



IDENTIFY / COMPARE WZ3 VS HVHZ ZONES & UNDERSTAND PRODUCT APPLICATIONS



Course Number EWAIACES08
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COURSE DESCRIPTION

THIS COURSE FOCUSES ON:

Types of Door Systems

Door Hardware

Benefits and Applications

This seminar provides an overview of large opening glass wall systems, their structurally engineered components, and how they provide a perfect solution for large openings in coastal areas for commercial and residential applications.

LEARNING OBJECTIVES

At the end
of this course,
participants
will be able to:



Discuss what HVHZ and WZ3 means and what parts of the southeast are affected



Discuss the testing requirements for HVHZ and WZ3 areas



Understanding Florida Product Approval / NOA (Notice of Acceptance)



Discuss product solutions for HVHZ and WZ3 zones

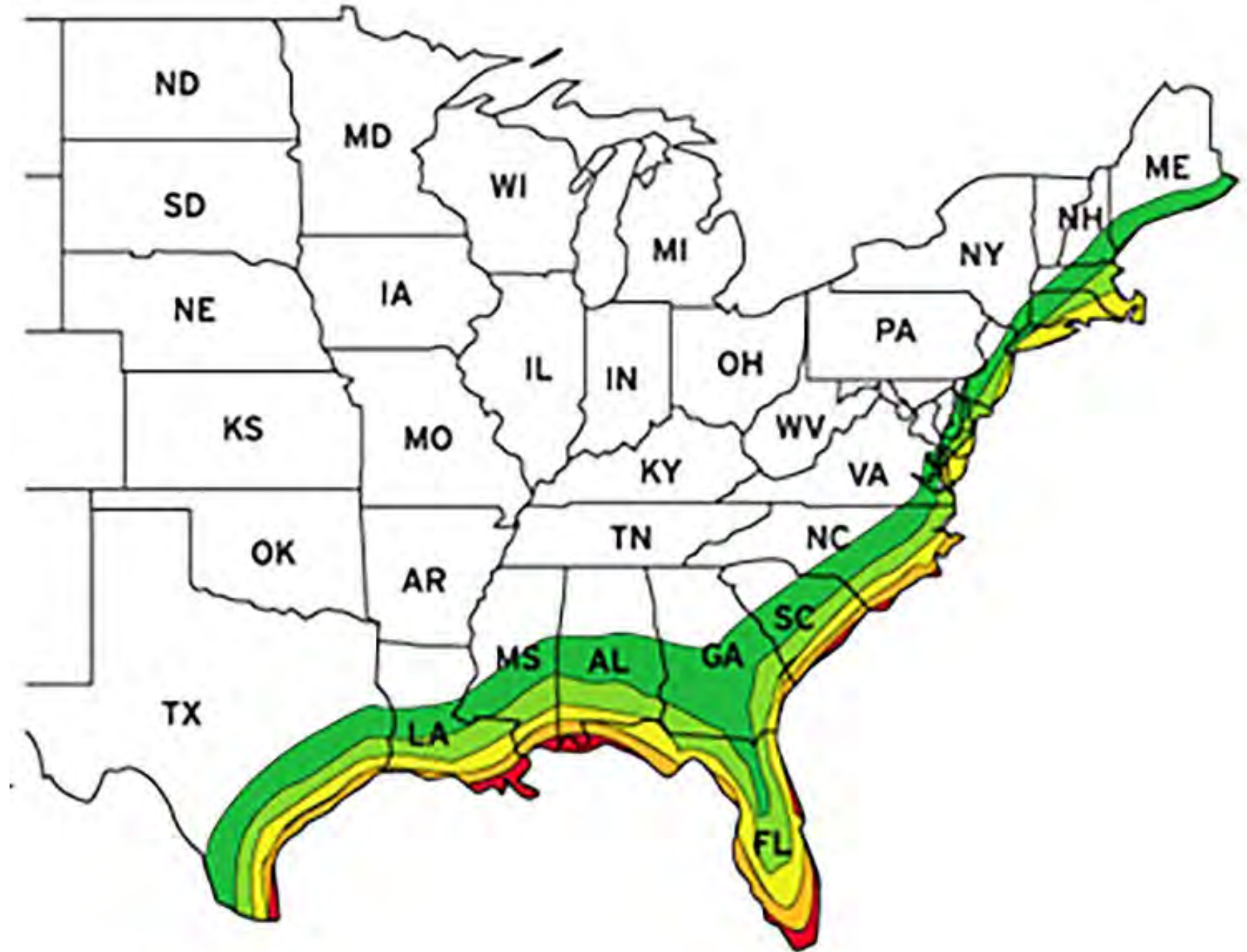
OBJECTIVE #1



Discuss what
HVHZ and WZ3
means and
what parts of
the southeast
are affected

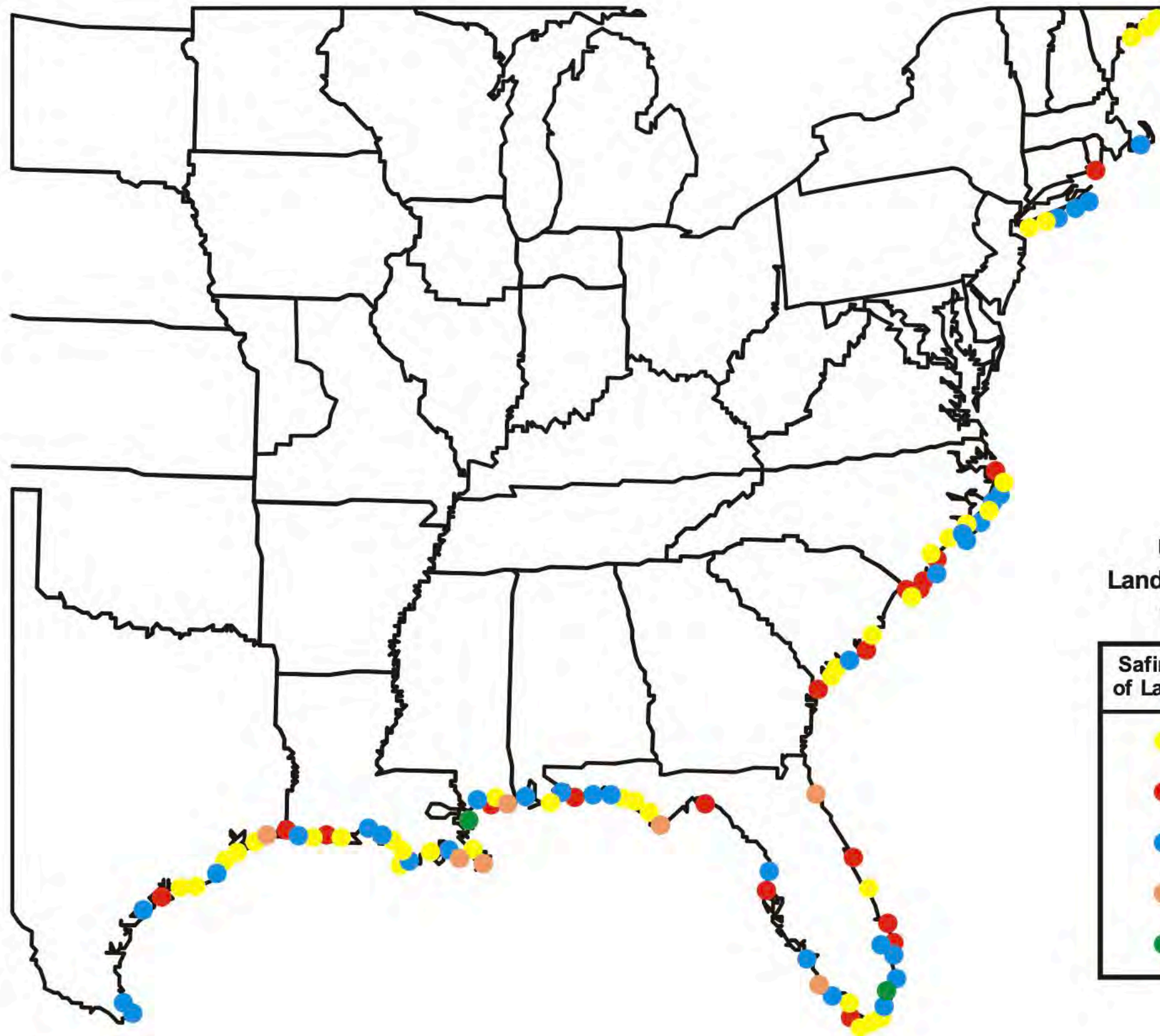
OBJECTIVE #1

HVHZ / WZ3



OBJECTIVE #1

HVHZ / WZ3



United States
Landfalling Hurricanes
1950-2005

Safir-Simpson Category
of Landfalling Hurricanes

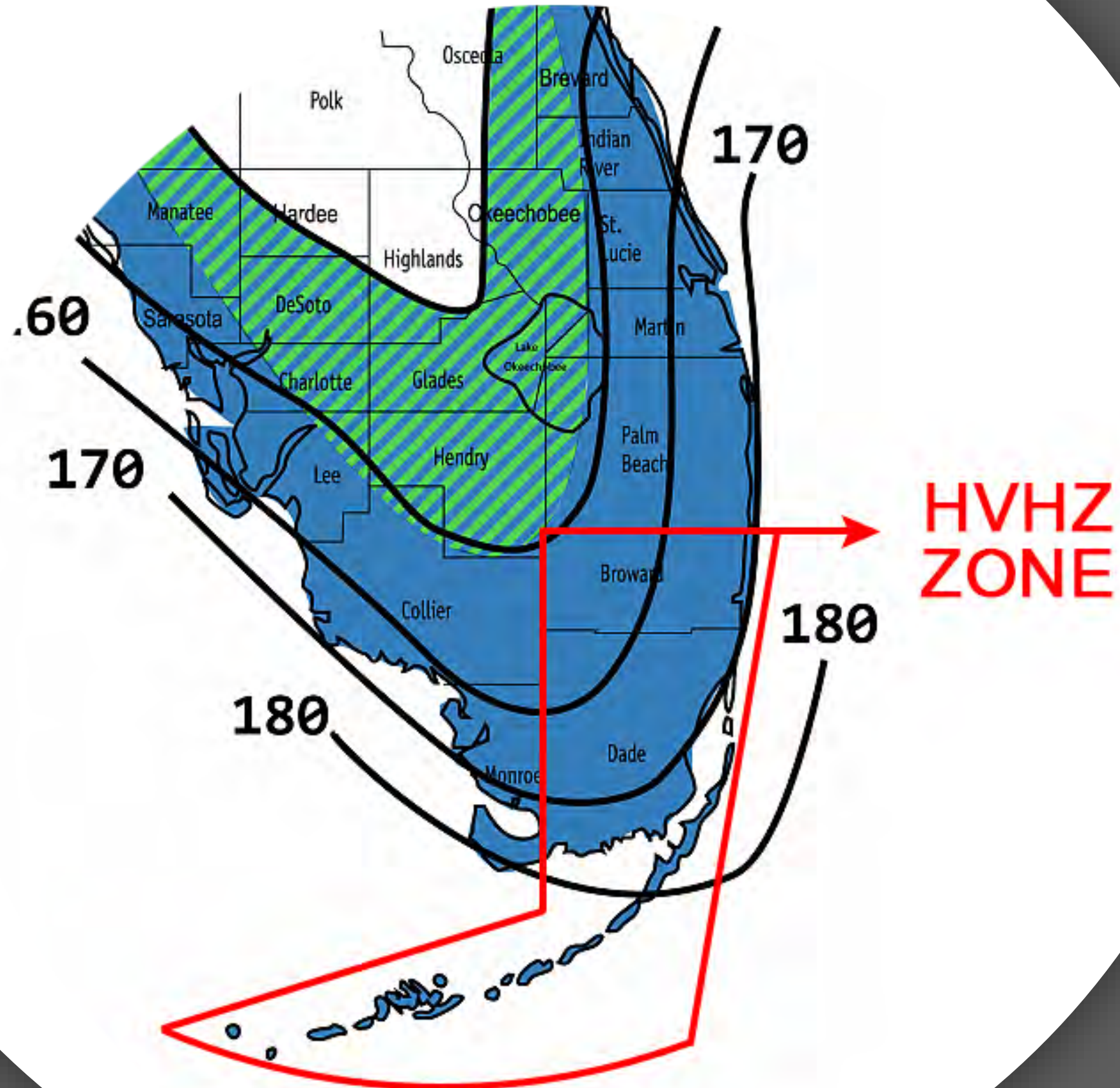
- Category 1
- Category 2
- Category 3
- Category 4
- Category 5

HVHZ



OBJECTIVE #1

HVHZ



OBJECTIVE #1

HVHZ / WZ3



OBJECTIVE #1

HVHZ / WZ3



OBJECTIVE #1

HVHZ / WZ3










OBJECTIVE #2








Discuss the
testing
requirements
for HVHZ and
WZ3 areas



Impact Test Requirements

		Large Missile (● Impact Location)			
Missile  2" X 4" Lumber	ASTM E-1996 Level B 2lb @ 50 f/s Level C 4.5lb @ 50 f/s Level D 9lb @ 50 f/s Level E 9lb @ 50 f/s				Pass/Fail • No Tear Permitting a 3" Sphere to Pass Through • No Tear Longer than 5"
	TAS 201 (HVHZ) 9lb @ 50 f/s				Pass/Fail • No Tear Longer than 5" and 1/16" in Width

Impact Test Requirements

		Small Missile (● Impact Location)		
Missile  (10) 2 Gram Steel Balls	ASTM E-1996 2g @ 130 f/s			 Pass/Fail <ul style="list-style-type: none"> • No Tear Permitting a 3" Sphere to Pass Through • No Tear Longer than 5"
	TAS 201 (HVHZ) 2g @ 130 f/s			 Pass/Fail <ul style="list-style-type: none"> • No Tear Longer than 5" and 1/16" in Width

OBJECTIVE #2

TESTING

- Florida Building Code Approved
- TAS 201 TAS 202 TAS 203
- Approved for use in HVHZ (Miami-Dade Zones)
- AAMA / WDMA / CSA 101 / I.S.2 / A440-08 • NASF-08
- Air Infiltration
- Water Leakage Resistance
- Wind Load Resistance
- Wind Zone 4 (Hurricane) ASTM (Cycling) E1996
- Wind Zone 4 (Hurricane) ASTM (Impact) E1886

OBJECTIVE #2

TESTING

Approved for use in Miami-Dade HVHZ Zones



OBJECTIVE #2

TESTING

Approved for use in Miami-Dade HVHZ Zones

OBJECTIVE #2

TESTING

Approved for use in Miami-Dade HVHZ Zones

OBJECTIVE #2

TESTING

Approved for use in Miami-Dade HVHZ Zones



OBJECTIVE #2

TESTING



OBJECTIVE #3



Understanding
Florida Product
Approval / NOA
(Notice of
Acceptance)

OBJECTIVE #3

FPA / NOA

GENERAL NOTES:

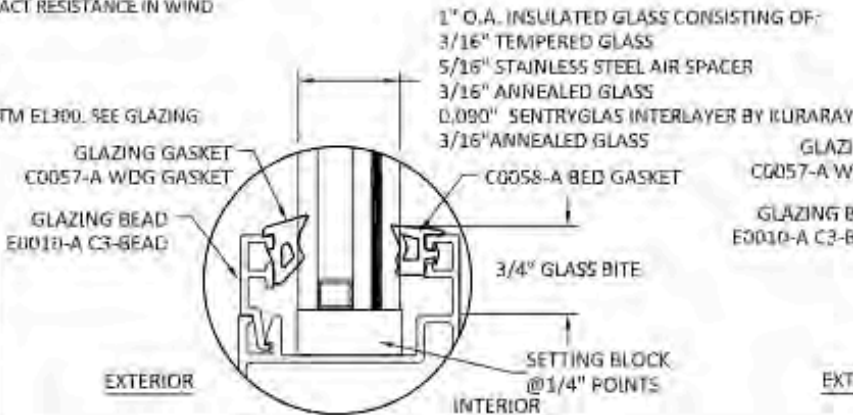
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - ▶ ASTM C884-05
 - ▶ ASTM E1896-13a
 - ▶ ASTM E1996-17
 - ▶ TAS 201-94
 - ▶ TAS 202-94
 - ▶ TAS 203-94
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 3 OR LESS.
6. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4.
7. FRAME MATERIAL: ALUMINUM 6063-T5.
8. GLASS MEETS THE REQUIREMENTS OF ASTM E1300. SEE GLAZING DETAILS ON SHEETS L & 2.

GLAZING NOTES:

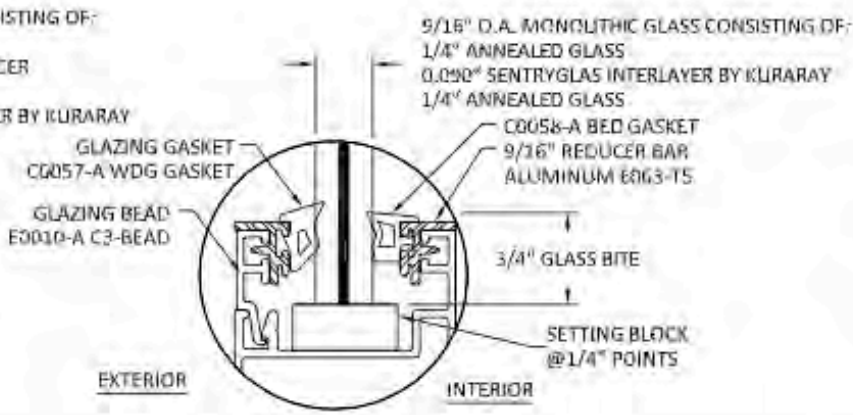
1. GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS.
2. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
3. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
4. GLASS TYPE SHALL COMPLY WITH APPLICABLE GLAZING REQUIREMENTS PER CHAPTER 24 OF THE FBC.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL NOTES AND GLAZING DETAILS
2	GLAZING DETAILS
3	ELEVATIONS
4	ANCHOR LAYOUTS AND DESIGN PRESSURE TABLE
5	VERTICAL SECTIONS
6	VERTICAL SECTIONS
7	HORIZONTAL SECTIONS
8	ANCHOR DETAILS

FRAME SIZE	DESIGN PRESSURE	MISSILE IMPACT RATING
SEE SHEET 3 & 4	SEE SHEET 4	LARGE & SMALL MISSILE IMPACT



GLAZING DETAIL 1



GLAZING DETAIL 2

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REMARKS	BY	DATE
ADD 12' HEIGHT DOOR	MS	06/21

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Reason: I am approving this document
Date: 2023.06.15 12:41:30 -0400

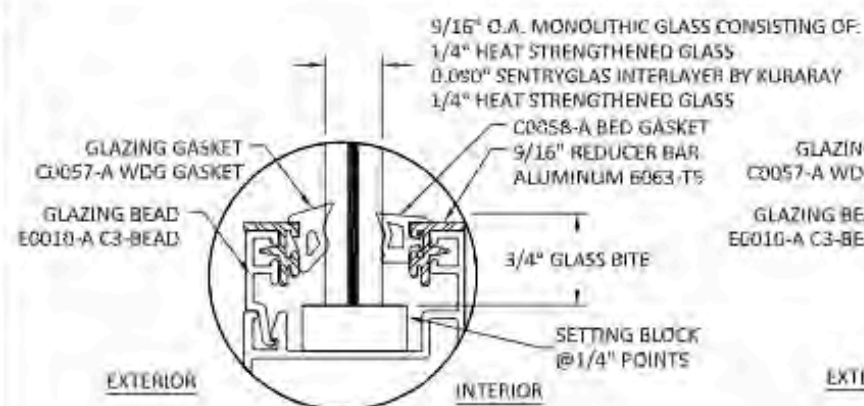


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DWG. BY:	LL
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SCALE:	NTS
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SHEET	

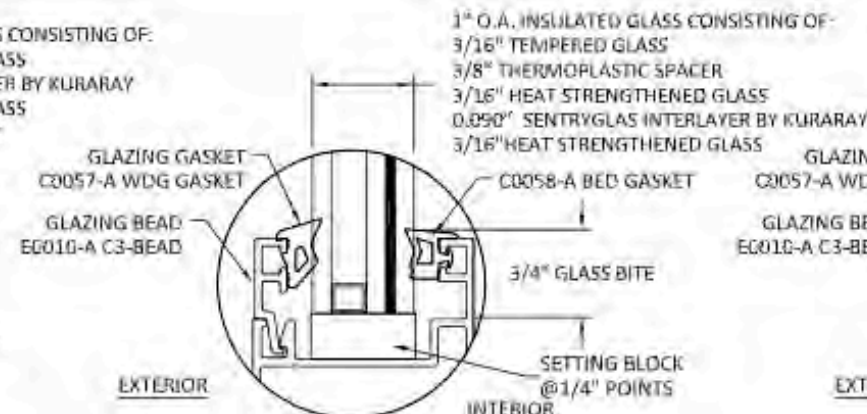
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OBJECTIVE #3

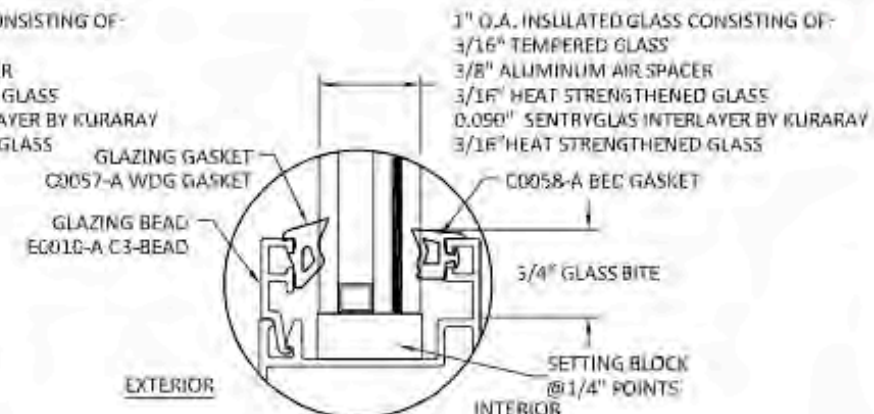
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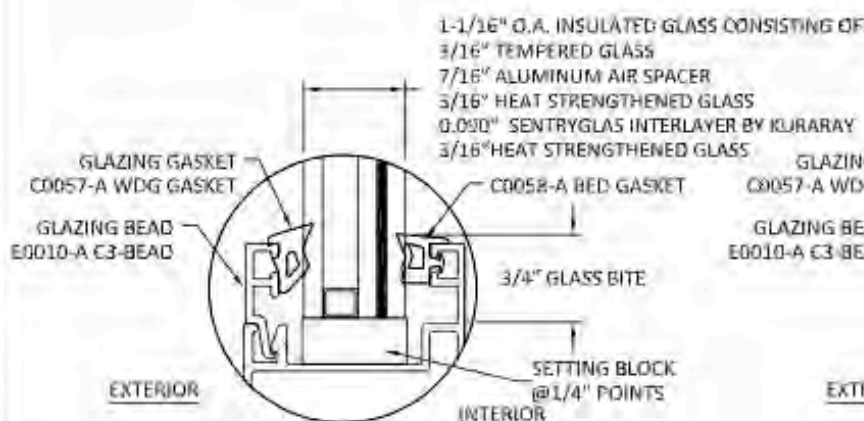
GLAZING DETAIL 3



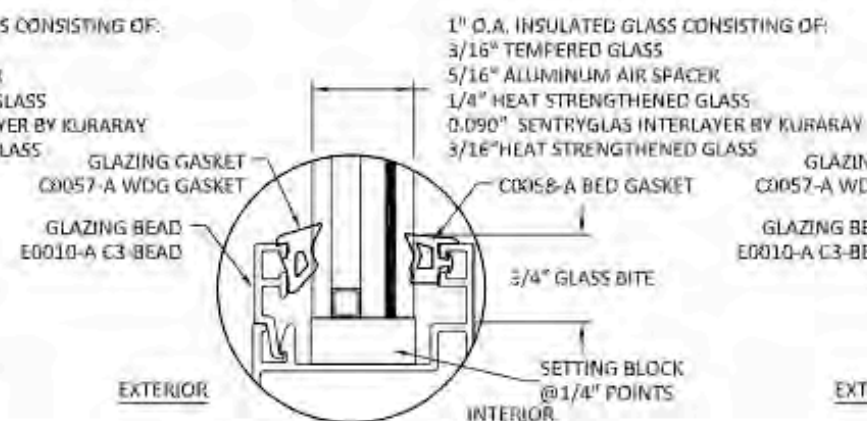
GLAZING DETAIL 4



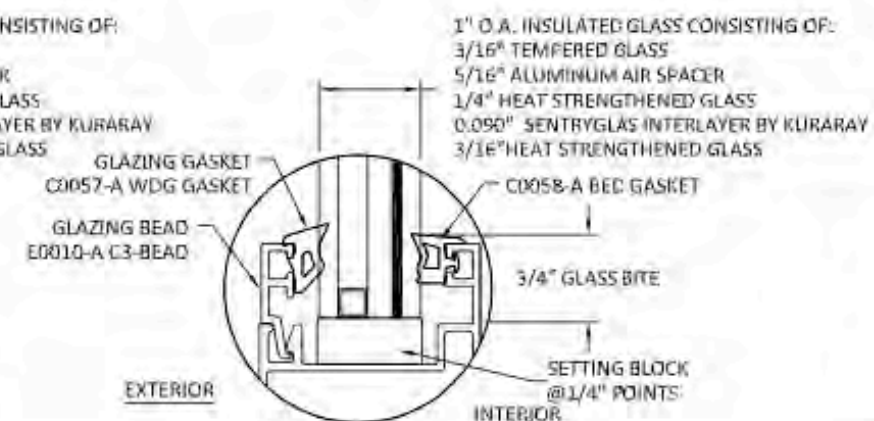
GLAZING DETAIL 5



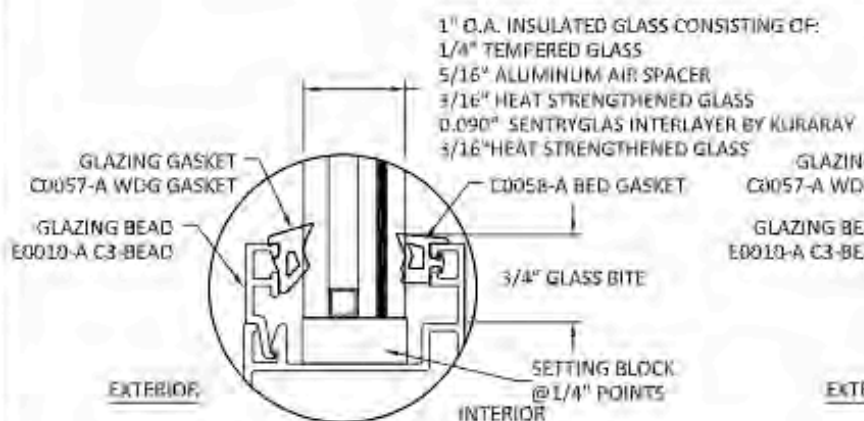
GLAZING DETAIL 6



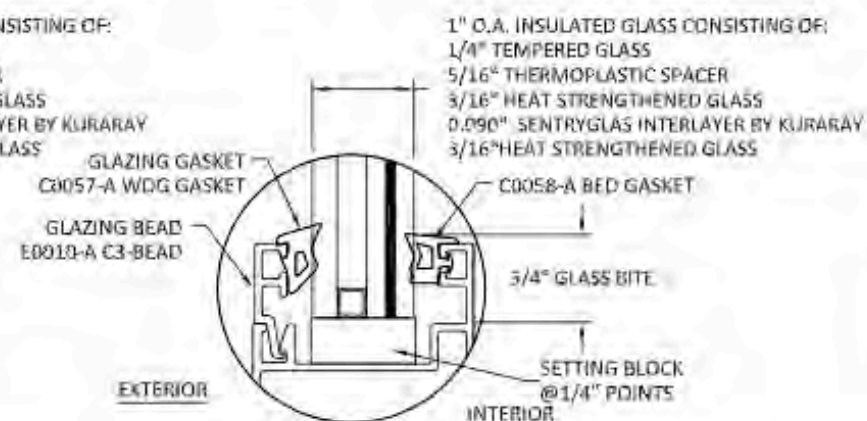
GLAZING DETAIL 7



GLAZING DETAIL 8



GLAZING DETAIL 9



GLAZING DETAIL 10

- GLAZING NOTES:**
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 4. GLASS TYPE SHALL COMPLY WITH APPLICABLE GLAZING REQUIREMENTS PER CHAPTER 24 OF THE FBC

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REMARKS	BY	DATE
ADD 12' HEIGHT DOOR	MS	06/21

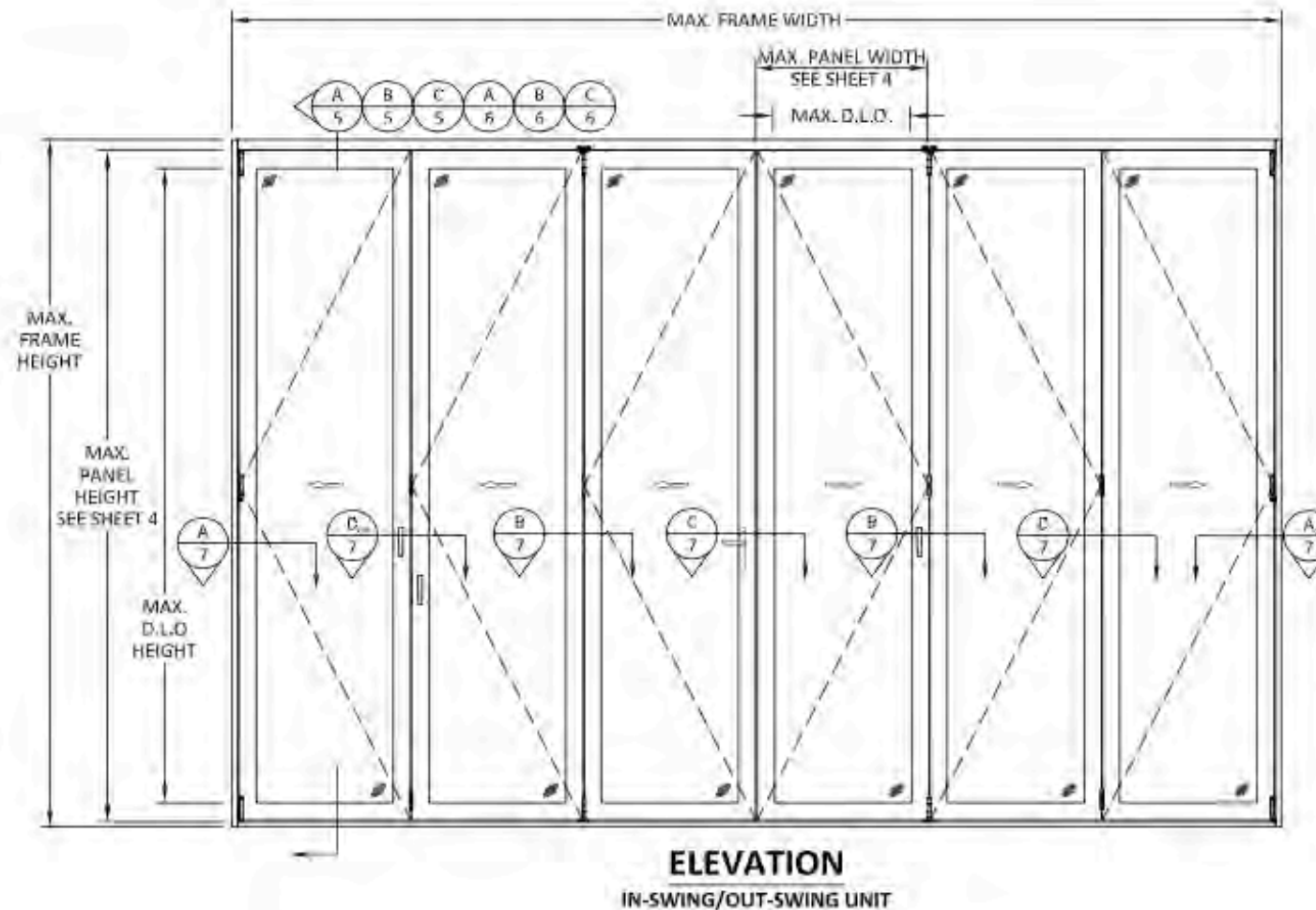
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SHEET	2

OBJECTIVE #3

FPA / NOA



D.L.O. HEIGHT = PANEL HEIGHT - 5.625"

D.L.O. WIDTH = PANEL WIDTH - 6.25"

NOTE:
PANELS SHOWN ARE BASED ON TESTING, OTHER APPROVED CONFIGURATIONS ARE AS FOLLOWS:

- 1 PANEL - 1L, 1R
- 2 PANEL - 2L, 2R, 1L 1R
- 3 PANEL - 3L, 3R, 2L 1R, 1L 2R
- 4 PANEL - 4L, 4R, 3L 1R, 1L 3R, 2L 2R
- 5 PANEL - 5L, 5R, 4L 1R, 1L 4R, 3L 2R, 2L 3R
- 6 PANEL - 6L, 6R, 5L 1R, 1L 5R, 4L 2R, 2L 4R, 3L 3R
- 7 PANEL - 7L, 7R, 6L 1R, 1L 6R, 5L 2R, 2L 5R, 4L 3R, 3L 4R
- 8 PANEL - 8L, 8R, 7L 1R, 1L 7R, 6L 2R, 2L 6R, 5L 3R, 3L 5R, 4L 4R
- 9 PANEL - 9L, 9R, 8L 1R, 1L 8R, 7L 2R, 2L 7R, 6L 3R, 3L 6R, 5L 4R, 4L 5R

FOR DOOR WITH GLASS TYPE 1 & 2, OVERALL FRAME AREA SHALL NOT EXCEED 415 FT² (1.5 X TESTED FRAME AREA).

FOR DOOR WITH GLASS TYPE 3, 4, 5, 6, 7, 8, 9, & 10, OVERALL FRAME AREA SHALL NOT EXCEED 334 FT² (1.5 X TESTED FRAME AREA).

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REMARKS	BY	DATE
ADD 12' HEIGHT DOOR	MS	06/21

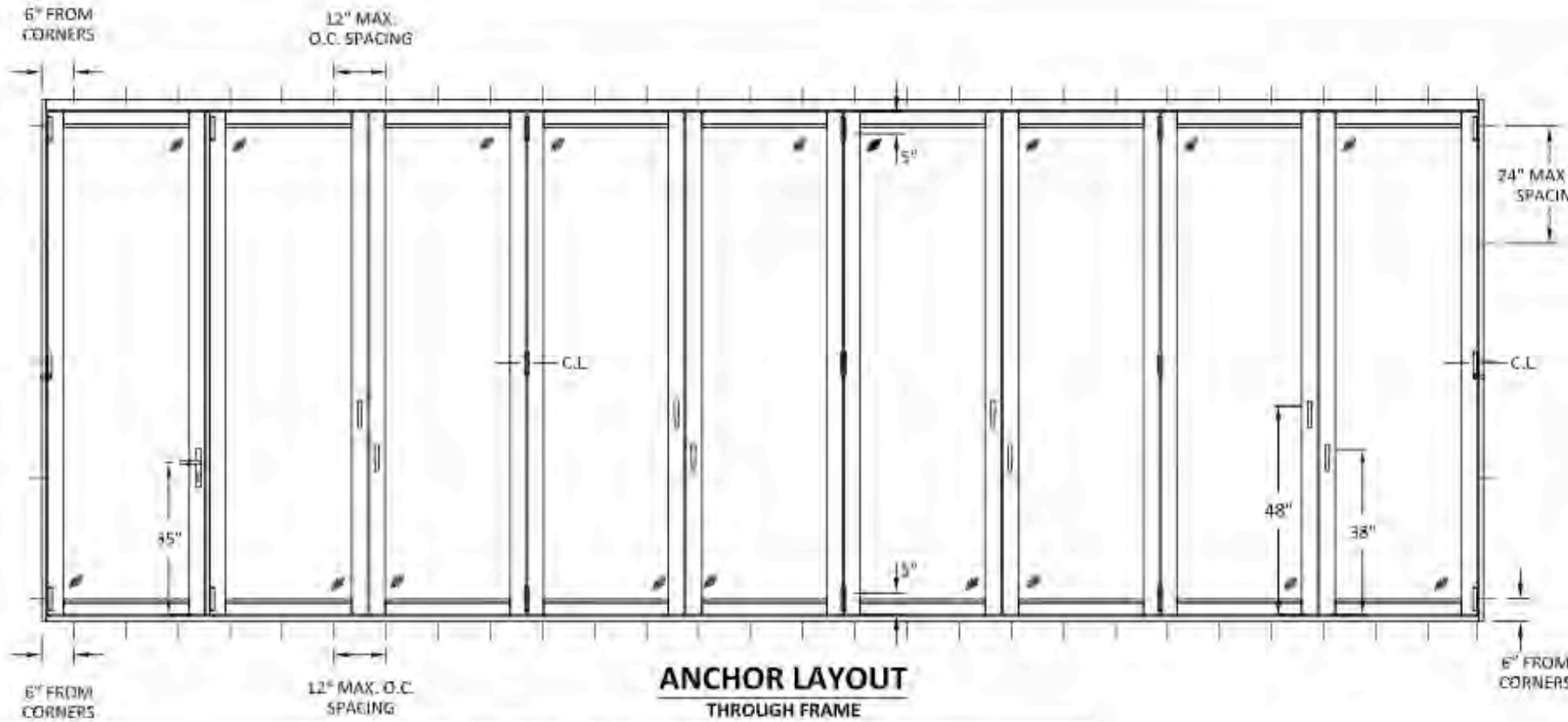
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SHEET	3

OBJECTIVE #3

FPA / NOA



NOTE:
FOR MORE ANCHOR INFORMATION (INSTALLATION TYPE, SPACING, QUANTITY, ANCHOR TYPE, QUALIFIED SUBSTRATES) SEE SHEET #

NOTE:
THE WALL CENTER PIVOT AND CENTER HINGE IS NOT REQUIRED WHEN THE DOOR HEIGHT IS LESS THAN 72"

G1/G2 DESIGN PRESSURE TABLE (+/- PSF) FOR IN-SWING DOOR

PANEL HEIGHT (INCHES)	NOMINAL PANEL WIDTH (INCHES)									
	20.0	24.0	28.0	32.0	36.0	40.0	44.0	48.0	52.0	
96.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	
102.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	
108.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	
114.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	
120.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	
126.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	
132.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	
138.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	
144.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	
150.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	
156.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	
162.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	
168.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	+60.0/-65.0	

NOTE: APPLIES TO RADIUSSED AND SEGMENTED INSTALLATIONS.

G1/G2 DESIGN PRESSURE TABLE (+/- PSF) FOR OUT-SWING DOOR

PANEL HEIGHT (INCHES)	NOMINAL PANEL WIDTH (INCHES)									
	20.0	24.0	28.0	32.0	36.0	40.0	44.0	48.0	52.0	
96.0	100.0	100.0	100.0	100.0	100.0	75.0	+65.0/-65.0	+65.0/-65.0	+65.0/-65.0	
102.0	100.0	100.0	100.0	98.7	88.6	75.0	+65.0/-65.0	+65.0/-65.0	+65.0/-65.0	
108.0	100.0	100.0	93.8	82.8	75.0	+65.0/-65.0	+65.0/-65.0	+65.0/-65.0	+65.0/-65.0	
114.0	100.0	92.2	79.5	75.0	75.0	+65.0/-65.0	+65.0/-65.0	+65.0/-65.0	+65.0/-65.0	
120.0	94.2	79.5	75.0	75.0	+64.6/-65.0	+58.6/-63.5	-	-	-	
126.0	81.3	75.0	74.4	65.5	+55.6/-60.2	+50.4/-54.6	-	-	-	
132.0	75.0	75.0	64.6	+53.9/-58.4	+48.2/-52.2	-	-	-	-	
138.0	75.0	65.6	56.5	+47.1/-51.0	+42.1/-45.6	-	-	-	-	
144.0	69.0	57.7	49.6	+41.4/-44.8	-	-	-	-	-	
150.0	61.0	51.0	43.8	+36.5/-39.6	-	-	-	-	-	
156.0	54.2	45.3	+36.9/-40.0	+32.4/-35.1	-	-	-	-	-	
162.0	48.3	40.4	+32.9/-35.7	-	-	-	-	-	-	
168.0	43.3	36.2	+29.5/-32.0	-	-	-	-	-	-	

NOTE: APPLIES TO RADIUSSED AND SEGMENTED INSTALLATIONS.

G3/G4/G5/G6/G7/G8/G9/G10 DESIGN PRESSURE TABLE (+/- PSF)

PANEL HEIGHT (INCHES)	NOMINAL PANEL WIDTH (INCHES)									
	20.0	24.0	28.0	32.0	36.0	40.0	44.0	48.0	52.0	
96.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	
102.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	
108.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	
114.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	
120.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	
126.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	
132.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	
138.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	
144.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	
150.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	
156.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	
162.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	
168.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	

NOTE: APPLIES TO RADIUSSED AND SEGMENTED INSTALLATIONS.

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REMARKS	BY	DATE
ADD 12" HEIGHT DOOR	MS	06/21

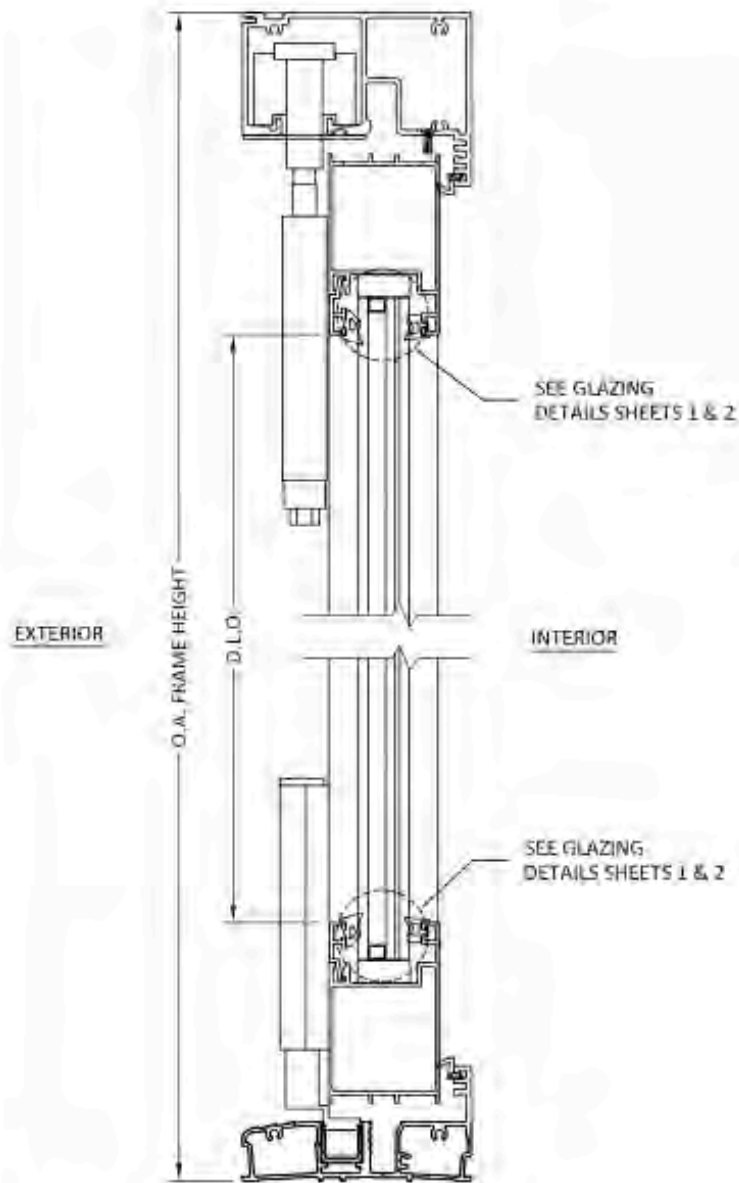
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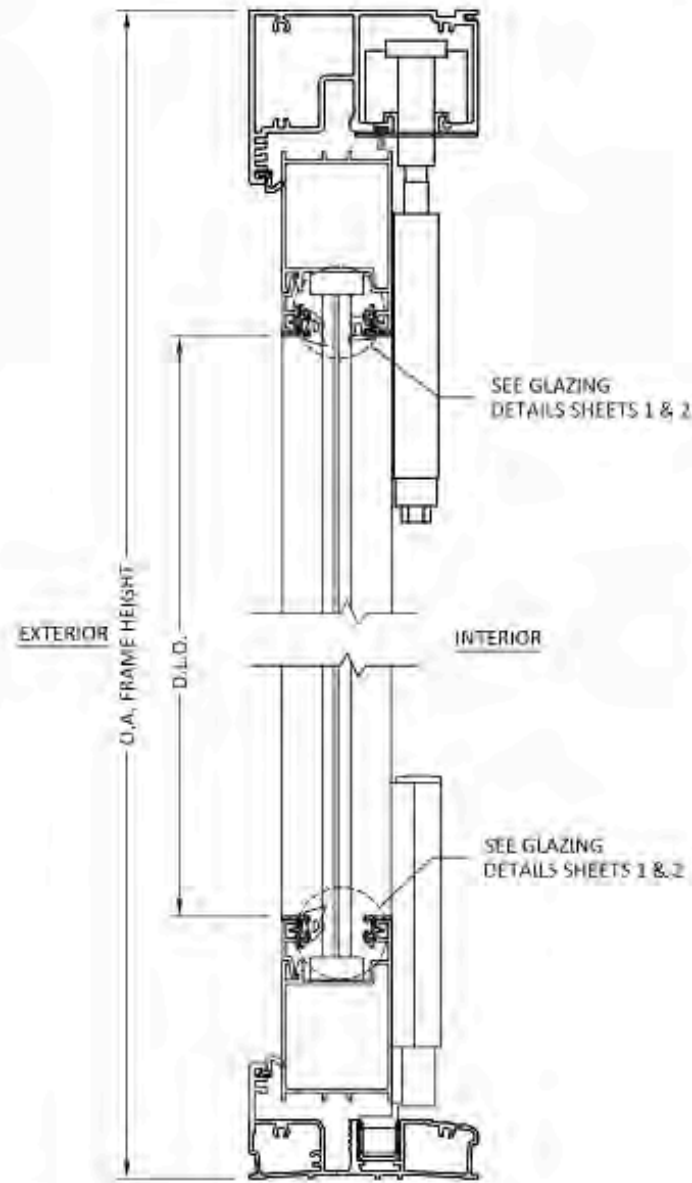
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DATE:	10.09.20
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DWG. #:	EWS016
SHEET	4
	OF 8

OBJECTIVE #3

FPA / NOA

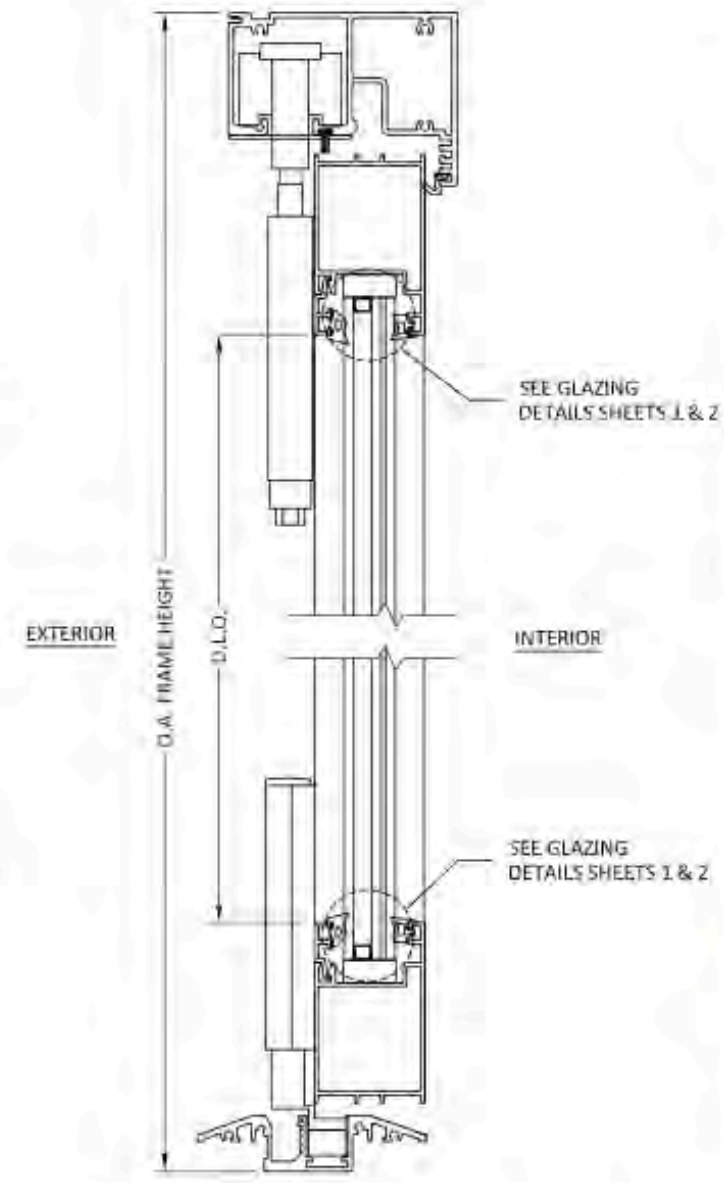


A
5 VERTICAL SECTION
HEAD AND STANDARD SILL OUT-SWING DOOR



B
5 VERTICAL SECTION
HEAD AND STANDARD SILL DETAIL IN-SWING DOOR

NOTE:
SILL NOT APPROVED FOR
WATER PENETRATION.



C
5 VERTICAL SECTION
HEAD AND ADA SILL DETAIL OUT-SWING DOOR

NOTE:
SILL NOT APPROVED FOR
WATER PENETRATION.

PREPARED BY:
BUILDING DROPS, INC.
JIM L. LAMARCA, BUREAU, DATE: 06/21/2010
CALLE STREET, #1000
MIAMI BEACH, FL 33139
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REMARKS	BY	DATE
ADD 12' HEIGHT DOOR	MS	06/21

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE INTENDED TO BE USED AS A GUIDE ONLY. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL CONDITIONS OF THE PROJECT AND FOR ADJUSTING THE DETAILS AS NECESSARY TO COMPLY WITH THE PROJECT REQUIREMENTS. A LICENSED ARCHITECT OR ENGINEER SHALL PREPARE ANY REQUIRED DOCUMENTS FOR USE WITH THIS DOCUMENT.

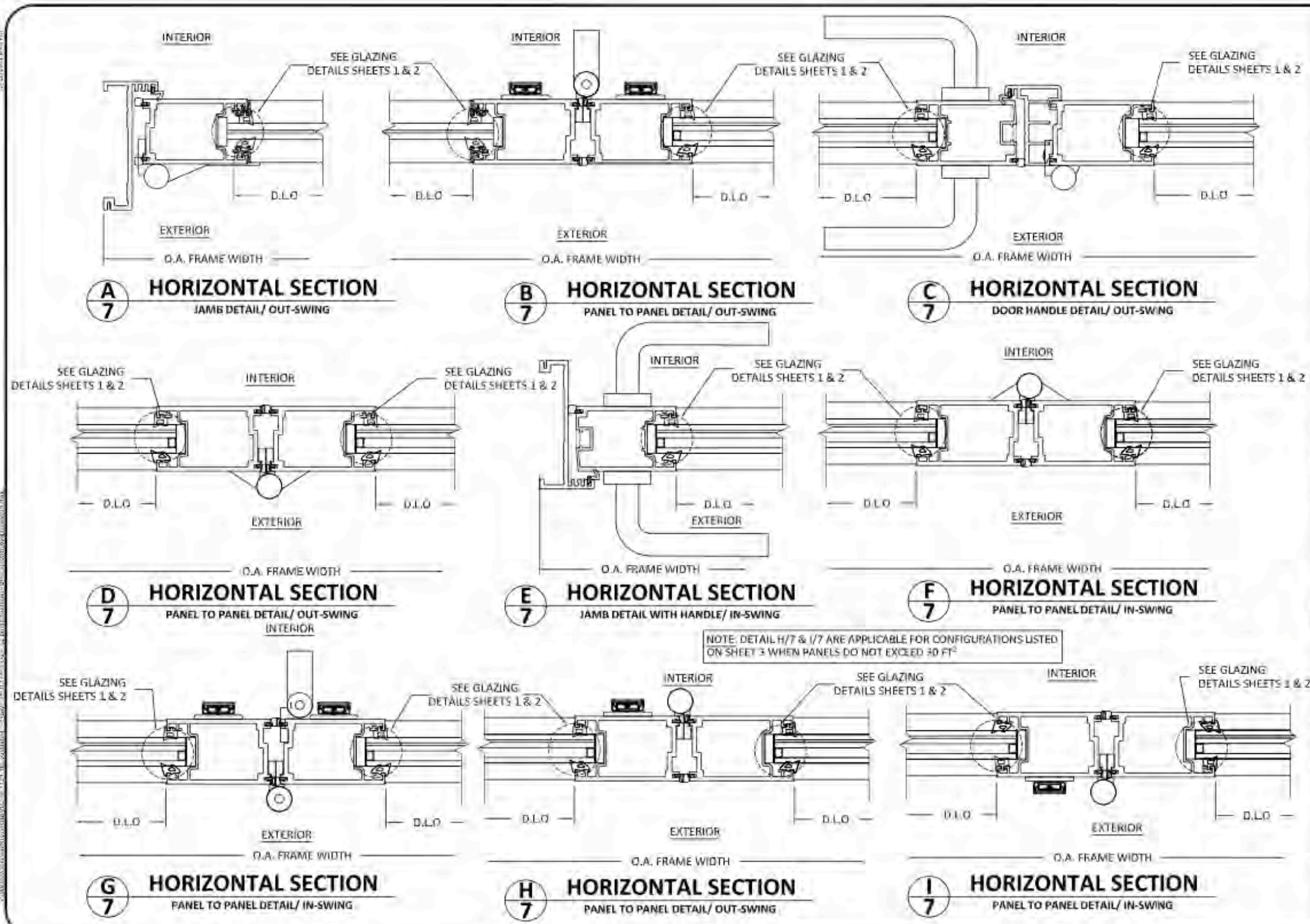


FL #:	
DATE:	10.09.20
DWG. BY:	LL
CHK. BY:	SM
SCALE:	NTS
DWG. #:	EWS016
SHEET	5

OF 8

OBJECTIVE #3

FPA / NOA



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BD
BUILDING DROPS

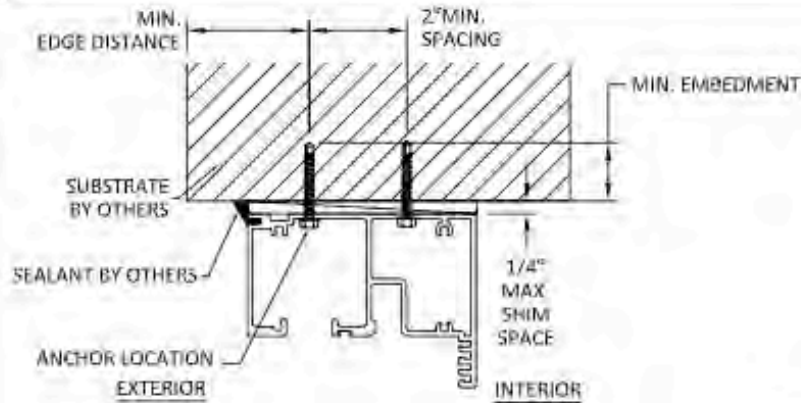
REMARKS	BY	DATE
ADD 12' HEIGHT DOOR	MS	06/21



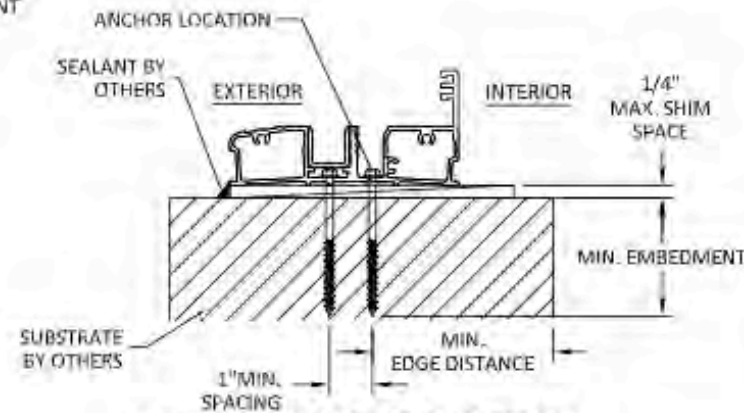
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DWG. #:	EWS016
SHEET	7

OBJECTIVE #3

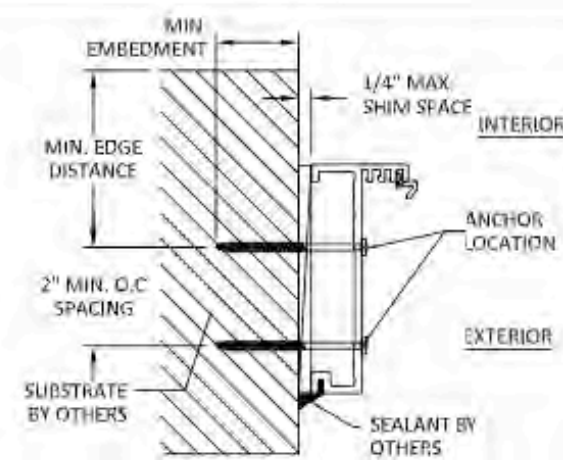
FPA / NOA



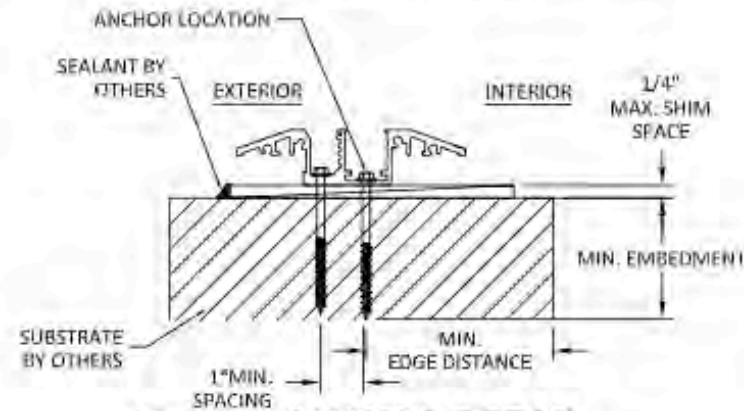
A
8
ANCHOR DETAIL
HEAD - THROUGH FRAME



B
8
ANCHOR DETAIL
STANDARD OR MODIFIED SILL - THROUGH FRAME
INSWING/OUTSWING



C
8
ANCHOR DETAIL
JAMBS - THROUGH FRAME



D
8
ANCHOR DETAIL
ADA SILL - THROUGH FRAME

INSTALLATION NOTES

1. TWO (2) INSTALLATION ANCHORS REQUIRED AT EACH LOCATION SHOWN.
2. OPTIONAL 1X AND 2X WOOD STUDS FOR CONCRETE/CMU INSTALLATION.
3. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
4. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/2$ INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES); TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
5. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 3/8 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
6. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
7. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
8. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
9. 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 BY THE ANCHOR MANUFACTURER.

ANCHOR SCHEDULE					
INSTALLATION TYPE	QTY PER LOCATION	SUBSTRATE	ANCHOR TYPE	EMBEDMENT (IN.)	EDGE DISTANCE (IN.)
THRU FRAME	2	WOOD (MIN. S.G. = 0.55)	#14 WOOD SCREW	1.5000	0.7500
	2	CONCRETE (MIN. F'C = 2,000 psi) OR CMU (PER ASTM C90)	1/4" ITW TAPCON	1.7500	2.5000
	2	METAL STUD (STEEL MIN. 18GA, Fy = 33ksi)	1/4" SMS OR SELF DRILLING SCREW	3 THREADS PENETRATION BEYOND METAL WALL	0.5000
		ALUMINUM MIN 1/8", 6063-T5)			

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FACILITY: 10000
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REMARKS	BY	DATE
ADD 12' HEIGHT DOOR	MS	06/21

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SHEET **8** OF 8

OBJECTIVE #4

Discuss product
solutions for
HVHZ and
WZ3 zones



OBJECTIVE #4

PRODUCT SOLUTIONS

FOLDING

WZ3

Max Height: 168"

Max Width: 52"

Max Design Pressure: ± 100

Water Rated: Yes

HVHZ

Max Height: 144"

Max Width: 52"

Max Design Pressure: ± 100

Water Rated: Yes

Specialty Configurations: Radius, Split Height,
Bar Top, 90° Postless Corner

OBJECTIVE #4

PRODUCT SOLUTIONS FOLDING



OBJECTIVE #4

PRODUCT SOLUTIONS FOLDING



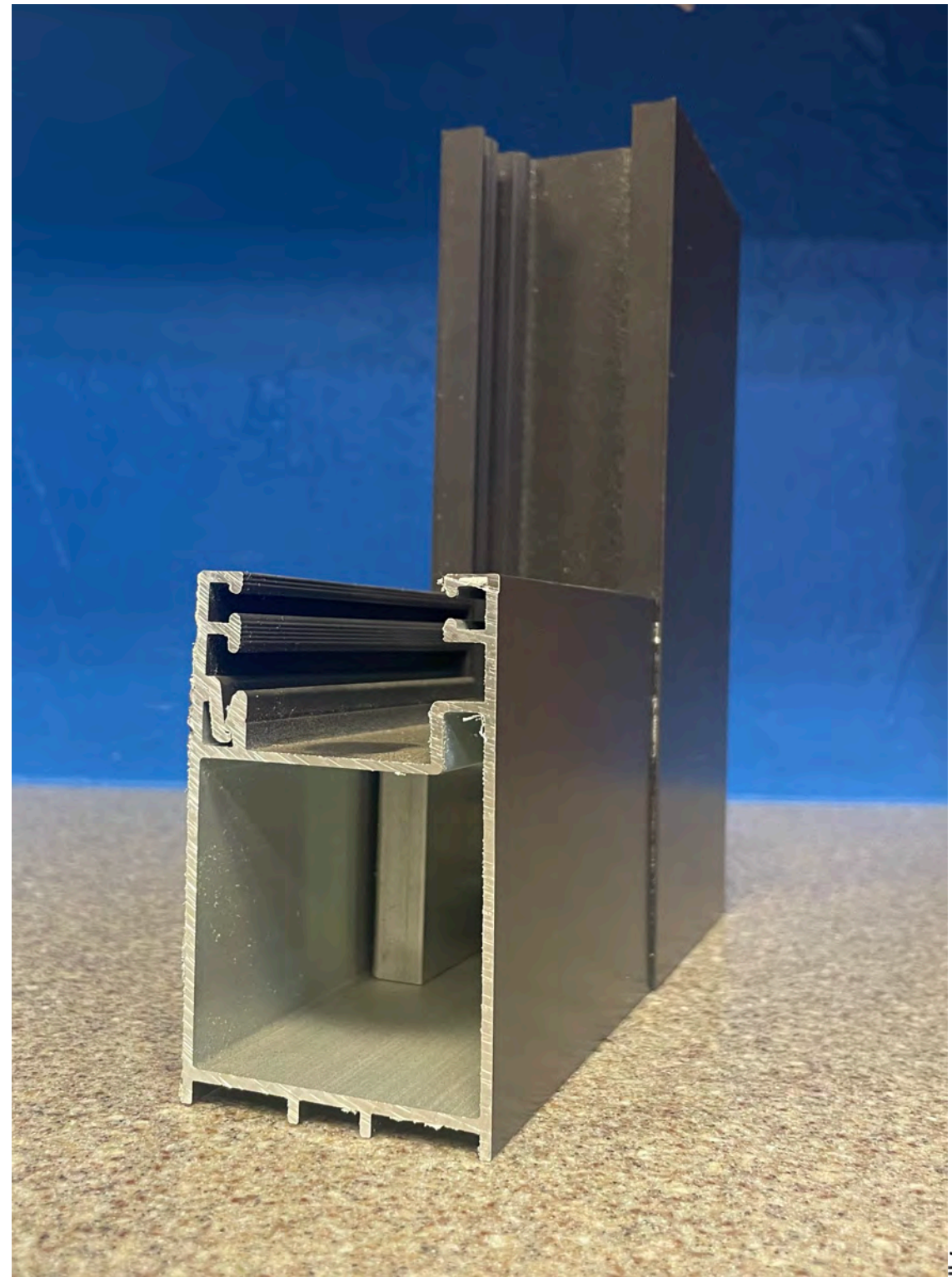
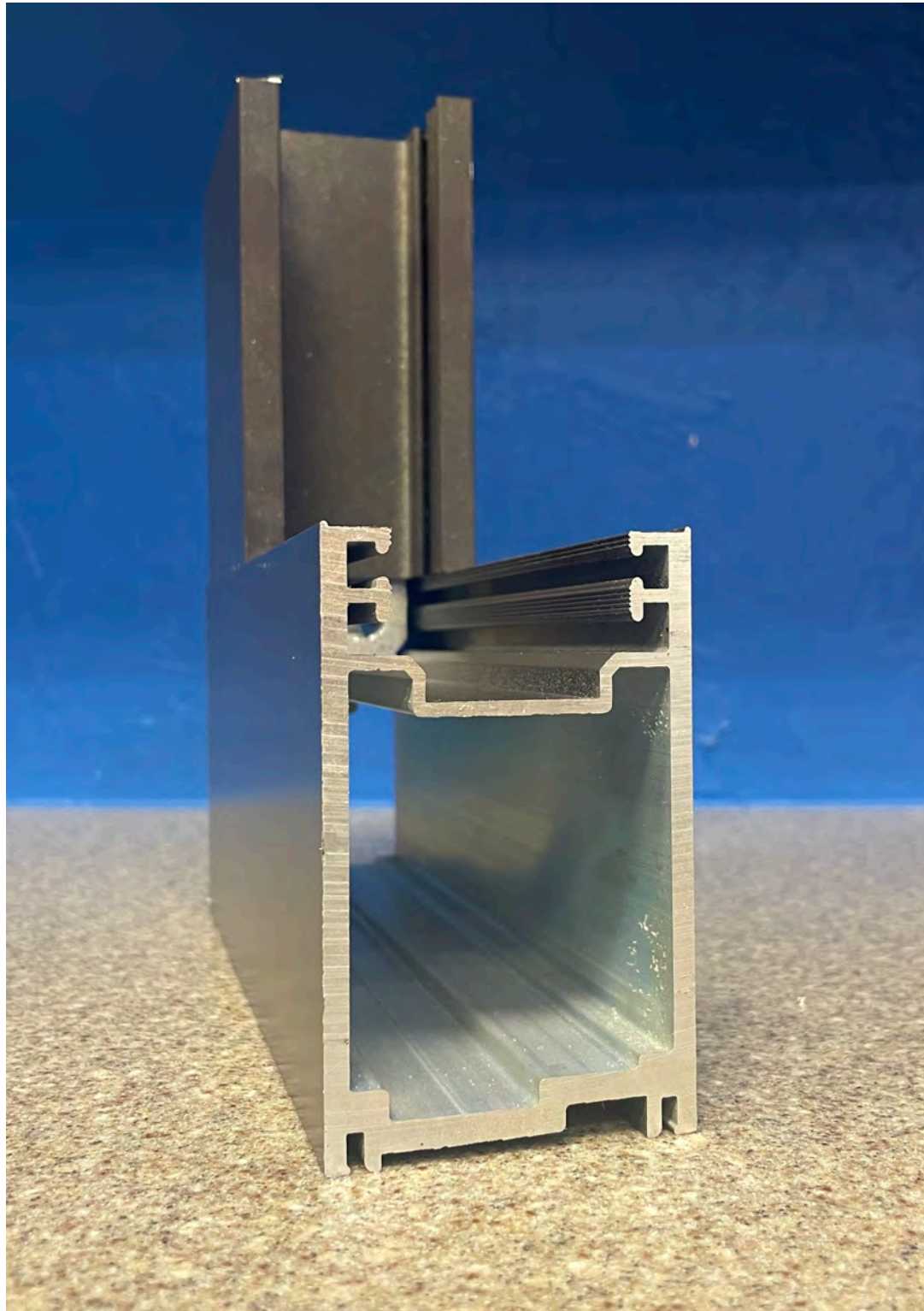
OBJECTIVE #4

PRODUCT SOLUTIONS FOLDING



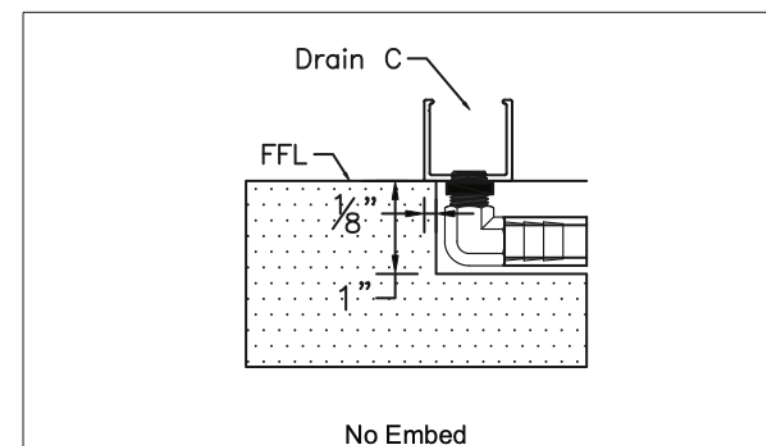
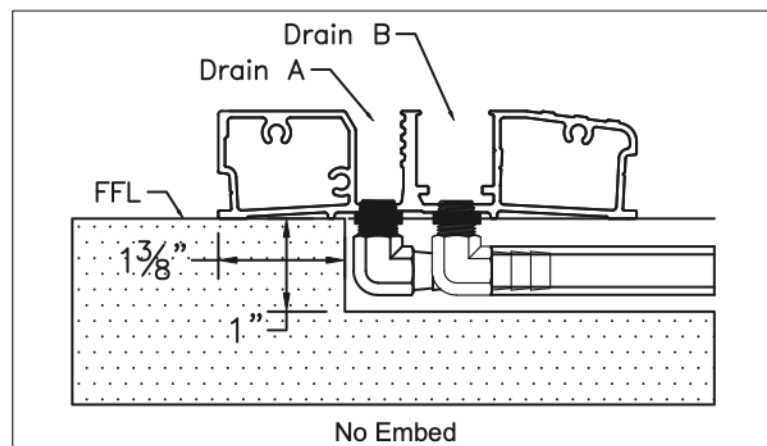
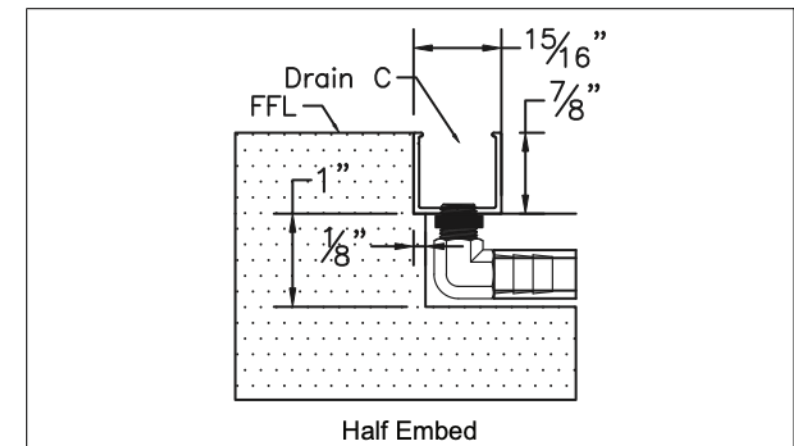
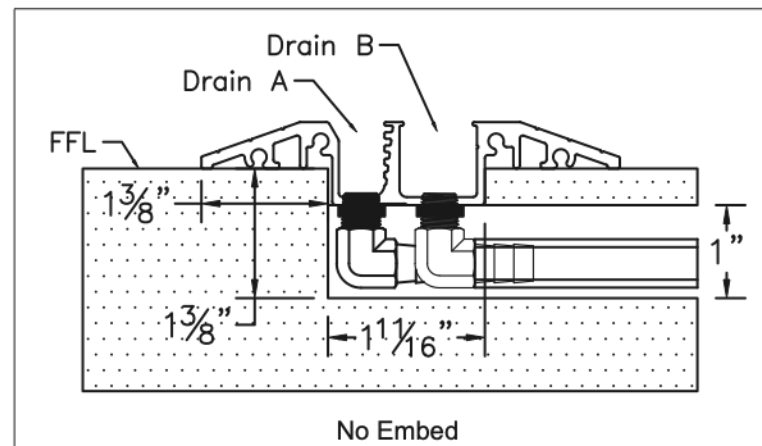
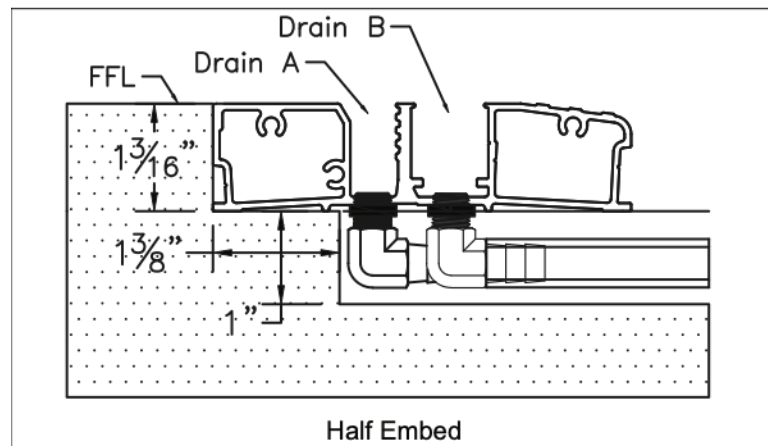
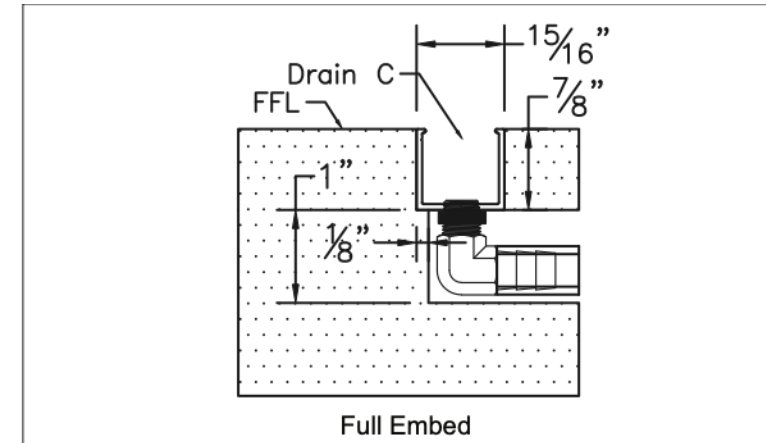
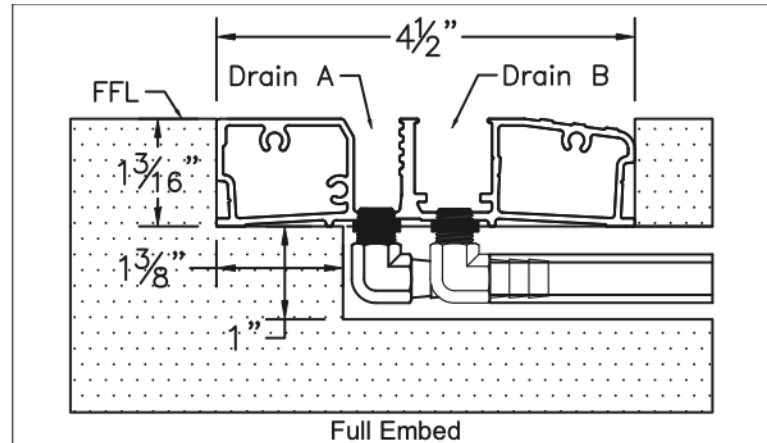
OBJECTIVE #4

PRODUCT SOLUTIONS FOLDING



OBJECTIVE #4

PRODUCT SOLUTIONS FOLDING



MULTI SLIDE

WZ3

Max Height: 168"

Max Width: 84"

Max Design Pressure: ± 120

Water Rated: Yes

HVHZ

Max Height: 144"

Max Width: 84"

Max Design Pressure: ± 120

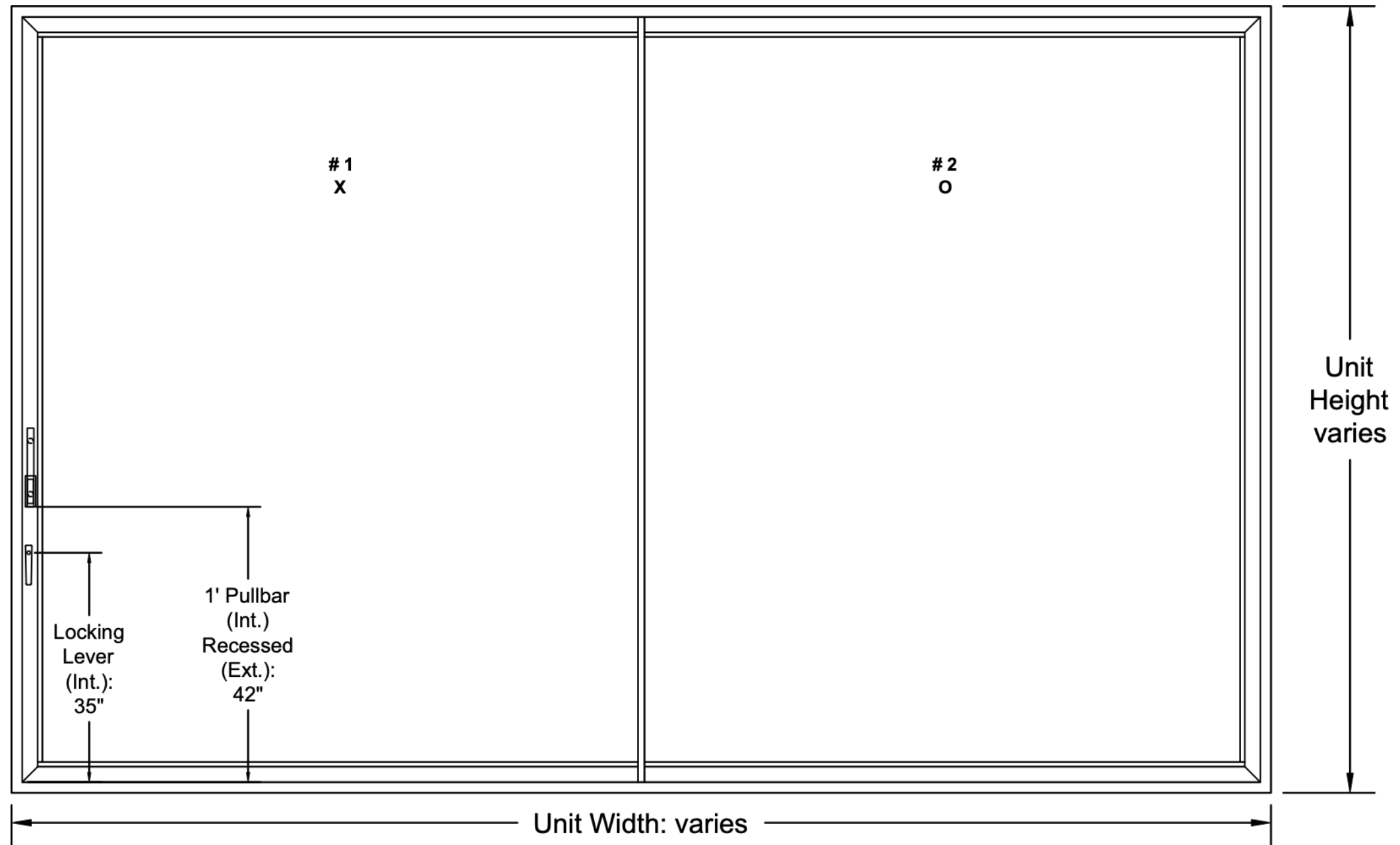
Water Rated: Yes

Specialty Configurations: Split Height,
Bar Top, 90° Postless Corner

OBJECTIVE #4

PRODUCT SOLUTIONS MULTI SLIDE

Multi Slide Doors



OBJECTIVE #4

PRODUCT SOLUTIONS MULTI SLIDE



OBJECTIVE #4

PRODUCT SOLUTIONS MULTI SLIDE



OBJECTIVE #4

PRODUCT SOLUTIONS MULTI SLIDE



OBJECTIVE #4

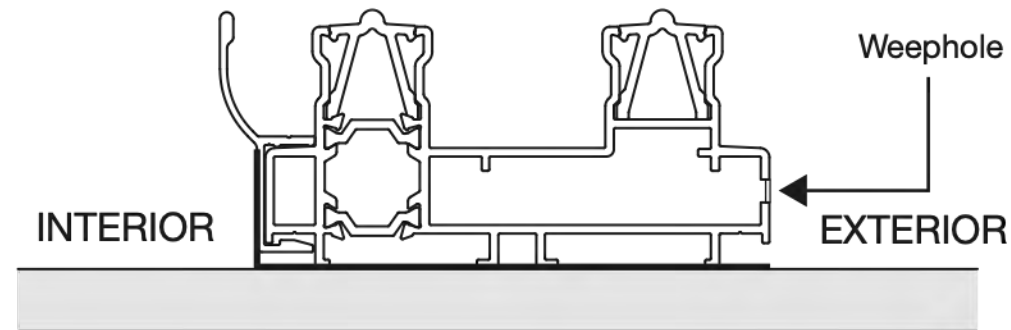
PRODUCT SOLUTIONS MULTI SLIDE



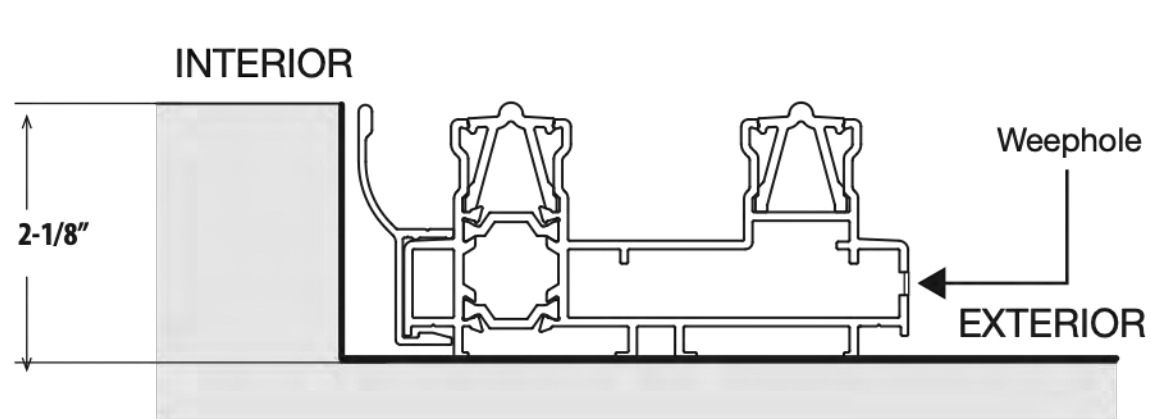
OBJECTIVE #4

PRODUCT SOLUTIONS MULTI SLIDE

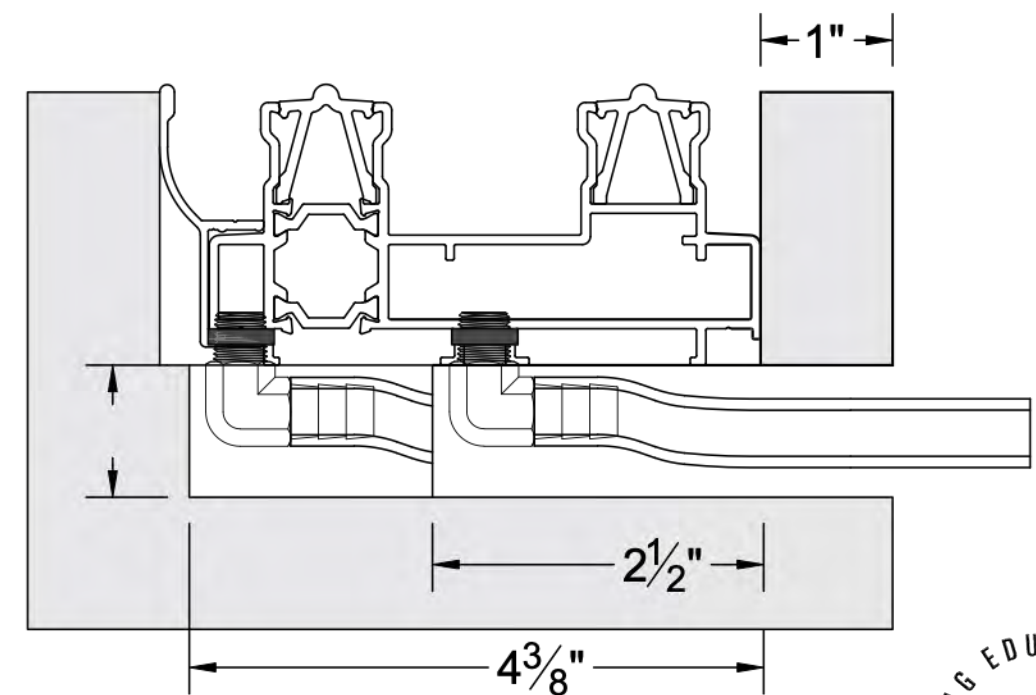
Top Mounted



Half Embed



Full Embed



PIVOT

WZ3

Max Height: 168"

Max Width: 100"

Max Design Pressure: ± 60

Water Rated: No

HVHZ

Max Height: 144"

Max Width: 100"

Max Design Pressure: ± 60

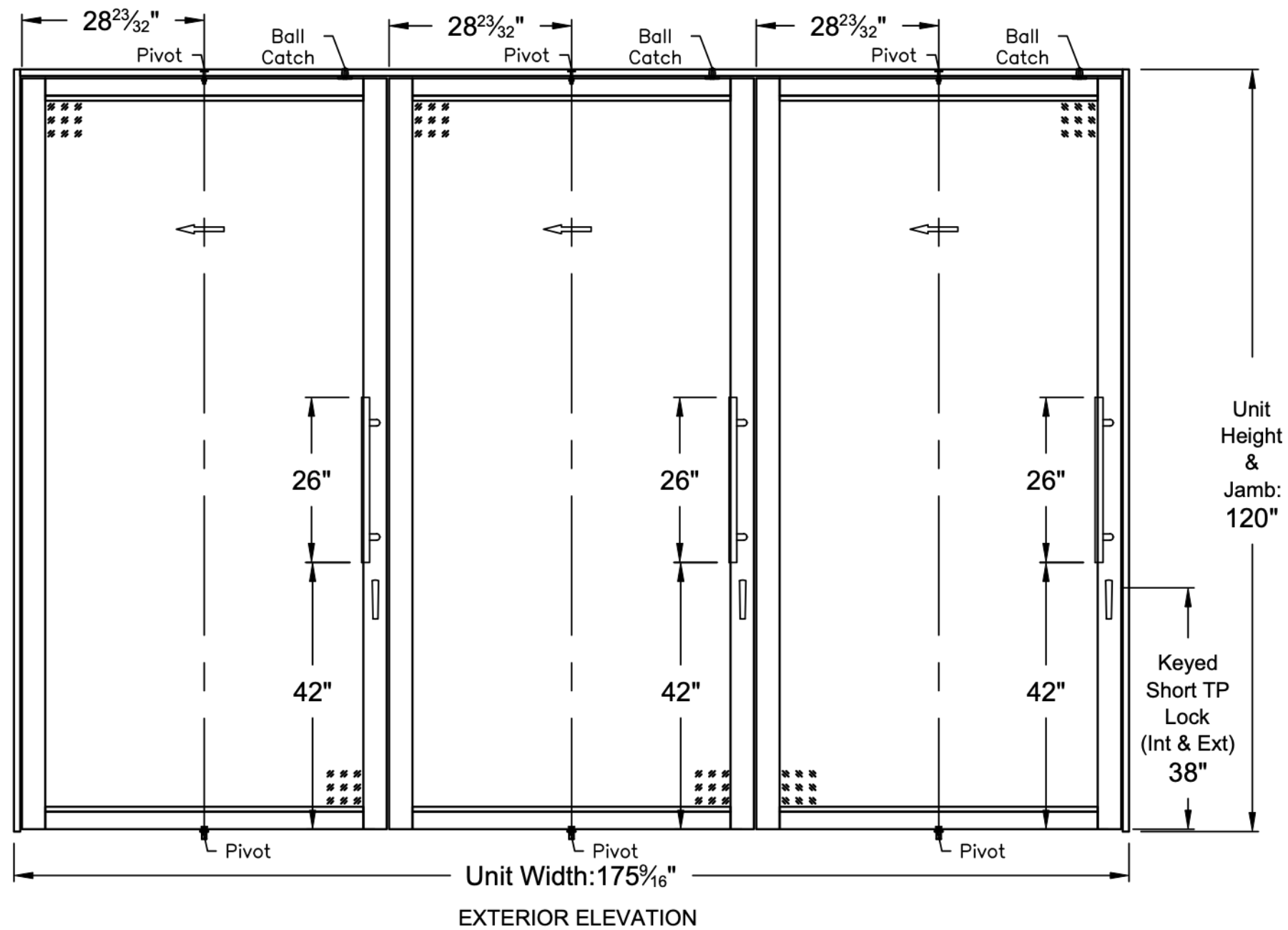
Water Rated: No

Specialty Configurations:
Inswing or Outswing, Consecutive Pivot Doors

OBJECTIVE #4

PRODUCT SOLUTIONS PIVOT

Consecutive Pivot Doors



OBJECTIVE #4

PRODUCT SOLUTIONS PIVOT



OBJECTIVE #4

PRODUCT SOLUTIONS PIVOT



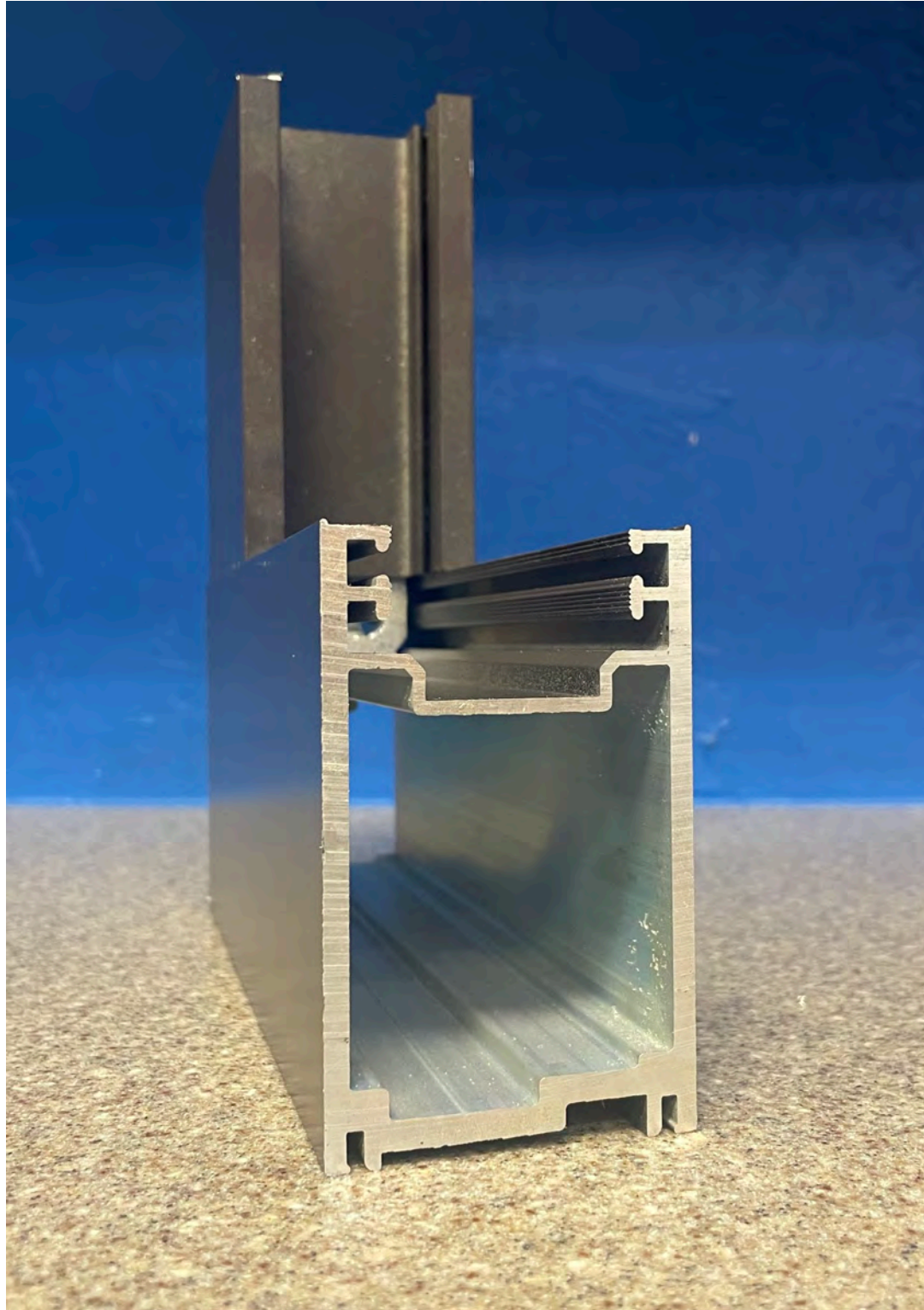
OBJECTIVE #4

PRODUCT SOLUTIONS PIVOT



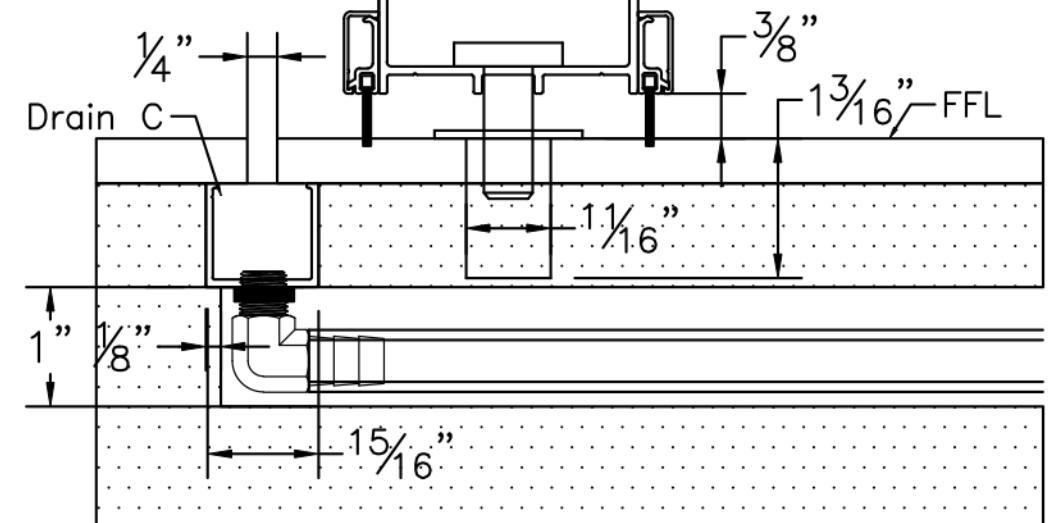
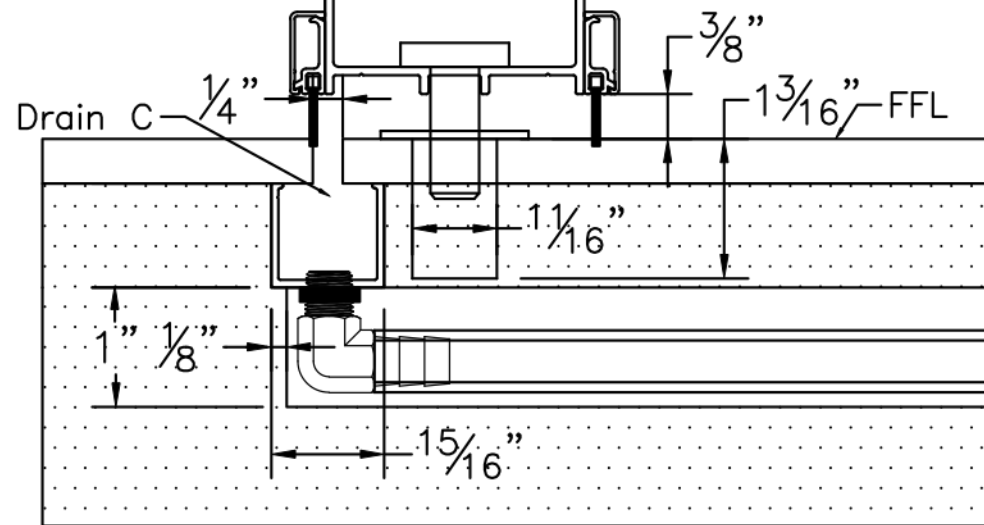
OBJECTIVE #4

PRODUCT SOLUTIONS PIVOT



OBJECTIVE #4

PRODUCT SOLUTIONS PIVOT



OBJECTIVE #4

MARKET CATEGORIES



OBJECTIVE #4

MARKET CATEGORIES



OBJECTIVE #4

MARKET CATEGORIES



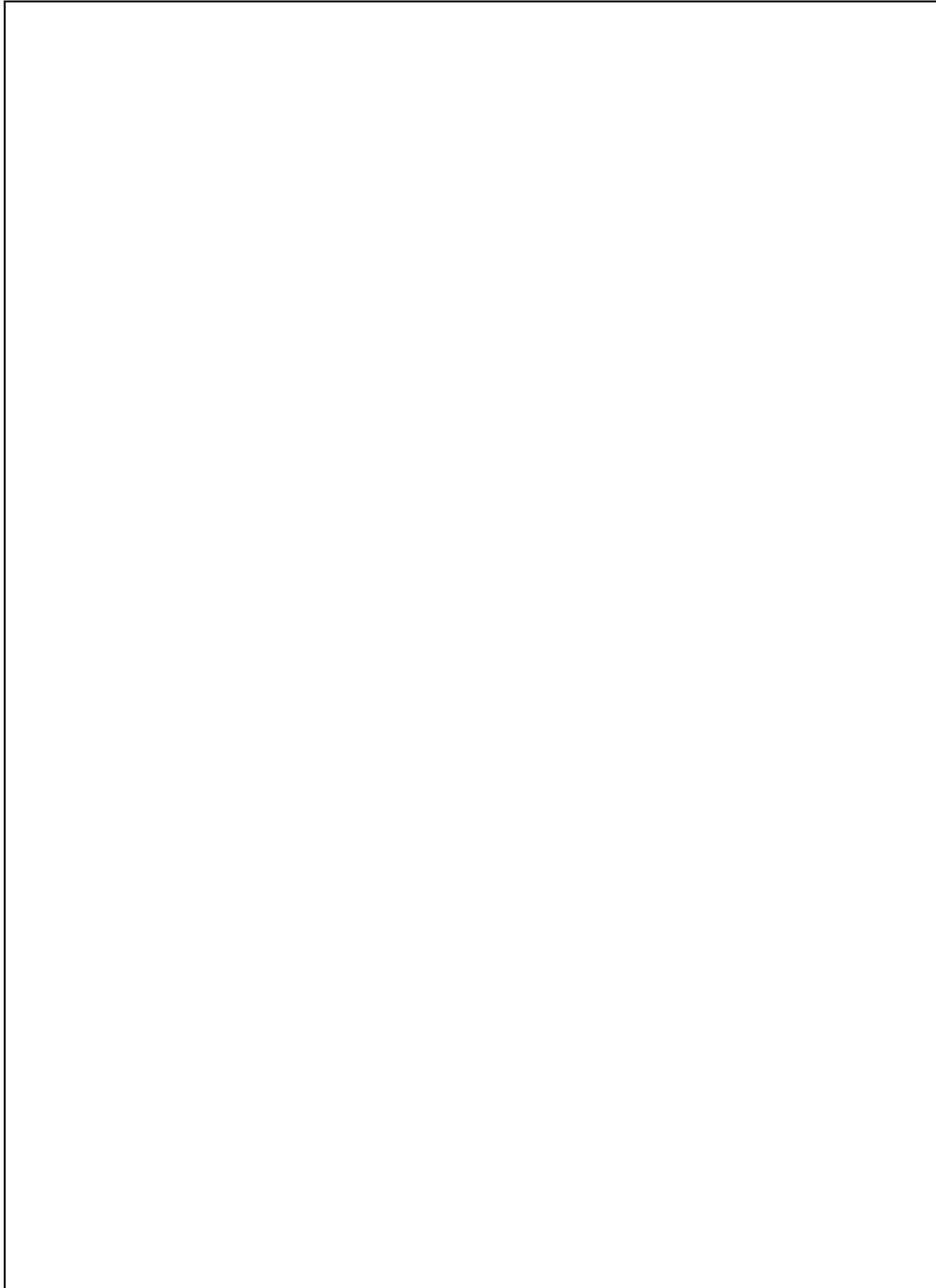
OBJECTIVE #4

MARKET CATEGORIES



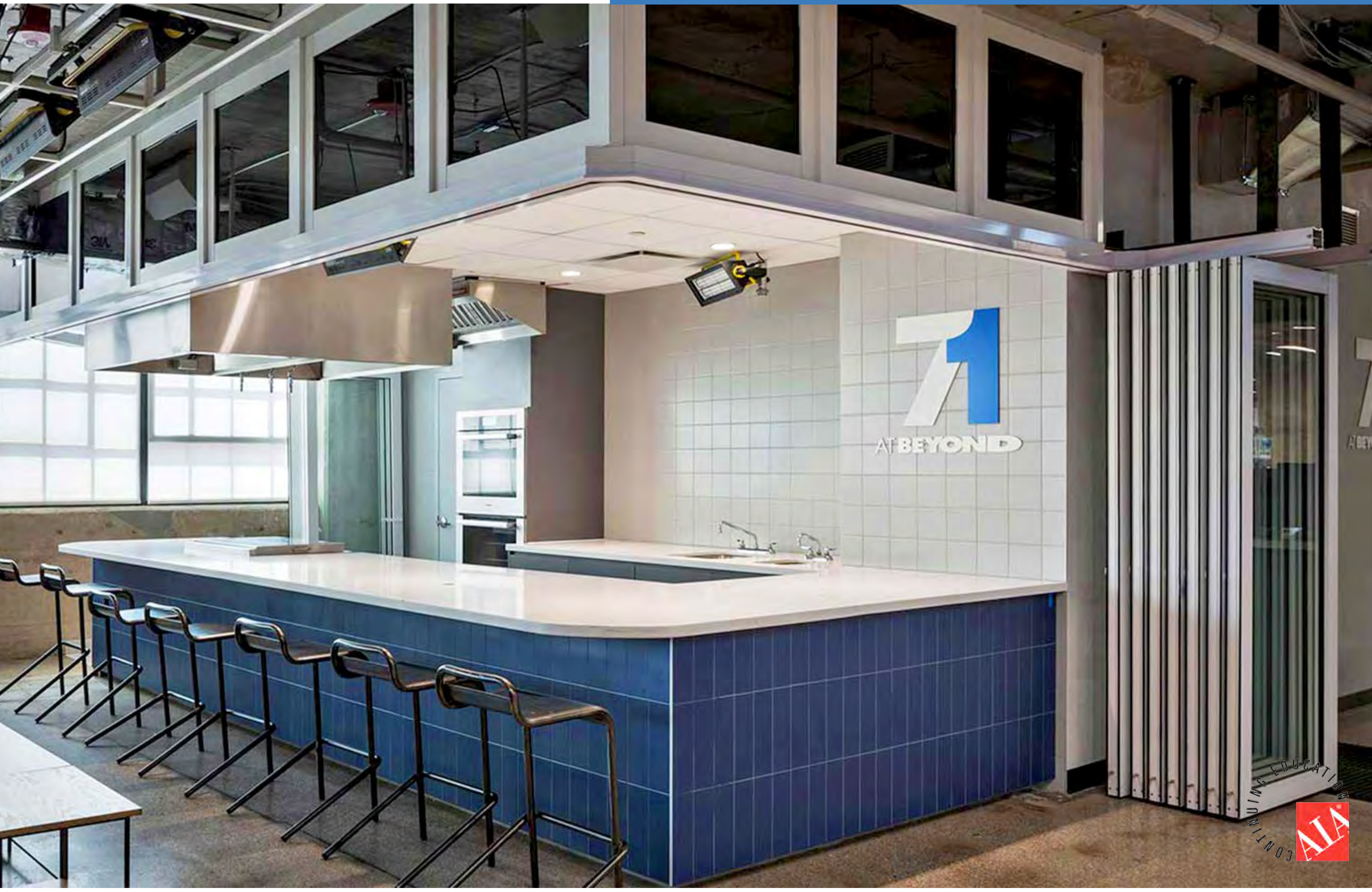
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MARKET CATEGORIES



OBJECTIVE #4

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OBJECTIVE #4

MARKET CATEGORIES



