MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
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www.miamidade.gov/economy

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

PGT Industries, Inc.
1070 Technology Drive
North Venice, FL 34275

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series **"FD-101"** Aluminum Outswing French Doors w/wo Sidelites– **L.M.I.**

APPROVAL DOCUMENT: Drawing No. **11005-1 Rev H**, titled "Alum. French Door & Sidelites, Impact", sheets 1 through 15 of 15, dated 04/04/2012 and last revised on 04/20/20, prepared by PGT Industries, signed and sealed by Anthony Lynn Miller, P. E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

Limitations:

1. Use of Tables **1** or **2** (sheet 2) requires full length reinforcements (item # 22) for OX, XO, XXO, OXX, OXO and OXXO configurations. The lower design pressure from table 1 or table 2 shall control.
2. Standalone X, XX and O configuration unit do not require, reinforcement (item #22).
3. Applicable Egress operable doors must comply with min clear width & height per FBC, to be reviewed by AHJ.
4. 1x or 2x buck to be properly secured to sustain imposed load and to be reviewed by AHJ.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA #22-0608.03** and consists of this page 1 and evidence pages E-1, E-2, E-3 & E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by **Sifang Zhao, P.E.**

S.Z.

08/17/2023

NOA No. 23-0724.02
Expiration Date: October 18, 2027
Approval Date: August 17, 2023

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous NOAs

A. DRAWINGS

1. Manufacturer's die drawings and sections (Submitted under files # listed below)
2. Drawing No. **11005-1 Rev F**, titled "Alum. French Door & Sidelites, Impact", sheets 1 through 10 of 10, dated 04/04/2012 and last revised on 09/08/16, prepared by PGT Industries, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

1. Test report on 1) Uniform Static Air Pressure Test, per FBC, TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

Along with marked-up drawings and installation diagram of Aluminum Sliding Glass Doors (w/ TPS, Super, Cardinal & Duraseal Spacers), prepared by Fenestration Testing Laboratory, Inc., Test Reports No(s) **FTL-8717, FTL-8970** and **FTL-8968**, dated 02/15/16, 06/07/16 and 06/20/16, all signed & sealed by Idalmis Ortega, P.E. (submitted under file **#16-0629.17**)

2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

Along with marked-up drawings and installation diagram of fixed sidelite (O) w/ insulated laminated glass, prepared by Fenestration Testing Laboratory, Inc., Test Reports No(s) **FTL–6864**, dated 04/02/12, signed and sealed by Marlin D. Brinson, P. E. (Submitted under files **#12-0516.02/#11-1013.22**)

3. Test report on 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC 2411.3.2.1, TAS 202-94

Along with marked-up drawings and installation diagram of Aluminum outswing doors w/sidelites, prepared by Fenestration Testing Laboratory, Inc., Test Reports No **FTL–5212**, dated 05/05/2007, signed and sealed by Carlos S. Rionda, P. E. (Submitted under files # **12-516.02/#11-1013.22**)

C. CALCULATIONS (Submitted under file **#15-0528.24**)

1. Anchor verification calculations and structural analysis dated 05/22/15, complying with FBC-214 (**5th** Edition), prepared by PGT, signed and sealed by Lynn Miller, P.E.
2. Glazing complies w/ ASTME-1300-02, 04 & -09

D. QUALITY ASSURANCE

1. Miami Dade Department of Regulatory and Economic Resources (RER).

Silang Zhao, P.E.
Product Control Examiner
NOA No. 23-0724.02
Expiration Date: October 18, 2027
Approval Date: August 17, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.10** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for "Kuraray **Butacite PVB Interlayer**", expiring on 12/11/16.
2. Notice of Acceptance No. **12-1231.10** issued to Eastman Chemical Company (MA) former Solutia Inc. for their "**Saflex Clear or colored interlayer**", expiring on 05/21/16.

F. STATEMENTS (Submitted under file **#15-0528.24**)

1. Statement letter of conformance to FBC 2014(5th edition) and letter of no financial interest, prepared by PGT, dated 05/22/15, signed and sealed by Lynn Miller, P.E.
2. Lab compliance as part of the above referenced test report.

G. OTHER

1. This NOA **revises** NOA **#15-0528.24**, expiring 10/18/17.
2. Test proposal # 16-0152 dated 03/09/16 approved by RER
3. Test proposals dated Jan 18, 2017 and 02/15/12 approved by Jaime D. Gascon, P.E.

2. Evidence submitted under previous NOAs

A. DRAWINGS

1. Drawing No. **11005-1 Rev G**, titled "Alum. French Door & Sidelites, Impact", sheets 1 through 15 of 15, dated 04/04/2012 and last revised on 09/17/17, prepared by PGT Industries, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

1. None.

C.

1. Anchor verification calculations and structural analysis dated 08/01/17, complying with FBC-2014 (**5th** Edition) & 2017(**6th** Edition), prepared by PGT, signed and sealed by Lynn Miller, P.E.
2. Glazing complies w/ ASTME-1300-02, 04 & -09.

D.

1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **16-1117.01** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for "**Trosifol**: Ultra clear, clear & color PVB glass interlayer" (former "Kuraray **Butacite** PVB Interlayer)", expiring on 07/08/19.
2. Notice of Acceptance No. **15-1201.11** issued to Eastman Chemical Company (MA) former Solutia Inc. for their "**Saflex Clear or colored interlayer**", expiring on 05/21/21.

F. STATEMENTS

1. Statement letter of conformance to FBC 2014(5th edition), FBC 2017(6th edition) and letter of no financial interest, prepared by PGT, dated 08/01/17, signed and sealed by Lynn Miller, P.E.

G. OTHER

1. This NOA **revises & renews** NOA **#16-0629.17**, expiring 10/18/22.

Silang Zhao, P.E.
Product Control Examiner
NOA No. 23-0724.02
Expiration Date: October 18, 2027
Approval Date: August 17, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence submitted under previous NOAs

A. DRAWINGS

1. Drawing No. **11005-1 Rev H**, titled "Alum. French Door & Sidelites, Impact", sheets 1 through 15 of 15, dated 04/04/2012 and last revised on 04/2020, prepared by PGT Industries, signed and sealed by Anthony Lynn Miller, P. E.

B. TESTS

1. Test report on 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per ASTM F588 and TAS 202-94

along with marked-up drawings and installation diagram of all PGT Industries, Inc. representative units listed below and tested to qualify **Dowsil 791** and **Dowsil 983** silicones, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.:
FTL-7897, PGT PW5520 PVC Fixed Window (unit 6 in proposal), dated 09/03/14
FTL-20-2107.1, PGT SGD780 Aluminum Sliding Glass Door (unit 7 in proposal) **FTL-20-2107.2,** PGT CA740 Alum. Outswing Casement Window (unit 8 in proposal) **FTL-20-2107.3,** PGT PW7620A Aluminum Fixed Window (unit 9 in proposal) and **FTL-20-2107.4**, PGT PW7620A Aluminum Fixed Window (unit 10 in proposal) dated 07/13/20, all signed and sealed by Idalmis Ortega, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis dated 04/15/20, complying with FBC-2020 (7th Edition), prepared by PGT, signed and sealed by Lynn Miller, P.E.
2. Glazing complies w/ ASTME-1300-02, -04 -09 & -16.

D. QUALITY ASSURANCE

1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **19-0305.02** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for "**Trosifol**: Ultra clear, clear & color PVB glass interlayer" (former "Kuraray **Butacite** PVB Interlayer)", expiring on 07/08/24.
2. Notice of Acceptance No. **15-1201.11** issued to Eastman Chemical Company (MA) former Solutia Inc. for their "**Saflex Clear or colored interlayer**", expiring on 05/21/21.

F. STATEMENTS

1. Statement letter of conformance to FBC 2020 (7th edition), and letter of no financial interest, prepared by PGT, dated 04/15/20, signed and sealed by Lynn Miller, P.E.
2. Letter of lab compliance, part of the above test reports.

G. OTHER

1. This NOA **revises** NOA **#17-0504.01** and updates to FBC 2020 (7th Edition), expiring 10/18/22.
2. RER Test proposals **#19-1155** dated 01/10/20 approved by Ishaq I. Chanda, P.E.

Silang Zhao, P.E.
Product Control Examiner
NOA No. 23-0724.02
Expiration Date: October 18, 2027
Approval Date: August 17, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. New Evidence Submitted

A. DRAWINGS

1. Drawing No. **11005-1 Rev 1**, titled "Alum. French Door & Sidelites, Impact", sheets 1 through 15 of 15, dated 04/04/2012 and last revised on 07/19/2023, prepared by PGT Industries, signed and sealed by Anthony Lynn Miller, P. E.

B. TESTS

1. None.

C. CALCULATIONS (submitted under previous approval)

1. None.

D. QUALITY ASSURANCE

1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **19-0305.02** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for "**Trosifol**: Ultra clear, clear & color PVB glass interlayer" (former "Kuraray **Butacite** PVB Interlayer)", expiring on 07/08/24.
2. Notice of Acceptance No. **21-0216.01** issued to Eastman Chemical Company (MA) former Solutia Inc. for their "**Saflex Clear or colored interlayer**", expiring on 05/21/26.

F. STATEMENTS

1. Statement letter of conformance to **FBC 2020 (7th edition)** and **FBC 2023 (8th edition)**, and letter of no financial interest, prepared by PGT, dated 07/20/2023, signed and sealed by Lynn Miller, P.E.

G. OTHER

1. This NOA **revises** NOA **#22-0608.03,** expiring 10/18/27.

Silang Zhao, P.E.
Product Control Examiner
NOA No. 23-0724.02
Expiration Date: October 18, 2027
Approval Date: August 17, 2023

SERIES 101 OUTSWING, IMPACT RESISTANT FRENCH DOOR AND SIDE LITE

1) GLAZING OPTIONS: SEE BELOW.

2) DESIGN PRESSURES: (SEE TABLES 1-4 ON SHEET 2)
A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E 1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E 1300.
C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN (ASD).

3) CONFIGURATIONS: X, O, XX, XO, OX, XXO, OXX, OXO, AND OXXO.

4) ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. FOR ANCHORAGE REQUIREMENTS SEE SHEETS 8-11. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FBC, CURRENT EDITION.

5) SHUTTERS ARE NOT REQUIRED.

6) SEALANTS: INSTALLATION SCREWS, FRAME AND PANEL CORNERS SEALED WITH CLEAR COLORED SEALANT.

7) REFERENCES: TEST REPORT FTL-[illegible] & [illegible]; ELCO ULTRACON, DEWALT ULTRACON+ & DEWALT/ELCO CRETEFLEX [illegible]

8) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

9) DOOR SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE. APPLICABLE EGRESS REQUIREMENTS TO BE REVIEWED BY AUTHORITY HAVING JURISDICTION (AHJ).

INSTRUCTIONS:

1) DETERMINE THE DESIGN PRESSURE (DP) REQUIREMENT (LBS/FT²) FOR THE OPENING USING THE **ASCE-7 STANDARD**.

2) ON SHEET 2, TABLES 1 & 2 REFER TO PRODUCTS THAT ARE REINFORCED. TABLES 3 & 4 REFER TO PRODUCTS THAT ARE UNREINFORCED. DETERMINE THE DESIGN PRESSURE OF YOUR PRODUCT USING THE APPROPRIATE SET OF TABLES. EXAMPLES ARE GIVEN ON SHEET 2. THIS DESIGN PRESSURE NEEDS TO BE HIGHER THAN THE OPENING'S REQUIRED DESIGN PRESSURE FROM STEP 1.

3) DETERMINE YOUR ANCHOR GROUP FROM TABLE A, THIS SHEET AND YOUR GLASS TYPES (A - E) FROM THE GLAZING DETAILS ON THIS SHEET.

4) FROM SHEETS 7-13, FIND THE SHEET THAT PERTAINS TO YOUR PRODUCT AND DETERMINE THE ANCHOR QUANTITIES REQUIRED.

5) ANCHORS ARE TO BE INSTALLED USING THE LOCATION GUIDELINES GIVEN IN THE NOTES ON SHEETS 7-13. SHEET 14 & 15 SHOW INSTALLATION CROSS SECTIONAL DETAILS.

DESIGN PRESSURE RATING	IMPACT RATING
SEE TABLES 1 - 4 ON SHEET 2	RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE

TABLE A:

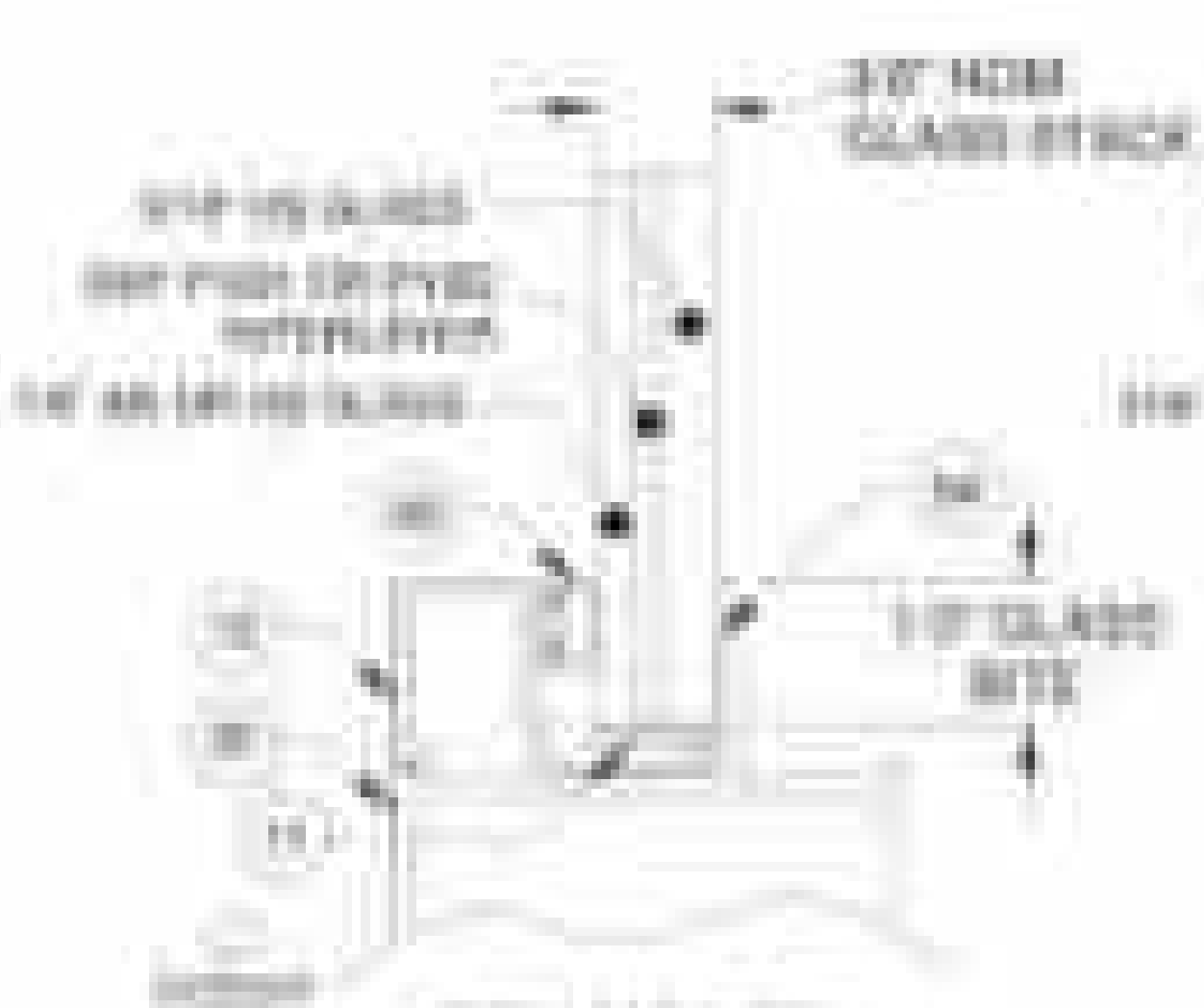
Anchor Group	Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. Embedment and/or Metal Thickness
1	1/4" Dewalt UltraCon+®	All	Concrete (min. [illegible])	1-3/4"	1-3/4"
		Jamb	Hollow Block (ASTM C90)	1-3/4"	1-1/4"
2	1/4" 410 SS Elco/Dewalt CreteFlex®	All	Concrete (min. [illegible])	1-3/4"	1-3/4"
		Jamb	Hollow Block (ASTM C90)	1-3/4"	1-1/4"
		All	Southern Pine (SG = 0.55)	1"	1-3/8"
3	#12 Steel Screw (G5) [illegible]	All	Southern Pine (SG = 0.55)	[illegible]	1-3/8"
		All	6063-T5 Aluminum	3/8"	1/8"
		All	Steel, A36	3/8"	0.060"
		All	Steel Studs, A1003 Gr. 33	3/8"	0.045" (18 Ga.)

1) WHERE SUBSTRATE CONDITIONS REQUIRE ANCHORAGE FROM MORE THAN ONE OF THE ANCHOR GROUPS ABOVE, CHOOSE THE ANCHOR GROUP OF THE LOWEST LETTER FOR ALL TABLES IN THIS APPROVAL.
2) ALL ANCHOR HEAD TYPES ARE APPLICABLE.
3) MIN. OF 3 THREADS BEYOND METAL SUBSTRATE.
4) ALL ANCHOR HEAD TYPES ACCEPTABLE.

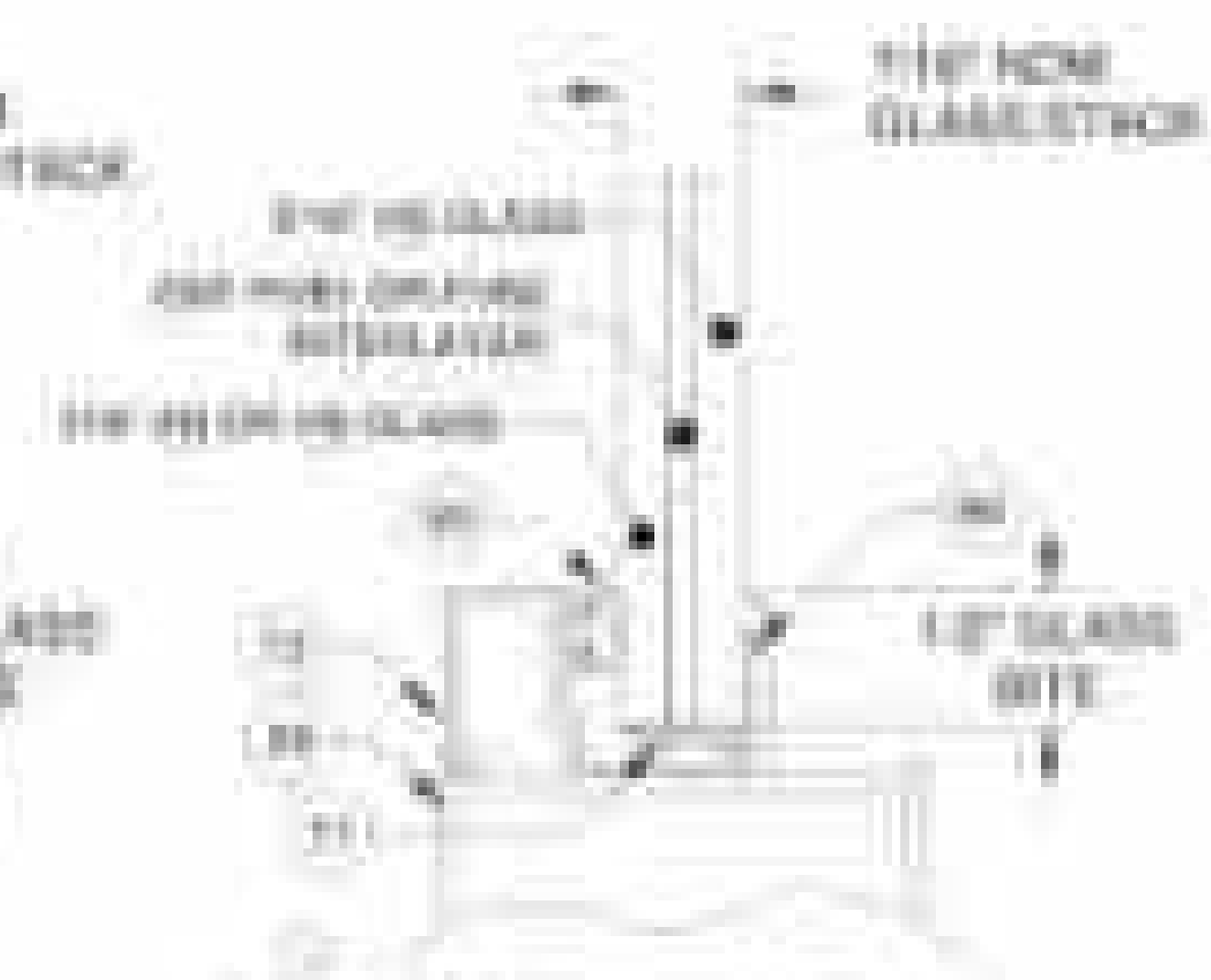
Name	Min. F_y	Min. F_u
Steel Screw	[illegible]	[illegible]
18-8 Screw	[illegible]	[illegible]
410 Screw	[illegible]	[illegible]
Elco UltraCon®	[illegible]	[illegible]
1/4" Dewalt UltraCon+®	[illegible]	[illegible]
410 SS Elco/Dewalt CreteFlex®	[illegible]	[illegible]
6063-T5 Aluminum	[illegible]	[illegible]
A36 Steel	[illegible]	[illegible]
Gr. 33 Steel Stud	[illegible]	[illegible]

GENERAL NOTES...........1
GLAZING DETAILS..........1
DESIGN PRESSURES........2
VERT. SECTIONS...........3
HORIZ. SECTIONS..........4
PARTS LIST...............5
EXTRUSIONS...............6
ANCHOR QUANTITY.........7-13
INSTALLATION............14-15

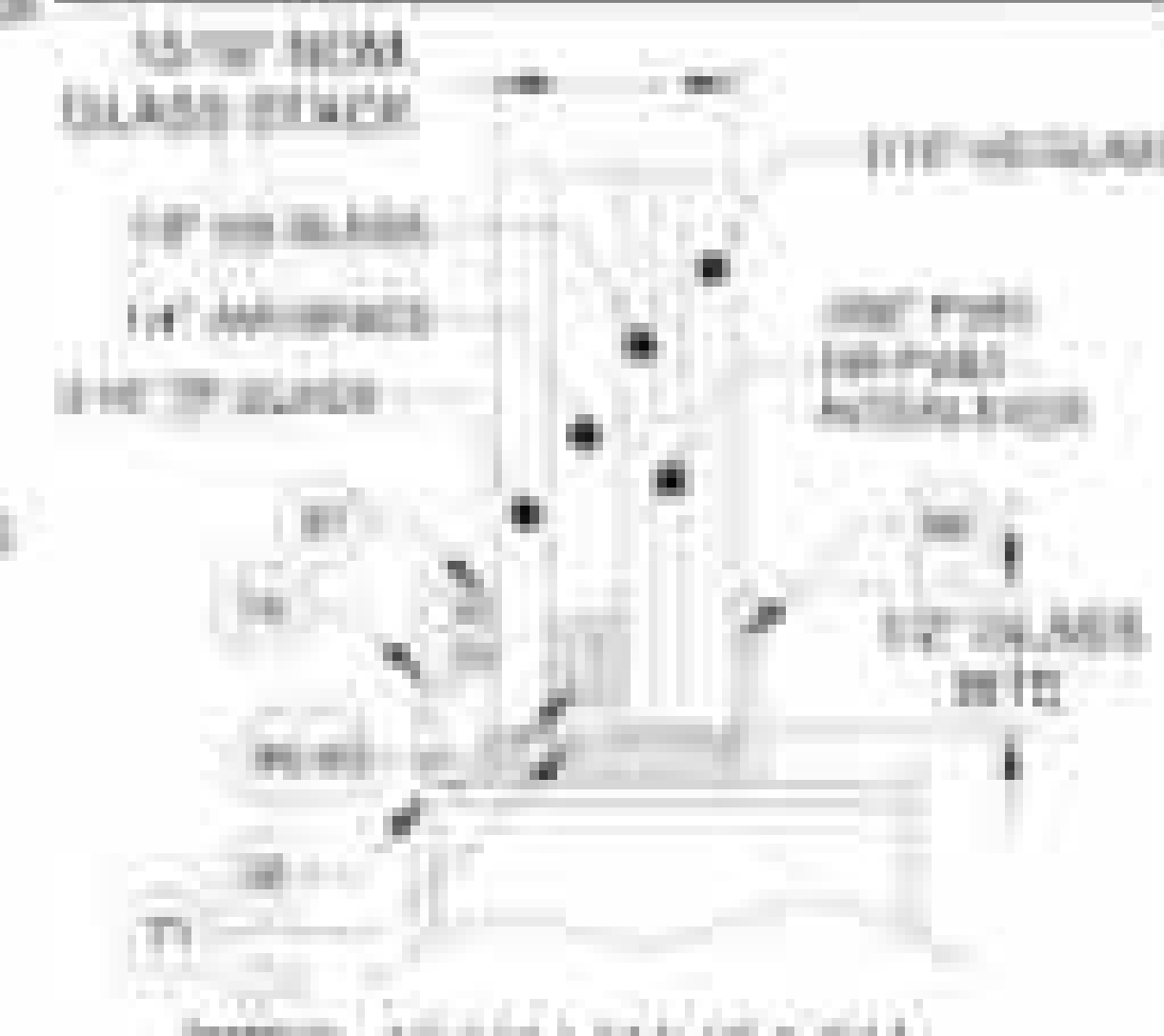
CODES / STANDARDS USED:
- 2023 FLORIDA BUILDING CODE (FBC), 8TH EDITION
- 2020 FLORIDA BUILDING CODE (FBC), 7TH EDITION
- ASTM E1300-[illegible]
- ANSI/AWC NDS-2018 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2020
- AISI [illegible]
- AISC 360-16



3/8" LAM NOM.
GLASS TYPE A
GLASS TYPE B



7/16" LAM NOM.
GLASS TYPE C
GLASS TYPE D



13/16" LAM IG NOM.
GLASS TYPE E

AN = ANNEALED
HS = HEAT STRENGTHENED
TP = TEMPERED

PVB1 = .090" TROSIFOL® PVB BY KURARAY AMERICA, INC.
PVB2 = .090" SAFLEX/KEEPSAFE MAXIMUM PVB BY EASTMAN CHEMICAL CO.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. [illegible]
Expiration Date [illegible]
By [illegible]
Miami-Dade Product Control

D) UPDATED TO 2023 BUILDING CODE. ULTRACONS REMOVED FROM TABLE A. [illegible] 07/18/23

PGT

ALUM. FRENCH DOOR & SIDE LITES, LMI
GENERAL NOTES & GLAZING DETAILS

1 OF 15

ANTHONY LYNN MILLER
LICENSE
No. [illegible]
STATE OF FLORIDA
PROFESSIONAL ENGINEER

TABLE 1:

DESIGN PRESSURES FOR DOORS, ALL GLASS TYPES REINFORCED DOOR TO SIDE LITE OR UNREINFORCED STAND-ALONE DOOR											
X FRAME WIDTH	XX FRAME WIDTH	FRAME HEIGHT									
		≤ 79 3/4"		≤ 82 3/4"		87 3/4"		91 3/4"		≤ 95 3/4"	
≤ 37 1/2"	≤ 71 3/4"	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0

TABLE 2:

DESIGN PRESSURES FOR SIDE LITES REINFORCED DOOR TO SIDE LITE OR UNREINFORCED STAND-ALONE SIDE LITE											
GLASS TYPES	FRAME WIDTH	FRAME HEIGHT									
		≤ 79 3/4"		≤ 82 3/4"		87 3/4"		91 3/4"		≤ 95 3/4"	
A	27 3/4"	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0
	30 1/8"	+75.0	-75.0	+75.0	-75.0	+71.4	-71.4	+67.6	-67.6	+64.2	-64.2
	36 3/4"	+75.0	-75.0	+75.0	-75.0	+70.4	-70.4	+66.5	-66.5	+63.1	-63.1
B, C, D OR E	36 3/4"	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0

FOR MAX. SIZES OF COMBINED UNITS, SEE SHEETS 10-13.

DOOR SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE. APPLICABLE EGRESS REQUIREMENTS TO BE REVIEWED BY AUTHORITY HAVING JURISDICTION (AHJ).

TABLE 3:

DESIGN PRESSURES FOR DOORS, ALL GLASS TYPES UNREINFORCED DOOR TO SIDE LITE											
X FRAME WIDTH	XX FRAME WIDTH	FRAME HEIGHT									
		≤ 79 3/4"		≤ 82 3/4"		87 3/4"		91 3/4"		≤ 95 3/4"	
≤ 25 1/2"	≤ 47 3/4"	+58.6	-58.6	+55.4	-55.4	+52.4	-52.4	+49.8	-49.8	+47.4	-47.4
27 1/2"	51 3/4"	+54.9	-54.9	+51.8	-51.8	+49.0	-49.0	+46.5	-46.5	+44.3	-44.3
29 1/2"	55 3/4"	+51.7	-51.7	+48.8	-48.8	+46.1	-46.1	+43.8	-43.8	+41.6	-41.6
≤ 31 1/2"	≤ 59 3/4"	+49.0	-49.0	+46.2	-46.2	+43.6	-43.6	+41.4	-41.4	+39.1	-39.1
≤ 33 1/2"	≤ 63 3/4"	+46.1	-46.1	+43.1	-43.1	+41.5	-41.5	+39.3	-39.3	+37.3	-37.3
35 1/2"	67 3/4"	+38.1	-38.1	+38.1	-38.1	+38.1	-38.1	+37.6	-37.6	+35.8	-35.8
≤ 37 1/2"	≤ 71 3/4"	+34.0	-34.0	+34.0	-34.0	+34.0	-34.0	+34.0	-34.0	+34.0	-34.0

TABLE 4:

DESIGN PRESSURES FOR SIDE LITES UNREINFORCED DOOR TO SIDE LITE											
GLASS TYPE	FRAME WIDTH	FRAME HEIGHT									
		≤ 79 3/4"		≤ 82 3/4"		87 3/4"		91 3/4"		≤ 95 3/4"	
A, B, C, D OR E	10 3/4"	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0
	13 3/4"	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0
	19"	+72.4	-72.4	+68.0	-68.0	+65.0	-65.0	+61.6	-61.6	+59.0	-59.0
	21 3/4"	+64.5	-64.5	+61.6	-61.6	+57.9	-57.9	+55.0	-55.0	+52.4	-52.4
	27 3/4"	+52.8	-52.8	+49.6	-49.6	+47.2	-47.2	+44.7	-44.7	+42.6	-42.6
	30 1/8"	+39.2	-39.2	+38.2	-38.2	+35.2	-35.2	+35.2	-35.2	+34.4	-34.4
	35 3/4"	+34.0	-34.0	+34.0	-34.0	+34.0	-34.0	+34.0	-34.0	+34.0	-34.0

NOTES FOR ALL CONFIGURATIONS:

1) FOR CONFIGURATIONS WHICH CONTAIN A SIDE LITE TO DOOR CONNECTION, (XO, OX, XXO, OXX, OXO, OXXO), THE LOWEST DESIGN PRESSURE SHALL PREVAIL.

2) FULL LENGTH REINFORCEMENT (ITEM 22 SHOWN IN SECTION E-E, SHEET 4), IS REQUIRED AT DOOR TO SIDE LITE CONNECTIONS WHEN USING TABLES 1 & 2.

3) DOOR AND SIDE LITE COMBINATIONS FROM TABLES 3 AND 4 DO NOT REQUIRE REINFORCEMENT (ITEM 22).

4) DESIGN PRESSURES UNDER 40 PSF ARE NOT APPLICABLE IN MIAMI DADE COUNTY.

5) FOR DOOR-ONLY CONFIGURATIONS (X, XX), ONLY TABLE 1 IS APPLICABLE. REINFORCEMENT, PART #22, IS NOT REQUIRED.

6) FOR SINGLE, STAND-ALONE SIDE LITES (O), ONLY TABLE 2 IS APPLICABLE. REINFORCEMENT PART #22, IS NOT REQUIRED.

7) CONFIGURATIONS WHERE THE DOOR LOCKSTILE ABUTS A SIDELITE ARE NOT AVAILABLE WITH REINFORCEMENT.

8) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE (E.G. FOR 32" "X" DOOR WIDTH IN TABLE 3, USE 33-1/2").

EXAMPLE 1, USING TABLES 1 & 2: XO WITH GLASS TYPE B, REINFORCED:
33 1/2" WIDE X 79-3/4" HIGH SINGLE DOOR WITH 19" X 79-3/4" SIDE LITE (SEE NOTE 8).
DOOR DESIGN PRESSURE = +75 / -75 PSF
SIDE LITE DESIGN PRESSURE = +75 / -75 PSF
OVERALL DESIGN PRESSURE = +75 / -75 PSF

EXAMPLE 3, USING TABLES 3 & 4: OXO WITH GLASS TYPE C, UNREINFORCED:
30" WIDE X 87-3/4" HIGH SINGLE DOOR WITH (2) 28" X 87-3/4" SIDE LITES (SEE NOTE 8).
DOOR DESIGN PRESSURE = +43.6 / -43.6 PSF
SIDE LITE DESIGN PRESSURE = +47.2 / -47.2 PSF
OVERALL DESIGN PRESSURE = +43.6 / -43.6 PSF

EXAMPLE 5, USING TABLE 1: X WITH GLASS TYPE A:
32" WIDE X 90" HIGH SINGLE DOOR (SEE NOTE 8).
DOOR DESIGN PRESSURE = +75 / -75 PSF

FOR MAX. SIZES OF COMBINED UNITS, SEE SHEETS 10-13.

EXAMPLE 2, USING TABLES 1 & 2: OXXO WITH GLASS TYPE A, REINFORCED:
68" WIDE X 87" HIGH DOUBLE DOOR WITH (2) 36 1/2" X 87" SIDE LITES (SEE NOTE 8).
DOOR DESIGN PRESSURE = +75 / -75 PSF
SIDE LITE DESIGN PRESSURE = +70.4 / -70.4 PSF
OVERALL DESIGN PRESSURE = +70.4 / -70.4 PSF

EXAMPLE 4, USING TABLES 3 & 4: OXXO WITH GLASS TYPE B, UNREINFORCED:
71 3/4" WIDE X 95 3/4" HIGH DOUBLE DOOR WITH (2) 35 3/4" X 95 3/4" SIDE LITES.
DOOR DESIGN PRESSURE = +34 / -34 PSF
SIDE LITE DESIGN PRESSURE = +34 / -34 PSF
OVERALL DESIGN PRESSURE = +34 / -34 PSF

EXAMPLE 6, USING TABLE 1: XX WITH GLASS TYPE A:
63 3/4" WIDE X 91 3/4" HIGH DOUBLE DOOR (SEE NOTE 8).
DOOR DESIGN PRESSURE = +75 / -75 PSF

GLASS TYPES (ALL TABLES, THIS SHEET):
A. 5/16" LAM (1/8" A, .090 PVB, 3/16" HS)
B. 5/16" LAM (1/8" HS, .090 PVB, 3/16" HS)
C. 7/16" LAM (3/16" A, .090 PVB, 3/16" HS)
D. 7/16" LAM (3/16" HS, .090 PVB, 3/16" HS)
E. 13/16" LAM IG (3/16" TF, 1/2" AIRSPACE, 1/8" HS, .090 PVB, 3/16" HS)

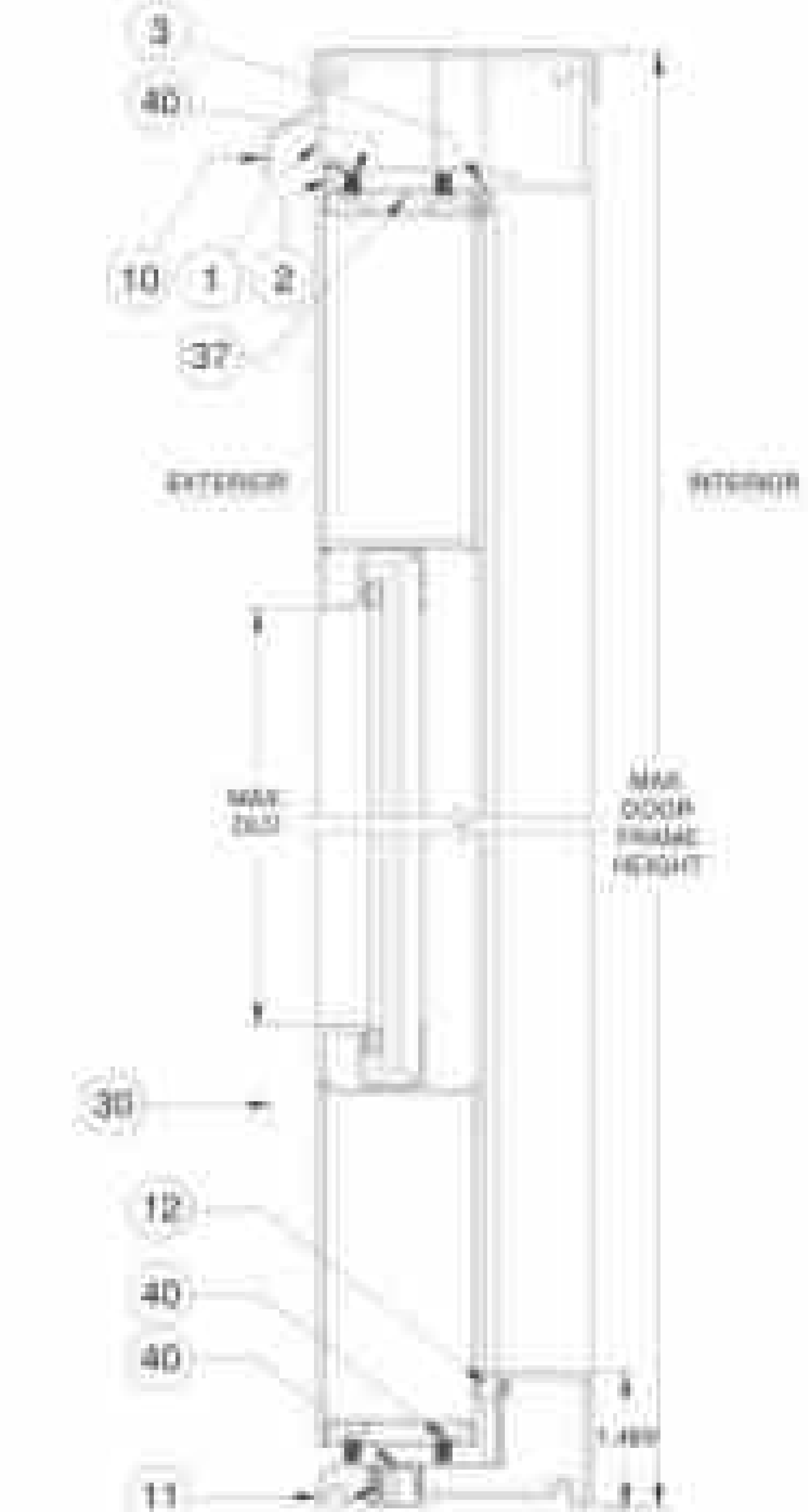
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Expiration Date 10/18/2027
By
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D) UPDATED TO 2023 BUILDING CODE
AM 07/18/23

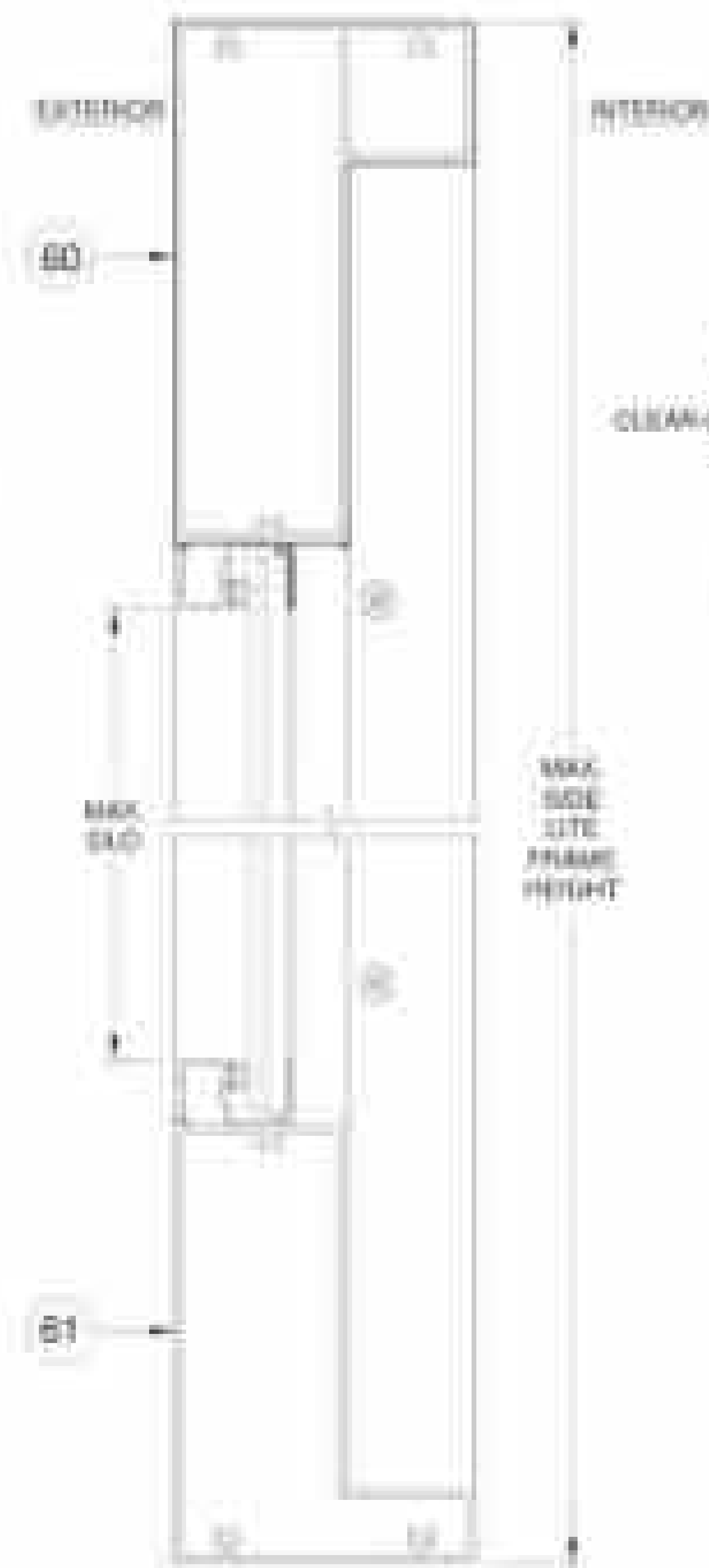
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DESIGN PRESSURES

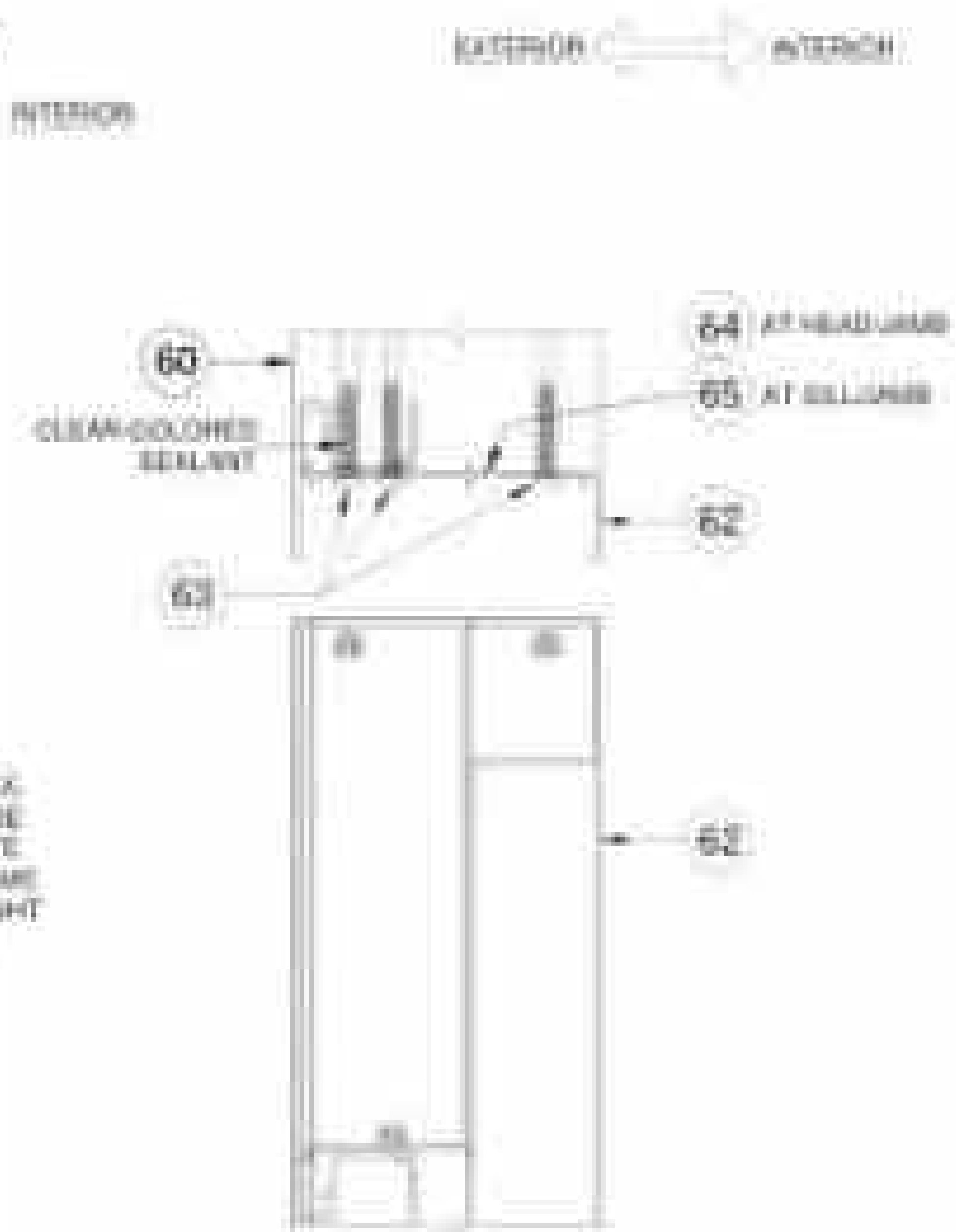
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DOOR SECT. A-A
VERTICAL



SL SECT. B-B
VERTICAL



SL VIEW G-G
CORNER ASSEMBLY

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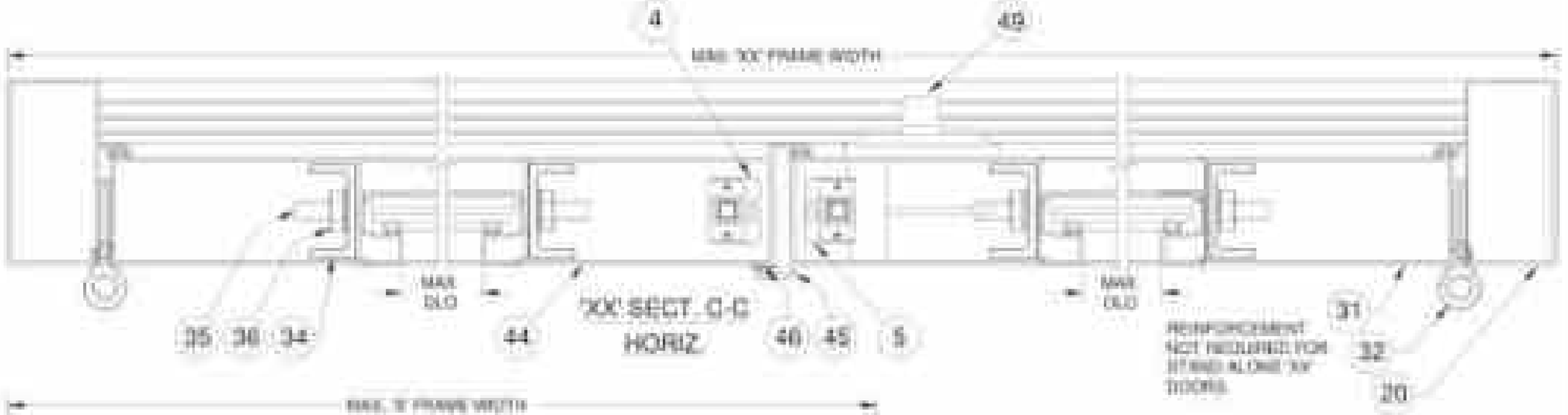
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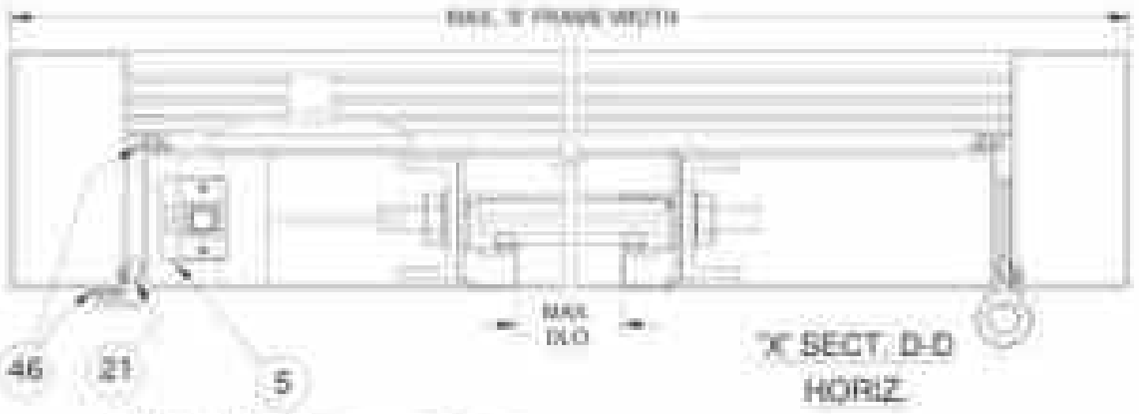
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ALUM. FRENCH DOOR & SIDE LITES (LM)

VERTICAL SECTIONS

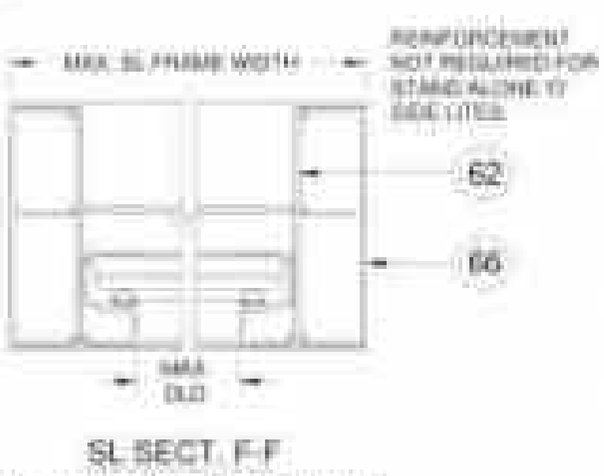
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PROFESSIONAL ENGINEER











NOTES:

1) CLEAR OPENING FOR 'X' AND 'XX' DOORS AS FOLLOWS:
WIDTH:
'X' DOORS = DOOR FRAME WIDTH - 4 MM
'XX' DOOR = DOOR FRAME WIDTH - 2 - 4.875
HEIGHT:
DOOR FRAME HEIGHT - 3.250"

2) SIDE LITES OVERLAP JAMB BY 3/4" FOR DOORS WITH 3/4" WHEN ASSEMBLED TO MAKE 3/4" ONLY RIGHT SIDE RH (RHR) CONFIGURATIONS.

3) FOR LENGTH REINFORCEMENT APPLICABLE TO DOOR AND SIDE LITE COMBINATIONS FROM TABLES 1 AND 2, SHEET 3, ITEM 32 IS NOT REQUIRED WITH LOWER FOR FRAME TABLES 5 AND 6, SHEET 3, OR WITH STAND ALONE 'E' & 'XE' CONFIGURATIONS FROM TABLES 1 AND 2.

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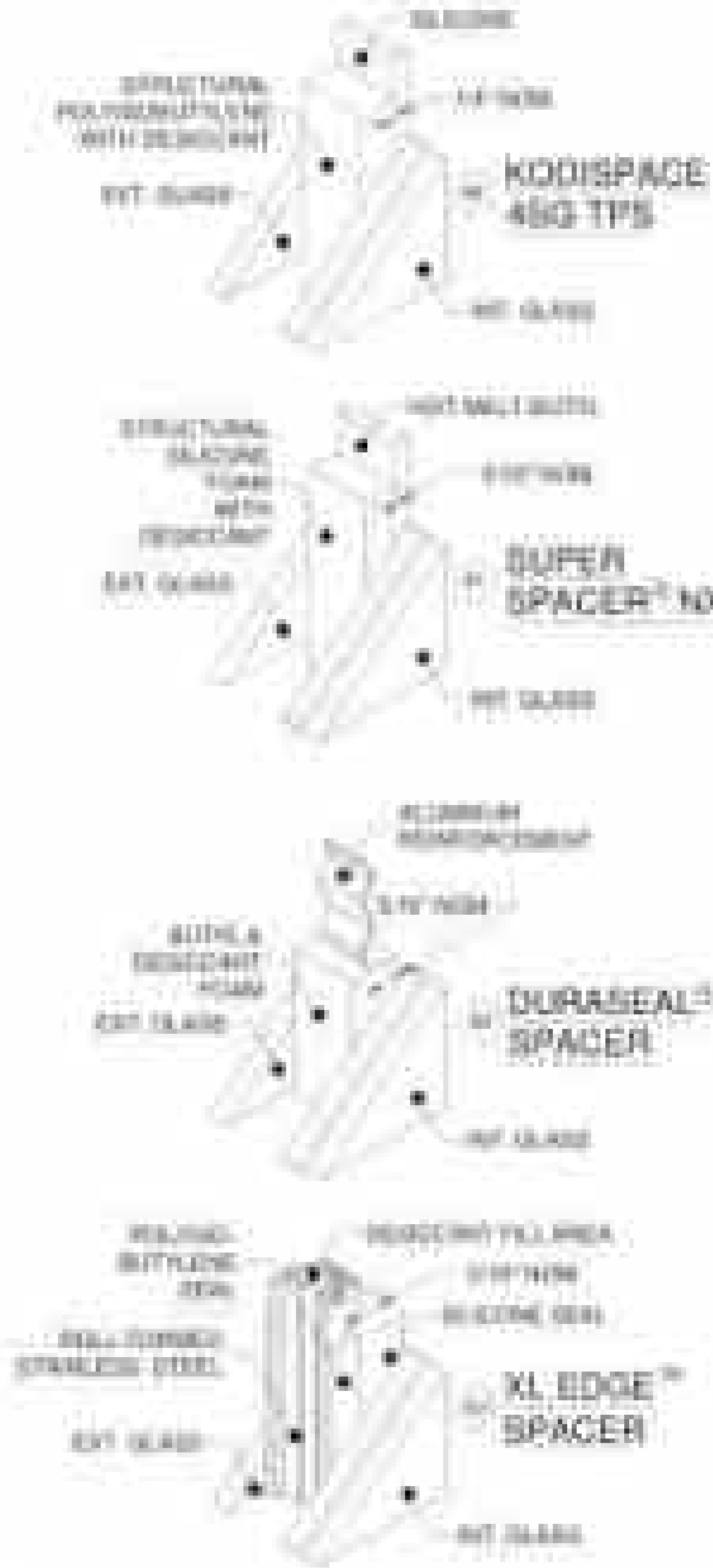
2) UPDATED TO 2023 BUILDING CODE.
AM 07/19/23

PGT
ENGINEERING
HORIZONTAL SLIDING DOOR W/ SIDE LITES & SIDE FIXED PANEL
ENGINEERING
DATE 07/19/23
SCALE NOT TO SCALE
SHEET 4 OF 9

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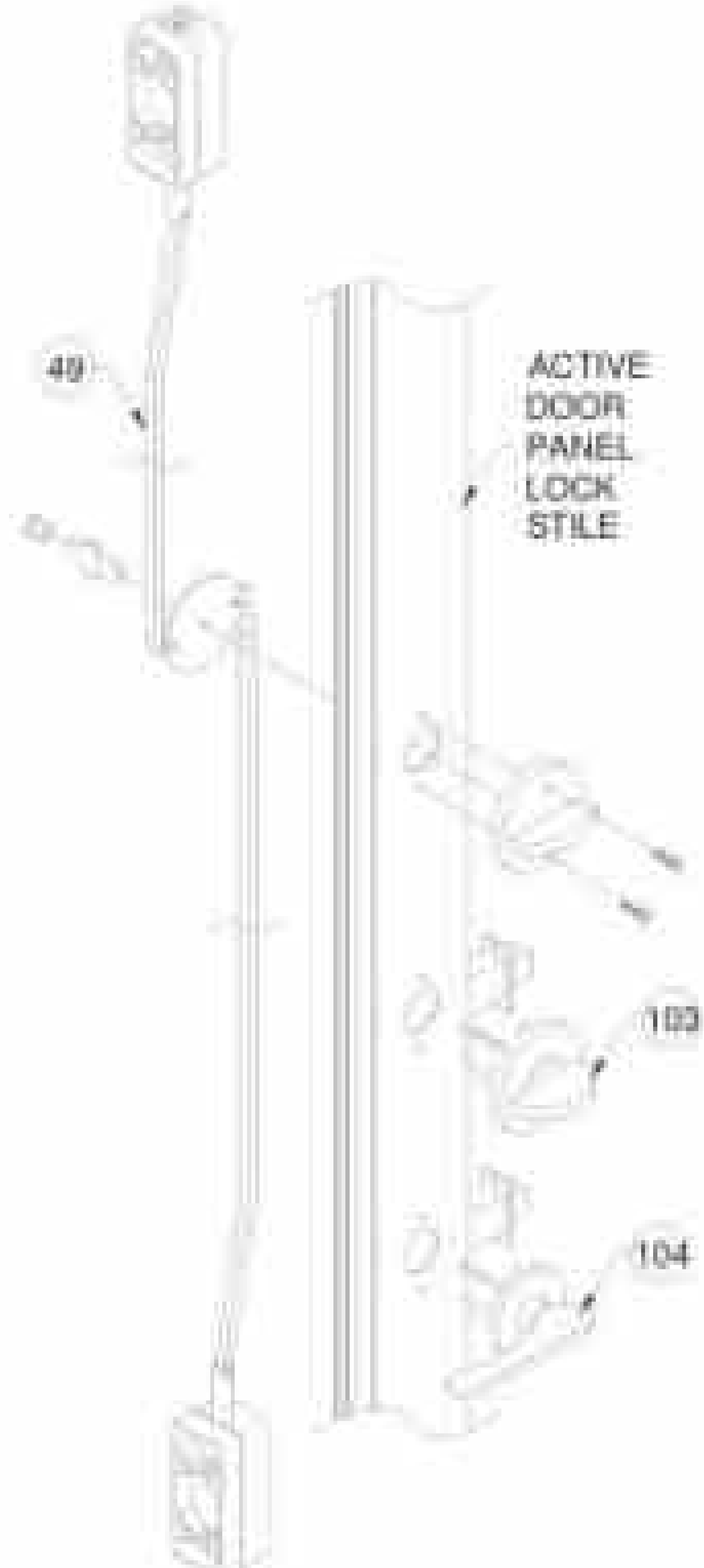
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ITEMS [illegible] ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.



Part #	Description	Material
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REFERENCE TEST REPORTS: [illegible]



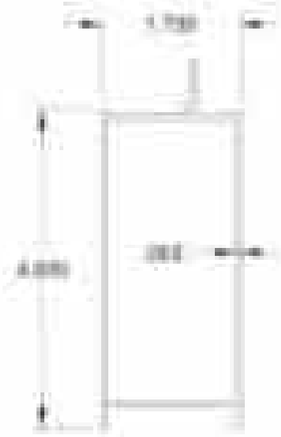
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BOM & SPACER DETAILS

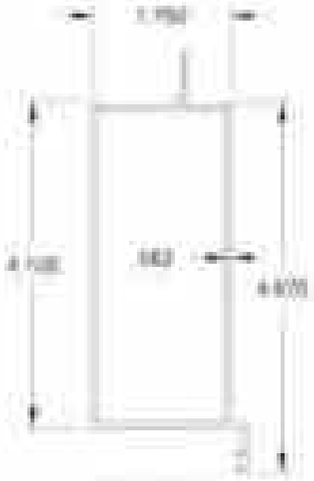
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30 DOOR PANEL TOP & BOTTOM RAIL 6063-T5



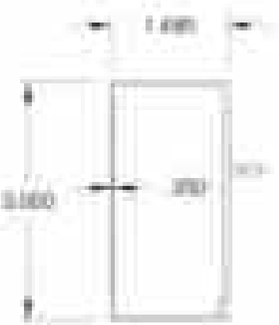
31 DOOR PANEL SIDE RAIL 6063-T5



44 DOOR PANEL INTERIOR ASTRAGAL 6063-T5



45 DOOR PANEL EXTERIOR ASTRAGAL 6063-T5



20 DOOR FRAME JAMB 6063-T5



37 WEATHER STRIP CHANNEL 6063-T5



32 HEAD 6063-T5



10 FILLER HEAD ADAPTER 6063-T6



34 TRUSS CLAMP 6063-T5



74 5/16" GLAZING BEAD 6063-T5



76 3/4" GLAZING BEAD 6063-T5



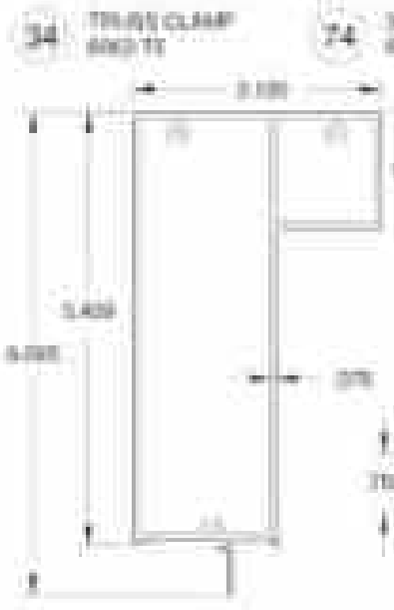
62 SILL/JAMB 6063-T5



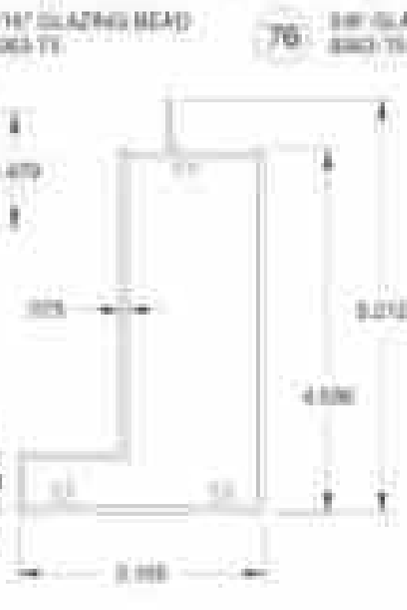
74 GLAZING BEAD 6063-T5



1 TRANS. HEAD 6063-T5



60 SILL/HEADER 6063-T5



61 SILL/SILL 6063-T5



66 SILL/JAMB ADAPTER 6063-T5



13 OUTSWING THRESHOLD CHANNEL COVER 6063-T5



11 OUTSWING THRESHOLD 6063-T5

22 TUBE MULL 6063-T5

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ALUM. FRENCH DOOR & SIDE LITES

OUTSWING

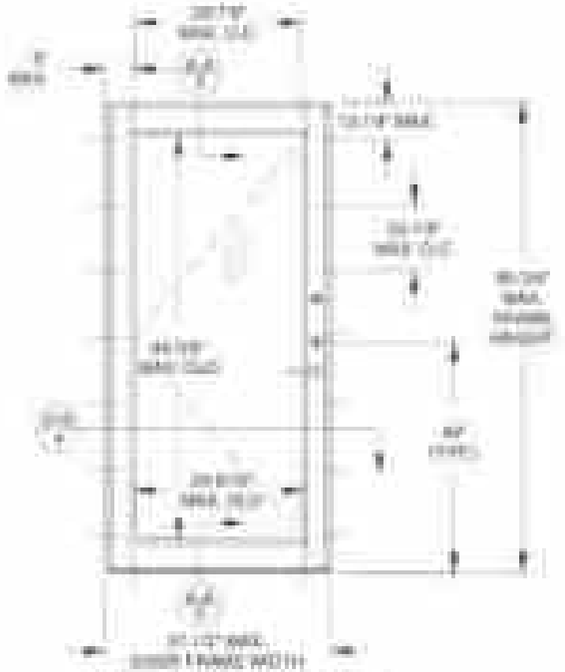
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Table 1

X DOORS
ALL GLASS TYPES

MAX DOOR FRAME WIDTH	MIN FRAME HEIGHT	ANCHOR TYPE & SUBSTRATE	U.S. NOZZLE 3 KSI/PI	I.E. 22X60	
			LOAD ZONES		
			1+ PSF	2+ PSF	3+ PSF
35.5in	79.75		3	3	4
	80.75		3	3	4
	87.75		3	3	4
	91.75		3	3	4
	95.75		4	3	4
37.5in	79.75		3	3	4
	80.75		3	3	4
	87.75		3	3	4
	91.75		4	3	4
	95.75		4	3	4
39.5in	79.75		3	3	4
	80.75		3	3	4
	87.75		3	3	4
	91.75		4	3	4
	95.75		4	3	4
41.5in	79.75		3	3	4
	80.75		3	3	4
	87.75		4	3	4
	91.75		4	3	4
	95.75		7	3	4
43.5in	79.75		3	3	4
	80.75		3	3	4
	87.75		4	3	5
	91.75		7	3	4
	95.75		7	3	4
45.5in	79.75		3	3	4
	80.75		3	3	4
	87.75		4	3	5
	91.75		7	3	4
	95.75		7	3	4
47.5in	79.75		3	3	4
	80.75		3	3	4
	87.75		7	3	4
	91.75		7	3	4
	95.75		7	3	4



TYP. DIMENSIONS OF SINGLE DOOR, X



LOAD ZONES FOR SINGLE DOOR, X

NOTES:

1) SEE SHEET 1 FOR GLASS AND ANCHOR TYPE DESCRIPTIONS

2) STICKING MAY BE LEFT OR RIGHT HANDED

3) ANCHOR QUANTITIES ARE BASED ON EDGE ZONE REACTIONS AT MIN. 3 FT. FOR CONCRETE, 4" MIN. F.C. FOR CMU, JAMBS (ALL) 12 FT. MAX. FROM CORNERS AND 12 FT. MAX. C.C. HEAD & SILL UP 2'-0" MAX. FROM CORNERS, 8" MAX. FROM MULLIONS, CENTERS AND 16" MAX. O.C.

4) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.

5) FOR ANCHORAGE INSTALLATION DETAILS SEE SHEET 15.

Design Pressure
See page 2 Table 1

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X DOOR, FRENCH DOOR & SIDE LITE

DETAILS

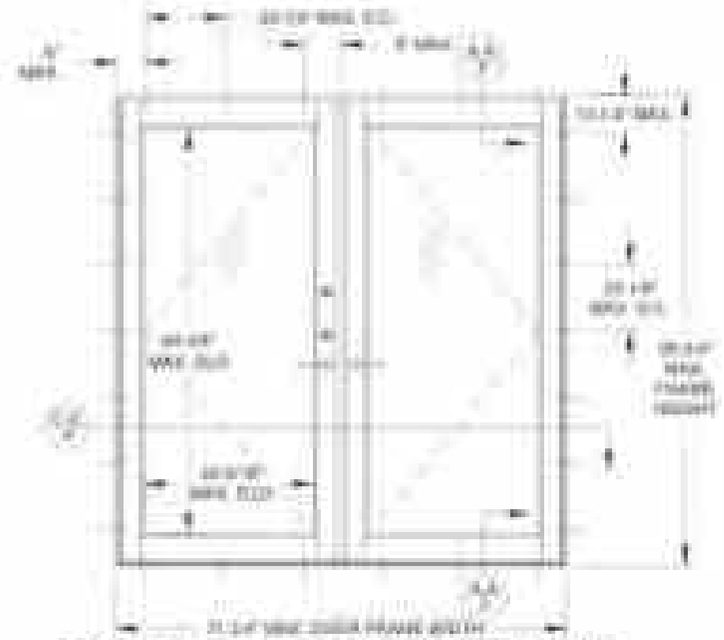
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07/15/23

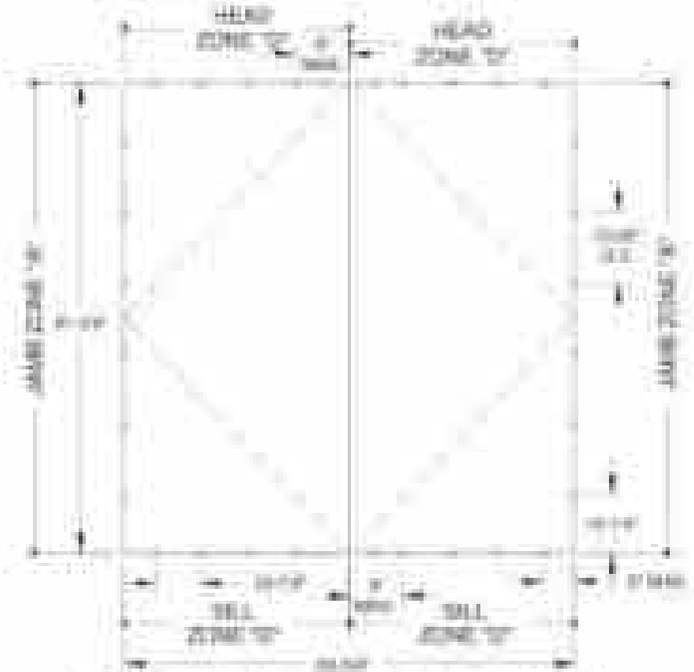
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XX DOORS, ALL GLASS TYPES

MAX DOOR FRAME WIDTH	MAX FRAME HEIGHT	HEAD ZONE "C"	HEAD ZONE "D"	SILL ZONE "C"	SILL ZONE "D"
4'-0"	7'-6"	4	5	4	5
	8'-0"	3	4	4	5
	8'-6"	3	4	4	5
	9'-0"	3	4	4	5
	9'-6"	3	4	4	5
5'-0"	7'-6"	3	4	4	5
	8'-0"	3	4	4	5
	8'-6"	3	4	4	5
	9'-0"	3	4	4	5
	9'-6"	3	4	4	5
6'-0"	7'-6"	3	4	4	5
	8'-0"	3	4	4	5
	8'-6"	3	4	4	5
	9'-0"	3	4	4	5
	9'-6"	3	4	4	5
8'-0"	7'-6"	3	5	4	5
	8'-0"	3	5	4	5
	8'-6"	4	5	4	5
	9'-0"	4	5	4	5
	9'-6"	4	5	4	5
10'-0"	7'-6"	4	5	4	5
	8'-0"	4	5	4	5
	8'-6"	4	5	4	5
	9'-0"	4	5	4	5
	9'-6"	4	5	4	5
12'-0"	7'-6"	4	5	4	5
	8'-0"	4	5	4	5
	8'-6"	4	5	4	5
	9'-0"	4	5	4	5
	9'-6"	4	5	4	5



TYP. ELEVATION OF XX CONFIGURATION



LOAD ZONES FOR XX CONFIGURATION
& ANCHORAGE LAYOUT USED IN EXAMPLE

NOTES:

1. USE SHEET 1 FOR GLASS AND ANCHOR TYPE DESCRIPTIONS.
2. DOORS MAY BE LEFT OR RIGHT HANDED.
3. ANCHOR QUANTITIES ARE BASED ON SPACING AS FOLLOWS (F.U.N. 511.7(3)(c)1.a.):
   JAMBS SHALL BE 4.5" MAX FROM CORNERS AND CLR. MAX. C.C. (TOP & SILL OF DOORS 9" MAX FROM CORNERS, 9" MAX FROM INTERIOR JOINTS AND 24" MAX C.C.
4. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.
5. FOR ANCHORAGE DETAILS SEE SHEET 14.

EXAMPLE:
XX WITH GLASS TYPE A
DOOR SIZE: 8'-0" X 9'-0" (W) DOUBLE DOOR
GLAZING TYPE 2 PLY LAMI
DESIGN PRESSURE: +70 / -70 PSF
SEE EXAMPLE 1 ON SHEET 1 FOR (P) EXAMPLE

DOOR ANCHOR REQUIREMENTS FROM TABLE 4
5 REQ'D PER JAMB
2 REQ'D PER EACH DOOR PANEL @ HEAD
2 REQ'D PER EACH DOOR PANEL @ SILL

SEE ON GLASS VALUES ON TABLE 5

= ANCHOR LOCATION

Design Pressure

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CHECKED BY	
DATE	
SCALE	
JOB NO.	
DWG NO.	
REVISIONS	

HEAVY FRENCH DOOR & SIDELITE

XX DETAILS

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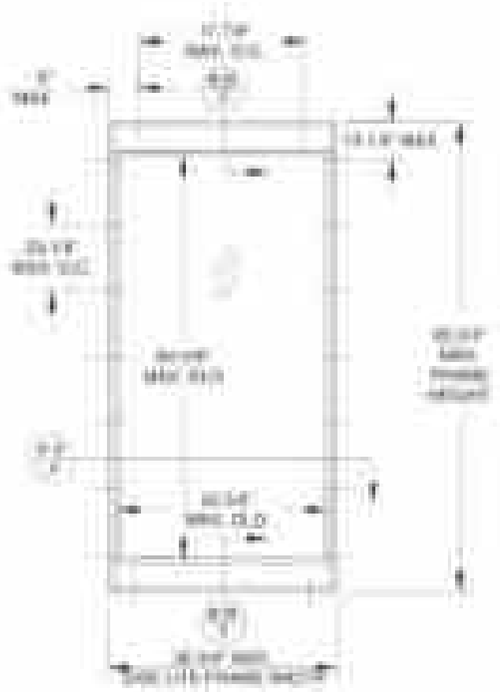
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TABLE 1

O SIDE LITE, ALL GLASS TYPES

ANCHOR TYPE & SUBSTRATE	C.S. WOOD 2 PLUS	I.S. CONC
	ENG ZONES	

MAX SIDE LITE FRAME WIDTH	MAX FRAME HEIGHT	A WIND ZONE 1	A WIND ZONE 2	A WIND ZONE 3	A WIND ZONE 4
11.75	79.75	4	1	4	1
	83.75	4	1	4	1
	87.75	4	1	4	1
	91.75	4	1	4	1
	95.75	4	1	4	1
14.75	79.75	4	2	4	2
	83.75	4	2	4	2
	87.75	4	2	4	2
	91.75	4	2	4	2
	95.75	4	2	4	2
16.00	79.75	4	2	4	2
	83.75	4	2	4	2
	87.75	4	2	4	2
	91.75	4	2	4	2
	95.75	4	2	4	2
20.75	79.75	4	2	4	2
	83.75	4	2	4	2
	87.75	4	2	4	2
	91.75	5	2	4	2
	95.75	5	2	4	2
27.75	79.75	5	2	4	2
	83.75	5	2	4	2
	87.75	5	2	4	2
	91.75	6	2	4	2
	95.75	6	2	4	2
36.12	79.75	6	3	4	3
	83.75	6	3	4	3
	87.75	7	3	4	3
	91.75	7	3	4	3
	95.75	7	3	4	3
36.75	79.75	6	3	4	3
	83.75	6	3	4	3
	87.75	7	3	4	3
	91.75	7	3	4	3
	95.75	7	3	4	3



TYP. ELEVATION OF SINGLE SIDELITE, O



LOAD ZONES FOR SINGLE SIDELITE, O

NOTES:

1. SEE SHEET 1 FOR GLASS AND ANCHOR TYPE DESCRIPTIONS.
2. ANCHOR SUBSTRATE IPM BASED ON IPM USING AN EQUIVALENT MIN. O.C. FOR CONCRETE, F'MIN. O.C. FOR CMU, WHICHEVER IS LESS: 12 1/2" MIN. FROM CORNERS AND O.C. MAX. O.C. OR 6" MIN. FROM CORNERS AND 24" MAX. O.C.
3. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.
4. FOR ANCHORAGE INSTALLATION DETAILS SEE SHEET 10.

Design Pressure
See Sheet 2, Table 2

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HURRICANE IMPACT DOOR & SIDE LITE

O DETAILS

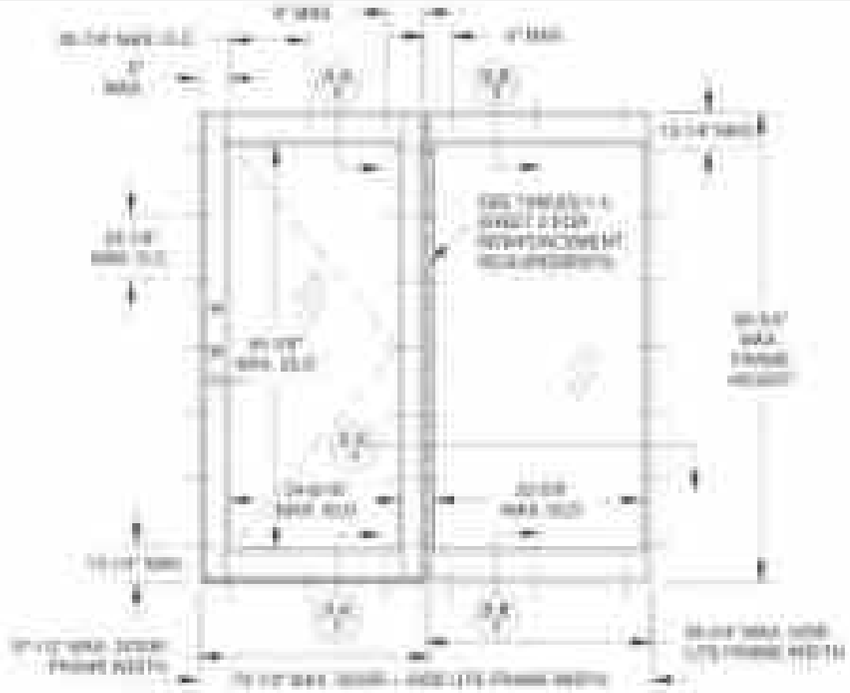
SHEET NO. 9 OF 10

07/15/2023

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PROFESSIONAL ENGINEER

XO & OX, ALL GLASS TYPES

MAX. SIDE LITE FRAME WIDTH	MAX. DOOR FRAME WIDTH	MAX FRAME HEIGHT	ANCHOR TYPE & QUANTITY REQ'D	U.S. WOOD (I-BEAM)				U.K. CORE			
			LOAD ZONES								
				A	B	C	D	A	B	C	D
19.75	23.50	79.75		4	3	3	3	4	3	3	4
		83.75		4	3	4	3	4	3	3	4
		87.75		4	3	4	3	4	3	3	4
		91.75		4	3	4	3	4	3	3	4
		95.75		4	3	4	4	4	3	3	4
19.75	27.50	79.75		4	3	4	3	4	3	3	4
		83.75		4	3	4	3	4	3	3	4
		87.75		4	3	4	3	4	3	3	4
		91.75		4	3	4	4	4	3	3	4
		95.75		4	3	4	4	4	3	3	4
19.00	29.00	79.75		4	3	4	3	4	3	3	4
		83.75		4	3	4	3	4	3	3	4
		87.75		4	3	4	4	4	3	3	4
		91.75		4	3	4	4	4	3	3	4
		95.75		4	3	4	4	4	3	3	4
27.75	23.50	79.75		4	3	5	3	4	3	4	4
		83.75		4	3	5	4	4	3	3	4
		87.75		4	3	5	4	4	3	3	4
		91.75		5	3	5	4	4	3	3	4
		95.75		5	3	5	7	4	3	3	4
27.75	33.50	79.75		5	3	5	4	4	3	3	4
		83.75		5	3	5	4	4	3	3	4
		87.75		5	3	5	4	4	3	3	4
		91.75		5	3	5	7	4	3	3	4
		95.75		5	3	6	7	4	3	3	4
39.11	35.50	79.75		6	4	5	5	5	3	3	4
		83.75		6	4	5	6	5	3	3	4
		87.75		7	5	5	6	6	3	3	4
		91.75		7	5	6	7	6	3	3	4
		95.75		7	5	6	7	6	3	3	4
39.75	37.50	79.75		6	4	5	6	6	3	3	4
		83.75		6	4	5	6	6	3	3	5
		87.75		7	5	5	7	6	3	3	4
		91.75		7	5	6	7	6	3	3	5
		95.75		7	5	6	7	6	3	3	4



TYP. ELEVATION OF XO CONFIGURATION



LOAD ZONES FOR XO CONFIGURATION & ANCHORAGE LAYOUT USED IN EXAMPLE

Design Pressure	
Reinforced	See Sheet 2, Tables 1 & 2
Unreinforced	See Sheet 2, Tables 3 & 4

NOTES:

1) SEE SHEET 1 FOR GLASS AND ANCHOR TYPE DESCRIPTIONS.

2) DOORS MAY BE LEFT OR RIGHT HANDED.

3) ANCHOR QUANTITIES ARE BASED ON SPECIFICATION FOLLOWING: MIN. 5" C. FOR CONCRETE, 4" MIN. S.C. FOR CMU.
- JAMBS (ALL 12 1/4" MAX. FROM CORNERS AND 12 7/8" MAX. O.C.)
- HEAD & SILL OF DOORS 4" MAX. FROM CORNERS, 8" MAX. FROM ASTRAGAL (DEEPEND AND 20 7/8" MAX. O.C.)
- HEAD & SILL OF SIDE LITES 4" MAX. FROM CORNERS AND 24 1/2" MAX. O.C.

4) POST SIZES MUST SHOWN. REFER TO SYSTEM INSTALLATION GUIDE.

5) FOR ANCHORAGE INSTALLATION DETAILS SEE SHEETS 10 & 11.

6) CONFIGURATIONS WHERE THE DOOR LOCATION ADJUSTS & SIDE LITE MAY NOT AVAILABLE WITH REINFORCEMENT.

7) SIDE LITE SASHLAPS EQUIPPED WITH SWING HANDLES.

EXAMPLE:
XO WITH GLASS TYPE A.
80 1/4" SINGLE DOOR WITH 24" X 97" MIRE SIDE LITE.
WIND ZONE TYPE 3 (ZONE 2).
DOOR DESIGN PRESSURE = +75 / -75 PSF.

DOOR AND SIDE ASSEMBLIES OPERATABLE BY:
- 4 ANCHORS @ DOOR JAMB
- 3 ANCHORS @ DOOR PANEL @ HEAD
- 3 ANCHORS @ DOOR PANEL @ SILL
- 4 ANCHORS @ SIDE LITE JAMB
- 3 ANCHORS @ SIDE LITE @ HEAD
- 3 ANCHORS @ SIDE LITE @ SILL

SEE CIRCLED VALUES IN TABLE 3

= DENOTES ANCHOR LOCATION

PRODUCT REVISED
In compliance with the Florida Building Code
NOA No. 23-0228.06
Expiration Date: DEC 15 2027
By: Miami-Dade Product Control

2) UPDATED TO 2023 BUILDING CODE

Add: 07/15/25

ENGINEERING

DRAWN BY:	
CHECKED BY:	
DATE:	
SCALE:	
REVISIONS	
1	07/15/25
2	
3	
4	

ALUM. FRENCH DOOR & SIDE LITES SYSTEM

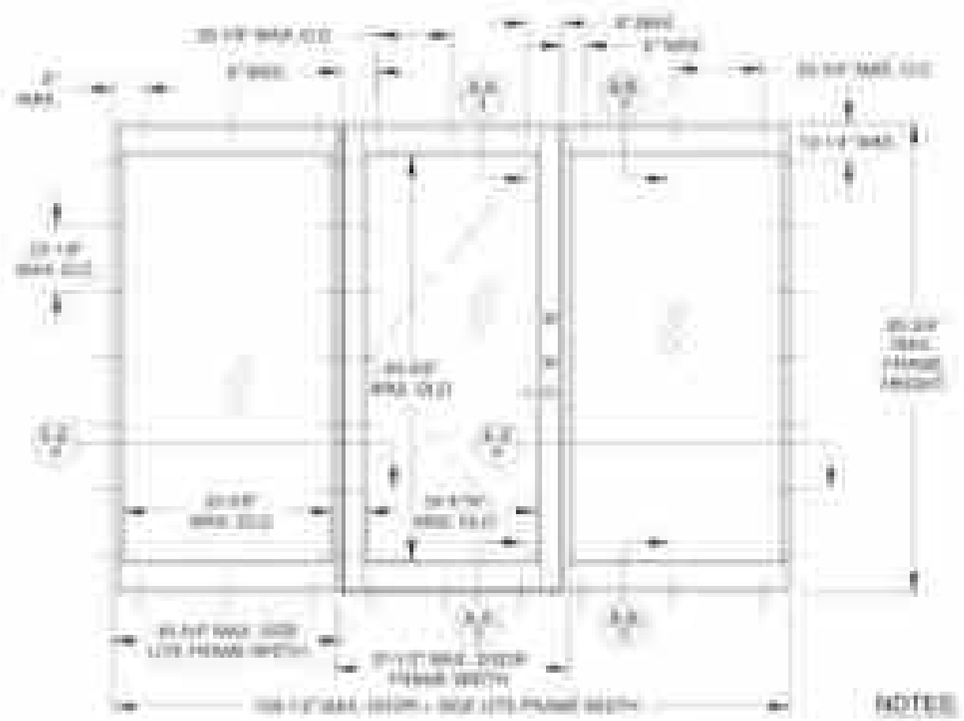
XO & OX DETAILS

PGT

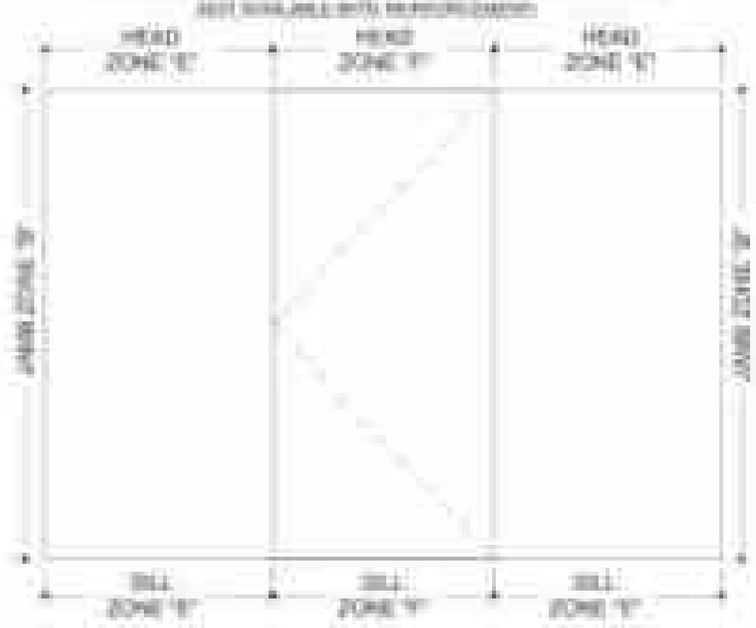
ANTHONY LYNN MILLER
LICENSE
No. 88705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

OXO: ALL GLASS TYPES

ASCHER TYPE & SUBSTRATE			E: S. WOOD S.4ACUM			LE: CONC.		
			LOAD ZONES					
MAX. ROUGH OPENING HEIGHT (MEAS.)	MAX. ROUGH OPENING WIDTH	MAX. FRAME HEIGHT	'A' ZONE	'B' ZONE	'C' ZONE	'A' ZONE	'B' ZONE	'C' ZONE
10.75	25.50	79.75	A	2	7	A	2	5
		83.75	A	2	7	A	2	5
		87.75	A	2	7	A	2	5
		91.75	A	2	7	A	2	5
		95.75	A	2	7	A	2	5
12.75	27.50	79.75	A	2	7	A	2	5
		83.75	A	2	7	A	2	5
		87.75	A	2	7	A	2	5
		91.75	A	2	7	A	2	5
		95.75	A	2	7	A	2	5
15.00	28.00	79.75	A	3	8	A	2	5
		83.75	A	3	8	A	2	5
		87.75	A	3	8	A	2	5
		91.75	A	3	8	A	2	5
		95.75	A	3	8	A	2	5
17.75	31.50	79.75	A	3	8	A	2	5
		83.75	A	3	8	A	2	5
		87.75	A	3	8	A	2	5
		91.75	5	3	8	A	2	5
		95.75	5	3	10	A	2	5
20.75	33.00	79.75	5	3	8	A	2	5
		83.75	5	3	8	A	2	5
		87.75	5	3	8	A	2	5
		91.75	6	3	10	A	2	5
		95.75	6	3	10	A	2	5
23.13	35.00	79.75	6	4	8	A	2	5
		83.75	6	4	8	A	2	5
		87.75	7	3	8	A	2	5
		91.75	7	3	10	A	2	5
		95.75	7	3	10	A	2	5
25.75	37.50	79.75	6	4	8	A	2	5
		83.75	6	4	8	A	2	5
		87.75	7	3	10	A	2	5
		91.75	7	3	10	A	2	5
		95.75	7	3	10	A	2	5



TYP. ELEVATION OF OXO CONFIGURATION



LOAD ZONES FOR OXO CONFIGURATION

Design Pressure	
Positive(psf)	N/A
Negative(psf)	See Sheet 2 Tables 1 & 4

NOTES:

1. SEE SHEET 1 FOR GLASS AND ASCHER TYPE DESCRIPTIONS.
2. HANDING ARE AS LEFT OR RIGHT HANDED.
3. ASCHER ID MARKINGS ARE SHOWN FOR SPACING AS FOLLOWS:
   - JAMBS: ALL: 10 1/4" MAX. FROM CORNERS AND 20 1/2" MAX. O.C.
   - HEAD & SILL: 10" (SIDES) 9" MAX. FROM CORNERS, & THEN EVENLY SPACED AT 20 1/2" MAX. O.C.
   - HEAD & SILL: 20" (SIDES LITES) 9" MAX. FROM CORNERS, AND 20 1/2" MAX. O.C.
4. FOR SIZES NOT SHOWN, REFER TO 1/2 THE SIZE AVAILABLE SIZE.
5. FOR ANCHORAGE INSTALLATION DETAILS SEE SHEETS 14 & 15.
6. CONFIGURATIONS SHOWING THE DOOR LOCATED AWAY IN SIDE LITE ARE NOT AVAILABLE WITH EGRESS HARDWARE.
7. SIDE LITE WIDTH MAY DIFFER BY 1/2" FROM ADJACENT.

PRODUCT REVISED
to comply with the Florida Building Code
NOA #: 23-0725.06
Expiration Date: 10/19/2027
By:
Miami-Dade Product Control

2) UPDATED TO 2023 BUILDING CODE
Add: 07/15/23

PGT

ENGINEERING

OXO DETAILS

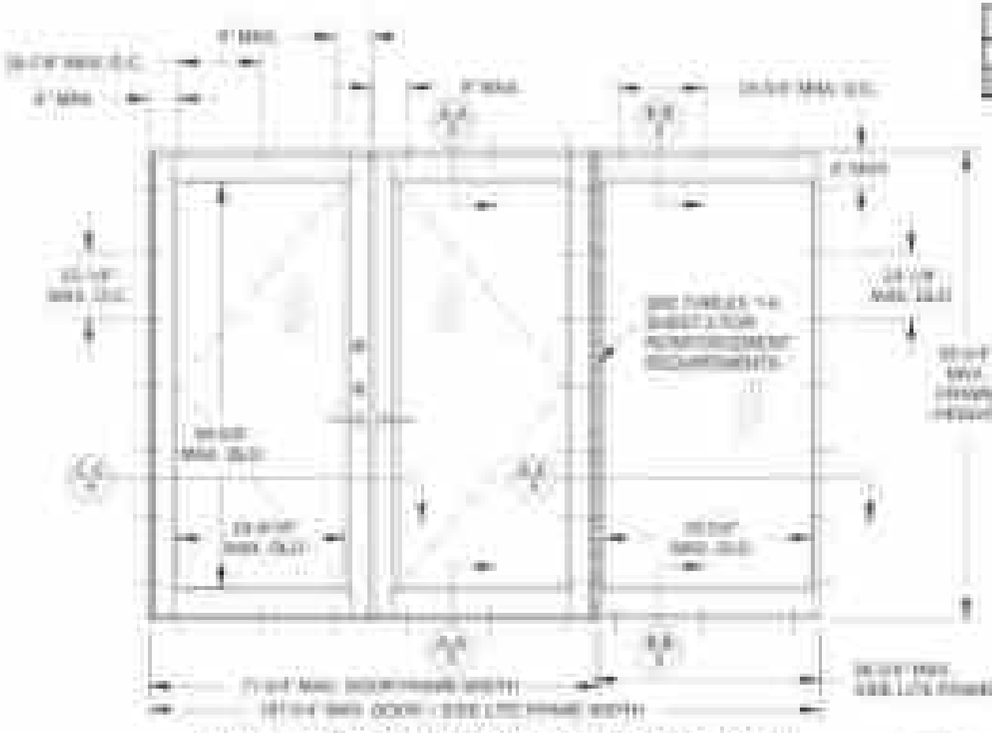
NO.	DATE
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2	10/19/23

ANTHONY LYNN MILLER
LICENSE
No. 89758
STATE OF FLORIDA
PROFESSIONAL ENGINEER

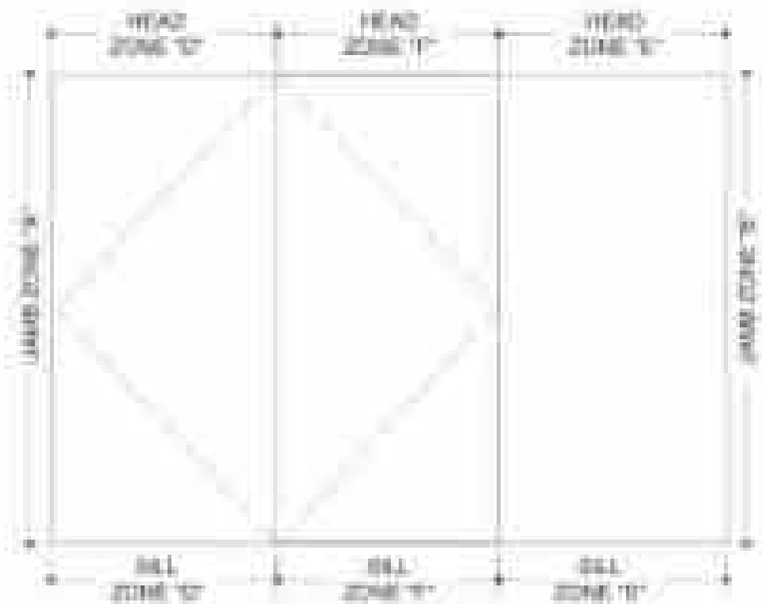
TABLE 1

XXO & OXX, ALL GLASS TYPES

MINIMUM TYPE & RUNNING FT			U.S. WIDE 3 HOUR					U.S. CODE				
			LOAD ZONES									
MIN. SIDE LITE FRAME WIDTH	MIN. TOP DOOR FRAME WIDTH	MAX FRAME HEIGHT	A 1.66 PSF	B 1.66 PSF	C 1.66 PSF	D 1.66 PSF	F 1.66 PSF	A 1.66 PSF	B 1.66 PSF	C 1.66 PSF	D 1.66 PSF	F 1.66 PSF
10.75	47.75	79.75	4	3	4	3	6	4	3	4	3	5
		83.75	4	3	5	4	7	4	3	4	3	5
		87.75	4	3	5	4	7	4	3	4	3	5
		91.75	4	3	5	4	7	4	3	4	3	5
		95.75	4	3	5	4	7	4	3	4	3	5
12.75	51.75	79.75	4	3	5	4	7	4	3	4	3	5
		83.75	4	3	5	4	7	4	3	4	3	5
		87.75	4	3	5	4	7	4	3	4	3	5
		91.75	4	3	5	4	7	4	3	4	3	5
		95.75	4	3	6	4	7	4	3	4	3	5
16.00	55.75	79.75	4	3	5	4	7	4	3	4	3	5
		83.75	4	3	5	4	7	4	3	4	3	5
		87.75	4	3	5	4	7	4	3	4	3	5
		91.75	4	3	6	4	7	4	3	4	3	5
		95.75	4	3	6	4	8	4	3	4	3	5
21.75	59.75	79.75	4	3	5	5	8	4	3	4	3	5
		83.75	4	3	5	5	8	4	3	4	3	5
		87.75	4	3	6	5	8	4	3	4	3	5
		91.75	5	3	6	5	9	4	3	4	3	5
		95.75	5	3	6	5	9	4	3	4	3	5
27.75	63.75	79.75	5	3	5	6	9	4	3	4	3	5
		83.75	5	3	6	6	9	4	3	4	3	5
		87.75	5	3	6	6	9	4	3	4	3	5
		91.75	5	3	6	6	9	4	3	4	3	5
		95.75	6	3	7	6	10	4	3	4	3	5
36.19	67.75	79.75	6	4	6	6	9	4	3	4	3	5
		83.75	6	4	6	6	9	4	3	4	3	5
		87.75	7	4	6	6	9	4	3	4	3	5
		91.75	7	5	7	6	10	4	3	4	3	5
		95.75	7	5	7	6	10	4	3	4	3	5
46.25	71.75	79.75	6	4	6	6	9	4	3	4	3	5
		83.75	6	4	6	6	9	4	3	4	3	5
		87.75	7	5	6	6	9	4	3	4	3	5
		91.75	7	5	7	6	10	4	3	4	3	5
		95.75	7	5	7	6	10	4	3	4	3	5



TYP. ELEVATION OF XXO CONFIGURATION



LOAD ZONES FOR XXO CONFIGURATION

Design Pressure	
Positive	Enter Design Pressure (+)
Negative	Enter Design Pressure (-)

NOTES:

1. SEE SHEET 1 FOR GLASS AND ANCHOR TYPE DESCRIPTIONS.
2. DOORS MAY BE LEFT OR RIGHT HANDED.
3. ANCHOR QUANTITIES ARE BASED ON SPACING AS FOLLOWS: 8" MAX. O.C. FOR CONCRETE, 6" MAX. O.C. FOR CMU.
   JAMBS: (SILL TO 12" MAX. FROM CORNERS AND 24" MAX. O.C.
   HEAD & SILL OF DOORS: 6" MAX. FROM CORNERS, 3" MAX. FROM MITERS, CENTERS 8" MAX. O.C.
   HEAD & SILL OF SIDE LITES: 6" MAX. FROM CORNERS AND 24" MAX. O.C.
4. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.
5. FOR ANCHORAGE INSTALLATION DETAILS SEE SHEETS 14 & 15.
6. CONFIGURATIONS WHERE THE DOOR LOCATION MEETS A SIDE LITE ARE NOT AVAILABLE WITH IMPACT RESISTANCE.
7. SIDE LITE OVERLAPS DOORS BY ONE FASTENER.

PRODUCT REVISED
to comply with the Florida Building Code
NOA #: 23-0725.06
Expiration Date: 04/18/2027
By:
Miami-Dade Product Control

2) UPDATED TO 2023 BUILDING CODE
Add - 07/19/23

PGT

ENGINEERING

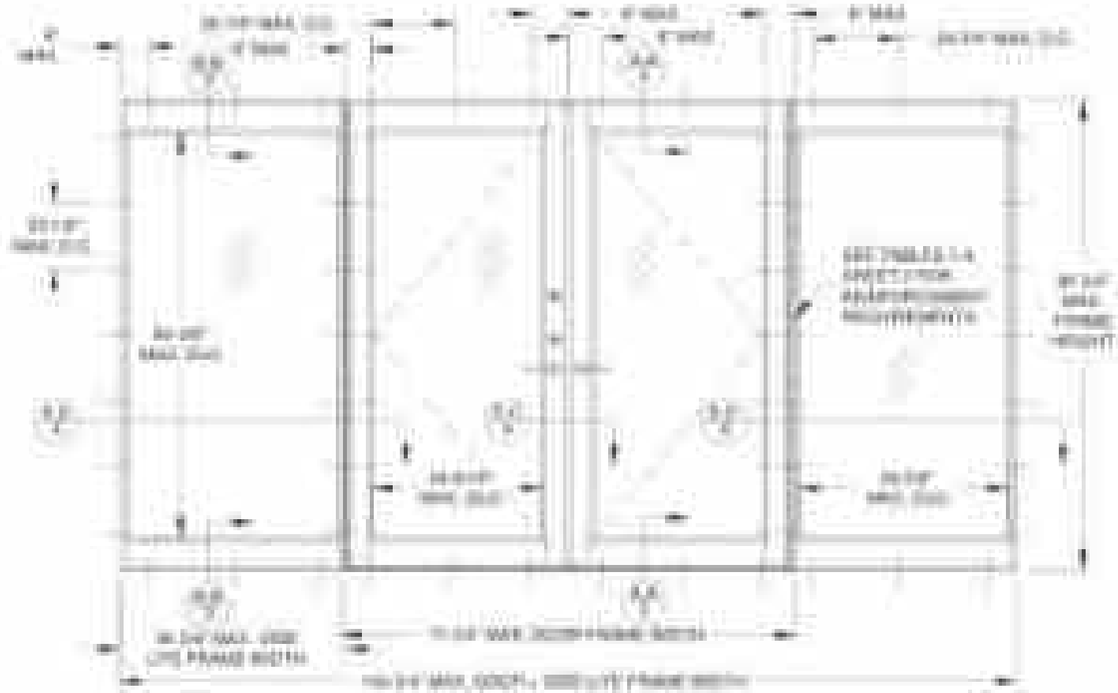
SHEET NO. 4 OF 15

ANTHONY LYNN MILLER
LICENSE
No. 69726
STATE OF FLORIDA
PROFESSIONAL ENGINEER

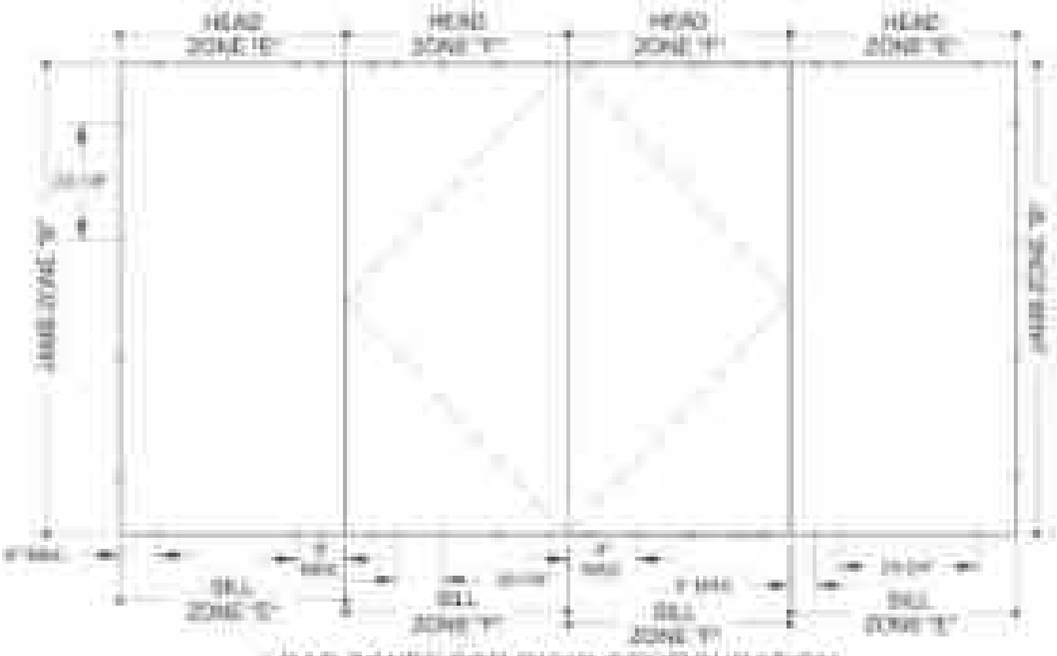
0X0, ALL GLASS TYPES

WINDOW TYPE & ALIGNMENT			U. S. WIND LOAD	U.K. CODE
			LOAD ZONES	
MAX. SIDE LITE FRAME WIDTH	MAX. TOP DOOR FRAME WIDTH	MAX. FRAME HEIGHT	A	B	C	A	B	C
12.75	47.75	79.75	4	3	6	4	3	5
		83.75	4	3	7	4	3	5
		87.75	4	3	7	4	3	5
		91.75	4	3	7	4	3	5
		95.75	4	3	7	4	3	5
12.75	51.75	79.75	4	3	7	4	3	5
		83.75	4	3	7	4	3	5
		87.75	4	3	7	4	3	5
		91.75	4	3	7	4	3	5
		95.75	4	3	7	4	3	5
19.69	55.75	79.75	4	3	7	4	3	5
		83.75	4	3	7	4	3	5
		87.75	4	3	7	4	3	5
		91.75	4	3	7	4	3	5
		95.75	4	3	8	4	3	5
21.75	59.75	79.75	4	3	8	4	3	5
		83.75	4	3	8	4	3	5
		87.75	4	3	8	4	3	5
		91.75	5	3	8	4	3	5
		95.75	5	3	8	4	3	5
27.75	63.75	79.75	5	3	8	4	3	5
		83.75	5	3	8	4	3	5
		87.75	5	3	8	4	3	5
		91.75	6	3	8	4	3	5
		95.75	6	3	10	4	3	5
36.13	67.75	79.75	6	4	8	4	3	5
		83.75	6	4	8	4	3	5
		87.75	7	5	8	4	3	5
		91.75	7	5	10	4	3	5
		95.75	7	5	10	4	3	5
36.75	71.75	79.75	6	4	8	4	3	5
		83.75	6	4	8	4	3	5
		87.75	7	5	8	4	3	5
		91.75	7	5	10	4	3	5
		95.75	7	5	10	4	3	5

ANCHOR QUANTITIES FOR THE DOOR AND SIDE LITE TO BE DETERMINED INDEPENDENTLY.



TYP. ELEVATION OF 0X0 CONFIGURATION



LOAD ZONES FOR 0X0 CONFIGURATION
& ANCHORAGE LAYOUT USED IN EXAMPLE

NOTES:

1) SEE SHEET 1 FOR GLASS AND ANCHOR TYPE DESCRIPTIONS.

2) DOOR MAY BE LEFT OR RIGHT HANDED.

3) ANCHOR QUANTITIES ARE BASED ON GLASS ALLOCATION OF MAX. LLL 40 PSF (2394 Pa) PER ASTM E1300. FOR OTHER GLASS ALLOCATIONS OR LOADS, CONTACT PGT FOR ANCHORAGE REQUIREMENTS.

4) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.

5) FOR ANCHORAGE INSTALLATION DETAILS SEE SHEETS 14 & 15.

6) CONFIGURATIONS WHERE THE DOOR LEAF(S) OR UNITS ADJACENT TO A SIDE LITE ARE NOT AVAILABLE WITH AN IMPACT RATING.

7) SIDE LITE SHOWN ARE DOOR BY 3-4" (1143) ASSEMBLIES.

EXAMPLE:
[illegible]

DOOR ANCHOR REQUIREMENTS FROM TABLE 1-1:
4 ANCHORS @ EACH SIDE LITE JAMB
2 ANCHORS EACH DOOR PANEL @ HEAD
2 ANCHORS EACH DOOR PANEL @ SILL
2 ANCHORS EACH SIDE LITE @ HEAD
2 ANCHORS EACH SIDE LITE @ SILL

SEE 2 PSI (13) VALUES ON TABLE 1-1

= DENOTES ANCHOR LOCATION

REVISIONS		
[illegible]	[illegible]	[illegible]

PRODUCT REVISED
to complying with the Florida Building Code
NOA No. [illegible]
Expiration Date: 10/13/2017
By: [illegible]
Miami-Dade Product Control

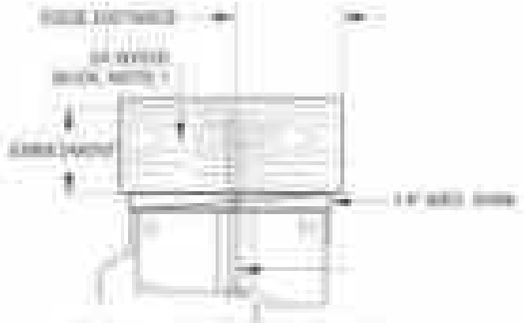
2) UPDATED TO 2023 BUILDING CODE

Add: 07/15/23

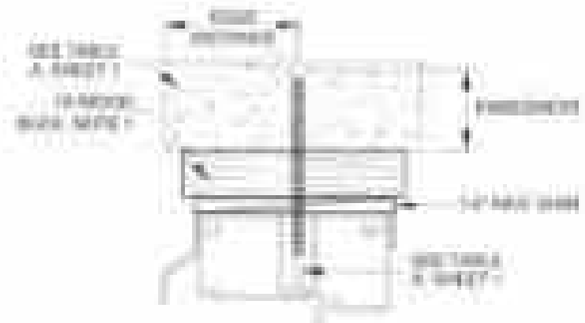
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SLIDING
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DRAWING NO.
SCALE
SHEET NO.
REVISED
DATE

PGT

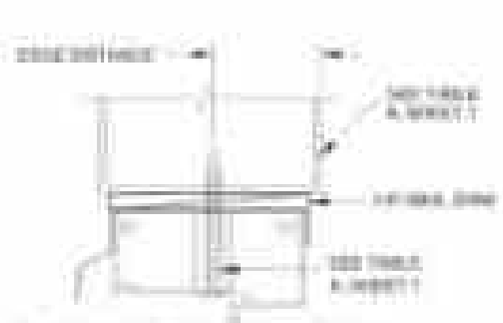
ANTHONY LYNN MILLER
LICENSE
No. [illegible]
STATE OF FLORIDA
PROFESSIONAL ENGINEER



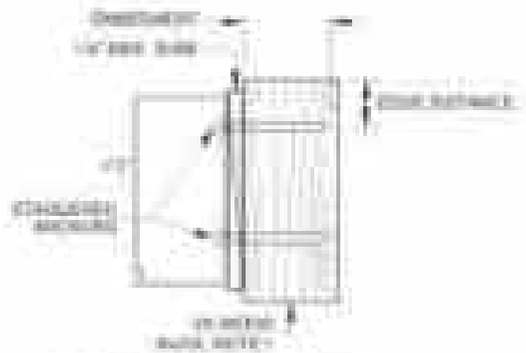
DOOR HEAD (WOOD)



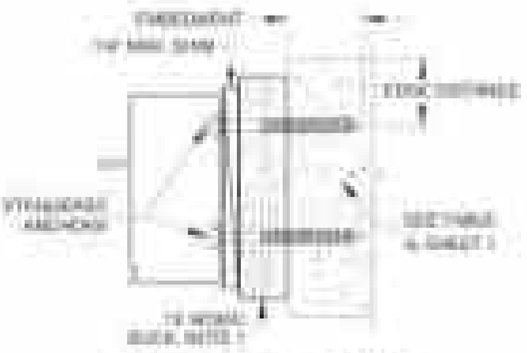
DOOR HEAD (CONC)



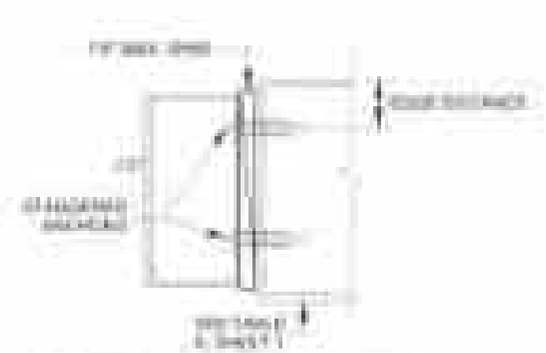
DOOR HEAD (ALUMINUM)



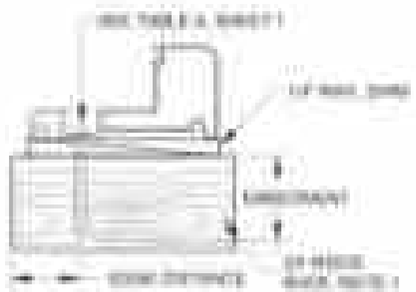
DOOR JAMB (WOOD)



DOOR JAMB (CONC)



DOOR JAMB (ALUMINUM)



DOOR SILL (WOOD)



DOOR SILL (CONC)



DOOR SILL (ALUMINUM)

1. WOOD BUCKS DEPICTED AS ½ ARE LESS THAN 1 1/2" THICK, ½ WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE OR CMU. WOOD BUCKS DEPICTED AS 1½ ARE 1 1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ).

2. IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON SHRINK, NON METALLIC GROUT (5000 PSI MIN.), (DONE BY OTHERS) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE. IF SUBSTRATE IS WOOD, 30# FELT PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

3. TYP. ANCHOR TYPE, EMBEDMENT & EDGE DISTANCE PER SUBSTRATE, SEE TABLE A, SHEET 1.

EXTERIOR INTERIOR
(ALL HEAD & SILL SECTIONS)

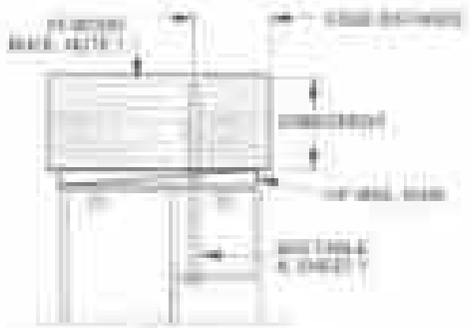
PRODUCT REVISED
In compliance with the Florida Building Code
NOA No. 23-0228.06
Expiration Date: 10/19/2027
By:
Miami-Dade Product Control

2) UPDATED TO 2023 BUILDING CODE
Add - 07/19/23

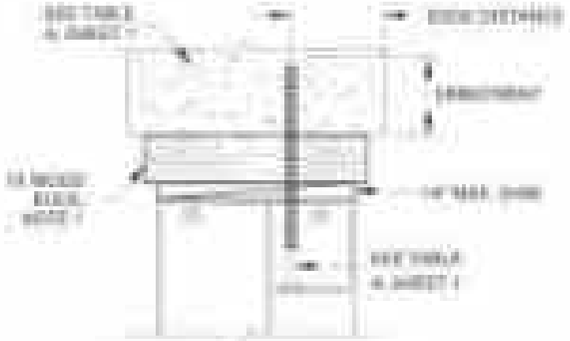
	ENGINEERING	07/19/23	
	2) UPDATED TO 2023 BUILDING CODE	07/19/23	
	1) ADDED SILL DETAILS	05/19/23	
	ADDED METAL DETAILS	01/19/23	
	ADDED FRENCH DOOR & SIDE LITE	11/19/22	
	ADDED WOOD DETAILS	10/19/22	

PGT

ANTHONY LYNN MILLER
LICENSE
No. 88709
STATE OF FLORIDA
PROFESSIONAL ENGINEER



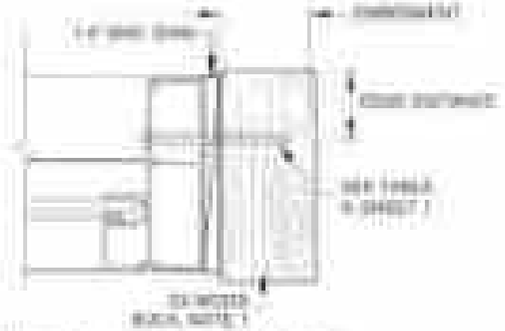
SIDE LITE HEAD (WOOD)



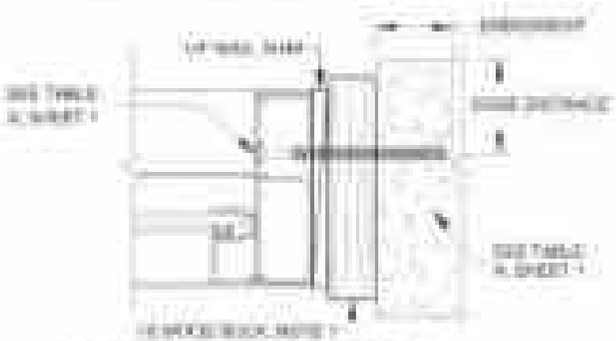
SIDE LITE HEAD (CONC)



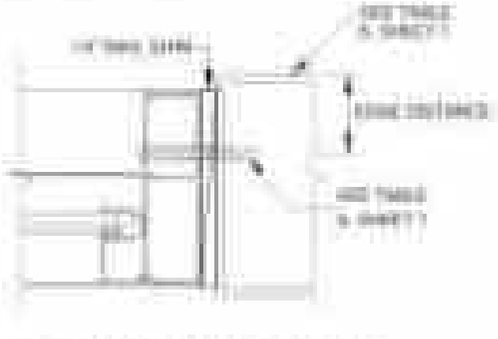
SIDE LITE HEAD (ALUMINUM)



SIDE LITE JAMB (WOOD)



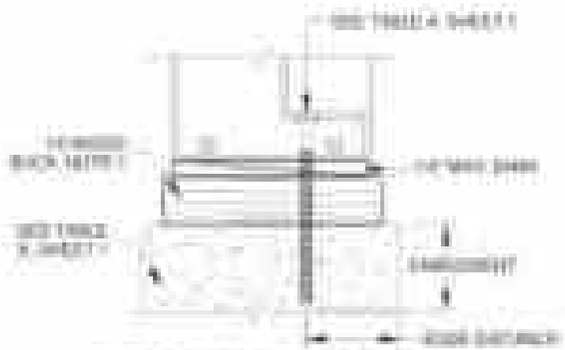
SIDE LITE JAMB (CONC)



SIDE LITE JAMB (ALUMINUM)



SIDE LITE SILL (WOOD)



SIDE LITE SILL (CONC)



SIDE LITE SILL (ALUMINUM)

1. WOOD BUCKS DEPICTED AS ½ ARE LESS THAN 1 1/2" THICK. ½ WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE OR CMU. WOOD BUCKS DEPICTED AS 1½ ARE 1 1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ).

2. IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT (2000 PSI MIN.), (DONE BY OTHERS) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE. IF SUBSTRATE IS WOOD, 30# FELT PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

3. TYP. ANCHOR TYPE, EMBEDMENT & EDGE DISTANCE PER SUBSTRATE, SEE TABLE A, SHEET 1.

EXTERIOR INTERIOR
(ALL HEAD & SILL SECTIONS)

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ENGINEERING
SIDE LITES
HEAD, JAMB & SILL DETAILS
SIDE LITES INSTALL DETAILS
PGT
07/19/23

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