MELFL, INC. HURRICANE SCREEN NO. 1 (HS1)

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

- 1. THIS PRODUCT HAS BEEN TESTED, EVALUATED AND DESIGNED TO COMPLY WITH REQUIREMENTS OF THE 2018 IBC AND 2018 IRC AT THE DESIGN PRESSURES SHOWN ON SHEET 1.
- 2. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT LAB NO. 10870 AND ASSOCIATED LABORATORY DRAWINGS BY FTL, MEDLEY, FL 33166, SIGNED AND SEALED BY IDALMIS ORTEGA, FL PE NO. 76905.
- 3. THIS PRODUCT EVALUATION DOCUMENT IS APPROVED FOR USE IN WINDBORNE DEBRIS REGIONS.
- 4. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE / MASONRY AND 2X FRAMING FRAMING SUBSTRATES AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION.
- 5. 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 LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION.
- 6. WHEN INSTALLED IN LOCATIONS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST. THIS PRODUCT DOES NOT REQUIRE OPENING PROTECTION.
- 7. SITE CONDITIONS NOT COVERED IN THIS PRODUCT EVALUATION DOCUMENT ARE SUBJECT TO ADDITIONAL ENGINEERING ANALYSIS BY A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- 8. THESE DRAWINGS CERTIFY THE IMPACT SCREEN INSTALLATION ONLY.
- 9. SEE IMPACT SCREEN-TO-FENESTRATION SEPARATION REQUIREMENTS ON SHEET 3.

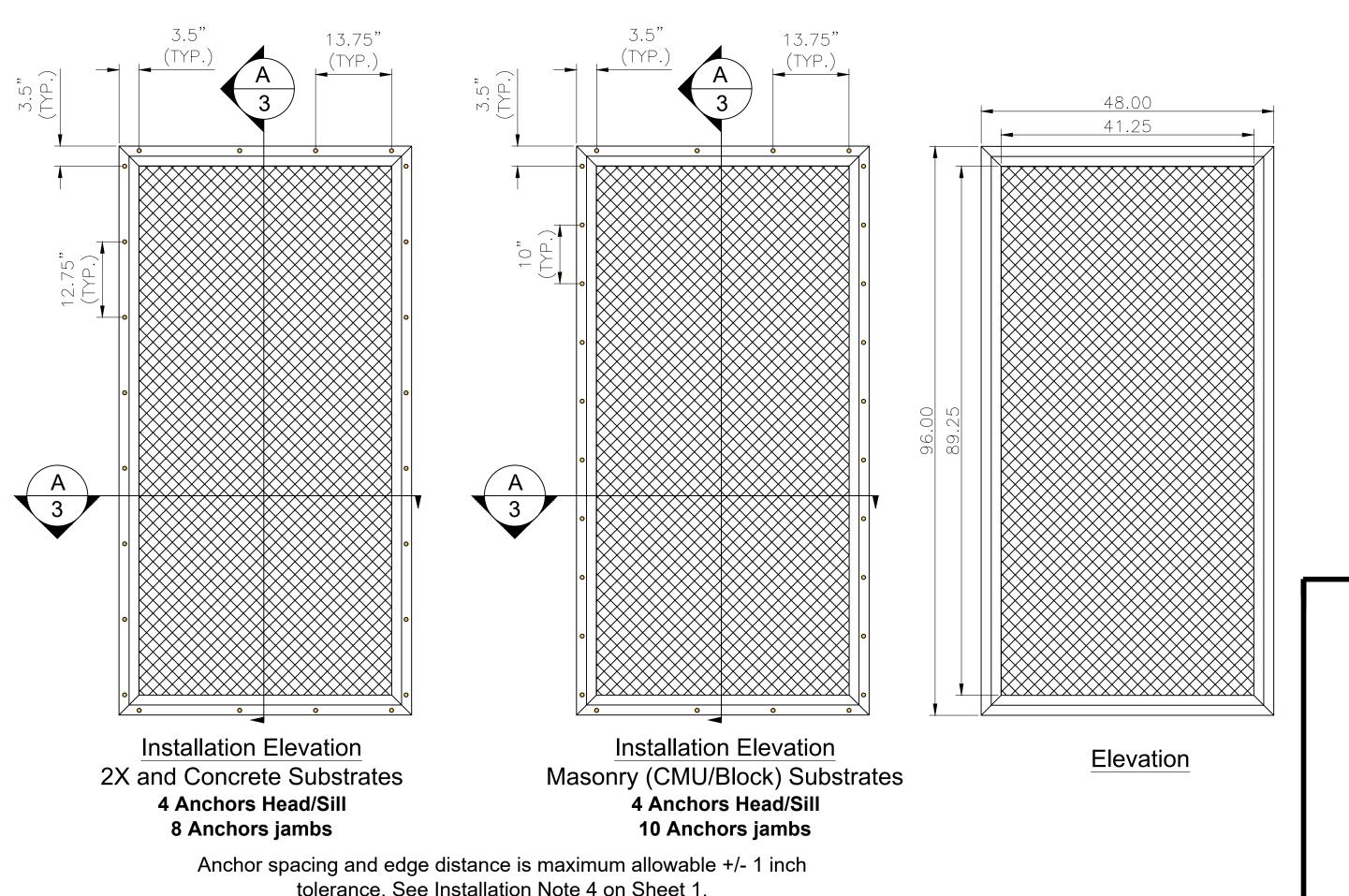
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1	GENERAL & INSTALLATION NOTES, PERFORMANCE RATING
2	ELEVATIONS
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4	COMPONENTS
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INSTALLATION NOTES:

- 1. PRODUCT ANCHORS SHALL BE AS DESIGNATED AND LOCATED AS SHOWN IN THIS PRODUCT EVALUATION DOCUMENT. ANCHOR EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING.
- 1.1. EDGE DISTANCES SHALL BE MEASURED FROM CENTERLINE OF ANCHOR TO EDGE OF STRUCTURAL SUBSTRATE EITHER TO THE INTERIOR OR EXTERIOR OF THE FENESTRATION PRODUCT.
- 1.2. MINIMUM EMBEDMENT SHALL BE BASED ON PENETRATION INTO MAIN WIND FORCE RESISTING SYSTEM SUBSTRATE.
- 2. INSTALLATION ANCHORS SHALL MEET THE FOLLOWING REQUIREMENTS.
- 2.1. CONCRETE SUBSTRATES WITH MINIMUM 2500 PSI COMPRESSIVE STRENGTH
- 2.1.1. MINIMUM DIAMETER: 1/4"
- 2.1.2. EMBEDMENT: 1-1/2" MINIMUM
- 2.1.3. EDGE DISTANCE: 1-1/4" MINIMUM
- 2.1.4. SUPPLIER: ITW TAPCON (ADVANCED THREADFORM)
- 2.2. MASONRY (CMU/BLOCK) MEETING ASTM C90, MEDIUM WEIGHT
- 2.2.1. MINIMUM DIAMETER: 1/4"
- 2.2.2. EMBEDMENT: 1" MINIMUM
- 2.2.3. EDGE DISTANCE: 2" MINIMUM
- 2.2.4. SUPPLIER: ITW TAPCON (ADVANCED THREADFORM)
- 2.3. 2X WOOD BUCK OR 2X WOOD FRAMING WITH MINIMUM SPECIFIC GRAVITY OF 0.55.
- 2.3.1. MINIMUM DIAMETER: NO. 14 PAN HEAD WOOD OR TAPPING SCREW
- 2.3.2. EMBEDMENT: 1-1/2" MINIMUM
- 2.3.3. EDGE DISTANCE: 1" MINIMUM
- 2.3.4. MATERIAL: GRADE 2 MINIMUM
- .3.5. MEETING: ANSI B18.6.1 WOOD SCREW OR ASME B18.6.4 THREAD FORMING/CUTTING TAPPING SCREWS
- 3. SEE SHEET 3 FOR SPECIFIC ANCHOR INSTALLATION DETAILS.
- 3. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN ON SHEET 2.
- 4. ANCHOR QUANTITIES AND SPACING / EMBEDMENT AND EDGE DISTANCE
- 4.1. THE NUMBER OF INSTALLATION ANCHORS IS BASED ON THE MAXIMUM END DISTANCE (ED) AND THE MAXIMUM ON CENTER (O.C.) SPACING PLACEMENT OF ANCHORS IN ACCORDANCE WITH ELEVATIONS ON SHEET 2.
- 4.2. END DISTANCES AND O.C. SPACINGS LESS THAN THAT SHOWN IN THE ELEVATIONS ON SHEET 2 ARE ACCEPTABLE.
- 4.3. FOR SCREEN SIZES SMALLER THAN THOSE SHOWN, ANCHOR QUANTITIES CAN BE REDUCED WHILE MAINTAINING EDGE DISTANCE AND O.C. SPACING REQUIREMENTS.
- 4.4. ANCHOR QUANTITIES AND SPACINGS SHOWN ARE BASED ON THE LOWER OF ANCHOR SPACING USED IN TESTING OR REQUIRED BY LOADING AT DESIGN PRESSURE.
- 5. FOR CONCRETE BLOCK APPLICATIONS DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS.
- 6. 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 IN NOTE 2 ABOVE

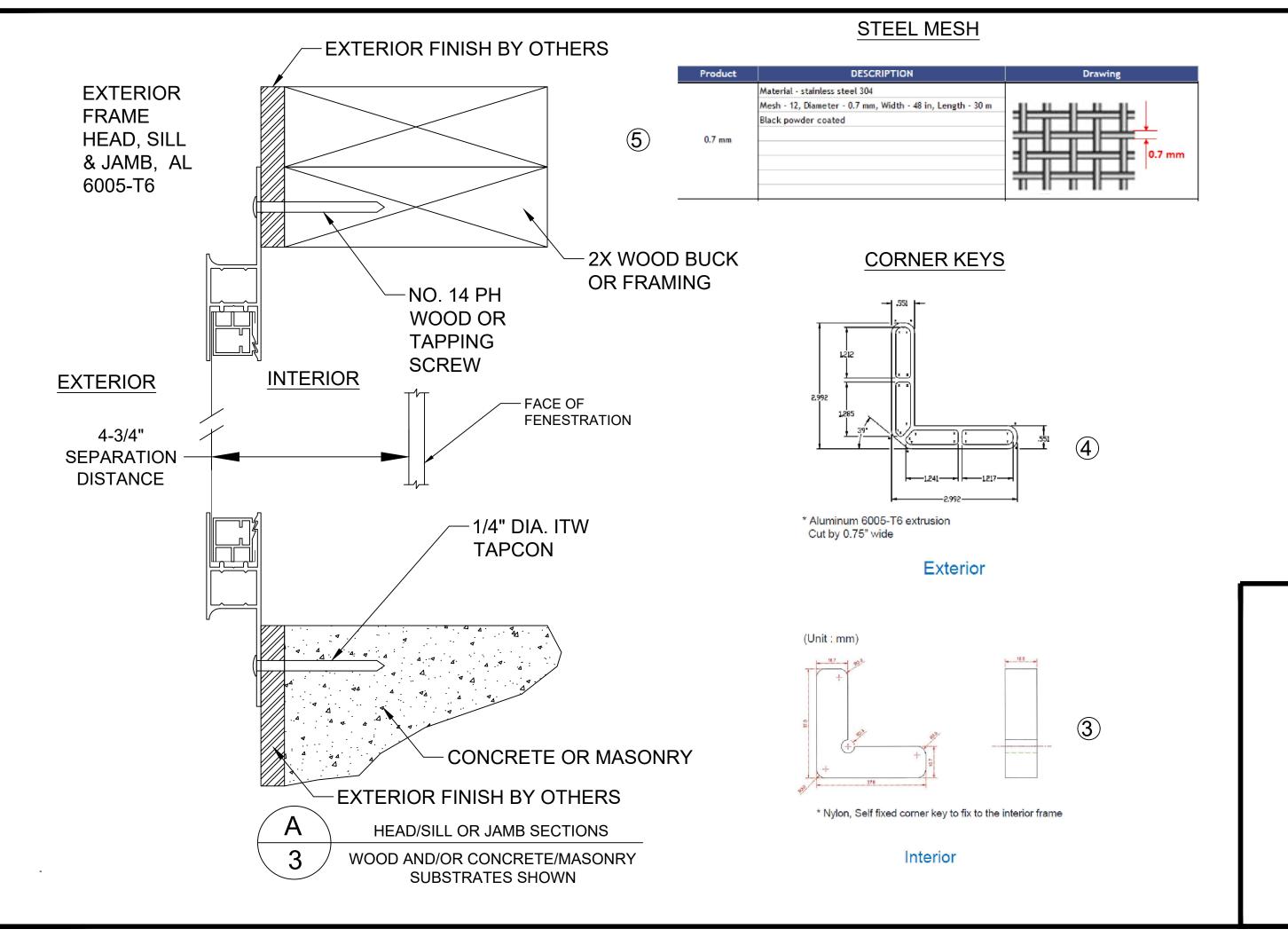
	PERFORMA	NCE RATING	
MAXIMUM FRAME SIZE	ELEVATION	DESIGN PRESSURE (PSF)	IMPACT RATING (ASTM E1996 EQUIVALENT)
NOMINAL 48" x 96"	SHEET 2	+/- 90	WIND ZONE 4 MISSILE LEVEL D

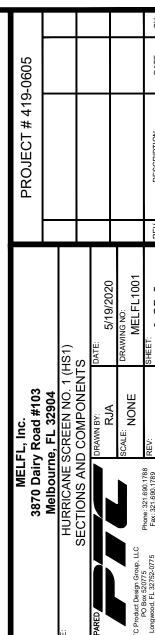
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		181)	GENERAL & INSTALLATION NOTES, PERFORMANCE RATING	DATE:	5/19/2020	0/10/2020	DRAWING NO:	MELFL1001	SHEET:	1 OF 5
MELFL, Inc. 3870 Dairy Road #103	Melbourne, FL 32904	HURRICANE SCREEN NO. 1 (HS1)	JTES, PERFOR	DRAWN BY:	ΔI Ω	13071	SCALE:	NONE	REV:	!
MELF 3870 Dairy	Melbourne	HURRICANE S	STALLATION NO						Phone: 321.690.1788 Fax: 321.690.1789	Fmail: info@ntc-corn com
		TITLE:	GENERAL & INS	PREPARED	BY:			PTC Product Design Group, LLC	FU Box 520775 Longwood, FL 32752-0775	TX Registration No. F-13740
bert J	. An	noru	so,	P.I	Ξ.					

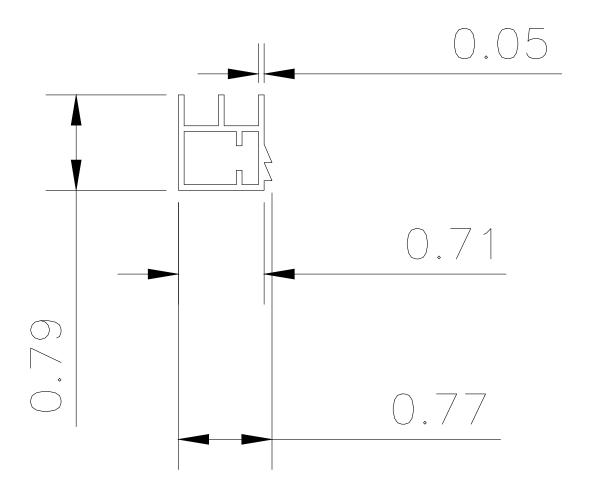


tolerance. See Installation Note 4 on Sheet 1.

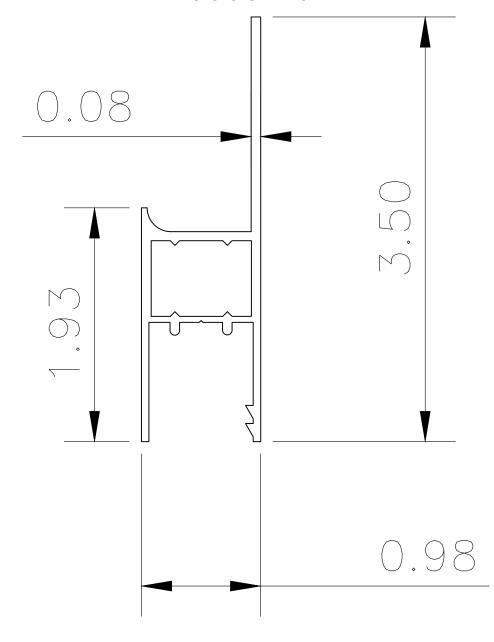
PROJECT # 419-0605 Robert J. Amoruso, P.E. Texas P.E. No. 80817

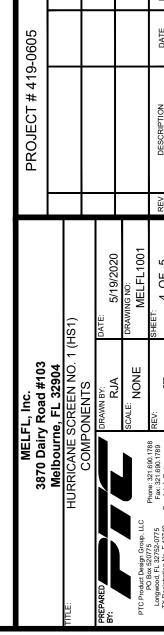






1 INTERIOR FRAME, SILL & JAMB AL 6063-T6 2 EXTERIOR FRAME, SILL & JAMB AL 6005-T6





BILL OF MATERIALS

ITEM#	PART #	DESCRIPTION
1	SP4145-4	INTERIOR FRAME, SILL & JAMB, AL 6063-T6
2	SP4145-3	EXTERIOR FRAME, SILL & JAMB, AL 6005-T6
3	MT002	CORNER KEY FOR INTERIOR FRAME, Nylon,1.440" X 1.440" X 0.428"
4	MT001	CORNER KEY FOR EXTERIOR FRAME, AL 6005-T6, 2" X 2" X0.767"
5	0.7 X 48	STAINLESS STEEL MESH, SUS304, 12 MESH, BLACK POWDER COATED
6	8412-002	PHILLIPS/SLOTTED COMBO DRIVE SIDEWALK BOLT, 1/4"-20 X 1-1/4"
7	#11/2	SCREW FOR FRAMES, SS, 1/8" X 1-1/2", HEX HEAD
8	#8 X 3/4	SCREW FOR EXTERIOR CORNER KEY, SS, 1/8" X 3/4", HEX HEAD

	MELF 3870 Dairy	MELFL, Inc. 3870 Dairy Road #103			PROJECT # 419-0605	-0605	
	Melbourn	Melbourne, FL 32904					
TITLE:	HURRICANE S	HURRICANE SCREEN NO. 1 (HS1)	IS1)				
	BILL OF N	BILL OF MATERIALS					
PREPARED		DRAWN BY:	DATE:				
BY:		Δ.	5/19/2020				
		701	0/ 13/2020				
		SCALE:	DRAWING NO:				
PTC Product Design Group, LLC		NONE	MELFL1001				
PO Box 520773 Longwood, FL 32752-0775 TX Registration No. F-13740	Phone: 321.690.1788 Fax: 321.690.1789 Email: info@pto-corp.com	REV: 	SHEET: 5 OF 5	REV	DESCRIPTION	DATE	ВУ