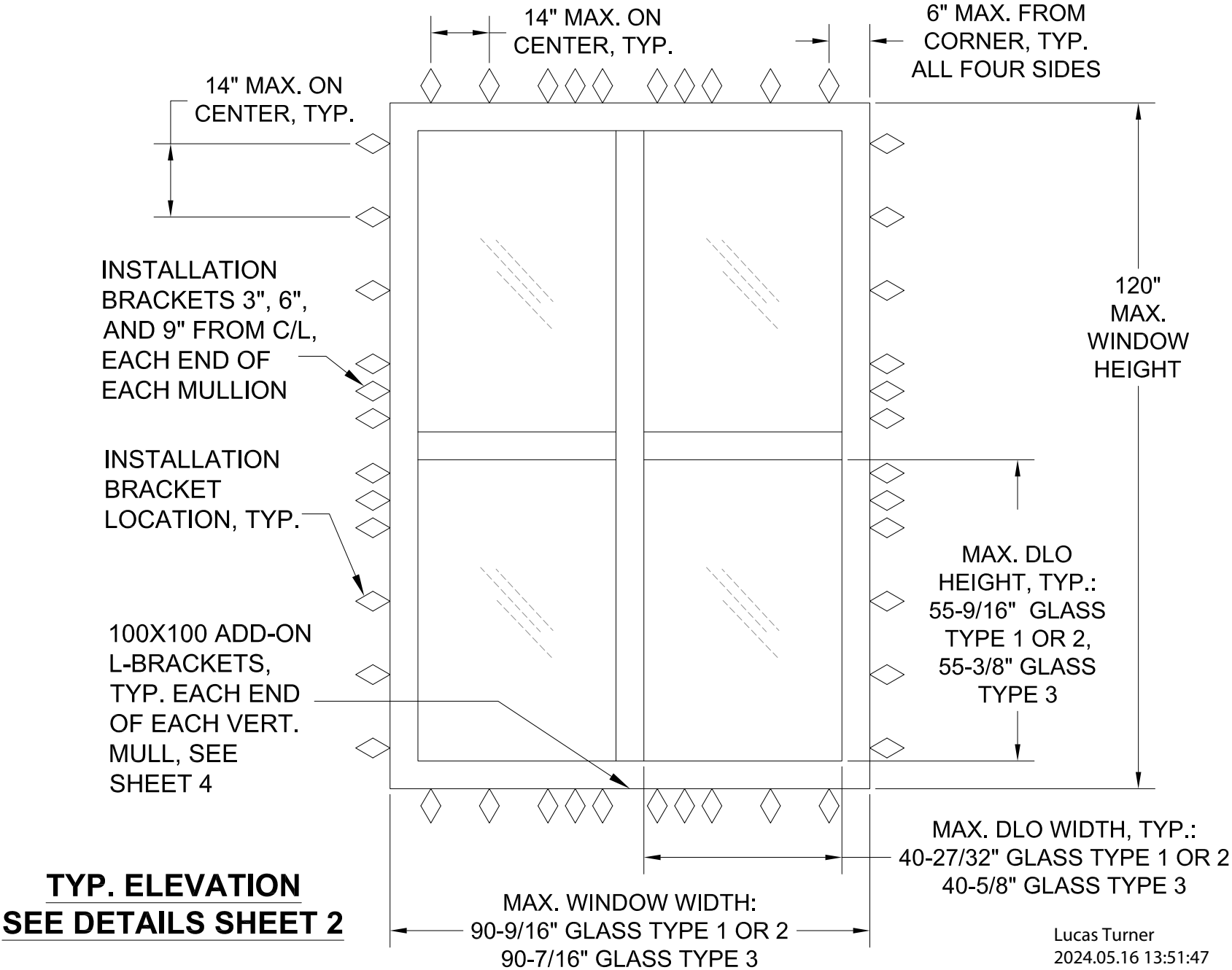


SUPERA COMPOSITE WINDOW, IMPACT

GENERAL NOTES

1. THE PRODUCT SHOWN HEREIN CONSTRUCTED FROM GEALAN EXTRUDED uPVC FRAMES HAS BEEN TESTED TO TAS201/202/203-94, AAMA/WDMA/CSA 101/I.S.2/A440, AND ASTM E1886/E1996, AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 8TH EDITION (2023), INCLUDING THE HIGH VELOCITY HURRICANE ZONE.
2. WITH GLASS TYPES 1 OR 2 AS INDICATED IN THIS DRAWING, THIS PRODUCT IS SMALL MISSILE IMPACT RESISTANT AND DOES NOT REQUIRE THE USE OF IMPACT PROTECTIVE DEVICES (SHUTTERS) WHEN INSTALLED ABOVE 30 FT OF GRADE IN WINDBORNE DEBRIS REGIONS. WITH GLASS TYPE 3 AS INDICATED IN THIS DRAWING, THIS PRODUCT IS LARGE MISSILE IMPACT RESISTANT AND DOES NOT REQUIRE THE USE OF IMPACT PROTECTIVE DEVICES (SHUTTERS) IN WINDBORNE DEBRIS REGIONS.
3. THE DESIGN PRESSURES INDICATED IN THIS DRAWING ARE AS LIMITED BY ASTM E-1300 GLASS TABLES, AND TESTED WATER, STRUCTURAL, AND CYCLIC PRESSURES.
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 12200.01/02/03/04/05/06-106-13, 28332.01/02-106-13, AND 28332.03-106-11.
5. 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, SHEET 4.



DESIGN PRESSURE RATING	IMPACT RATING	GLAZING REQUIRED (SEE SHEET 3)
+50/-50 PSF	SMALL MISSILE	GLASS TYPE 1 (DRY GLAZED)
+90/-90 PSF	SMALL MISSILE	GLASS TYPE 2 (WET GLAZED)
+90/-90 PSF	LARGE MISSILE	GLASS TYPE 3 (WET GLAZED)



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SHEET DESCRIPTION:
NOTES, ELEVATIONS, DPs

SCALE: NTS

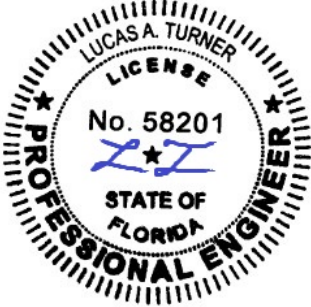
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12/18/2023

REV: A

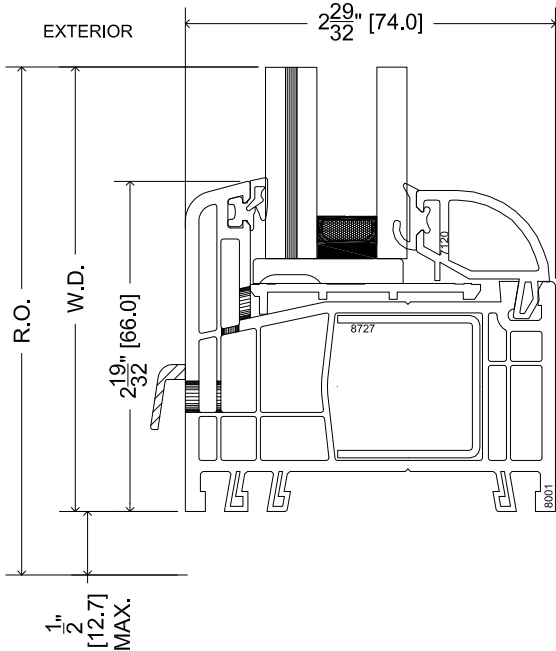
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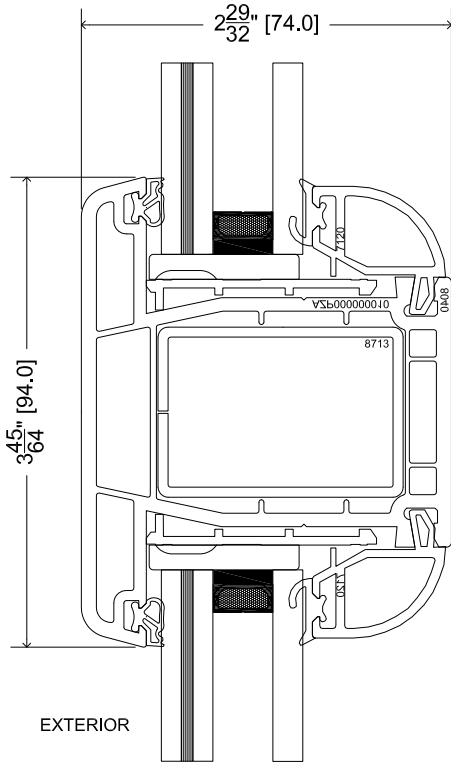


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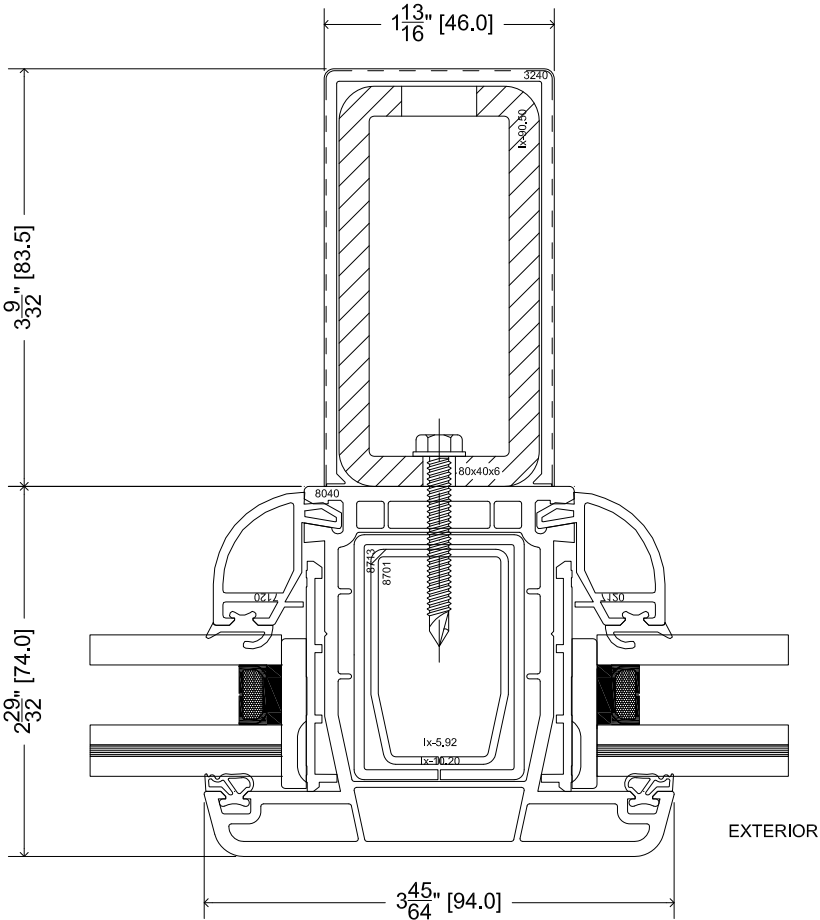
SUPERA COMPOSITE WINDOW, IMPACT



TYPICAL SECTION DETAIL
HEAD/SILL/JAMB



TYPICAL SECTION DETAIL
HORIZONTAL MULLION



TYPICAL SECTION DETAIL
VERTICAL MULLION

MULLION JOINERY NOTE:
IMPOST MULLIONS ARE
ATTACHED TO MAIN FRAME
WITH TWO 3/4" X 1-1/2" STEEL
L-BRACKETS PER MULL END,
USING TWO #8 SCREWS PER
BRACKET TO MULLION AND
TO MAIN FRAME



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SHEET DESCRIPTION:
SECTION DETAILS

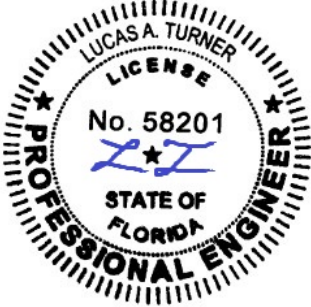
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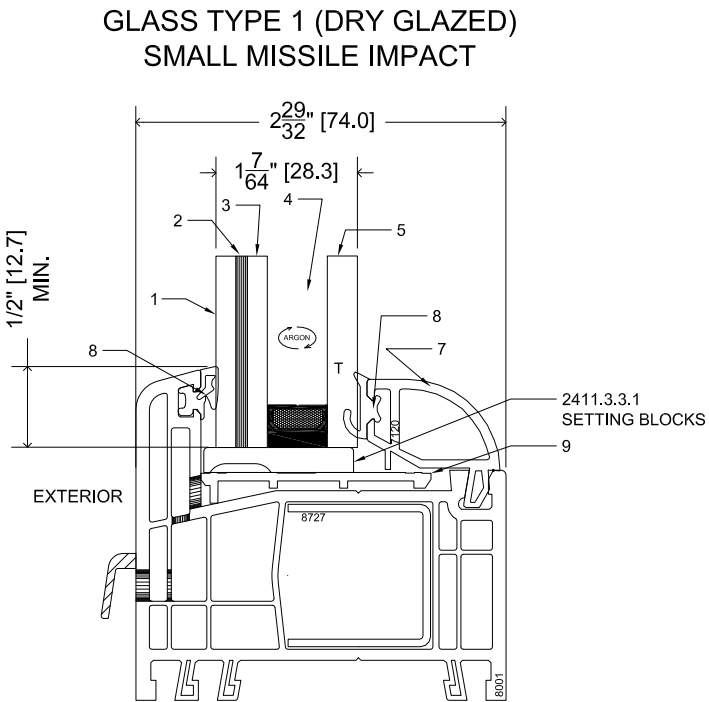
SHEET: 2 OF 5



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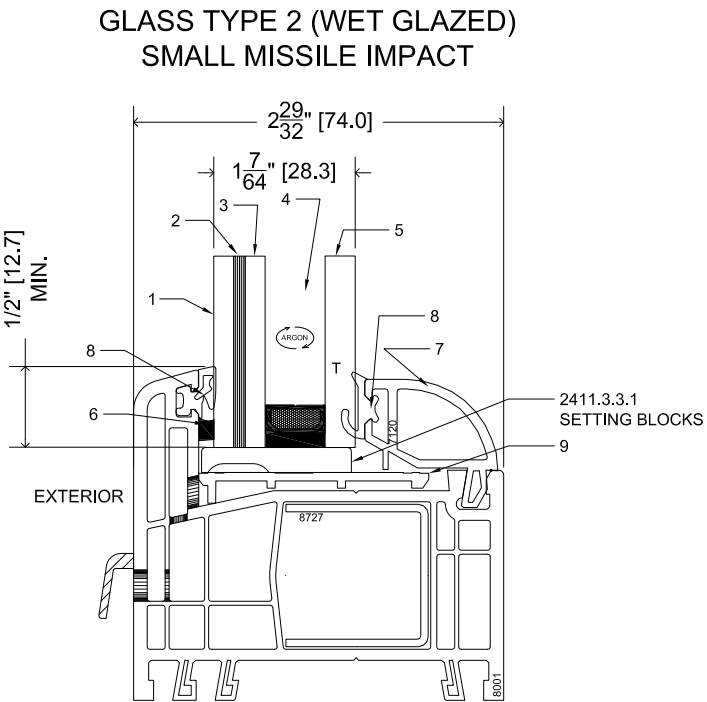
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SUPERA COMPOSITE WINDOW, IMPACT

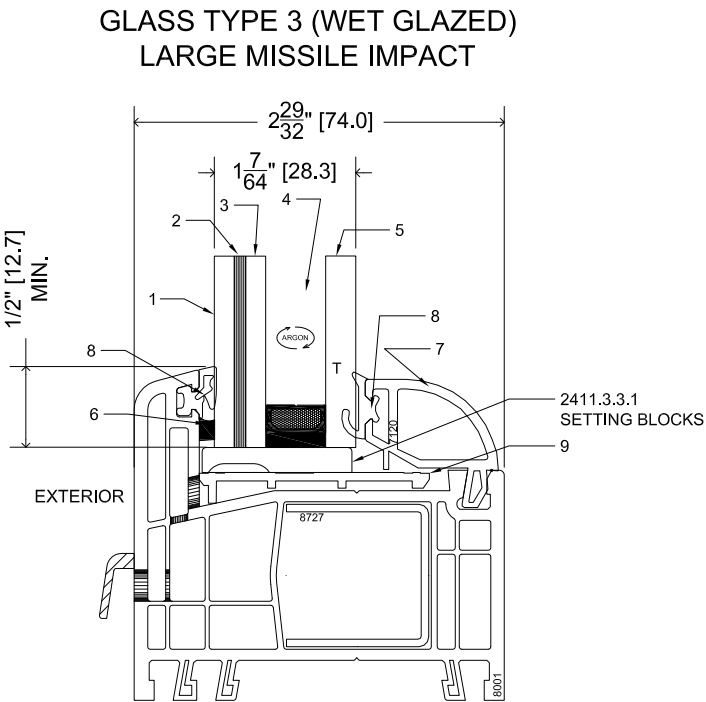


- 1- Glass Pane 0.157" (4mm) Annealed
- 2- 0.060" (1.52mm) Trosifol PVB
- 3- Glass Pane 0.157" (4mm) Annealed
- 4- 90% ARGON Space 0.472" (12mm) Swissspacer Advance Warm Edge
- 5- Glass Pane 0.236" (6mm), Fully Tempered
- 6- Not used.
- 7- Glazing Bead 7120
- 8- Flexible uPVC gasket
- 9- Plastic shim

TYPICAL GLAZING
DETAILS, SMALL MISSILE



- 1- Glass Pane 0.157" (4mm) Annealed
- 2- 0.060" (1.52mm) Trosifol PVB
- 3- Glass Pane 0.157" (4mm) Annealed
- 4- 90% ARGON Space 0.472" (12mm) Swissspacer Advance Warm Edge
- 5- Glass Pane 0.236" (6mm), Fully Tempered
- 6- Tremco SG301 Sealant
- 7- Glazing Bead 7120
- 8- Flexible uPVC gasket
- 9- Plastic shim



- 1- Glass Pane 0.157" (4mm) Annealed
- 2- 0.090" (2.28mm) Kuraray Sentryglas SG5000
- 3- Glass Pane 0.157" (4mm) Annealed
- 4- 90% ARGON Space 0.472" (12mm) Swissspacer Advance Warm Edge
- 5- Glass Pane 0.236" (6mm), Fully Tempered
- 6- Tremco SG301 Sealant
- 7- Glazing Bead 7120
- 8- Flexible uPVC gasket
- 9- Plastic shim

TYPICAL GLAZING
DETAIL, LARGE MISSILE



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SHEET DESCRIPTION:
GLAZING DETAILS

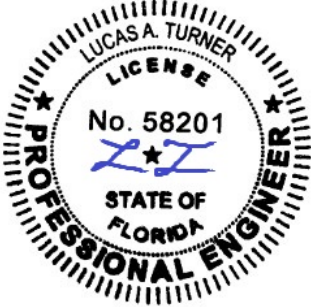
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12/18/2023

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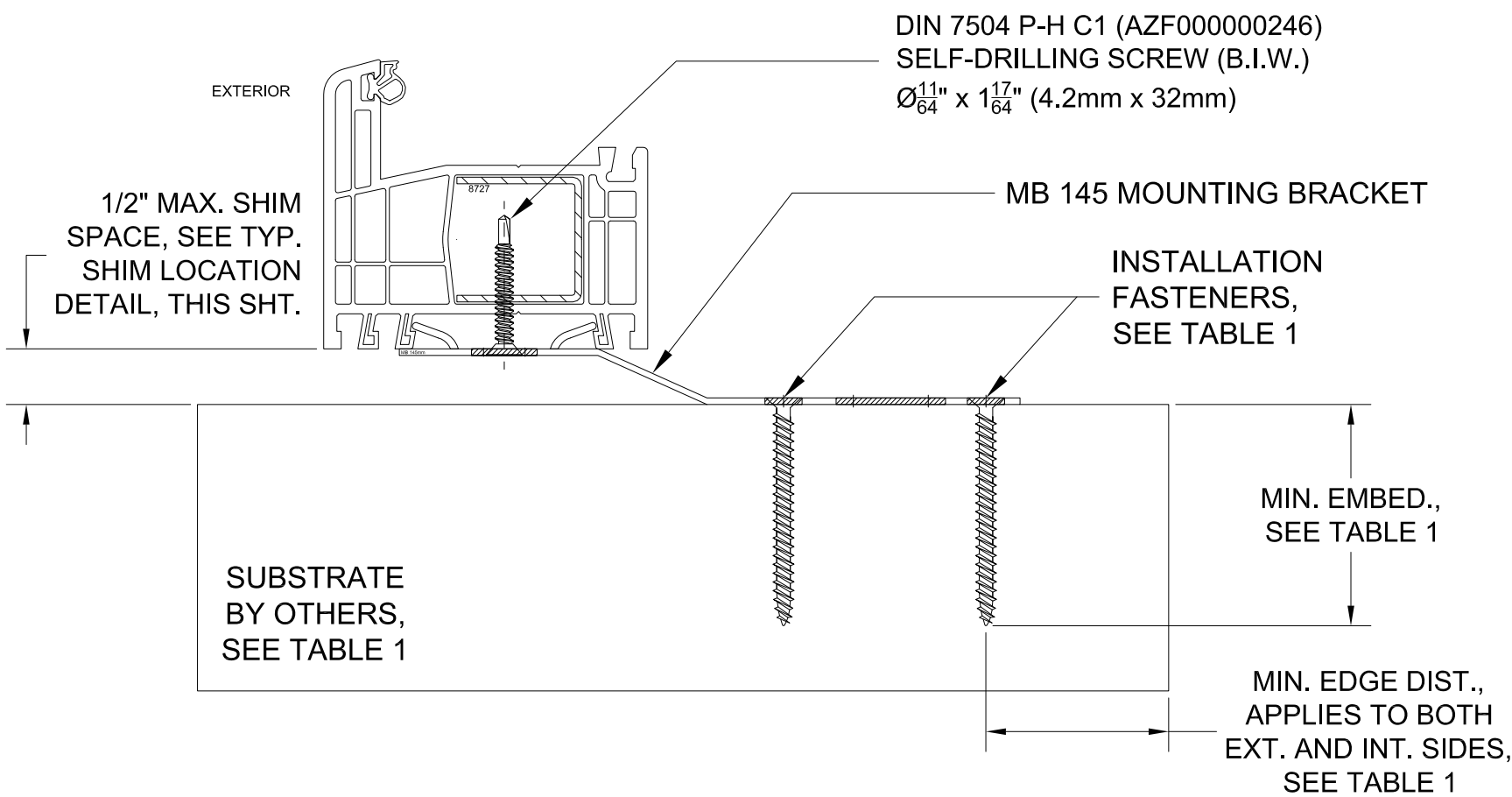
SHEET: 3 OF 5



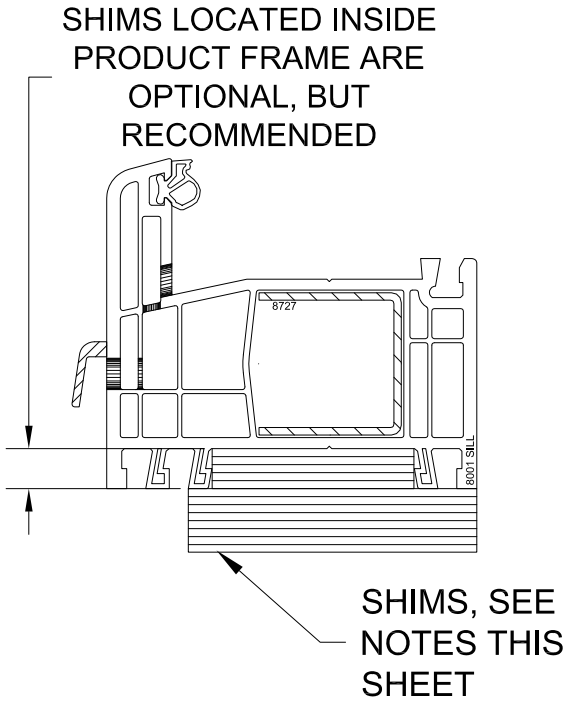
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SUPERA COMPOSITE WINDOW, IMPACT



TYPICAL BRACKET INSTALLATION HEAD / SILL / JAMB



TYP. SHIM LOCATION

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

- GENERAL 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. INSTALL TWO 100X100X60 L-BRACKETS AT EACH END OF EACH 80X40X6 MULLION AS SHOWN SHEET 4.
 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 1-1/8" MIN. ON-CENTER SPACING BETWEEN ANY TWO INSTALLATION ANCHORS.

TABLE 1: MOUNTING BRACKET INSTALLATION ANCHOR REQUIREMENTS TABLE

SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED.	MIN. EDGE DIST.
GROUT-FILLED CMU (ASTM C90) @ MB-145 MOUNTING BRACKETS	3/16" DEWALT ULTRACON+	1-3/4"	1"
GROUT-FILLED CMU (ASTM C90) @ 100X100X60 L-BRACKETS	3/16" DEWALT ULTRACON+	1-3/4"	2-1/2"
ANCHORAGE APPLICABLE TO BOTH MB-145 MOUNTING BRACKET AND 100X100X60 L-BRACKET:			
CONCRETE (3.05 KSI MIN.)	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"



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SHEET DESCRIPTION:
INSTALLATION

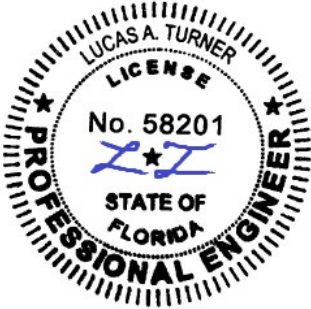
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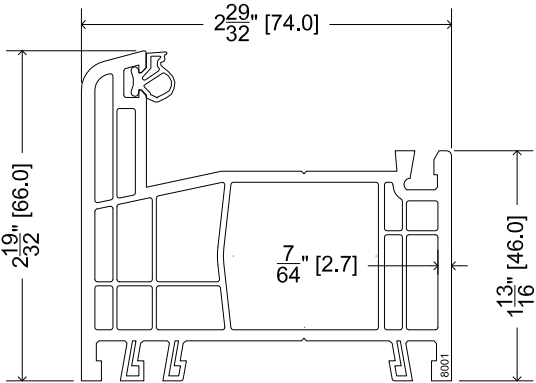
SHEET: 4 OF 5



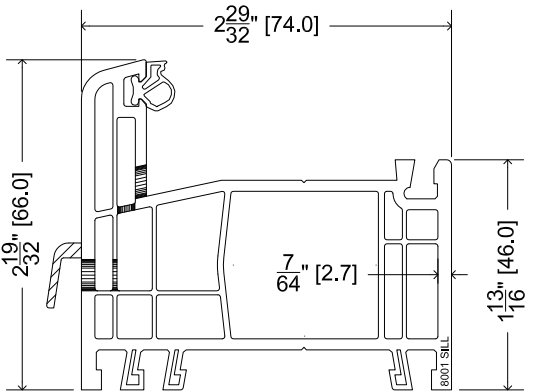
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BILL OF MATERIALS

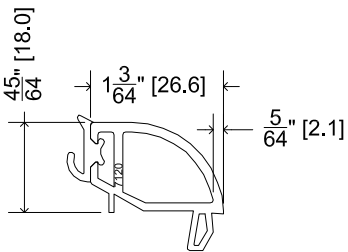
PART #	DESCRIPTION	SOURCE	MATERIAL
8001 SILL	FRAME SILL	GEALAN	uPVC
8001	FRAME HEAD/JAMB	GEALAN	uPVC
8040	MULLION	GEALAN	uPVC
7120	GLAZING BEAD	GEALAN	uPVC
3240	80X40X8 COVER	GEALAN	uPVC
8701	MULL REINFORCEMENT	GEALAN	GALV. STEEL
8713	MULL REINFORCEMENT	GEALAN	GALV. STEEL
8727	REINF. PERIMETER FRAME	GEALAN	GALV. STEEL
80X40X8	80X40X8 REINF. STEEL	GEALAN	GALV. STEEL
MB 145	MOUNTING BRACKET	GEALAN	GALV. STEEL
-	100X100X60X2.5 L-BRACKET	GEALAN	GALV. STEEL



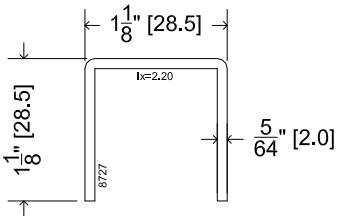
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8001 SILL

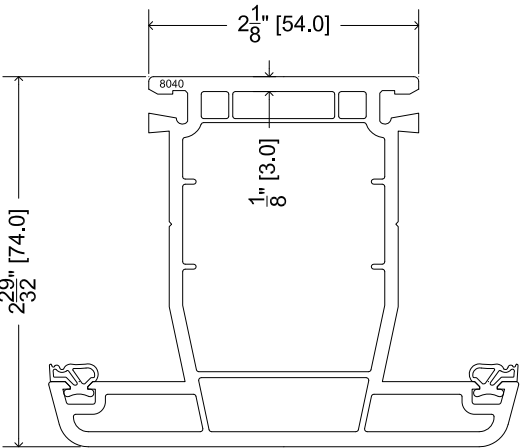


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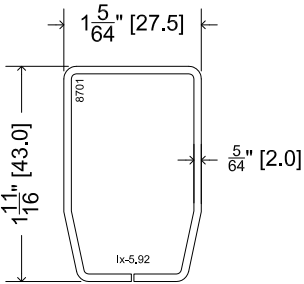


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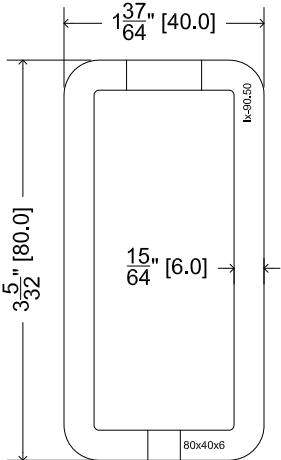
SUPERA COMPOSITE WINDOW, IMPACT



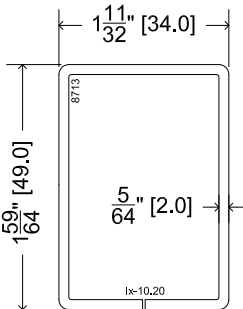
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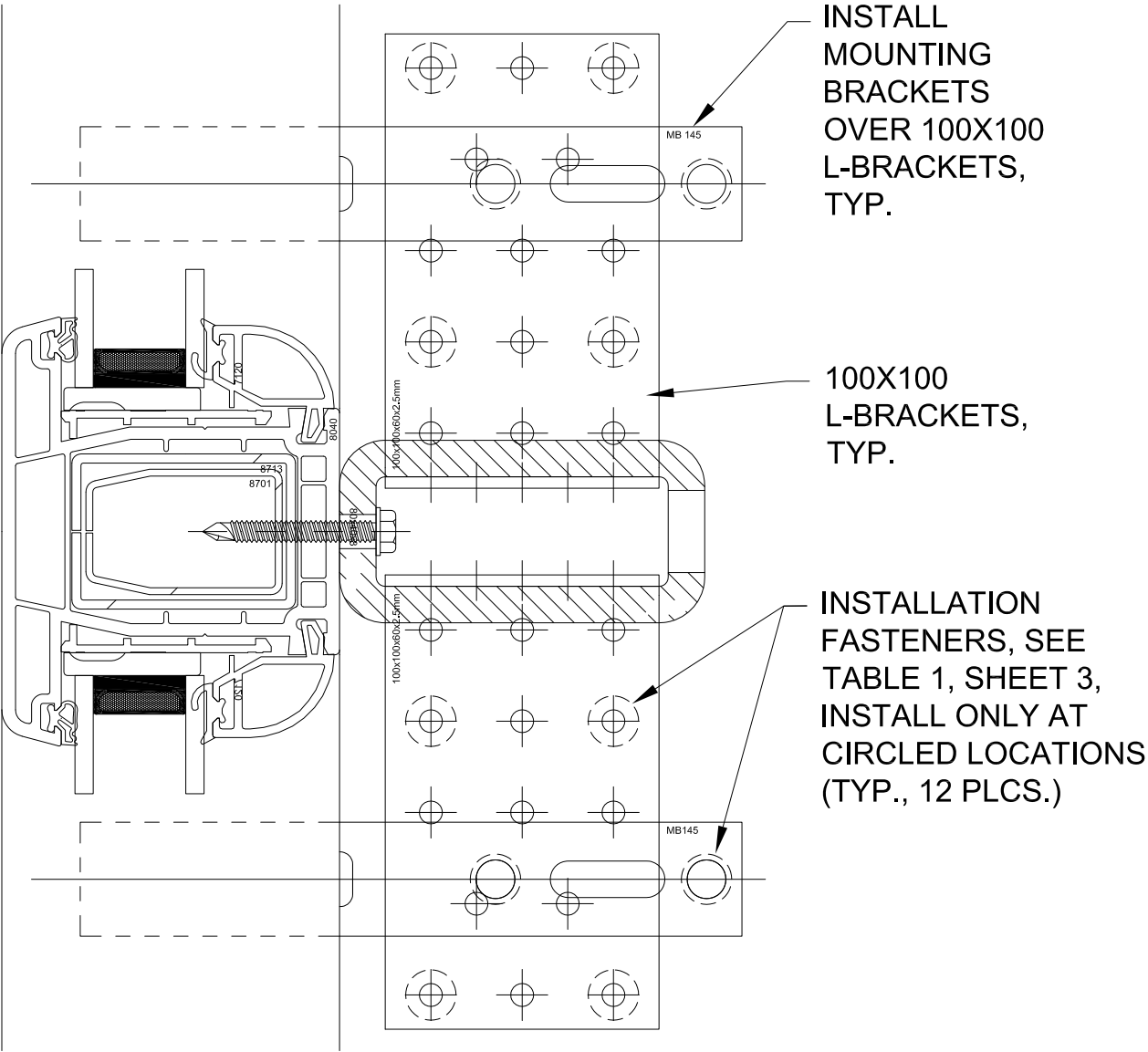
8701



80X40X6



8713



TYPICAL INSTALLATION AT VERT. MULLION ENDS

SEE GENERAL ANCHOR NOTES SHEET 3



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SHEET DESCRIPTION:
BOM, PART DWGS

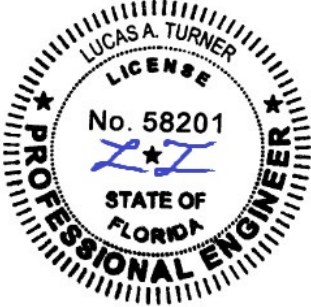
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DRAWING: FPA-SUPERA-COMP

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SHEET: 5 OF 5



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