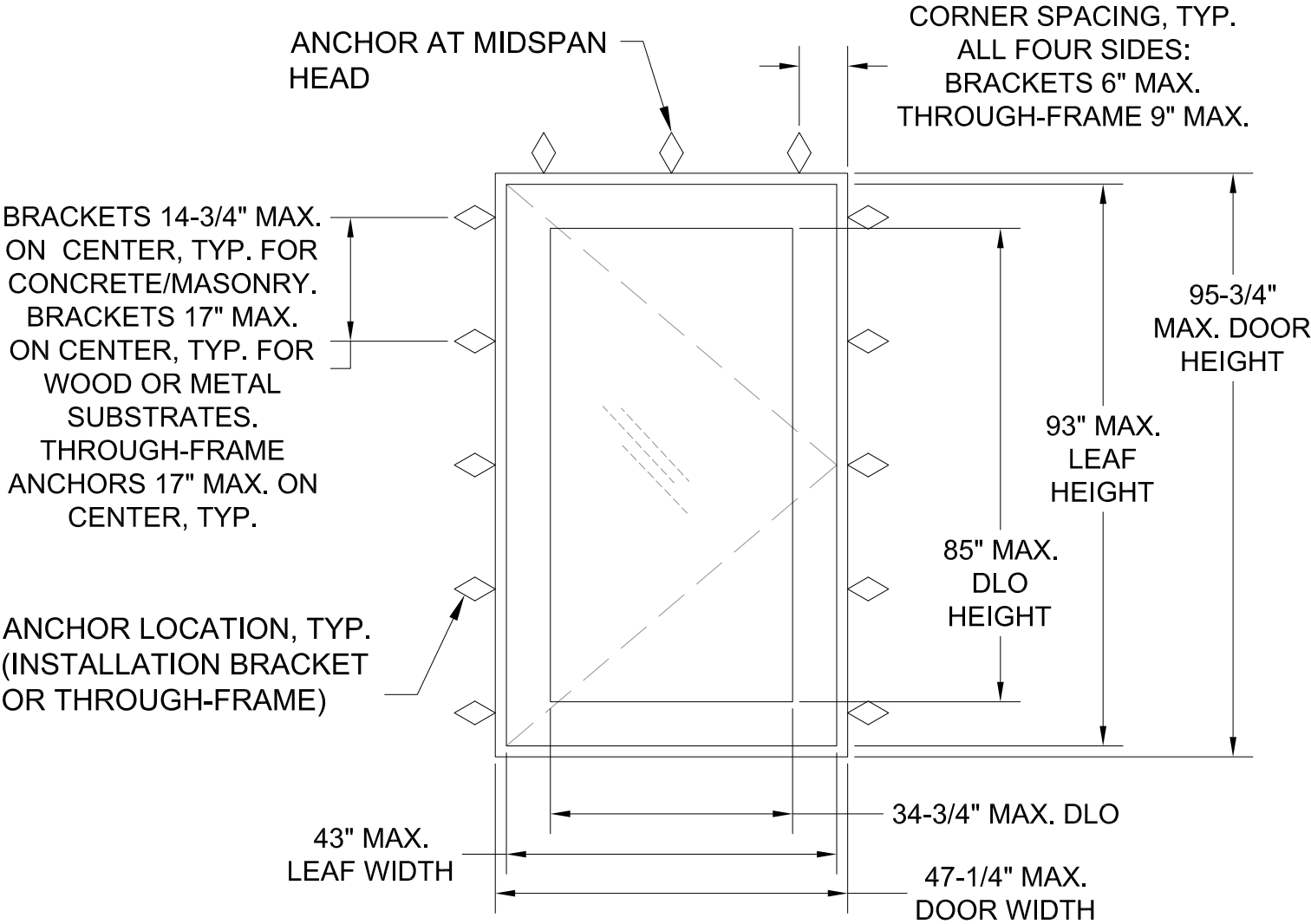


GENERAL NOTES

SUPERA OUTSWING SIDE-HINGED DOOR, NON-IMPACT

1. THE PRODUCT SHOWN HEREIN CONSTRUCTED FROM GEALAN EXTRUDED uPVC FRAMES HAS BEEN TESTED TO AAMA/WDMA/CSA 101/I.S.2/A440, AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 8TH EDITION (2023), FOR USE OUTSIDE THE HIGH VELOCITY HURRICANE ZONE.
2. THIS PRODUCT IS NOT IMPACT RESISTANT AND REQUIRES THE USE OF IMPACT PROTECTIVE DEVICES (SHUTTERS) IN WINDBORNE DEBRIS REGIONS.
3. THE DESIGN PRESSURES INDICATED IN THIS DRAWING ARE AS LIMITED BY TESTED WATER AND STRUCTURAL PRESSURES. GLAZING INSTALLED IN PRODUCT MUST BE ASTM E 1300 COMPLIANT WITH THE REQUIRED DESIGN PRESSURES FOR EACH PROJECT LOCATION.
4. THIS DOCUMENT ADDRESSES PRODUCT ANCHORAGE TO ACHIEVE THE INDICATED DESIGN PRESSURES AT THE INDICATED SIZES, IN THE CONFIGURATION SHOWN IN THE ELEVATIONS. INSTALL PRODUCTS WITH MAXIMUM SHIM GAP, MINIMUM EDGE DISTANCE AND EMBEDMENT, AND WITH FASTENER TYPE AS SHOWN IN THE DETAILS AND AS INDICATED IN TABLE 1. FOR FULL PRODUCT CONSTRUCTION DETAILS SEE MOLIMO TEST REPORTS 12198.01/02/03-106-13.
5. MIN. APPROVED GLAZING IS AS INDICATED IN THIS DRAWING.
6. THE 4/3 ALLOWABLE STRESS INCREASE FACTOR (SHORT-TERM INCREASE FACTOR) HAS NOT BEEN USED IN THE ANCHOR ANALYSIS FOR THIS SYSTEM. THE 1.6 Cd FACTOR WAS USED IN THE ANALYSIS OF ANCHORAGE INTO WOOD SUBSTRATE.
7. THE OPENING SUBSTRATE MATERIALS (FRAMING, MASONRY, BUCKS) AND ATTACHMENT OF BUCKS TO THE SUBSTRATE ARE BY OTHERS AND SHALL BE VERIFIED BY THE ARCHITECT OR ENGINEER OF RECORD OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ). BUCKING, OPENINGS, & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED BY OTHERS IN ACCORDANCE WITH THE FBC TO TRANSFER SUPERIMPOSED LOADS TO THE STRUCTURE. WITH MASONRY OPENINGS, WOOD BUCKS ARE OPTIONAL.
8. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE COATED OR OTHERWISE PROTECTED TO PREVENT GALVANIC REACTIONS. WOOD BUCKS, IF USED, SHALL BE PRESSURE TREATED, WITH EITHER A TREATMENT OR COATING COMPATIBLE WITH THIS PRODUCT.
9. ALL ANCHORS USED SHALL BE OF A MATERIAL OR HAVE A COATING COMPATIBLE WITH THE PRESSURE TREATED WOOD BUCKS AND ALL OTHER WINDOW MATERIALS.
10. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, OR AS APPROVED, SIGNED, AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER ON A SITE-SPECIFIC BASIS.
11. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE OF THE INSTALLED PRODUCT SHALL BE THE RESPONSIBILITY OF OTHERS AND ARE NOT ADDRESSED BY THIS DOCUMENT.
12. FOR ADDITIONAL REQUIREMENTS SEE GENERAL ANCHOR NOTES, SHEETS 3 AND 4.



TYP. ELEVATION
SEE DETAILS SHEET 2

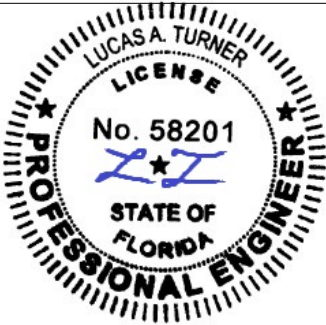
DESIGN PRESSURE RATING	IMPACT RATING
+70/-70 PSF	NONE



2720 Prosperity Ave.
Suite 400-1
Fairfax, VA 22031
Ph. (888) 380-9940

SHEET DESCRIPTION: NOTES, ELEVATIONS, DPs	DATE DRAWN: 8/25/2023
SCALE: NTS	REV: A
DRAWING: FPA-SUPERA-SWD-NI	SHEET: 1 OF 5

Lucas Turner
2024.07.24
14:38:19
-05'00'



7/24/2024
Lucas A. Turner, P.E.
FL PE #58201
Turner Engineering
& Consulting, Inc.
2428 Old Natchez Trc Trl
Camden, TN 38320
Ph. 941-380-1574

Technical drawings of the 100 Series door assembly, showing exterior and interior views with dimensions in inches and millimeters.

Exterior View Dimensions:

- Overall Height: 41¹/₆₄" [16.4"]
- Overall Width: 25³/₃₂" [13.0"]
- Top Section Height: 4³/₆₄" [117.0"]
- Top Section Width: 15¹/₃₂" [12.0"]
- Bottom Section Height: 1¹/₃₂" [12.7"] MAX.
- Bottom Section Width: 11¹/₃₂" [34.3"]
- Bottom Section Height: 2³/₃₂" [53.0"]

Interior View Dimensions:

- Overall Height: 49⁹/₆₄" [105.0"]
- Overall Width: 29²⁹/₃₂" [74.0"]
- Top Section Height: 6⁷/₃₂" [158.0"]
- Top Section Width: 1¹/₃₂" [12.7"] MAX.
- Bottom Section Height: 1¹/₃₂" [12.7"] MAX.
- Bottom Section Width: 11¹/₃₂" [34.3"]
- Bottom Section Height: 2³/₃₂" [53.0"]

Other Dimensions:

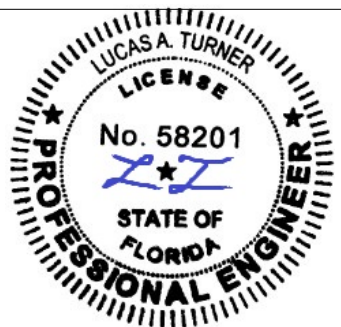
- Overall Height: 49⁹/₆₄" [105.0"]
- Overall Width: 29²⁹/₃₂" [74.0"]
- Top Section Height: 6⁷/₃₂" [158.0"]
- Top Section Width: 1¹/₃₂" [12.7"] MAX.
- Bottom Section Height: 1¹/₃₂" [12.7"] MAX.
- Bottom Section Width: 11¹/₃₂" [34.3"]
- Bottom Section Height: 2³/₃₂" [53.0"]

TYPICAL SECTION DETAILS HEAD/SILL



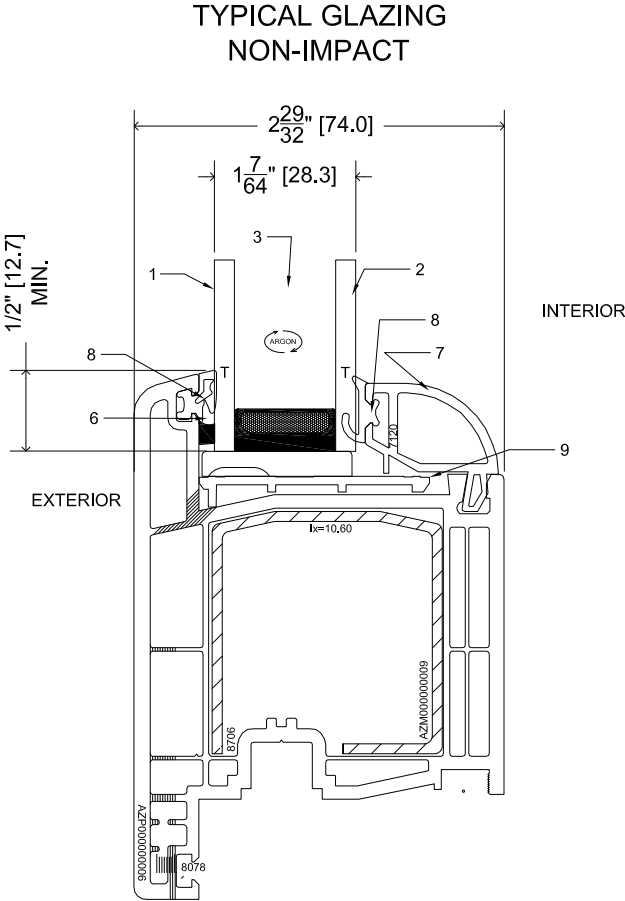
2720 Prosperity Ave.
Suite 400-1
Fairfax, VA 22031
Ph. (888) 380-9940

SHEET DESCRIPTION: SECTION DETAILS	DATE DRAWN: 8/25/2023
SCALE: NTS	REV: A
DRAWING: FPA-SUPERA-SWD-NI	SHEET: 2 OF 5



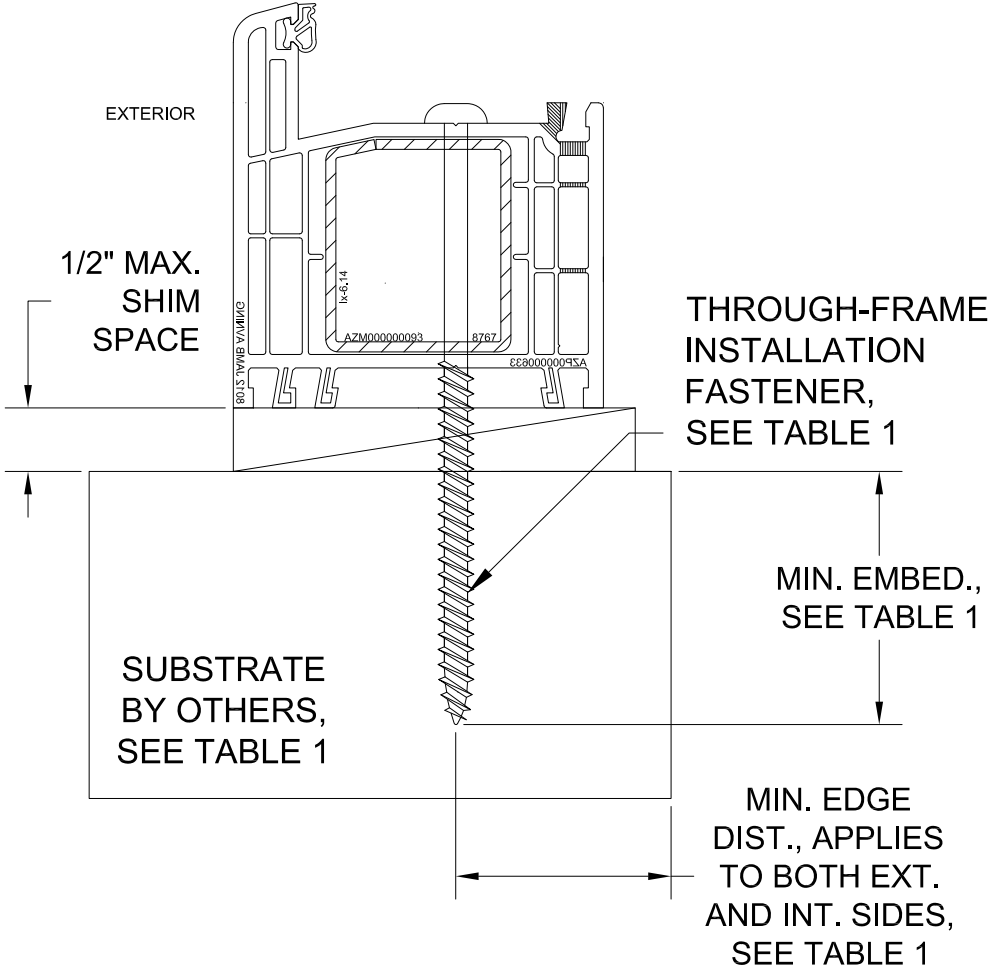
7/24/2024
Lucas A. Turner, P.E.
FL PE #58201
Turner Engineering
& Consulting, Inc.
2428 Old Natchez Trc Trl
Camden, TN 38320
Ph. 941-380-1574

SUPERA OUTSWING SIDE-HINGED DOOR, NON-IMPACT



- 1- Glass Pane 0.157" (4mm) Fully Tempered
- 2- Glass Pane 0.157" (4mm) Fully Tempered
- 3- 90% ARGON Space 0.472" (12mm) Swissspacer Advance Warm Edge
- 4-5- Not used
- 6- Tremco SG301 Sealant
- 7- Glazing Bead 7120
- 8- Flexible uPVC gasket
- 9- Plastic shim

TYPICAL GLAZING
DETAIL



TYPICAL THROUGH-FRAME
INSTALLATION HEAD / JAMB

- THROUGH-FRAME ANCHOR NOTES:
- 1. INSTALL ONE ANCHOR AS INDICATED IN DETAIL ON THIS SHEET AT EACH LOCATION SHOWN IN THE ELEVATION ON SHEET 1.
 - 2. INSTALL SHIMS AS INDICATED THIS SHEET, AT EACH ANCHOR LOCATION WHICH HAS MORE THAN 1/16" GAP BETWEEN THE FRAME AND THE SUBSTRATE.
 - 3. SHIMS SHALL BE LOAD-BEARING ABS PLASTIC CAPABLE OF TRANSFERRING LOADS TO SUBSTRATE.
 - 4. SPECIFIED ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL FINISH OR STUCCO, BY OTHERS. FOR ATTACHMENT TO METAL SUBSTRATES ENSURE FULL THREAD ENGAGEMENT THROUGH METAL WALL WITH MIN. 3 THREADS BEYOND.
 - 5. FOR MASONRY WITH WOOD BUCKS LESS THAN 1-1/2" THICK, EMBEDMENT SHALL BE BEYOND WOOD BUCKS AND INTO MASONRY. WOOD BUCKS ARE OPTIONAL WITH MASONRY INSTALLATIONS WHERE MASONRY EDGE DISTANCE CONDITIONS ARE MET WITH NO BUCKS. WOOD BUCKS 1-1/2" THICK OR GREATER SHALL HAVE EMBEDMENT INTO THE WOOD BUCKS.
 - 6. ENSURE 5" MIN. ON-CENTER SPACING BETWEEN ANY TWO INSTALLATION ANCHORS.

TABLE 1: THROUGH-FRAME INSTALLATION ANCHOR REQUIREMENTS TABLE			
SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED.	MIN. EDGE DIST.
CONCRETE (3.5 KSI MIN.)	5/16" DEWALT ULTRACON	1-3/4"	1-1/4"
GROUT-FILLED CMU (ASTM C90)	5/16" DEWALT ULTRACON	1-3/4"	2-1/2"
2X MIN. SOUTHERN PINE WOOD (G=0.55)	5/16" GRADE 5 LAG SCREW	1-3/8"	1"
16 GAUGE (0.060") MIN. STEEL STUD, 33KSI YIELD MIN., OR 1/8" ALUM. 6063-T5 MIN.	5/16" SELF-DRILLING SCREW	FULL	3/4"



2720 Prosperity Ave.
Suite 400-1
Fairfax, VA 22031
Ph. (888) 380-9940

SHEET DESCRIPTION:
GLAZING, THRU-FRAME INSTALL

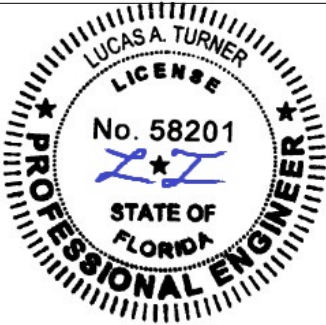
DATE DRAWN:
8/25/2023

SCALE: NTS

REV: A

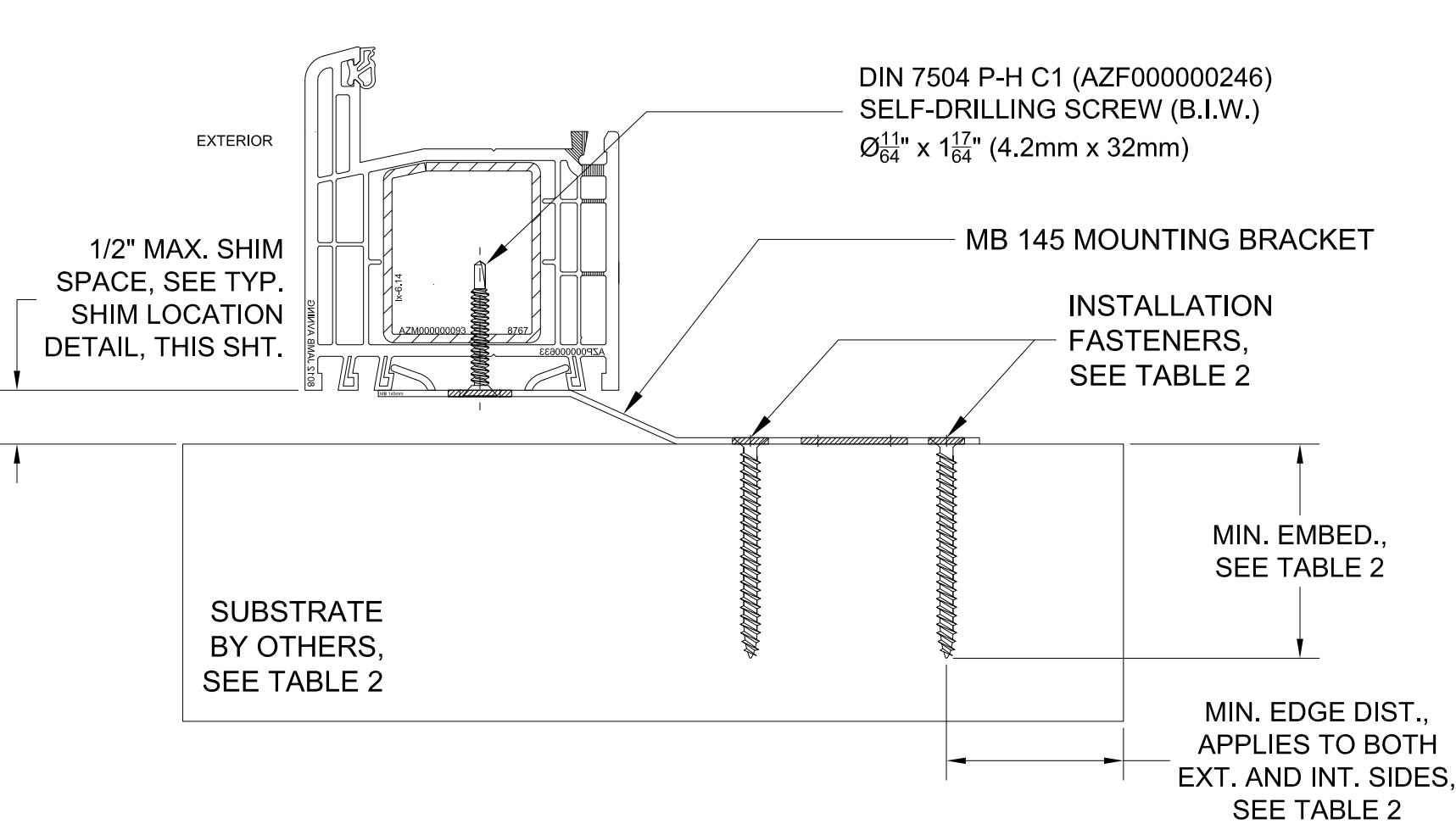
DRAWING: FPA-SUPERA-SWD-NI

SHEET: 3 OF 5

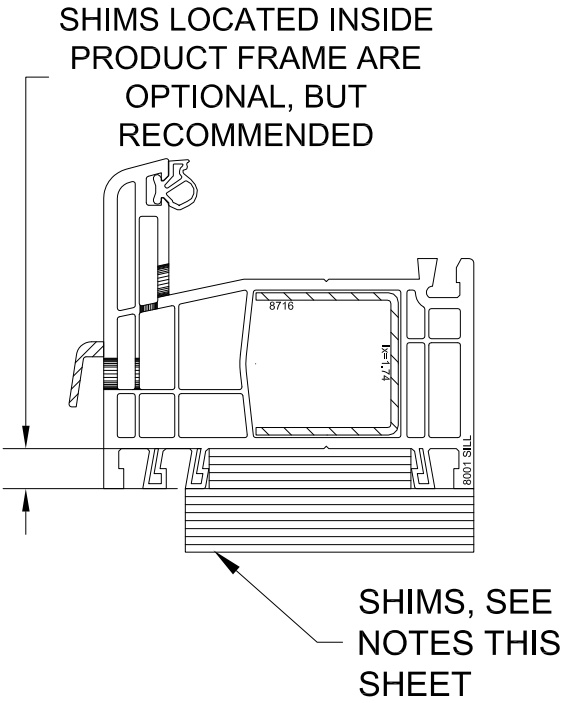


7/24/2024
Lucas A. Turner, P.E.
FL PE #58201
Turner Engineering
& Consulting, Inc.
2428 Old Natchez Trc Trl
Camden, TN 38320
Ph. 941-380-1574

SUPERA OUTSWING SIDE-HINGED DOOR, NON-IMPACT



TYPICAL BRACKET INSTALLATION HEAD / JAMB



TYP. SHIM LOCATION

LOCATE 6" FROM CORNERS AND 20" MAX. ON CENTER THEREAFTER, AT SILL AND JAMBS

- BRACKET ANCHOR NOTES:
1. INSTALL ONE ANCHOR BRACKET AS INDICATED IN DETAILS ON THIS SHEET AT EACH LOCATION SHOWN IN THE ELEVATION ON SHEET 1. INSTALL ANCHOR BRACKET TO PRODUCT FRAME WITH ONE SELF-DRILLING SCREW AS INDICATED, AND INSTALL ANCHOR BRACKET TO OPENING SUBSTRATE USING TWO INSTALLATION FASTENERS IN ACCORDANCE WITH TABLE 1.
 2. INSTALL SHIMS AS INDICATED THIS SHEET, AT 6" FROM CORNERS AND 20" MAX. ON CENTER THEREAFTER AT JAMBS AND SILL.
 3. SHIMS SHALL BE LOAD-BEARING ABS PLASTIC CAPABLE OF TRANSFERRING LOADS TO SUBSTRATE.
 4. SPECIFIED ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL FINISH OR STUCCO, BY OTHERS. FOR ATTACHMENT TO METAL SUBSTRATES ENSURE FULL THREAD ENGAGEMENT THROUGH METAL WALL WITH MIN. 3 THREADS BEYOND.
 5. FOR MASONRY WITH WOOD BUCKS LESS THAN 1-1/2" THICK, EMBEDMENT SHALL BE BEYOND WOOD BUCKS AND INTO MASONRY. WOOD BUCKS ARE OPTIONAL WITH MASONRY INSTALLATIONS WHERE MASONRY EDGE DISTANCE CONDITIONS ARE MET WITH NO BUCKS. WOOD BUCKS 1-1/2" THICK OR GREATER SHALL HAVE EMBEDMENT INTO THE WOOD BUCKS.
 6. ENSURE 1-1/2" MIN. ON-CENTER SPACING BETWEEN ANY TWO INSTALLATION ANCHORS.

TABLE 2: MOUNTING BRACKET INSTALLATION ANCHOR REQUIREMENTS TABLE

SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED.	MIN. EDGE DIST.
CONCRETE (2.0 KSI MIN)	3/16" ITW TAPCON	1"	3"
HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1"	3"
CONCRETE (3.05 KSI MIN.)	3/16" DEWALT ULTRACON+	1-3/4"	1"
GROUT-FILLED CMU (ASTM C90)	3/16" DEWALT ULTRACON+	1-3/4"	1"
2X MIN. SOUTHERN PINE WOOD (G=0.55)	#10 GRADE 5 WOOD SCREW	1-3/8"	1"
16 GAUGE (0.060") MIN. STEEL STUD, 33KSI YIELD MIN., OR 1/8" ALUM. 6063-T5 MIN.	#10-16 HILTI KWIK-FLEX OR ITW TEKS SELF-DRILLING SCREW	FULL	1/2"



2720 Prosperity Ave.
Suite 400-1
Fairfax, VA 22031
Ph. (888) 380-9940

SHEET DESCRIPTION:
BRACKET INSTALLATION

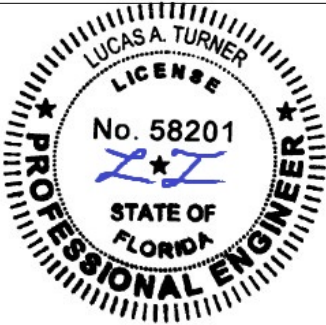
DATE DRAWN:
8/25/2023

SCALE: NTS

REV: A

DRAWING: FPA-SUPERA-SWD-NI

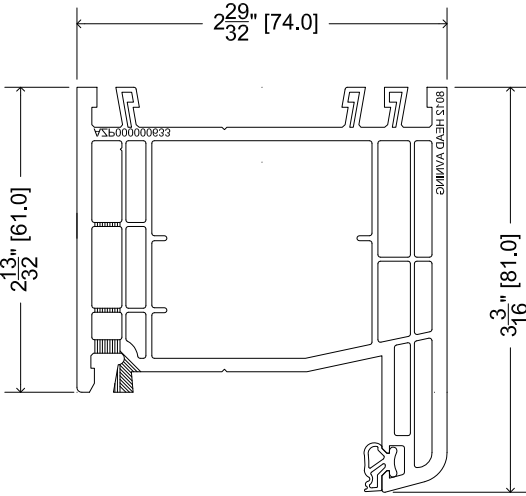
SHEET: 4 OF 5



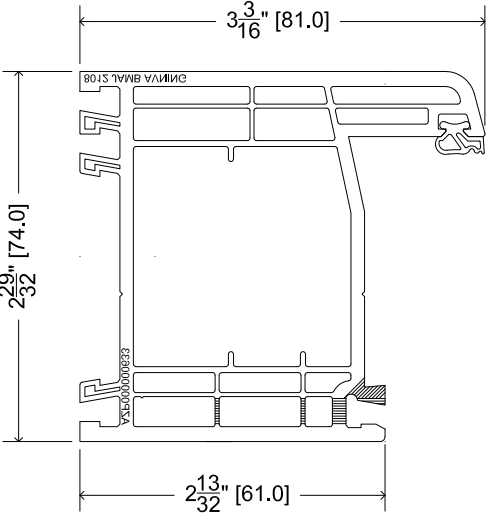
7/24/2024
Lucas A. Turner, P.E.
FL PE #58201
Turner Engineering
& Consulting, Inc.
2428 Old Natchez Trc Trl
Camden, TN 38320
Ph. 941-380-1574

BILL OF MATERIALS

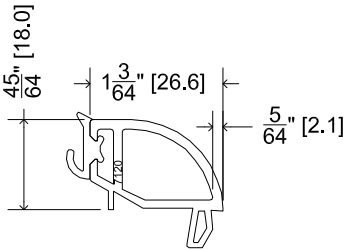
PART #	DESCRIPTION	SOURCE	MATERIAL
8012 HEAD	FRAME HEAD	GEALAN	uPVC
8012 JAMB	FRAME JAMB	GEALAN	uPVC
8078	SASH	GEALAN	uPVC
8767	FRAME REINFORCEMENT	GEALAN	GALV. STEEL
8706	SASH REINFORCEMENT	GEALAN	GALV. STEEL
7120	GLAZING BEAD	GEALAN	uPVC
MB 145	MOUNTING BRACKET	GEALAN	GALV. STEEL
8471	THRESHOLD BASE	GEALAN	ALUMINUM
2267	UNDERSILL PROFILE	GEALAN	uPVC



8012 HEAD

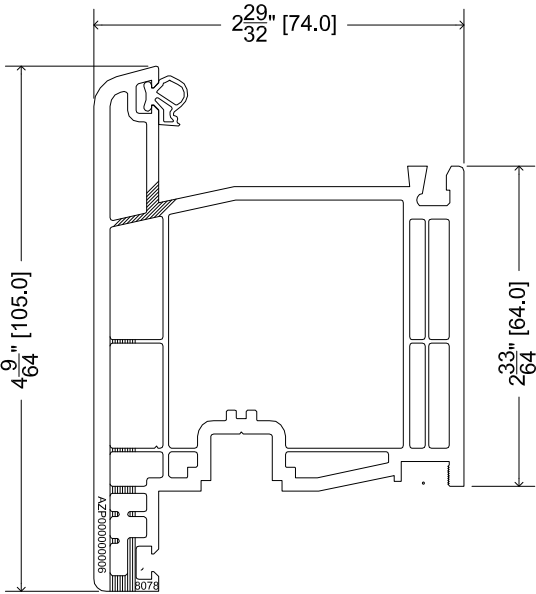


8012 JAMB

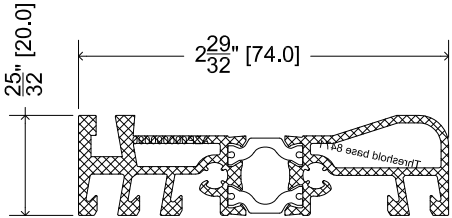


7120

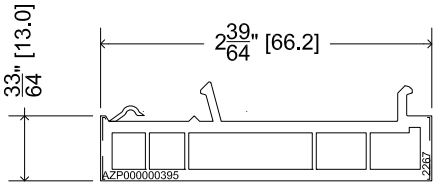
SUPERA OUTSWING SIDE-HINGED DOOR, NON-IMPACT



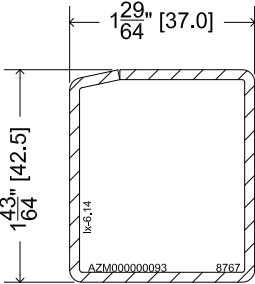
8078



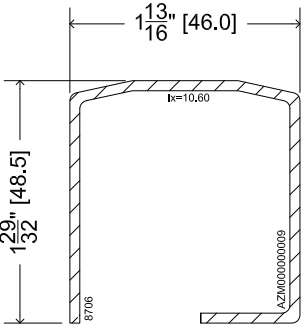
8471



2267



8767



8706



2720 Prosperity Ave.
Suite 400-1
Fairfax, VA 22031
Ph. (888) 380-9940

SHEET DESCRIPTION:
BOM, PART DWGS

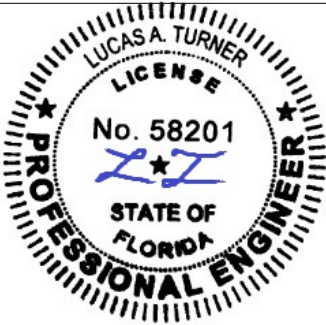
DATE DRAWN:
8/25/2023

SCALE: NTS

REV: A

DRAWING: FPA-SUPERA-SWD-NI

SHEET: 5 OF 5



7/24/2024
Lucas A. Turner, P.E.
FL PE #58201
Turner Engineering
& Consulting, Inc.
2428 Old Natchez Trc Trl
Camden, TN 38320
Ph. 941-380-1574