

s:\projects\downey glass\fbce-23-0528-2 - fbc-submittal- aluminum impact storefront & entrance door\dwg\dg-100 door\dwg010.dwg 6/12/2023 11:02 AM

DOWNEY GLASS

DG-100 SERIES DOOR

(HVHZ)(IMPACT)

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4. FOR INSTALLATION INTO WOOD FRAMING USE 5/16" DEWALT/ELCO ULTRA CON SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2" INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
5. FOR INSTALLATION INTO METAL STUD USE 5/16" DEWALT/ELCO DRIL-FLEX SCREWS THROUGH THE FRAME OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE.
6. FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 5/16 INCH DIAMETER DEWALT/ELCO ULTRA CONS OF SUFFICIENT LENGTH TO ACHIEVE 1-3/4" INCH MINIMUM EMBEDMENT
7. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
8. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
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.
- 10.INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.

B. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 16GA. (0.054") WALL THICKNESS.

C. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

D. GROUT FILLED MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, MIN. F'm = 2000 PSI (OR GREATER).

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:

TAS 201-94

TAS 202-94

TAS 203-94
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING 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. 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 IN NON-HVHZ AREAS. IN HVHZ AREAS, ONE TIME PRODUCT APPROVAL TO BE OBTAINED FROM MIAMI-DADE RER.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. DOOR FRAME MATERIAL: 6063-T6 ALUMINUM
7. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:

X: OPERABLE PANEL

O: FIXED PANEL
8. GLAZING MEETS ASTM E1300 LOAD RESISTANCE REQUIREMENTS.

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SHEET	SHEET DESCRIPTION
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4	ANCHOR LAYOUT & ANCHOR SCHEDULE
5	VERTICAL SECTIONS
6	HORIZONTAL SECTIONS & GLAZING DETAIL
7	BILL OF MATERIALS
8	ASSEMBLY DETAILS

HARDWARE	DESIGN PRESSURE	MISSILE IMPACT RATING
ADAMS RITE 1850S 3 POINT LOCK WITH 1870 FLUSH BOLTS	+75/-75 PSF	LARGE AND SMALL MISSILE IMPACT RATED
REGENT SERIES 5770 PANIC HARDWARE WITH CONCEALED VERTICAL ROD	+50/-50 PSF	

DOORS NOT RATED FOR WATER INFILTRATION. SHALL BE INSTALLED AT NON-HABITABLE LOCATIONS OR WHERE PROTECTED BY AN OVERHANG RATIO EQUAL OR GREATER THAN 1.0, WHERE OVERHANG RATIO = OVERHANG LENGTH / OVERHANG HEIGHT.



1010 NW 15TH AVE.
POMPANO BEACH, FL 33069

TITLE: DG-100 SERIES DOOR
(HVHZ)(IMPACT)

INSTALLATION & GENERAL NOTES

PREPARED BY:

BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338

DANIA BEACH, FL 33004

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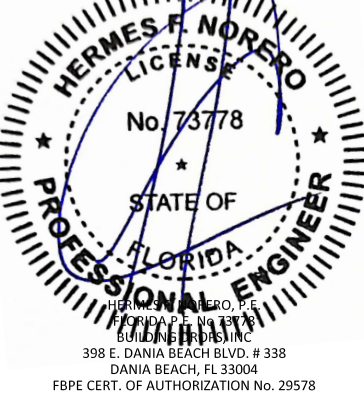
WEB: www.buildingdrops.com



REMARKS	BY	DATE

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Reason: I am approving this document
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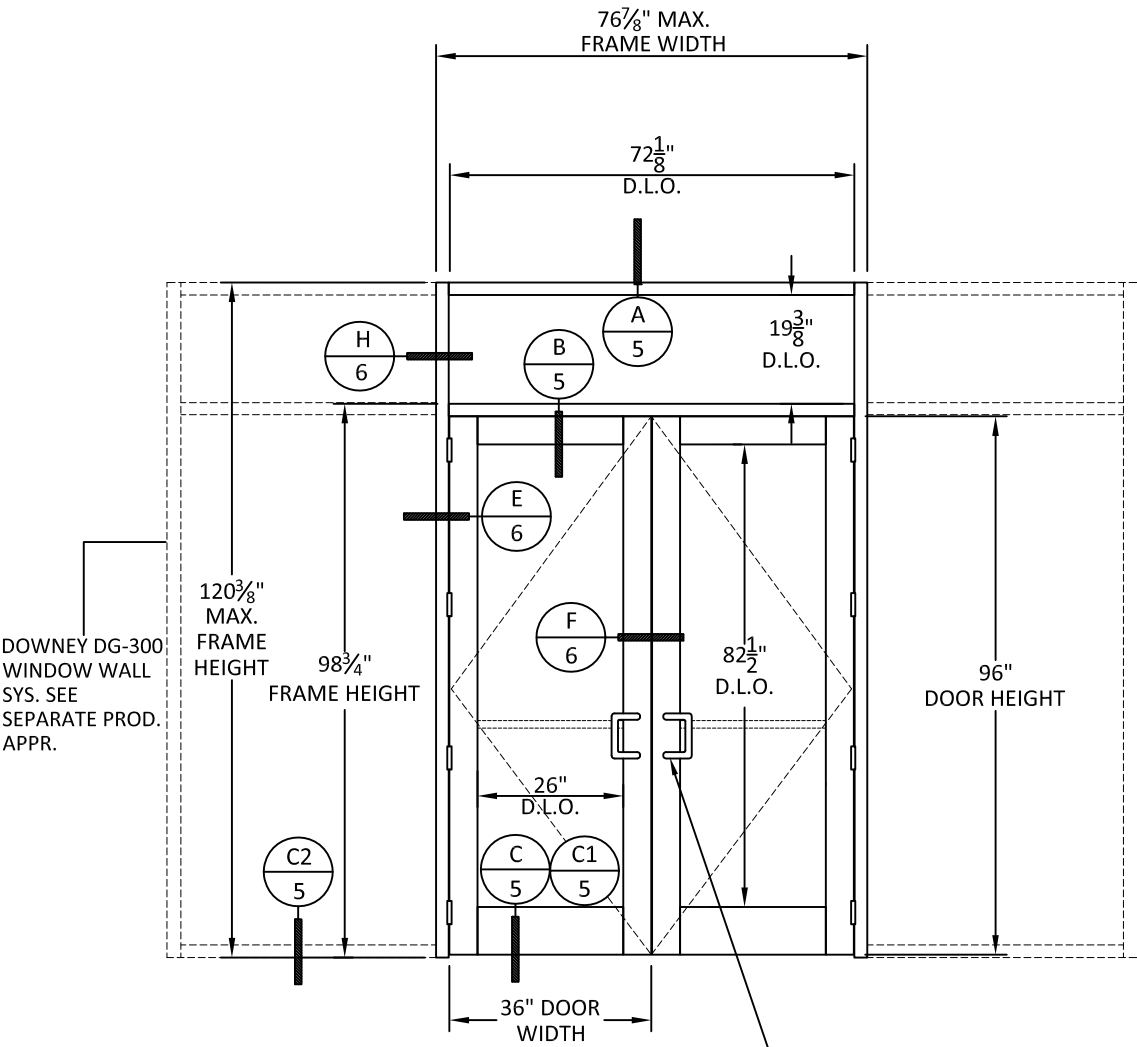


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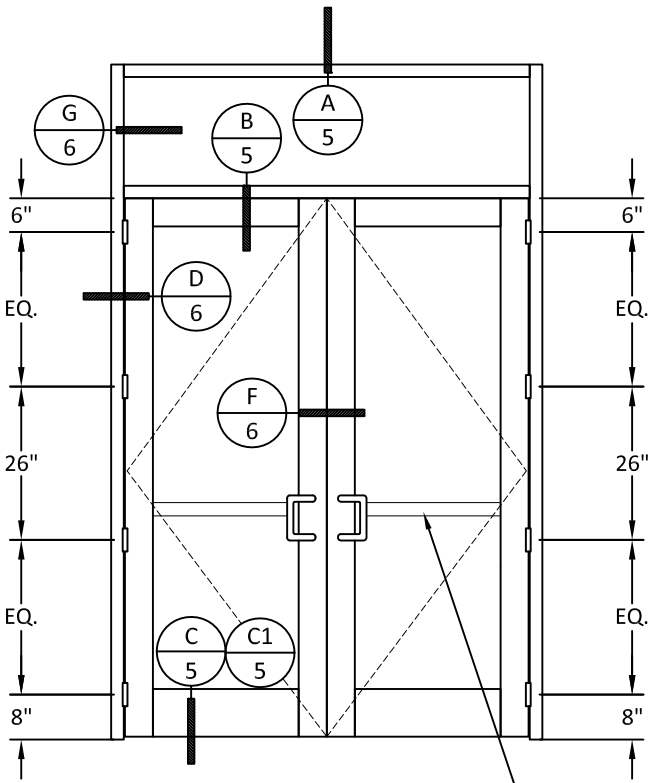
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TYPICAL ELEVATIONS DG-100 SERIES DOOR



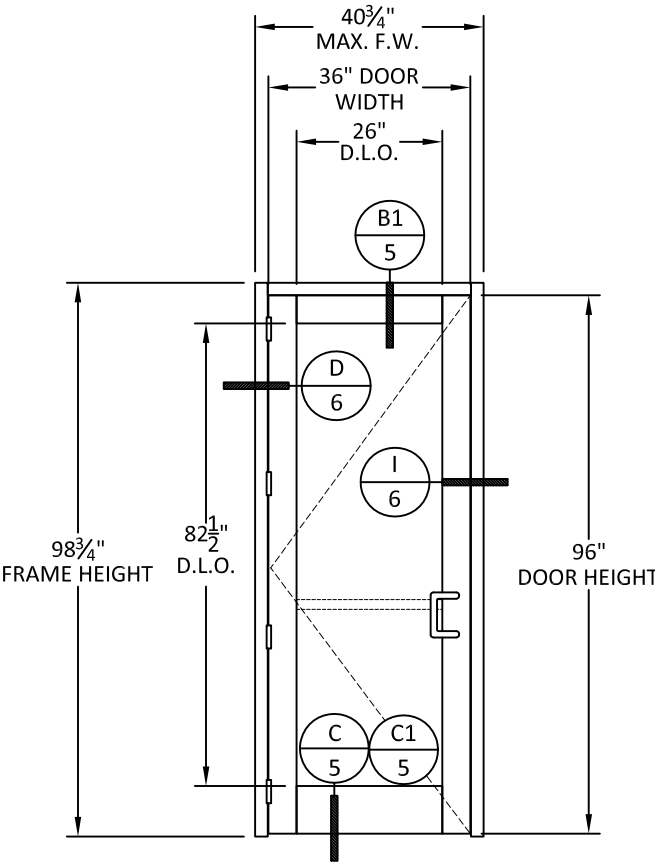
DOWNEY DG-300 WINDOW WALL SYS. SEE SEPARATE PROD. APPR.

ADAMS RITE 1850S 3-POINT LOCK
ADAMS RITE 1870 FLUSH BOLTS STD.



TYPICAL HINGE
LOCATIONS

OPTIONAL PANIC HARDWARE
REGENT SERIES 5770



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(HVHZ)/(IMPACT)

ELEVATIONS & HARDWARE LAYOUT

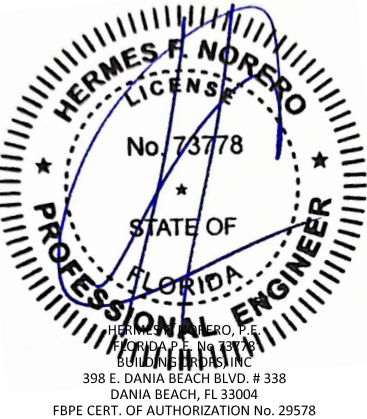
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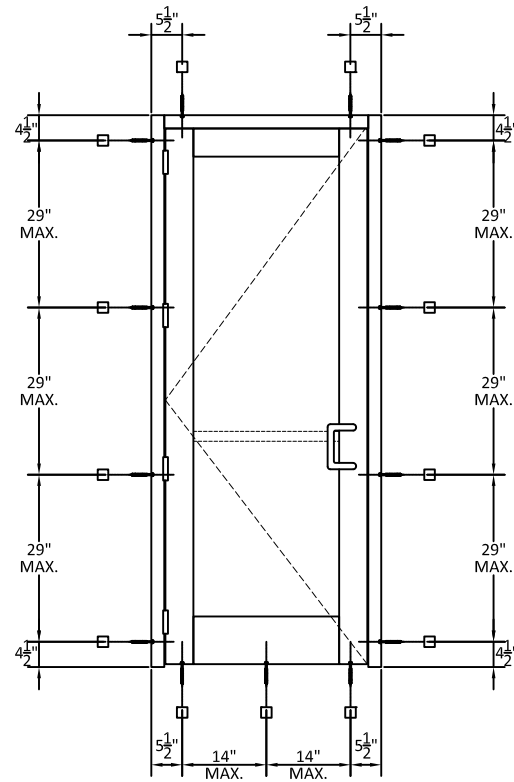
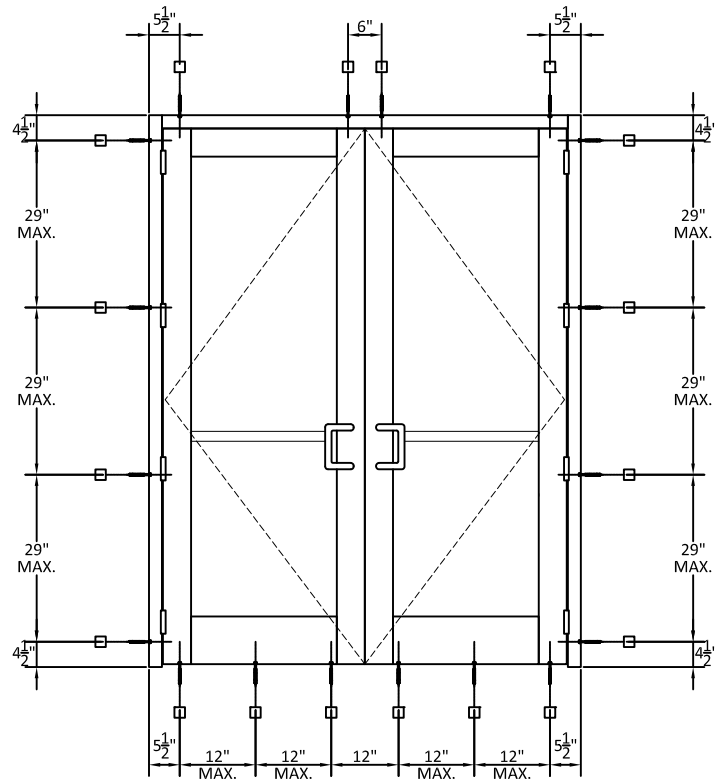
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2



ANCHOR LAYOUTS

ANCHOR SCHEDULE				
METHOD	SUBSTRATE	ANCHOR	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME	MIN. S.G. = 0.55 WOOD	5/16" DEWALT/ELCO ULTRA CON SCREWS	1.5"	0.75"
	18 GAUGE STEEL, MIN fy = 33 ksi	5/16" DEWALT/ELCO DRIL-FLEX SCREWS	3 THREADS PENETRATION BEYOND METAL	0.75"
	CONCRETE, MIN. fc = 3000 psi	5/16" DEWALT/ELCO ULTRA CON SCREWS	1.75"	2.5"
	GROUT FILLED CMU per ASTM C90, (MIN. F'm = 2000 PSI)		1.75"	2.5"



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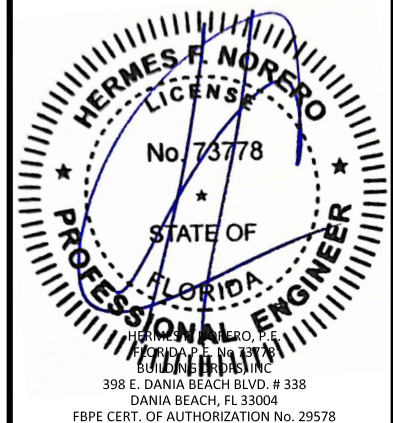
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& ANCHOR SCHEDULE

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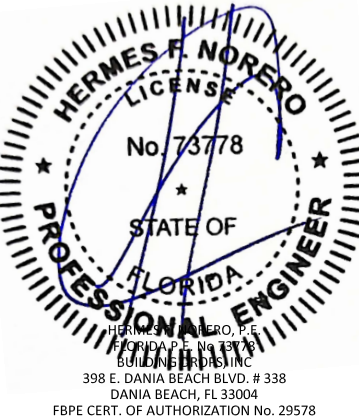
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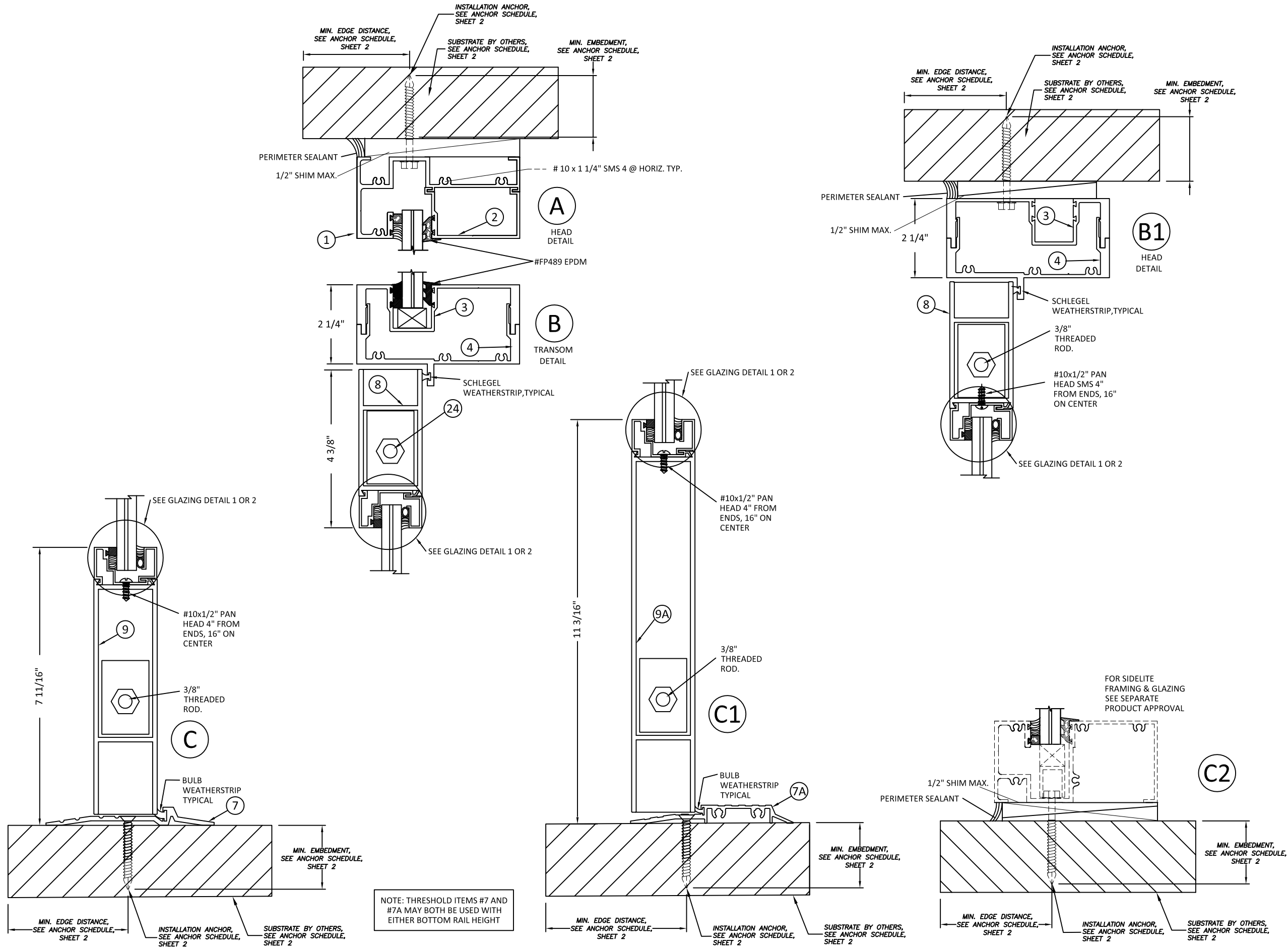
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ANCHOR LAYOUTS

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METHOD	SUBSTRATE	ANCHOR	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME	MIN. S.G. = 0.55 WOOD	5/16" DEWALT/ELCO ULTRA CON SCREWS	1.5"	0.75"
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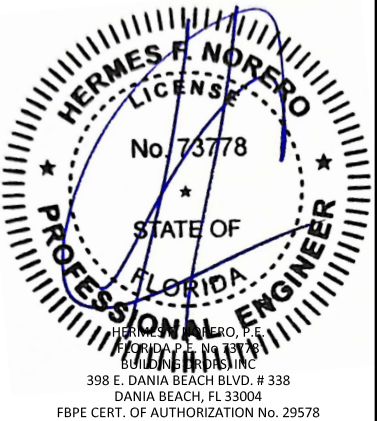
VERTICAL SECTIONS

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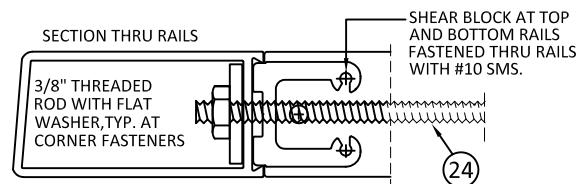
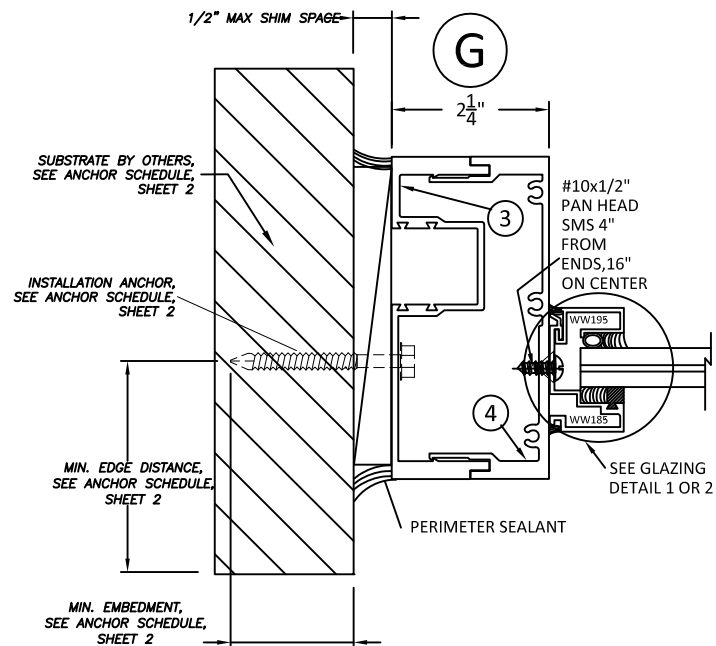
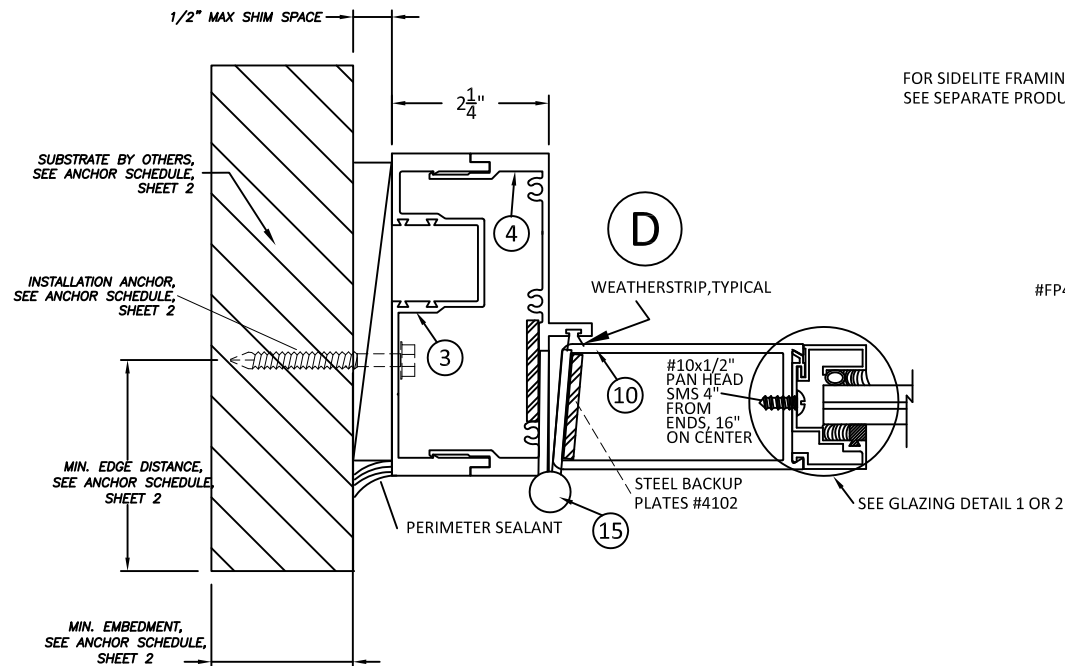
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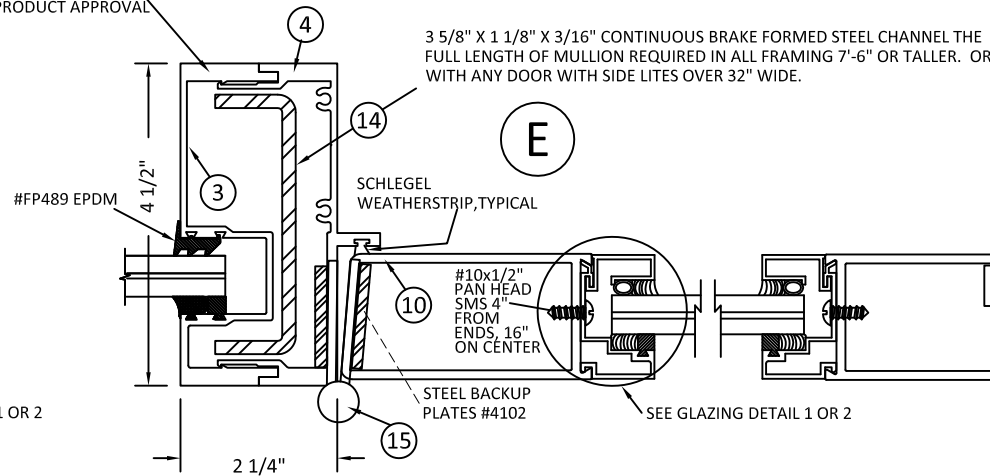
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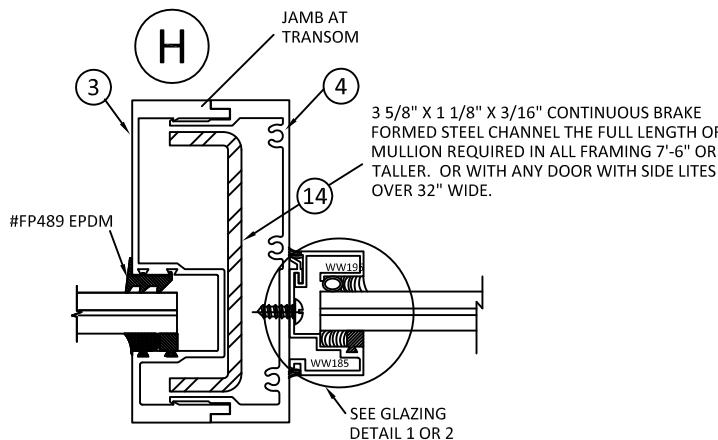
- GLAZING NOTES:**
- 1) GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC.
 - 2) GLASS SHALL BE SET WITH THE USE OF SETTING BLOCKS IN ACCORDANCE WITH CHAPTER 24 OF THE CURRENT FLORIDA BUILDING CODE.
 - 3) SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
 - 4) SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.

FOR SIDELITE FRAMING & GLAZING SEE SEPARATE PRODUCT APPROVAL

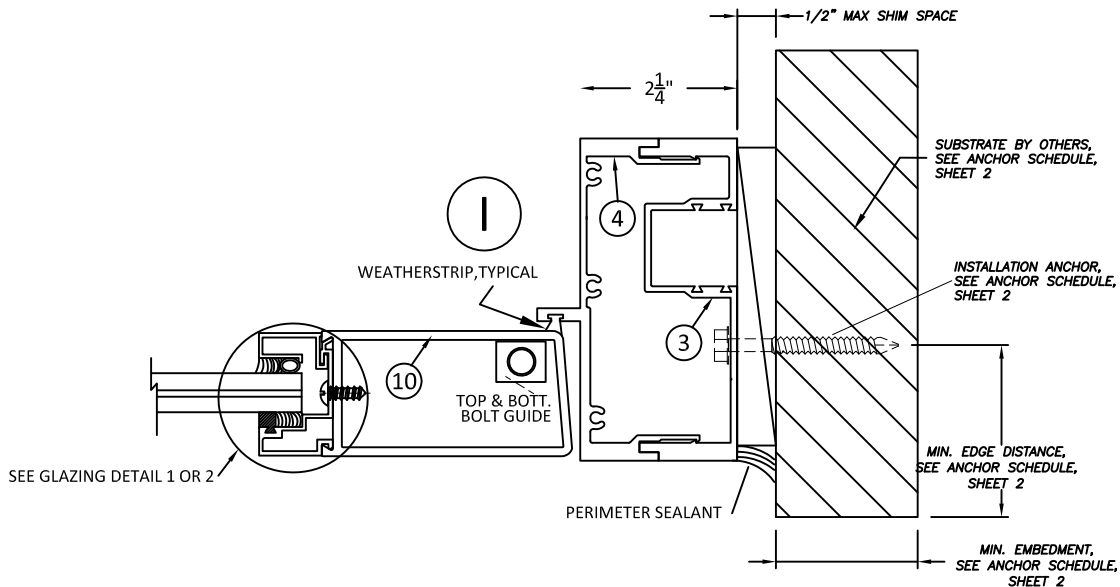
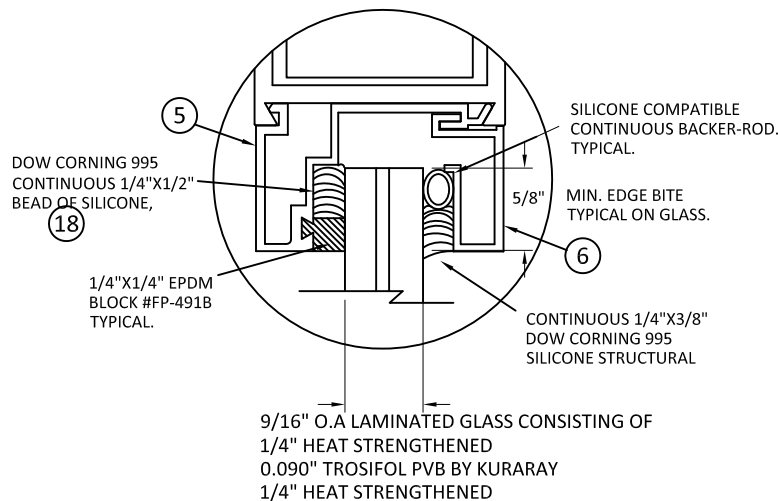


ON DOUBLE DOORS THE LOCK FOR ACTIVE DOOR IS ADAMS RITE MS 1850S 3 POINT LOCK. INACTIVE USES EITHER STD. 1870 FLUSH BOLT OR THE 2 POINT MS 1880/1881.

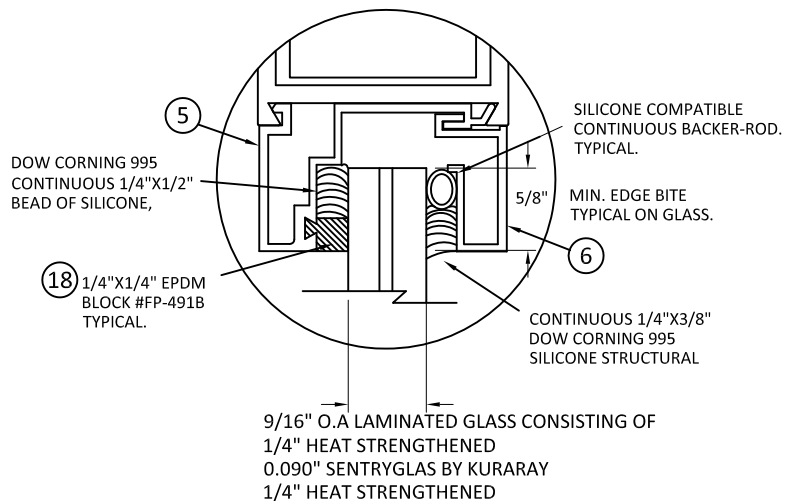
SINGLE LEAF DOORS ARE FITTED WITH 3 POINT LOCK



GLAZING DETAIL 1



GLAZING DETAIL 2



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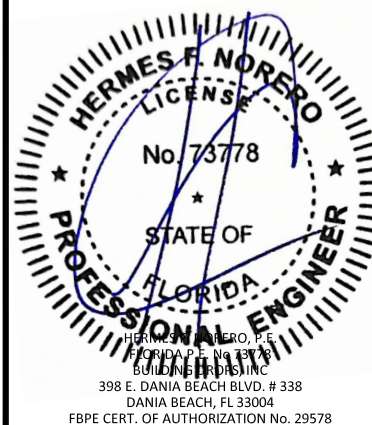
TITLE: DG-100 SERIES DOOR (HVHZ)/(IMPACT) HORIZONTAL SECTIONS & GLAZING DETAIL

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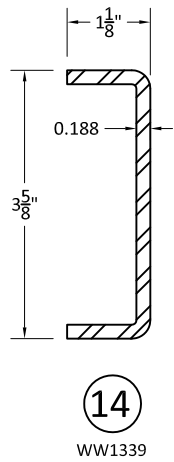
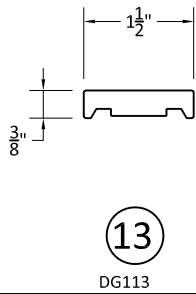
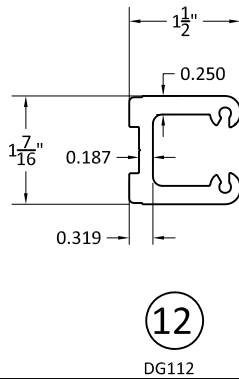
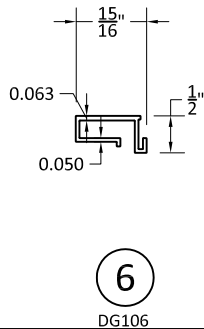
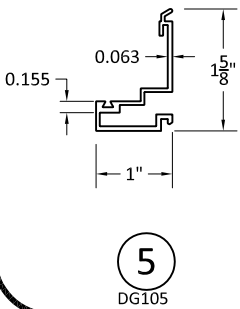
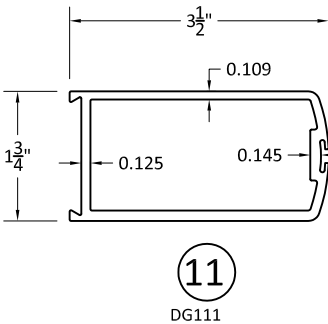
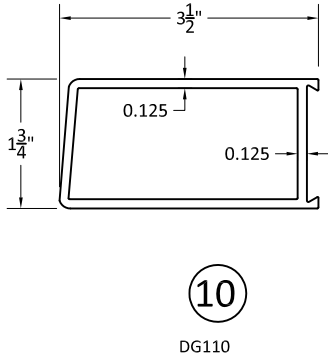
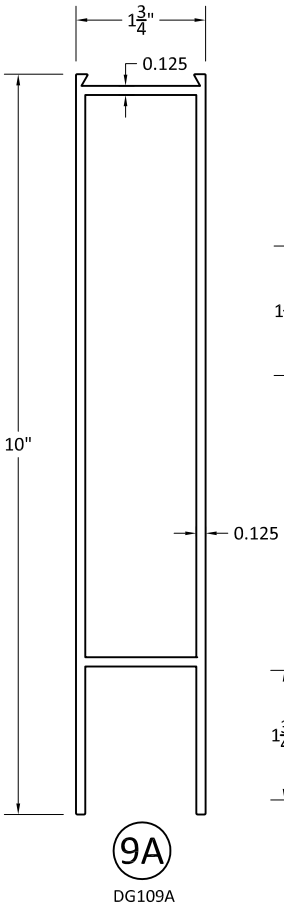
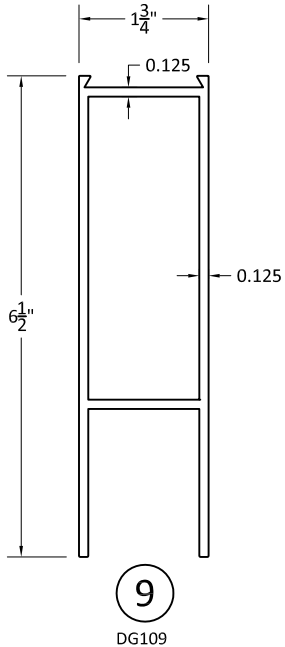
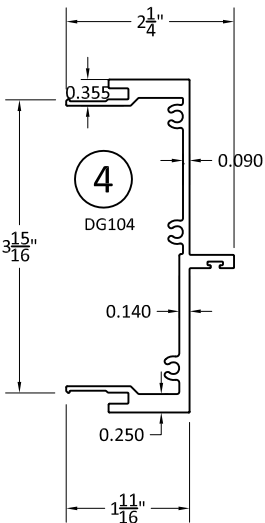
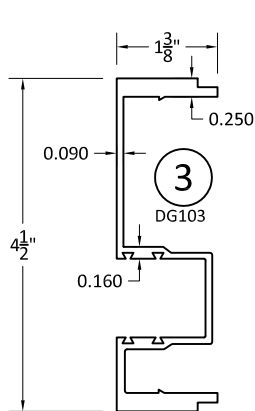
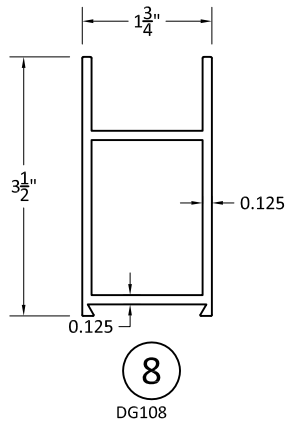
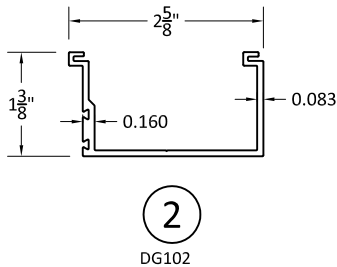
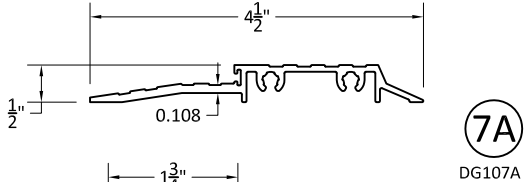
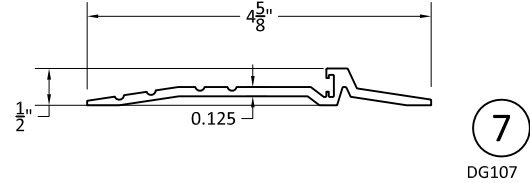
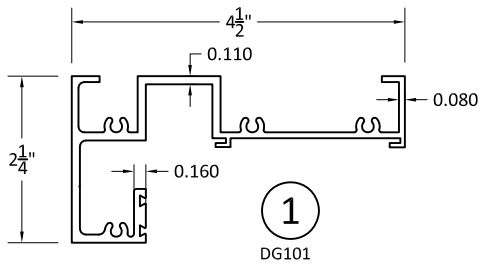


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ITEM #	PART #	DESCRIPTION	MATERIAL	REMARKS
1	DG101	FRAME HEAD	6063-T6	-
2	DG102	HEADER GLASS STOP	6063-T6	-
3	DG103	FRAME JAMB BASE	6063-T6	-
4	DG104	JAMB FOR DOOR	6063-T6	-
5	DG105	EXTER. GLASS STOP	6063-T6	-
6	DG106	INTER. GLASS STOP	6063-T6	-
7	DG107	DOOR THRESHOLD	6063-T6	-
7A	DG107A	DOOR THRESHOLD	6063-T6	-
8	DG108	DOOR TOP RAIL	6063-T6	-
9	DG109	6-1/2" DOOR BOTT.RAIL	6063-T6	-
9A	DG109A	10" DOOR BOTT.RAIL	6063-T6	-
10	DG110	DOOR JAMB STILE	6063-T6	-
11	DG111	DOOR ASTRAGAL	6063-T6	-
12	DG112	SHEAR BLOCK	6063-T6	-
13	DG113	BACK PLATE	6063-T6	-
14	WW1339	REINF. CHANNEL	A36 STEEL	3 5/8"X1 1/8"X3/16"
15	4002	BUTT HINGE	STEEL	4" x 4 1/2"
16	MS 1850	3 Pt. DEADBOLT	STEEL	ADAMS RITE
17	WWFP489	WEDGE GASKET	EPDM	TREMCO
18	WWFP491B	1/4X1/4 GASKET	EPDM	TREMCO
19	995	CAULKING	SILICONE	DOW CORNING 995
20	775	CAULKING	SILICONE	DOW CORNING 775
21	WHWF350	WEATHERSTRIP	FINSEAL	AMESBURY
22	AP 305	WEATHERSTRIP	DUAL TPE	SCHLEGEL
23	-	-	-	-
24	3833	3/8" THREADED ROD	STEEL	3/8" x 33"
25	6234	THRESHOLD CLIP	STEEL	1" x 1" x 2"



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POMPANO BEACH, FL 33069

TITLE: DG-100 SERIES DOOR
(HVHZ)/(IMPACT)

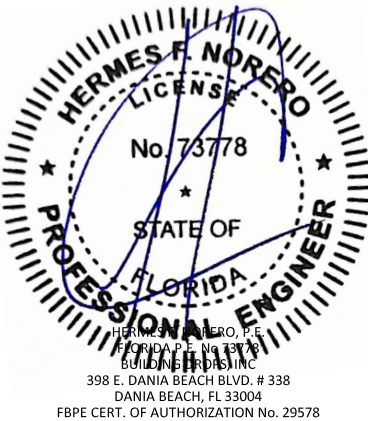
BILL OF MATERIALS

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE

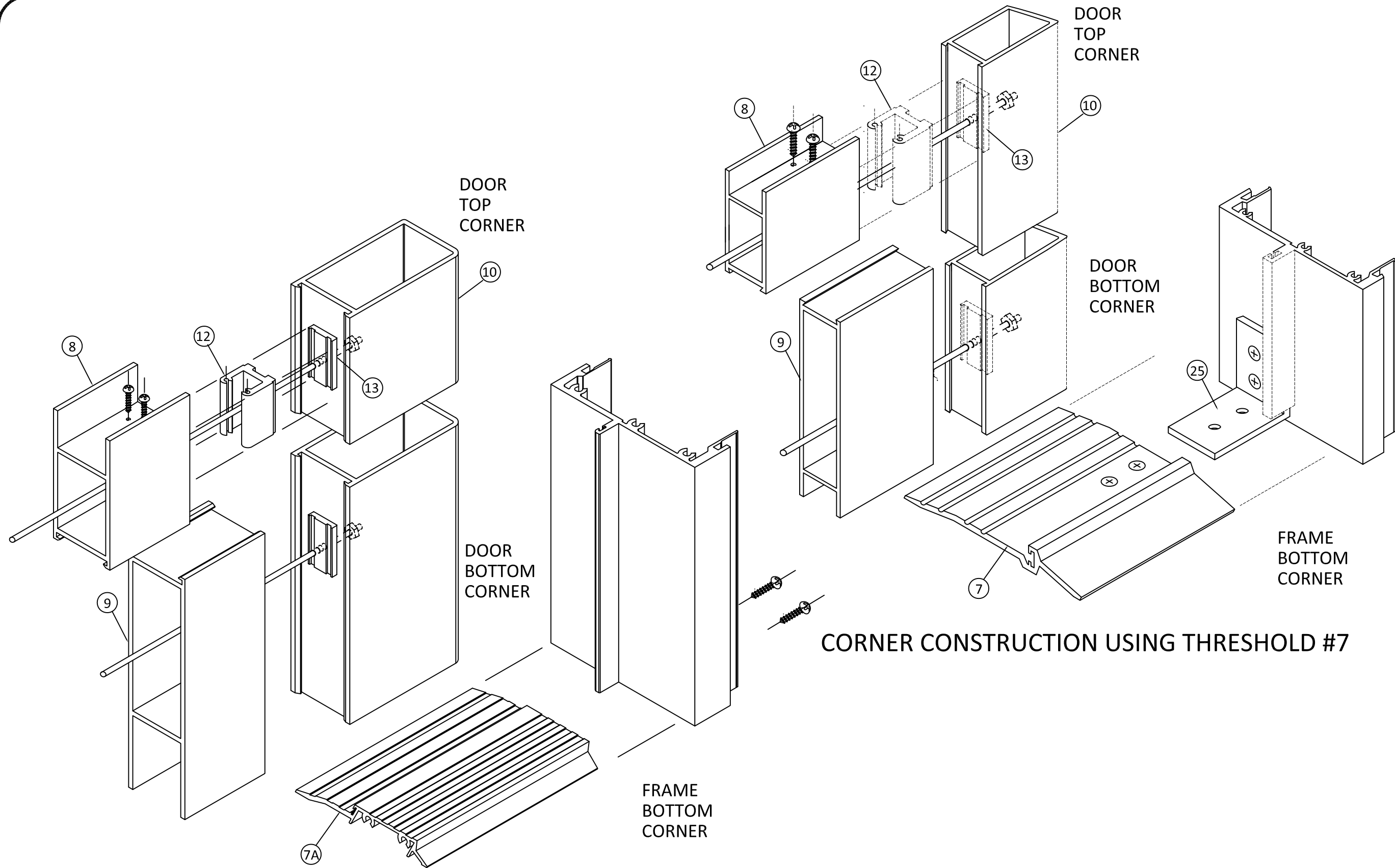
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FL #:	FL42119
DATE:	3.17.2022
DWG. BY:	CA
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	DWG010
SHEET:	7

6/12/2023 11:02 AM

s:\projects\downey glass\fbc-23-0528-2 - fbc submittal- aluminum impact storefront & entrance door.dwg\dwg\dg-100 door.dwg010.dwg



CORNER CONSTRUCTION USING THRESHOLD #7A



1010 NW 15TH AVE.
POMPANO BEACH, FL 33069

TITLE: DG-100 SERIES DOOR
(HVHZ)/(IMPACT)

ASSEMBLY DETAILS

PREPARED BY:

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DANIA BEACH, FL 33004

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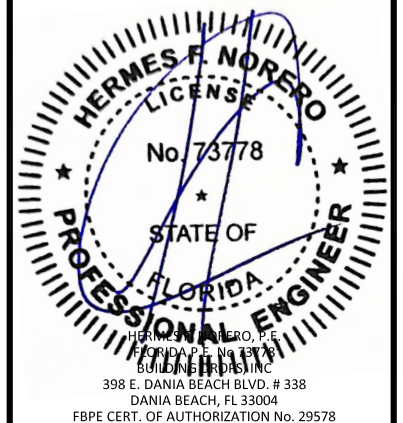
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REMARKS	BY	DATE

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