EXTEND INTO THE STRUCTURAL SUBSTRATE AND SHALL EXCLUDE STUCCO AND OTHER NONSTRUCTURAL FINISHES.

14. ANCHORING ARRANGEMENTS AND LOADING CONDITIONS NOT SHOWN IN THESE DRAWINGS ARE OUTSIDE THE SCOPE OF THIS APPROVAL.

15. COMPLIANCE WITH APPLICABLE EGRESS REQUIREMENTS SHALL BE REVIEWED BY THE BUILDING OFFICIAL.

16. THE DOOR ASSEMBLIES ARE NOT RATED FOR WATER INFILTRATION RESISTANCE. INSTALLATION WHERE WATER INFILTRATION RESISTANCE IS REQUIRED IS EXCLUDED, EXCEPT IN NON-HABITABLE AREAS WHERE BOTH THE UNIT AND THE ROOM ARE DESIGNED TO ACCEPT WATER INFILTRATION. ALL UNITS SHALL BE INSTALLED AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG WITH THE GEOMETRY INDICATED ON THIS SHEET.

17. SUPPORTING METAL STRUCTURES PROVIDED BY OTHERS SHALL RESIST THE LOADS IMPOSED BY THE DOOR ASSEMBLY AND TRANSFER THOSE LOADS TO THE BUILDING STRUCTURE.

18. THE LOAD DURATION FACTOR USED IN THE ALLOWABLE-STRESS DESIGN OF ANCHORS APPLIES TO WOOD SUBSTRATES ONLY.

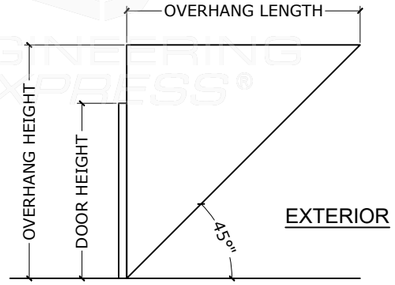
19. APPROVED DOOR FACE SHEET OPTIONS ARE AS FOLLOWS:
A. 0.120-IN. THICK PEBBLE-GRAIN FRP.
B. 0.120-IN. THICK SANDSTONE-TEXTURE FRP.
C. 0.120-IN. THICK CONTEMPORARY WOOD-GRAIN FRP.
D. 0.0625-IN. THICK ALUMINUM WITH A SMOOTH, EMBOSSED, OR FLUTED TEXTURE.
E. 0.125-IN. THICK ALUMINUM WITH A SMOOTH TEXTURE.

20. REFER TO SHEETS 5 AND 6 FOR DOOR FRAME CORNER JOINT CONFIGURATIONS.

21. REQUIRED HARDWARE SHALL INCLUDE THE FOLLOWING:
A. DORMAKABA ORACODE 660 MORTISE LOCK, OR AN EQUIVALENT COMPONENT SUBJECT TO THE REVIEW REQUIREMENTS OF GENERAL NOTE 10.
B. SELECT PRODUCTS SL-11HD CONTINUOUS HINGE.
C. NGP 200NA ANODIZED ALUMINUM/NEOPRENE DOOR SWEEP, OR AN EQUIVALENT COMPONENT SUBJECT TO THE REVIEW REQUIREMENTS OF GENERAL NOTE 10.

22. APPROVED GLAZING OPTIONS SHALL CONSIST OF THE FOLLOWING OLDCASTLE STORMGLASS ASSEMBLIES:
A. NOMINAL 1-IN. ASSEMBLY: 1/8-IN. CLEAR GLASS, 0.075-IN. STORMGLASS INTERLAYER, 1/8-IN. PPG SOLARBAN 60 ON CLEAR GLASS WITH LOW-E COATING ON SURFACE NO. 4, 13/32-IN. AIR SPACE, AND 1/4-IN. CLEAR GLASS.
B. NOMINAL 5/16-IN. ASSEMBLY: 1/8-IN. CLEAR GLASS, 0.075-IN. STORMGLASS INTERLAYER, AND 1/8-IN. CLEAR GLASS.
REFER TO DETAILS 7 AND 8 ON SHEET 6 AND THE BILL OF MATERIALS FOR THE CORRESPONDING GLAZING COMPONENTS.

23. ULTIMATE WIND DESIGN PRESSURES DETERMINED IN ACCORDANCE WITH ASCE 7-22, MULTIPLIED BY 0.6, SHALL NOT EXCEED THE CORRESPONDING ALLOWABLE DESIGN PRESSURES FOR THE APPLICABLE DOOR CONFIGURATION.



OH RATIO = $\frac{\text{OVERHANG LENGTH}}{\text{OVERHANG HEIGHT}} \geq 1$

MAX. DESIGN PRESSURES (ASD):
+90.0/-90.0

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TERMINOLOGY:

THE FOLLOWING ABBREVIATIONS MAY APPEAR IN THIS APPROVAL:

THE FOLLOWING ABBREVIATIONS APPEAR IN THIS APPROVAL: "FBC" FOR "FLORIDA BUILDING CODE", "CORP." FOR "CORPORATION", "ALUM" FOR "ALUMINUM, "ASD" FOR "ALLOWABLE STRESS DESIGN", "ASTM" FOR "AMERICAN SOCIETY FOR TESTING AND MATERIALS", "CONN" FOR "CONNECTION", "EMBED" FOR "EMBEDMENT", "DIST." FOR "DISTANCE", "GA" FOR "GAUGE", "HVHZ" FOR "HIGH-VELOCITY HURRICANE ZONE", "LB" FOR "POUND", "MAX" FOR "MAXIMUM, "N.T.S." FOR "NOT TO SCALE", "PSF" FOR "POUNDS PER SQUARE FOOT (lb/ft²)", "KSI" FOR "KILOPOUNDS PER SQUARE INCH (klb/in²), "SPECS" FOR "SPECIFICATIONS", "&" FOR "AND", "MAX" FOR "MAXIMUM", "W/" FOR "WITH", "EXIST." FOR "EXISTING, "STRUCT." FOR "STRUCTURE", "SHT" FOR "SHEET", "REF" FOR "REFERENCE", "D.L.O" FOR "DAYLIGHT OPENING". CONTACT ENGINEERING EXPRESS FOR ADDITIONAL ABBREVIATION/TERMINOLOGY CLARIFICATIONS.

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ABBREVIATIONS AND SYMBOLS
D.L.O. - DAYLIGHT OPENING
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
W/ - WITH
W/O - WITHOUT
O.C. - ON CENTER
MAX. - MAXIMUM

X — SECTION NUMBER
XX — SHEET NUMBER

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FLORIDA BUILDING CODE NINTH EDITION (2026)
FLORIDA STATEWIDE APPROVAL (FSA FL#27723.1)

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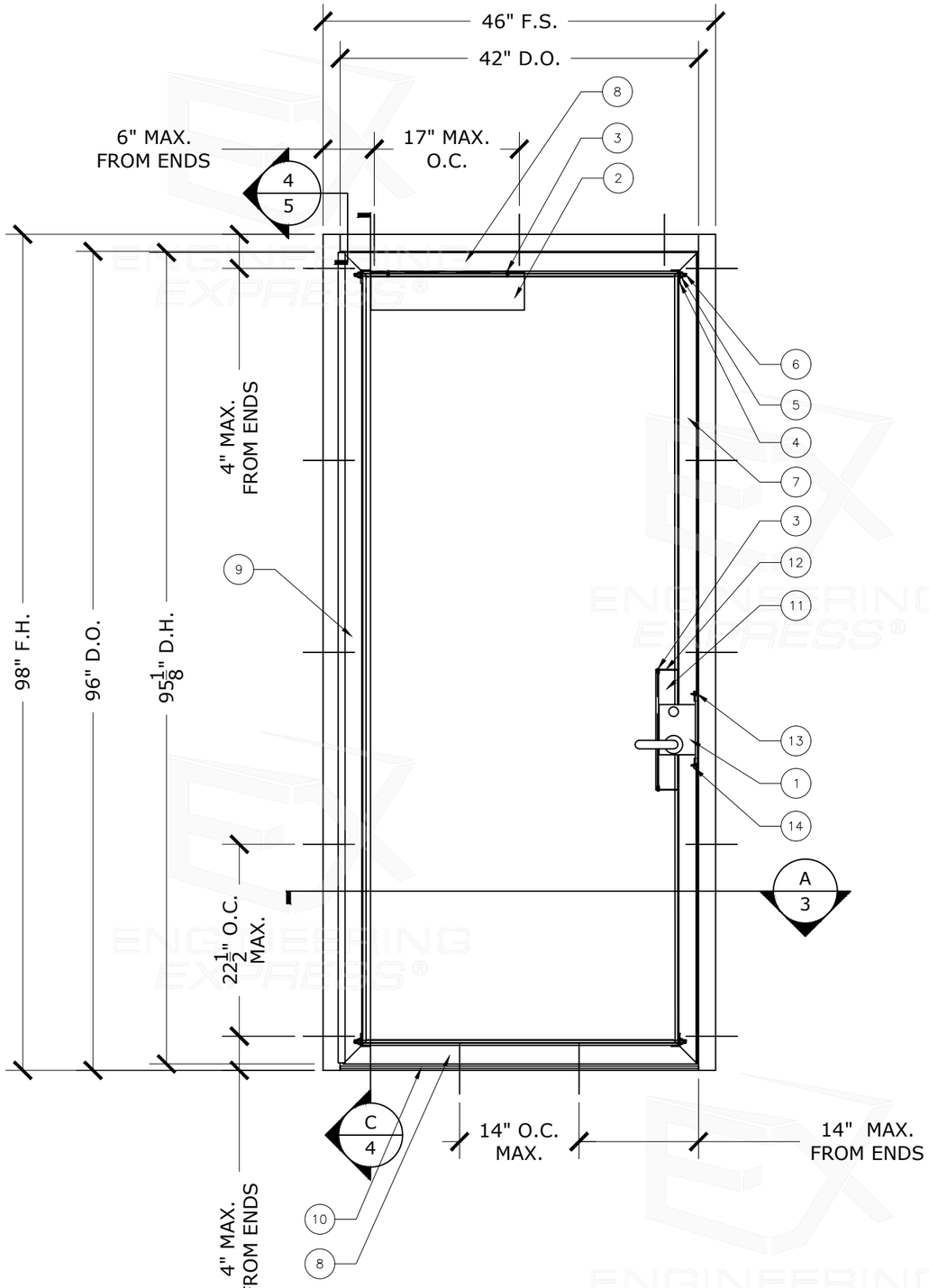
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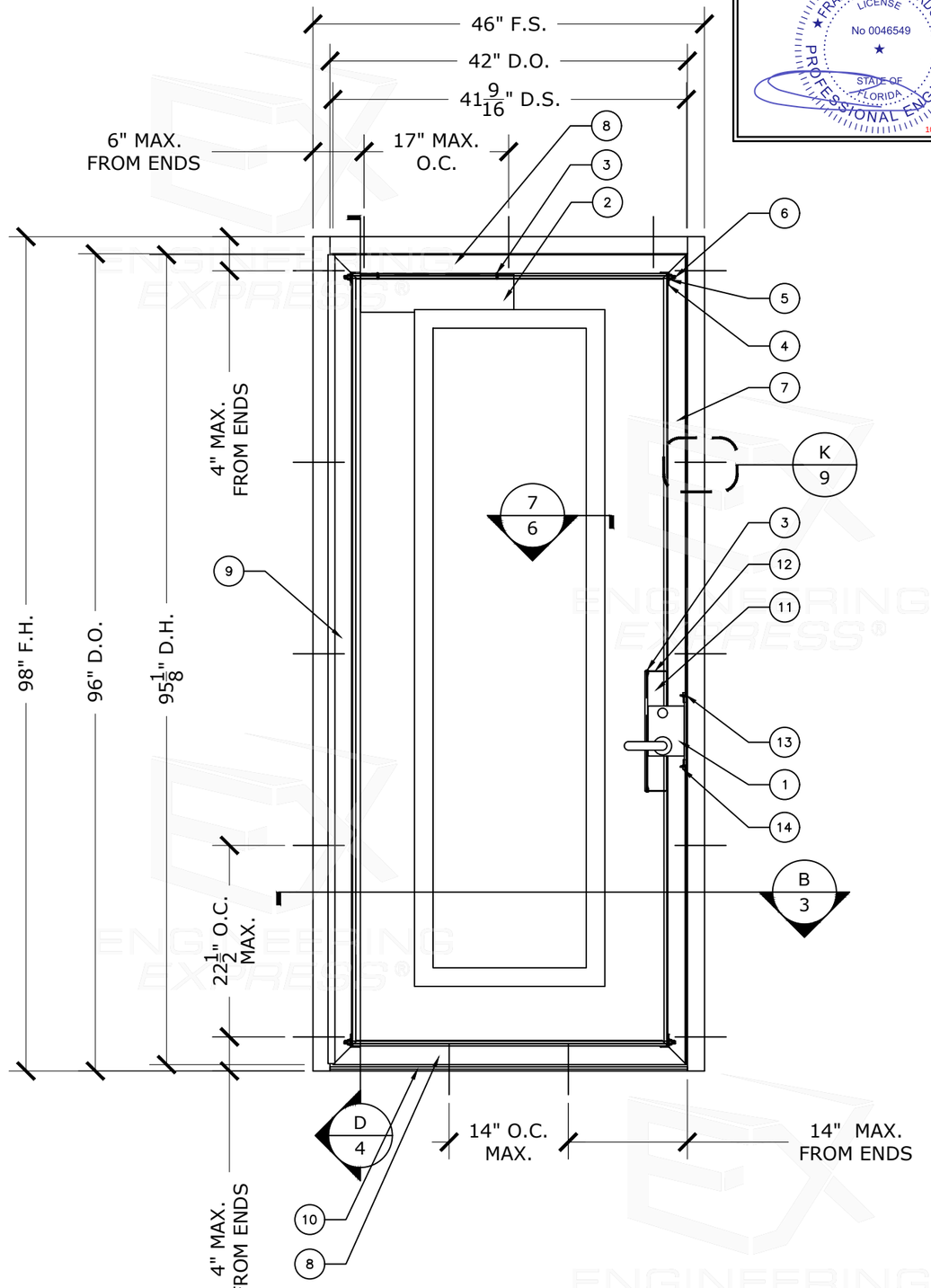
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ELEVATION VIEWS





FRANK BENNARDO, PE
PE# 0046549 CA# 9885

FRANK L. BENNARDO LICENSE No 0046549 STATE OF FLORIDA PROFESSIONAL ENGINEER
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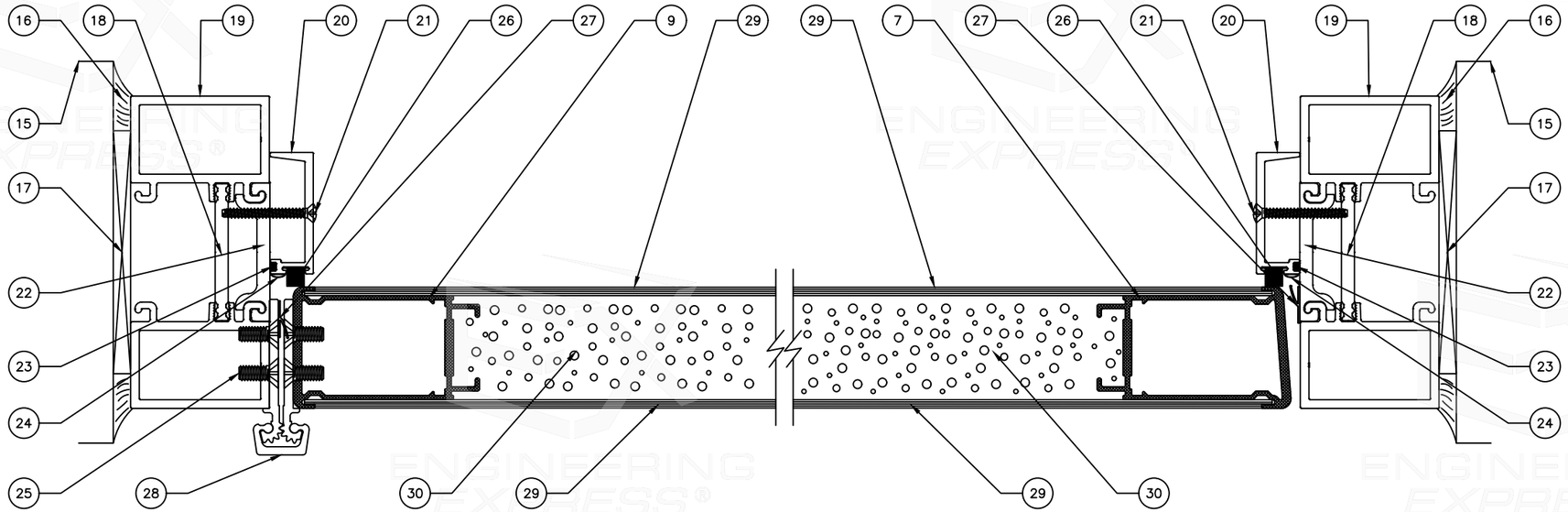
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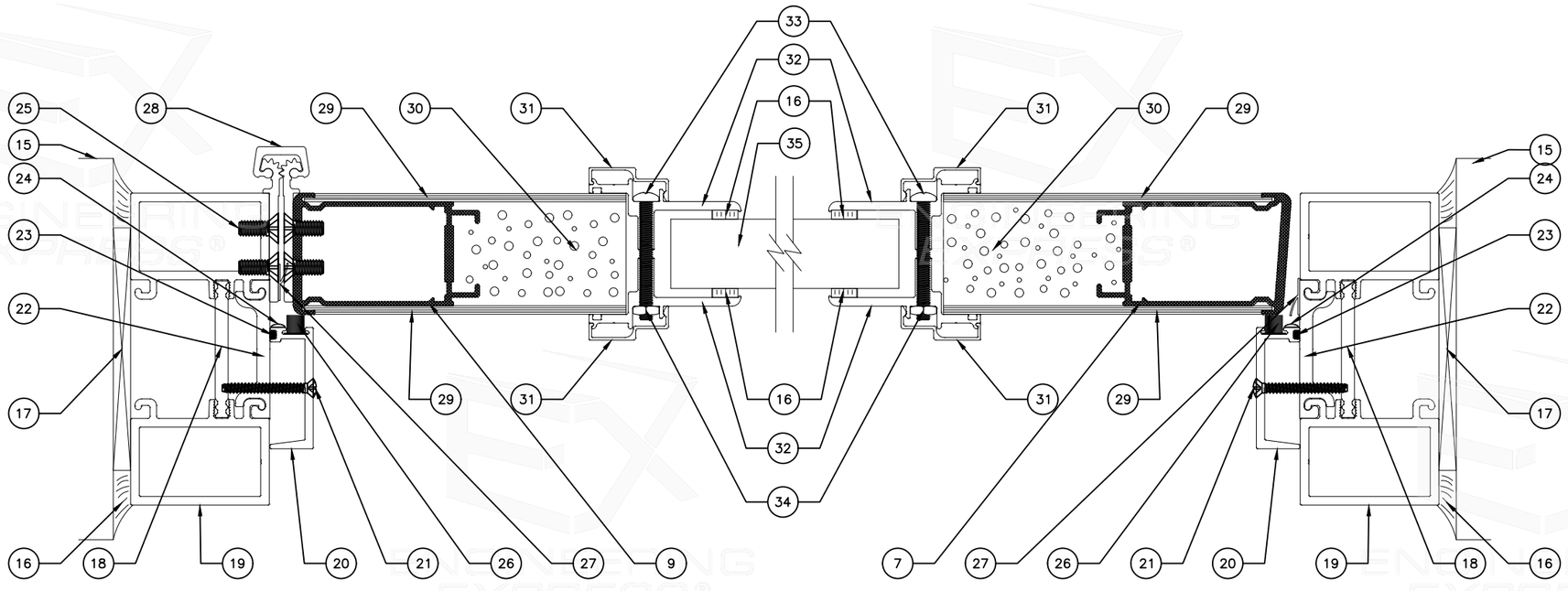
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HORIZONTAL SECTION VIEWS



A TYP. OUTSWING PLAN VIEW WITHOUT GLAZING
NOT TO SCALE



B TYP. INSWING PLAN VIEW WITH GLAZING
NOT TO SCALE

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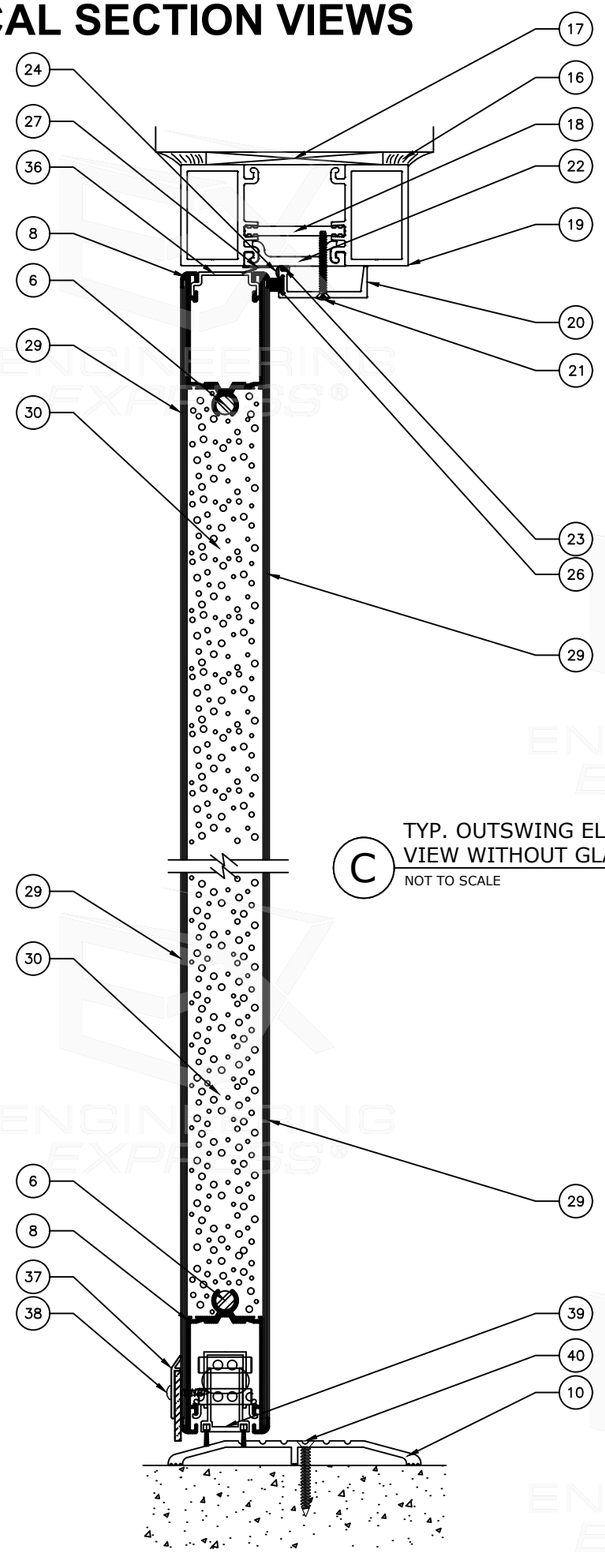
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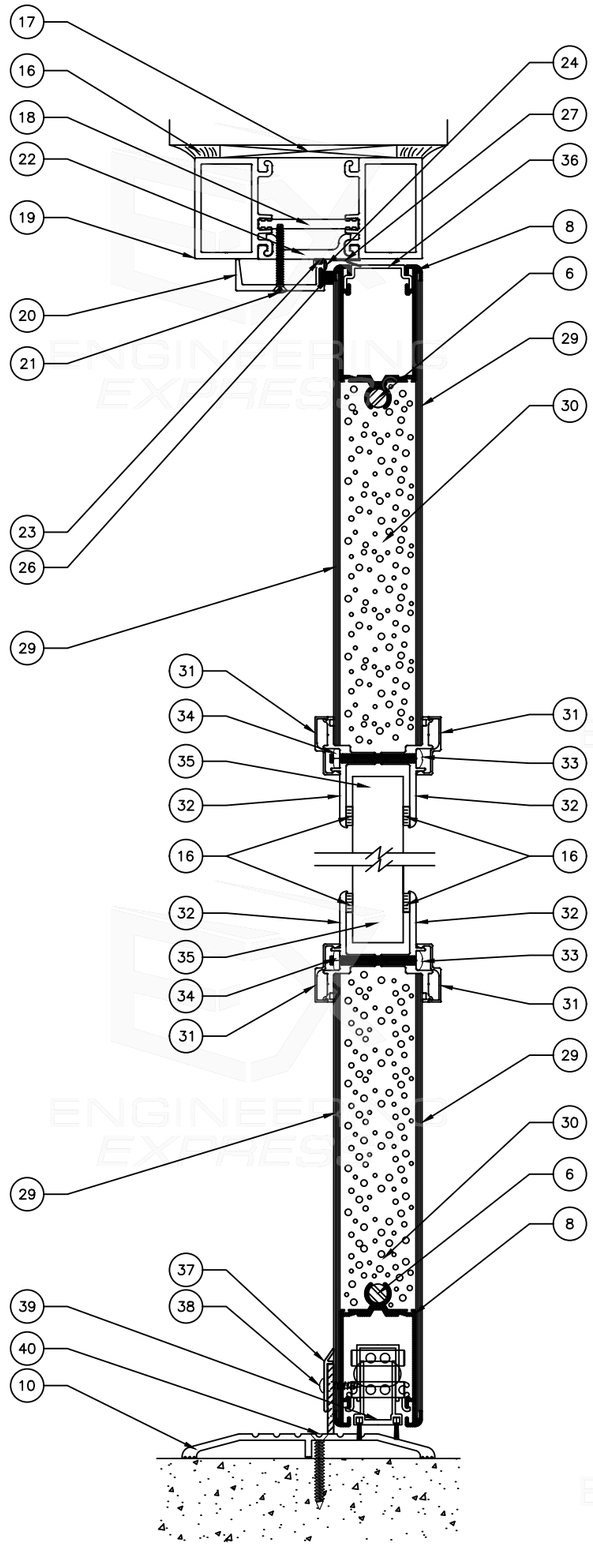
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VERTICAL SECTION VIEWS



C TYP. OUTSWING ELEVATION VIEW WITHOUT GLAZING
NOT TO SCALE



D TYP. INSWING ELEVATION VIEW WITH GLAZING
NOT TO SCALE

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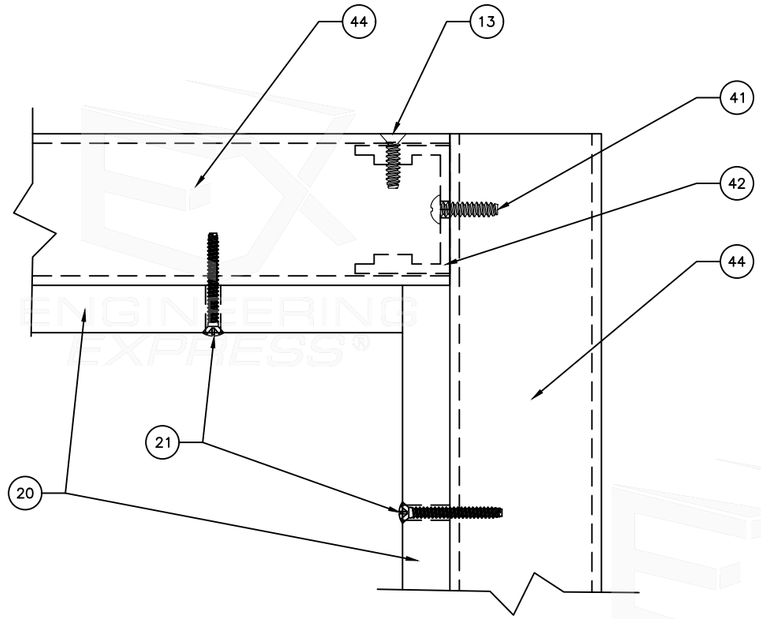
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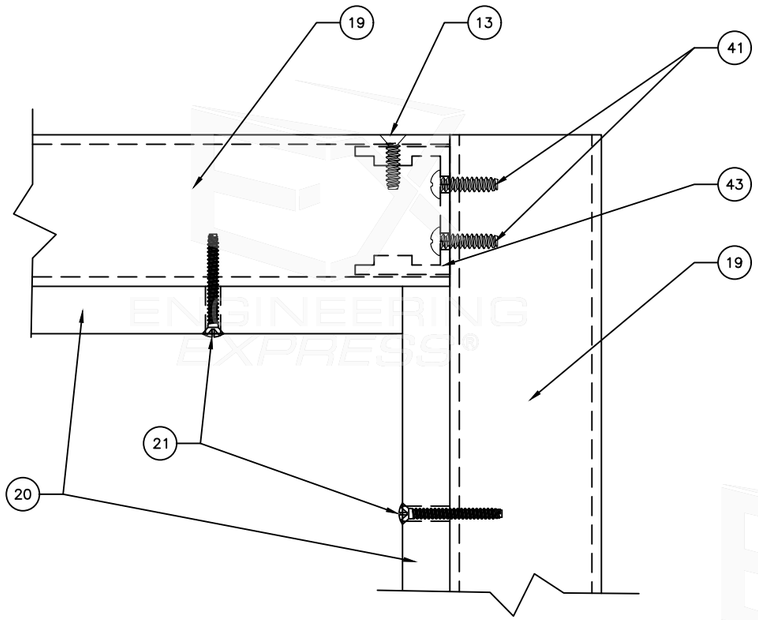
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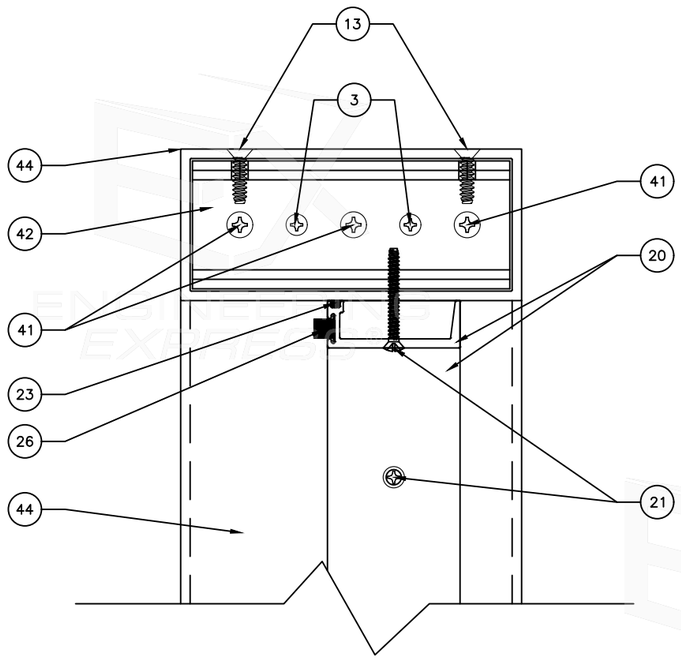
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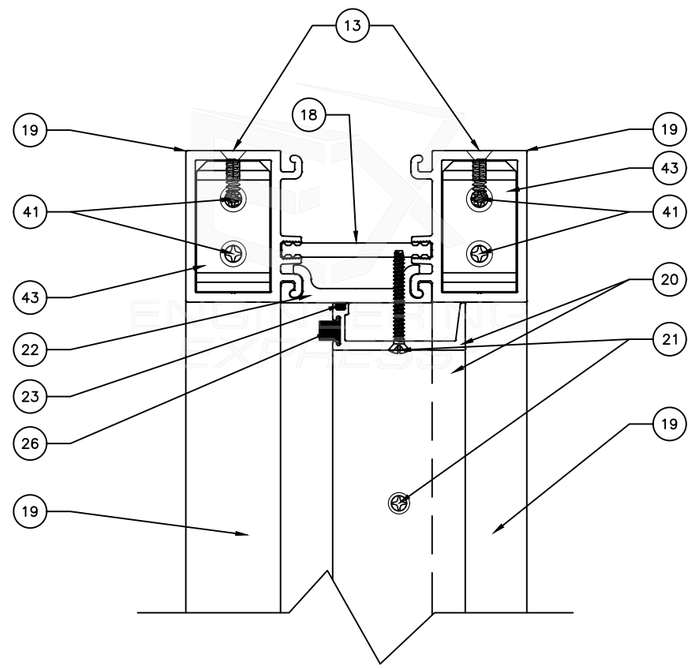
1 SL-245 CORNER JOINT
NOT TO SCALE



3 SL-450TB CORNER JOINT
NOT TO SCALE



2 SL-245 CORNER JOINT
NOT TO SCALE



4 SL-450TB CORNER JOINT
NOT TO SCALE

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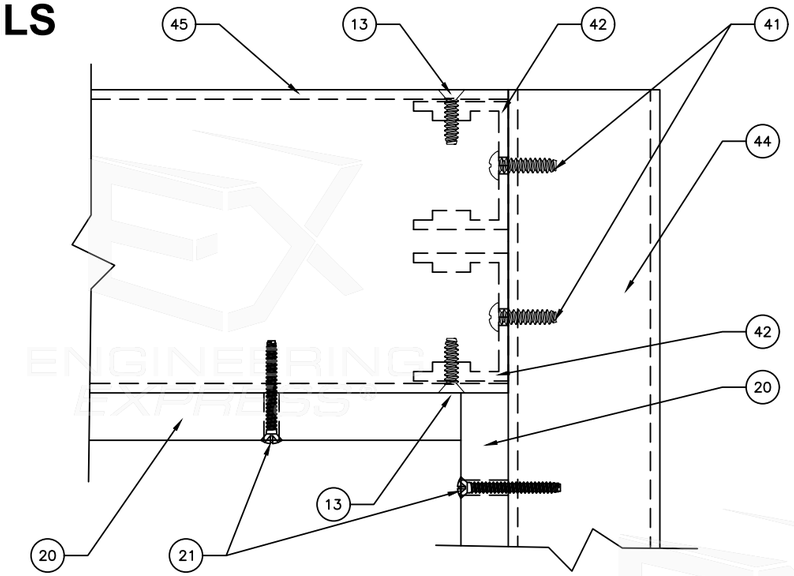
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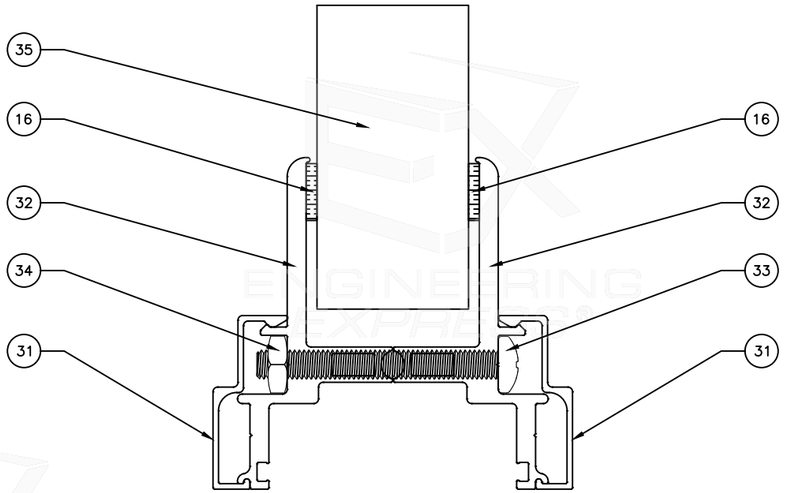
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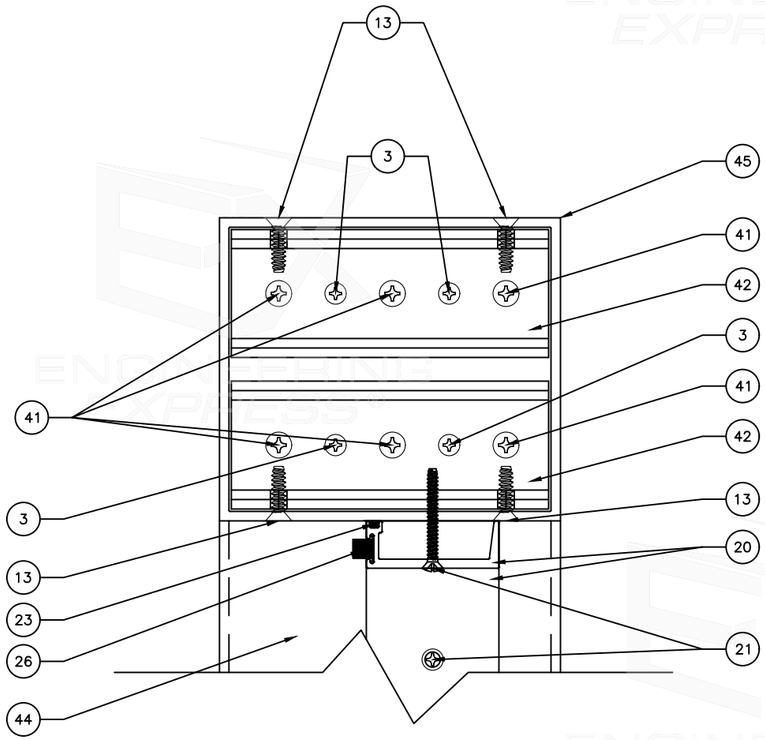
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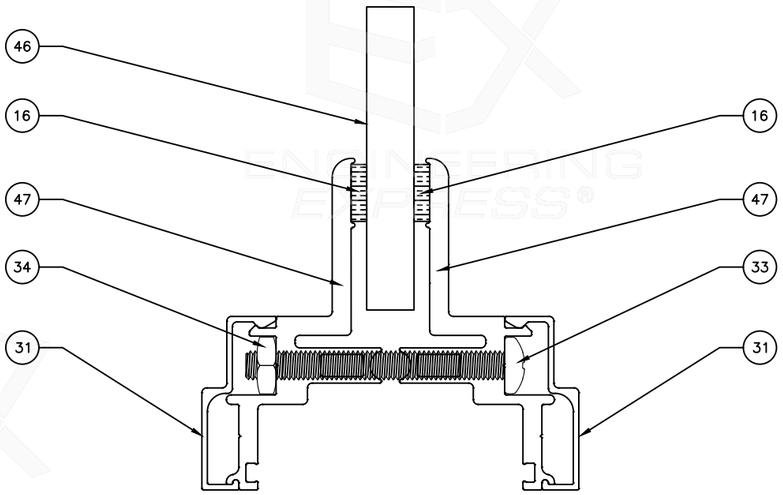
5 SL-245 W/ 4" HEAD CORNER JOINT
NOT TO SCALE



7 TYP. 1" GLAZING INSTALLATION
NOT TO SCALE



6 SL-245 W/ 4" HEAD CORNER JOINT
NOT TO SCALE



8 TYP. 5/16" GLAZING INSTALLATION
NOT TO SCALE

FRANK BENNARDO, PE
PE# 0046549 CA# 9885

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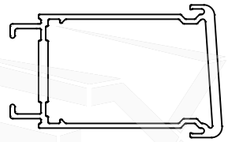
EXTRUSIONS



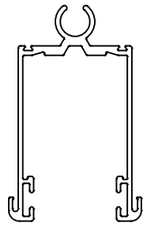
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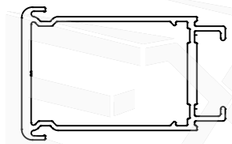
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7 70-9A
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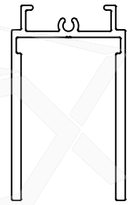
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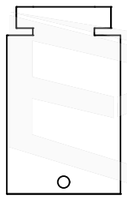
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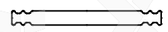
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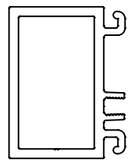
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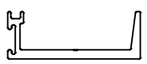
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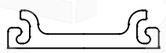
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19 TB-454
NOT TO SCALE



20 DS-33
NOT TO SCALE



22 AF-800-031
NOT TO SCALE



23 SL-V-01
NOT TO SCALE



24 X1153HTSINGLE
NOT TO SCALE

FRANK BENNARDO, PE
PE# 0046549 CA# 9885

FRANK L. BENNARDO LICENSE No 0046549 STATE OF FLORIDA PROFESSIONAL ENGINEER
SIGNED: 10/28/2026

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EXTRUSIONS



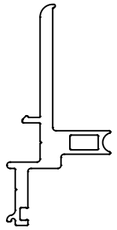
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27 5060B
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31 70-800
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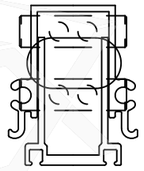
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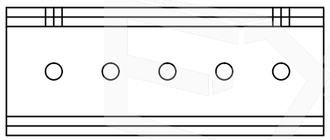
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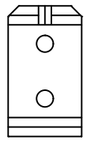
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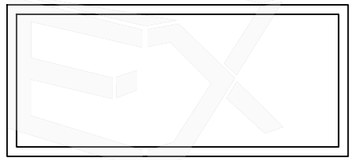
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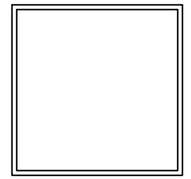
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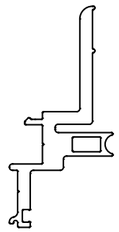
43 PT-12-2000
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44 T-8
NOT TO SCALE



45 T-9
NOT TO SCALE



47 70-802
NOT TO SCALE

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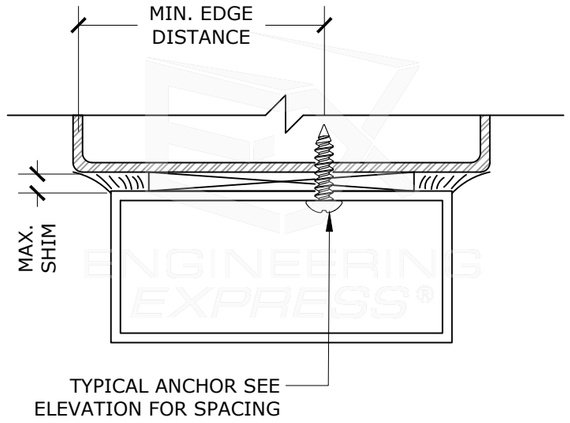
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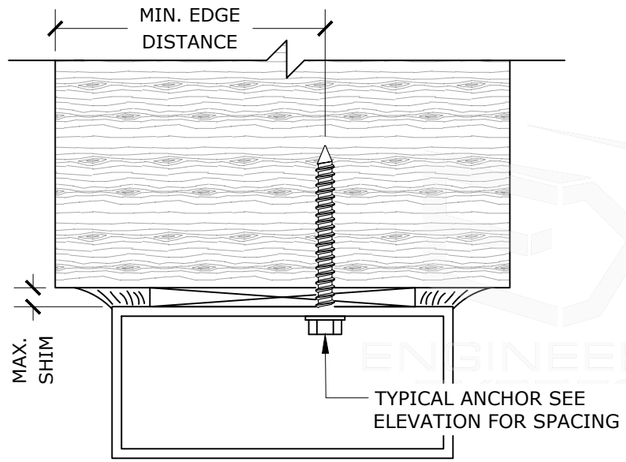
ALTERNATIVE ANCHORAGE DETAILS



#14 SMS OR TEKS SELF DRILLING SCREW (GRADE 5)

- STEEL $\frac{1}{8}$" MIN. THICKNESS, A36 MIN. (HEAD/JAMB)
- ALUMINUM $\frac{1}{4}$" MIN. THICKNESS, 6063-T5 MIN. (HEAD/JAMB)
- MIN. EDGE DISTANCE $\frac{3}{4}$"
- $\frac{1}{2}$" MAX SHIM

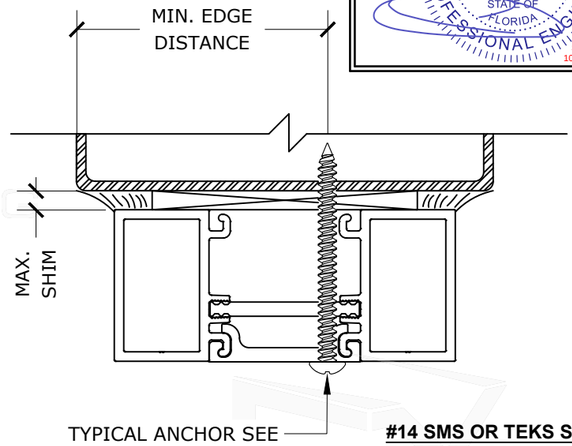
K



$\frac{1}{4}$" DIA. ELCO ULTRACON (Fu = 177 KSI, Fy = 155 KSI)

- CONCRETE: f'c = 3 KSI MIN. (HEAD/SILL OR JAMB)
- MASONRY: f'm = 2 KSI MIN. (JAMB ONLY)
- WOOD: SG = 0.55 MIN. (HEAD/JAMB)
- MIN. EMBEDMENT 1-1/2"
- MIN. EDGE DISTANCE 1" WOOD, 2-1/2" CONCRETE OR MASONRY
- $\frac{1}{2}$" MAX SHIM

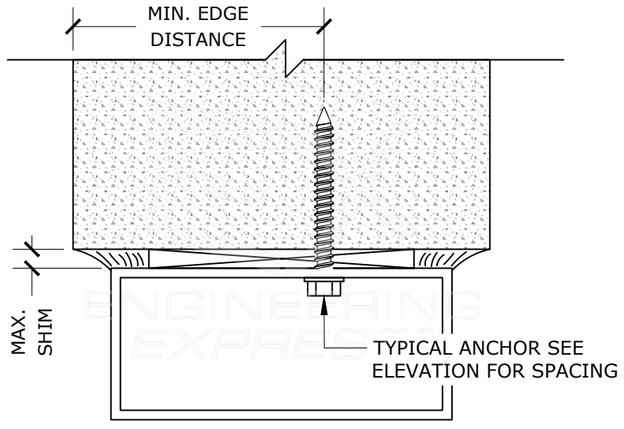
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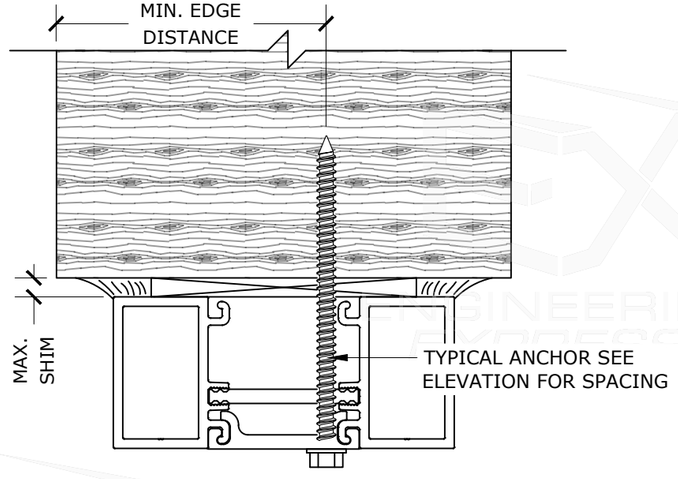
K



$\frac{1}{4}$" DIA. ITW TAPCON (Fu = 120 KSI, Fy = 92 KSI)

- CONCRETE: f'c = 3 KSI MIN. (HEAD/SILL OR JAMB)
- MASONRY: f'm = 2 KSI MIN. (JAMB ONLY)
- WOOD: SG = 0.55 MIN. (HEAD/JAMB)
- MIN. EMBEDMENT 1-1/2"
- MIN. EDGE DISTANCE 1" WOOD, 2-1/2" CONCRETE OR MASONRY
- $\frac{1}{2}$" MAX SHIM

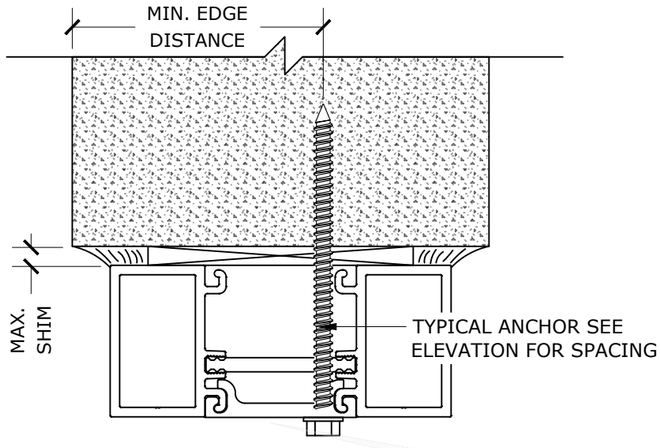
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FRANK BENNARDO, PE
PE# 0046549 CA# 9885

FRANK L. BENNARDO LICENSE No 0046549 STATE OF FLORIDA PROFESSIONAL ENGINEER
SIGNED: 10/28/2026

OCTOBER 28, 2026

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BILL OF MATERIALS

BILL OF MATERIALS					
ITEM	PART #	MATERIAL	QTY.	DESCRIPTION	MANUFACTURER
1	660102KL10-U26H	N/A	1	ORACODE 660 AMERICAN STANDARD 1" MORTISE LOCK	DORMA KABA
2	PT-07-0306	6063-T5	2	PA. CLOSER REINFORCEMENT	SPECIAL-LITE
3	SC-12	410SS	AS REQUIRED	8-15 X $\frac{5}{8}$" PHSMS	SPECIAL-LITE
4	PT-07-0342	6063-T5	4	FLUSH DOOR TIE ROD CLIP	SPECIAL-LITE
5	SC-103	STEEL	4	$\frac{3}{8}$"-16 HEX SERRATED FLANGE NUT $\frac{3}{4}$" O.D.	SPECIAL-LITE
6	N/A	STEEL	2	$\frac{3}{8}$"-16 STEEL TIE ROD	SPECIAL-LITE
7	70-9A	6063-T5	1	BEVEL STILE	SPECIAL-LITE
8	70-2A	6063-T6	2	TOP & BOTTOM RAIL	SPECIAL-LITE
9	70-1A	6063-T6	1	SQUARE EDGE STILE	SPECIAL-LITE
10	THRS-2	6063-T5	1	FLAT THRESHOLD $\frac{1}{2}$" X 5"	SPECIAL-LITE
11	PT-07-0317	6063-T5	1	LOCK REINFORCEMENT	SPECIAL-LITE
12	PT-07-0300	6061	2	RETAINER CLIP AND PLUG FOR LOCK REINFORCEMENT	SPECIAL-LITE
13	SC-23	410SS	AS REQUIRED	10-16 X $\frac{3}{4}$" PHILLIPS U/C FLAT HEAD THREAD FORMING SCREW	SPECIAL-LITE
14	PT-00-0514	6061	2	KNOB AND MORTISE LOCK REINFORCING CLIP FOR FLUSH, MONUMENTAL DOORS & FRAMES	SPECIAL-LITE
15	N/A	N/A	N/A	EXISTING BUILDING	BY OTHERS
16	DOW005	SILICONE	AS REQUIRED	DOW CORNING STRUCTURAL SILICONE CAULK	DOW CORNING
17	N/A	WOOD	AS REQUIRED	WOOD SHIMS	BY OTHERS
18	AF-800-030	FIBERGLASS	AS REQUIRED	THERMAL BREAK	SPECIAL-LITE
19	TB-454	6063-T5	AS REQUIRED	TBF BASE 0.125"	SPECIAL-LITE
20	DS-33	6063-T5	AS REQUIRED	DOOR STOP W/ INTEGRAL SEAL $\frac{5}{8}$" X 1-3/4"	SPECIAL-LITE
21	SC-17	410SS	AS REQUIRED	8-18 X 1-1/4" PHILLIPS #6 TRIM OVAL HEAD THREAD FORMING SCREW	SPECIAL-LITE
22	AF-800-031	FIBERGLASS	AS REQUIRED	POCKET FILLER	SPECIAL-LITE
23	SL-V-01	EPDM	AS REQUIRED	0.132" DIAMETER CORD EPDM FIRM SEAL BEAD W/SLIP COATING	TOTAL PLASTICS
24	X1153HTSINGLE	EPDM	AS REQUIRED	D-SHAPED EPDM SPONGE RUBBER SEAL	TRIM-LOK
25	SC-26	410SS	AS REQUIRED	12-24 X $\frac{1}{2}$" PHILLIPS U/C FHMS	SPECIAL-LITE
26	350360GYDPS1	PILE	AS REQUIRED	WEATHER STRIPING PILE	AMESBURY GROUP
27	5060B	SILICONE	AS REQUIRED	POSITIVE PRESSURE SILICONE FIN SMOKE SEAL	NGP
28	SL-11HD	ALUMINUM	1	SELECT PRODUCTS CONTINUOUS HINGE	SELECT PRODUCTS
29	N/A	VARIES.	AS REQUIRED	DOOR FACE SHEET SEE PAGE 1 FOR OPTIONS	SPECIAL-LITE
30	N/A	POLYURETHANE	AS REQUIRED	POLYURETHANE FOAM	SPECIAL-LITE
31	70-800	6063-T5	AS REQUIRED	SECURELITE SNAP	SPECIAL-LITE
32	70-801	6063-T5	AS REQUIRED	SECURELITE 1" GLASS KIT W/ 1" BITE	SPECIAL-LITE
33	N/A	STEEL	AS REQUIRED	10-32 X 1-3/4" PHMS	SPECIAL-LITE
34	N/A	STEEL	AS REQUIRED	10-32 HEX NUT	SPECIAL-LITE
35	N/A	N/A	1	$\frac{1}{8}$" CLEAR X 0.075" STORMGLASS INTERLAYER X $\frac{1}{8}$" PPG SOLARBAN 60 ON CLEAR LOW-E #4 X $\frac{13}{32}$" AIR SPACE X $\frac{1}{4}$" CLEAR	OLDCASTLE BUILDING ENVELOPE
36	70-53	6063-T5	1	COVER CAP	SPECIAL-LITE
37	200NA	VARIES	1	ANODIZED ALUMINUM NEOPRENE DOOR SWEEP	NGP
38	N/A	SS	AS REQUIRED	#6 X $\frac{3}{4}$" PHSMS	NGP
39	SL-301	VARIES	1	ADJUSTABLE BOTTOM BRUSH	SPECIAL-LITE

BILL OF MATERIALS					
ITEM	PART #	MATERIAL	QTY.	DESCRIPTION	MANUFACTURER
40	SC-109	410SS	AS REQUIRED	12-11 X 1-1/2" PFHWS	SPECIAL-LITE
41	SC-25	410SS	AS REQUIRED	10-16 X $\frac{3}{4}$" PHILLIPS TRUSS HEAD SCREW	SPECIAL-LITE
42	PT-12-0131	6063-T5	2	FRAME ANCHOR FOR 2" X 4-1/2" TUBE FRAME	SPECIAL-LITE
43	PT-12-2000	6063-T5	4	FRAME ANCHOR FOR 2" X 4-1/2" TB FRAME	SPECIAL-LITE
44	T-8	6063-T5	3	TUBE FRAME 2" X 4-1/2"	SPECIAL-LITE
45	T-9	6063-T5	1	TUBE FRAME 4-1/2" X 4-1/2"	SPECIAL-LITE
46	N/A	N/A	N/A	$\frac{1}{8}$" CLEAR X 0.075" STORMGLASS INTERLAYER X $\frac{1}{8}$" CLEAR	OLDCASTLE BUILDING ENVELOPE
47	70-802	6063-T5	AS REQUIRED	SECURELITE $\frac{1}{4}$" GLASS KIT W/ 1" BITE	SPECIAL-LITE

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