

AH SCREENS, INC.

AH FIXED IMPACT SCREEN

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED, EVALUATED AND DESIGNED TO THE CURRENT EDITION OF THE FLORIDA BUILDING CODE. TESTING WAS CONDUCTED FOR AIR, WATER AND STRUCTURAL PER HVHZ TEST PROTOCOL TAS 202 AND FOR IMPACT RESISTANCE TO HVHZ TEST PROTOCOLS TAS 201 & TAS 203.
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 THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
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 IN ACCORDANCE WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE USING AN APPROVED IMPACT PROTECTION DEVICE.
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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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

2.3.5. 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

PERFORMANCE RATING			
MAXIMUM FRAME SIZE	ELEVATION	DESIGN PRESSURE (PSF)	IMPACT RATING
NOMINAL 48" x 96"	SHEET 2	+/- 90	LARGE MISSILE (HVHZ)

PROJECT # 423-0812

AH Screens, Inc.
700 Atlantis Rd. #101
Melbourne, FL 32904

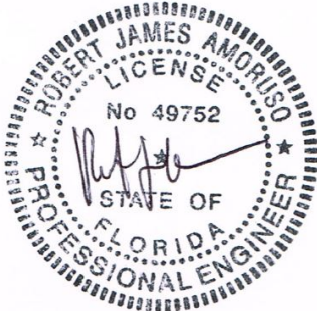
TITLE: AH FIXED IMPACT SCREEN
GENERAL & INSTALLATION NOTES, PERFORMANCE RATING

DATE:	11/20/23
DRAWN BY:	RJA
SCALE:	NONE
DRAWING NO:	AHS0001
SHEET:	1 OF 5

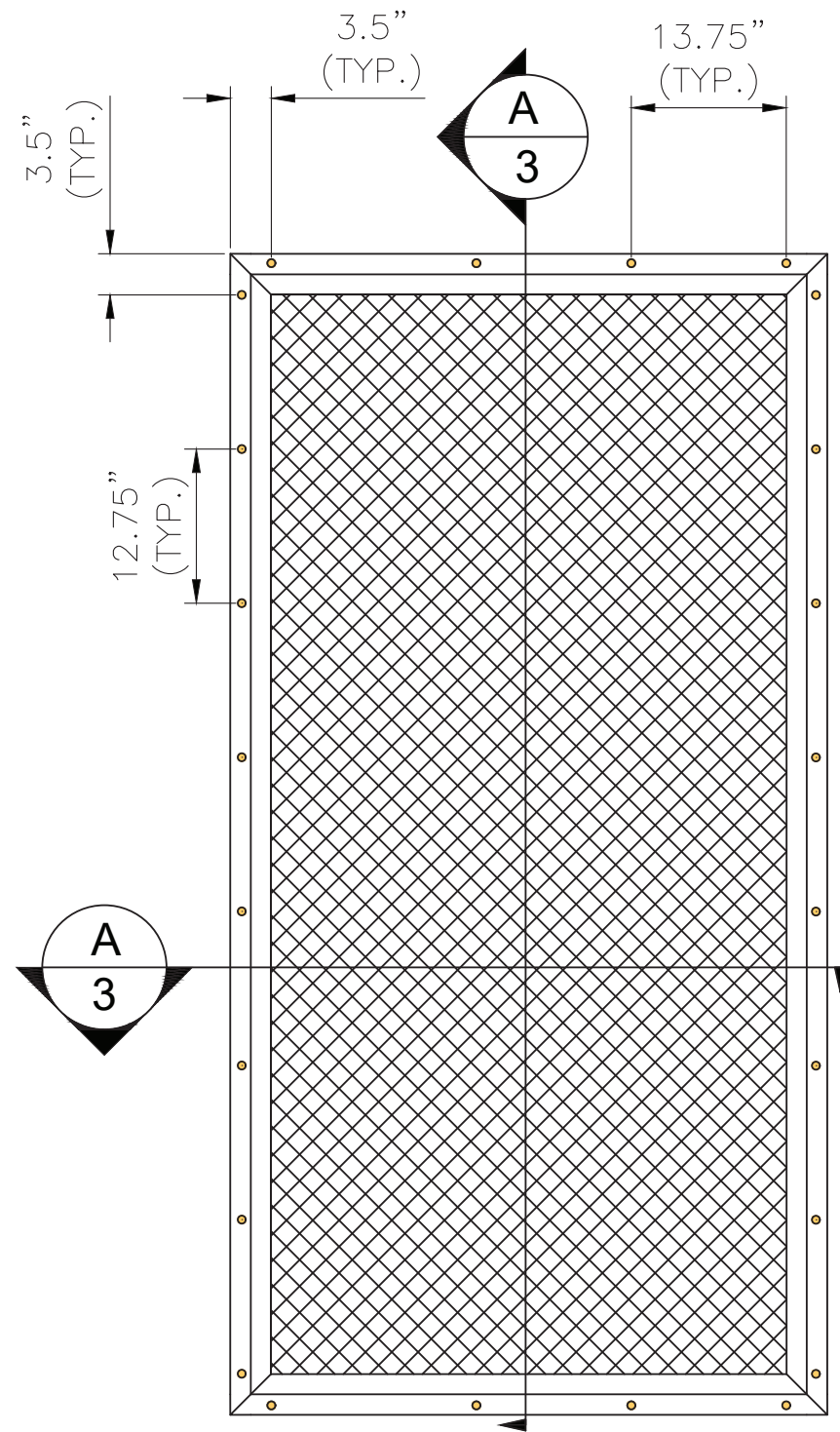


PTC PRODUCT DESIGN GROUP, LLC
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Longwood, FL 32752-0775
Phone: 321.690.1788
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FBPE Cert. of Auth. No. 25935

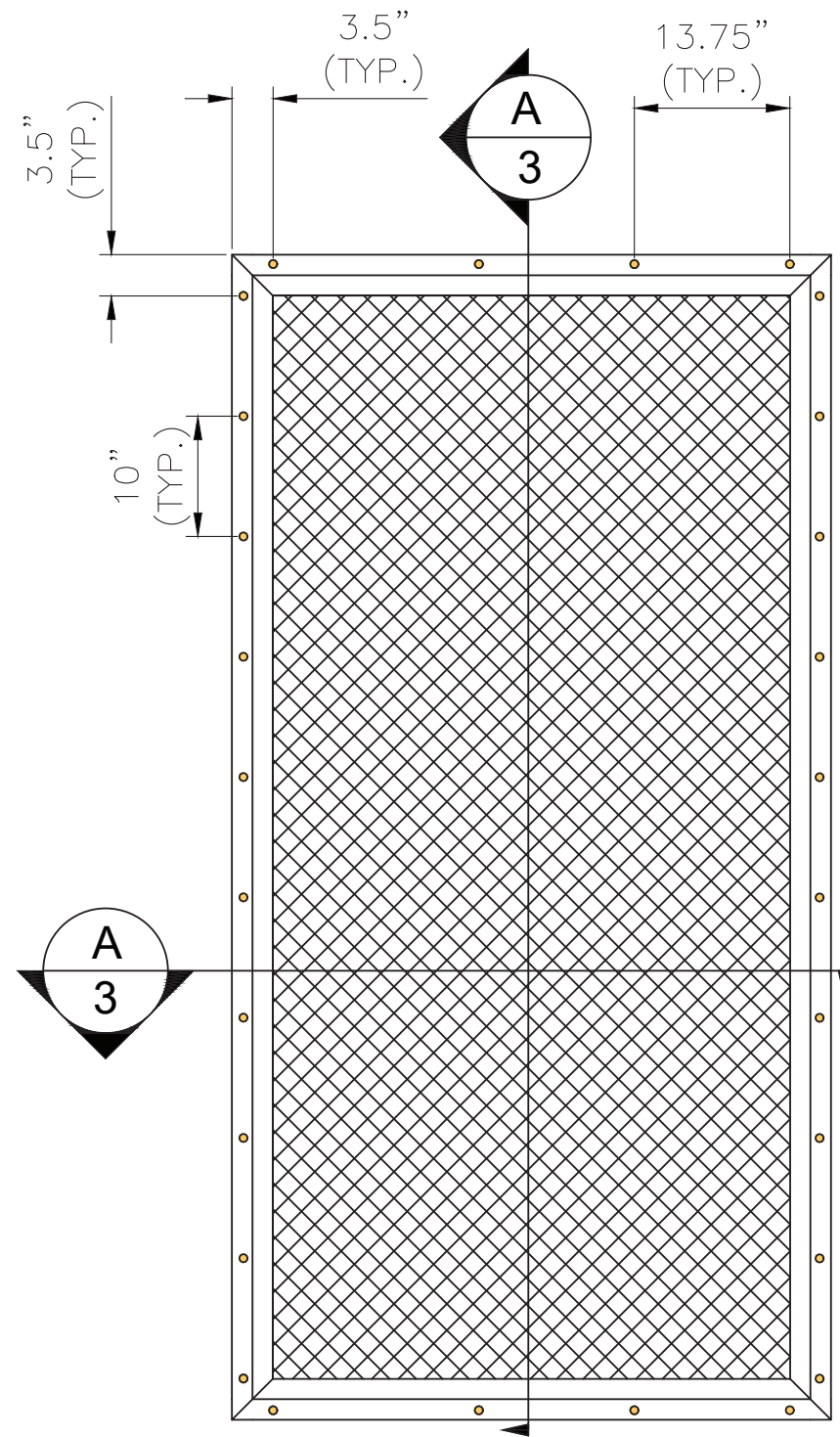
Robert J. Amoruso, P.E.
Florida P.E. No. 49752



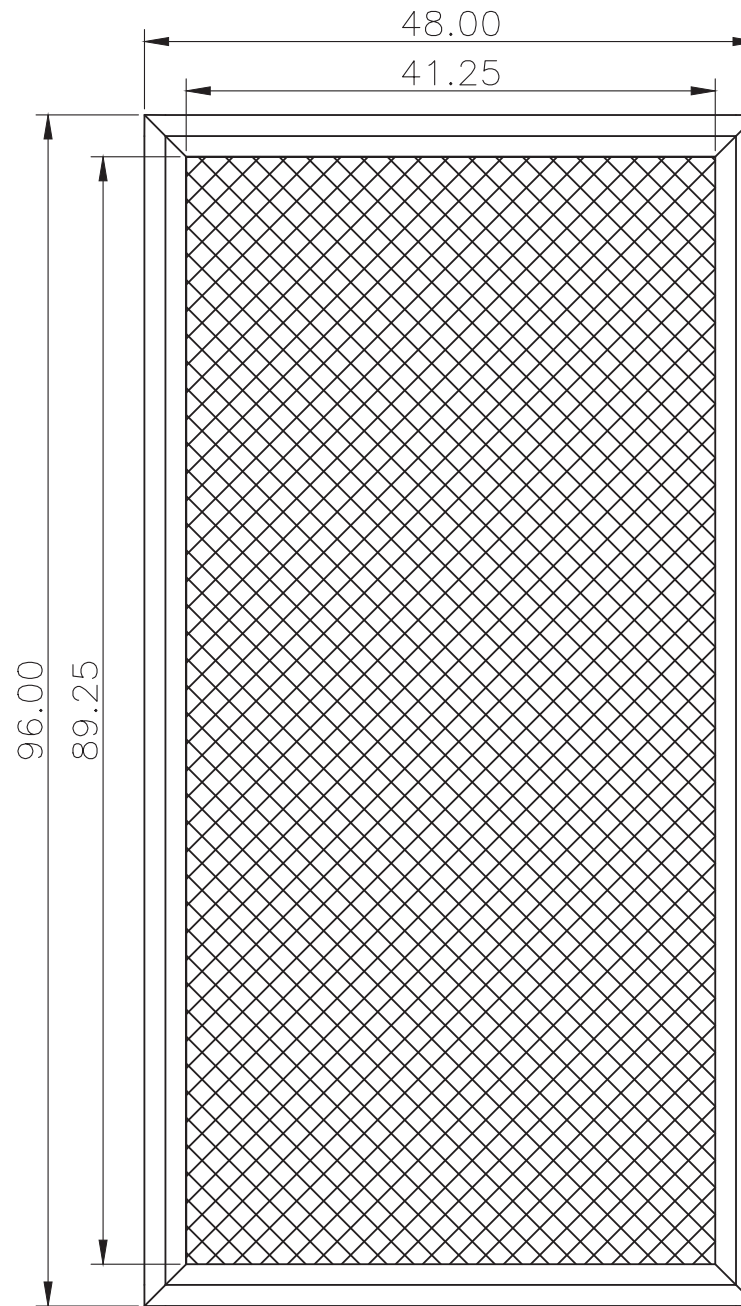
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by Robert J
Amoruso
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Installation Elevation
2X and Concrete Substrates
4 Anchors Head/Sill
8 Anchors jambs



Installation Elevation
Masonry (CMU/Block) Substrates
4 Anchors Head/Sill
10 Anchors jambs



Elevation

Anchor spacing and edge distance is maximum allowable +/- 1 inch tolerance. See Installation Note 4 on Sheet 1.

PROJECT # 423-0812

AH Screens, Inc.
 700 Atlantis Rd. #101
 Melbourne, FL 32904

AH FIXED IMPACT SCREEN
 ELEVATIONS

PREPARED BY: PTC
 PTC PRODUCT DESIGN GROUP, LLC
 P.O. Box 520775
 Longwood, FL 32752-0775
 FBPE Cert. of Auth. No. 25935

DRAWN BY: RJA

SCALE: NONE

REV: ---

DATE: 11/20/23

DRAWING NO: AHS0001

SHEET: 2 OF 5

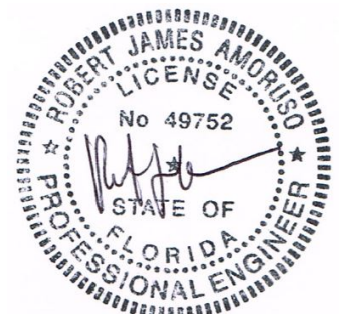
BY

DATE

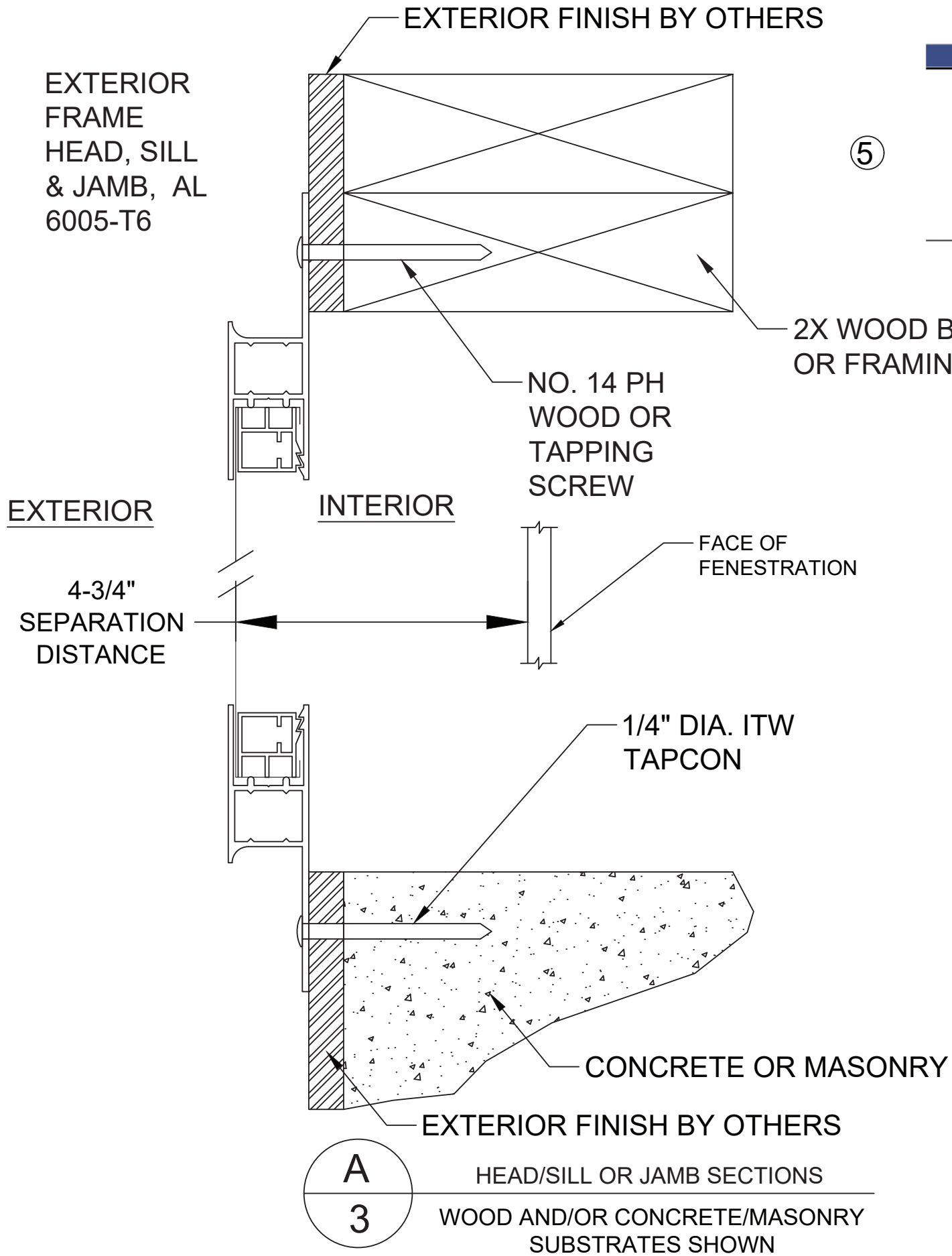
DESCRIPTION

REV

Robert J. Amoruso, P.E.
 Florida P.E. No. 49752

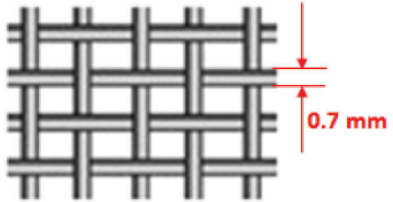


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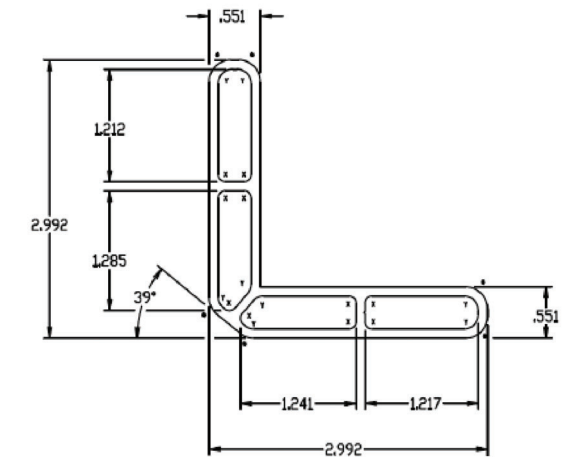


5

STEEL MESH

Product	DESCRIPTION	Drawing
0.7 mm	Material - stainless steel 304 Mesh - 12, Diameter - 0.7 mm, Width - 48 in, Length - 30 m Black powder coated	

CORNER KEYS

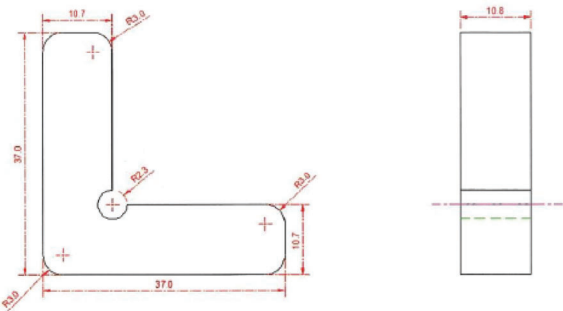


4

* Aluminum 6005-T6 extrusion
Cut by 0.75" wide

Exterior

(Unit : mm)



3

* Nylon, Self fixed corner key to fix to the interior frame

Interior

PROJECT # 423-0812

AH Screens, Inc.

700 Atlantis Rd. #101

Melbourne, FL 32904

AH FIXED IMPACT SCREEN

SECTIONS AND COMPONENTS

DRAWN BY:

RJA

DATE:

11/20/23

DRAWING NO:

AHS0001

REV:

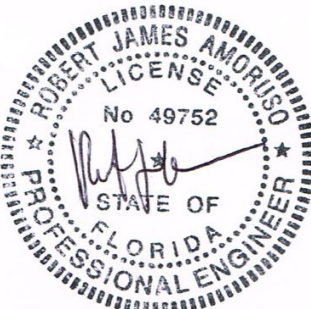
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3 OF 5

DATE

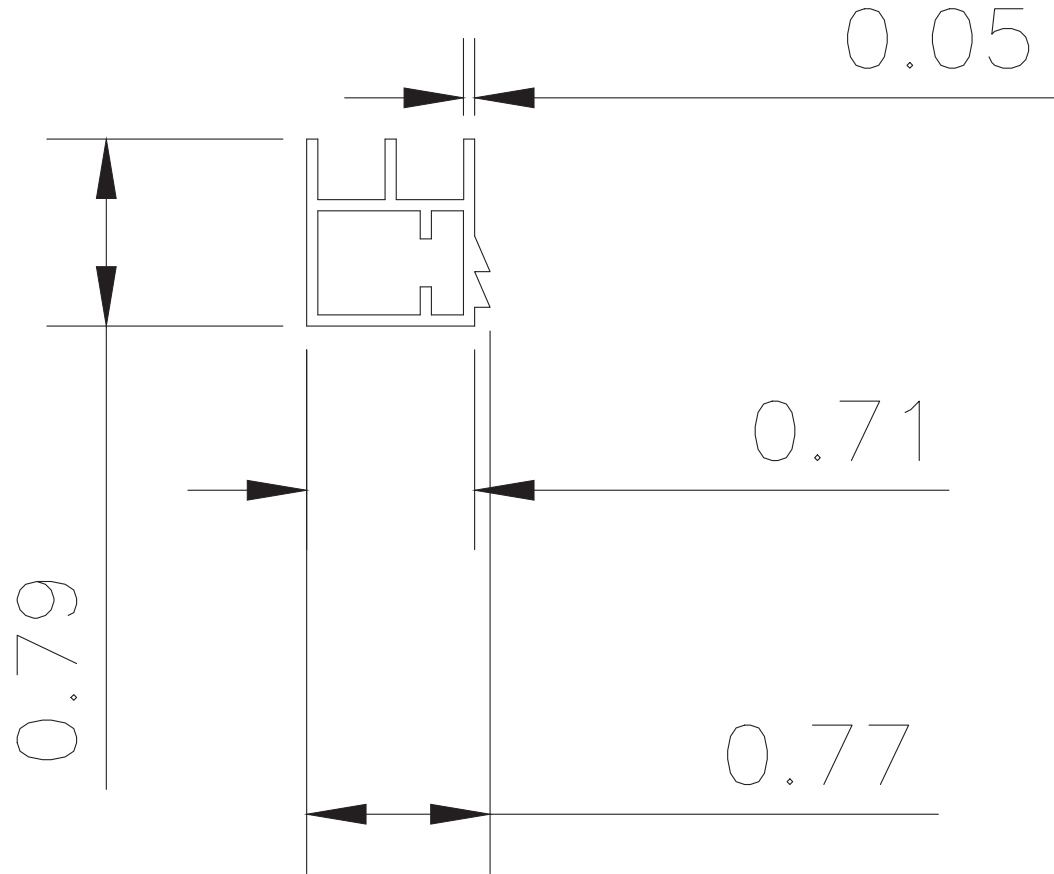
BY

Robert J. Amoruso, P.E.
Florida P.E. No. 49752

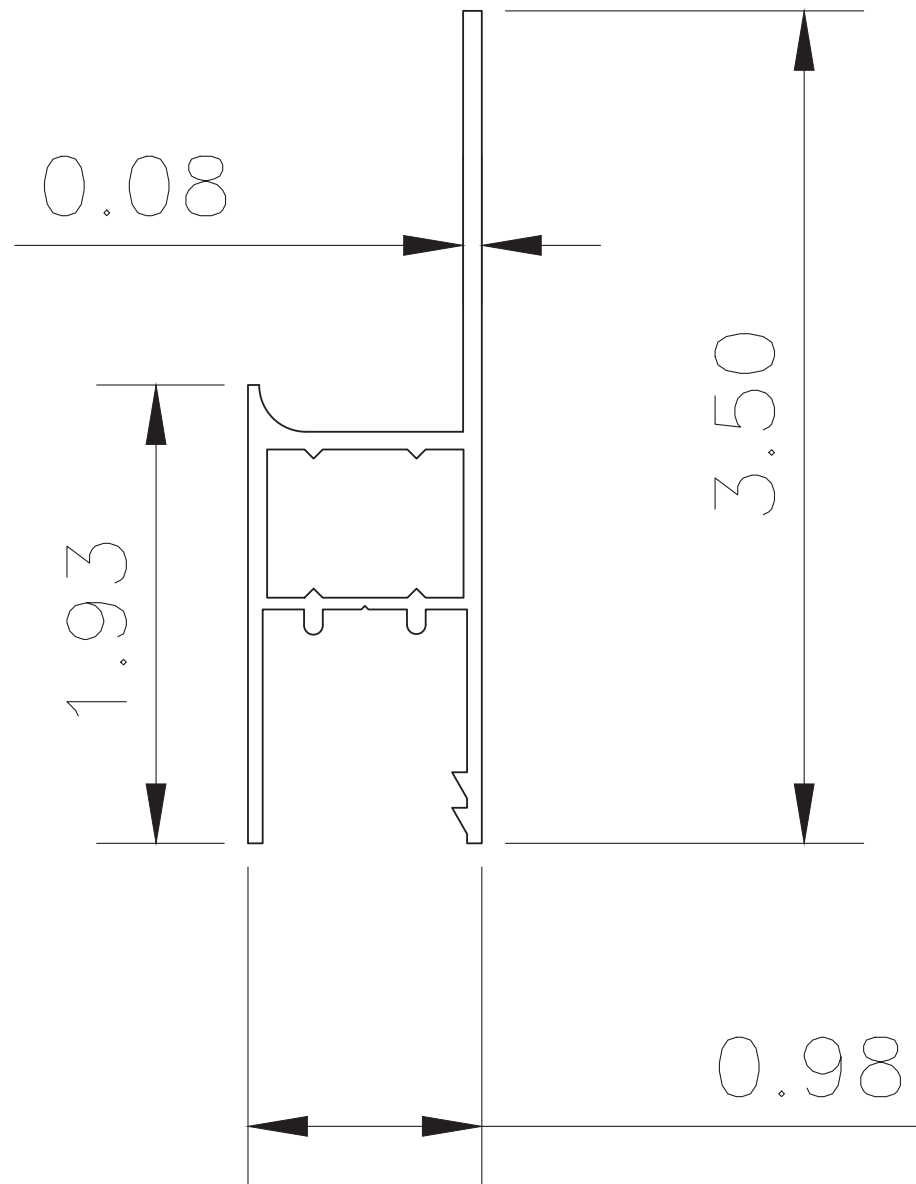


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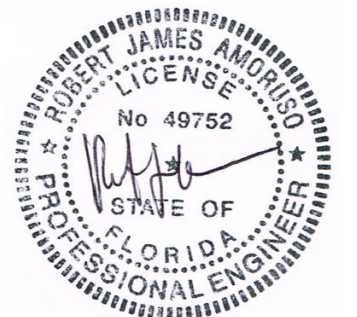
1 INTERIOR FRAME, SILL & JAMB
AL 6063-T6



2 EXTERIOR FRAME, SILL & JAMB
AL 6005-T6



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Florida P.E. No. 49752



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Amoruso
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AH Screens, Inc.
700 Atlantis Rd. #101
Melbourne, FL 32904

AH FIXED IMPACT SCREEN
COMPONENTS

PREPARED
By: PTC PRODUCT DESIGN GROUP, LLC
P.O. Box 520775
Longwood, FL 32752-0775
FBPE Cert. of Auth. No. 25935

DATE: 11/20/23
DRAWING NO.: AHS0001
SHEET: 4 OF 5

DRAWN BY: RJA
SCALE: NONE
REV: ---

PROJECT # 423-0812

REV	DESCRIPTION	DATE	BY

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

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AH FIXED IMPACT SCREEN
BILL OF MATERIALS



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Longwood, FL 32752-0775
Phone: 321.690.1788
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Email: info@ptc-corp.com

DRAWN BY:

RJA

DATE:

11/20/23

SCALE:

NONE

DRAWING NO:

AHS0001

REV:

SHEET:

5 OF 5

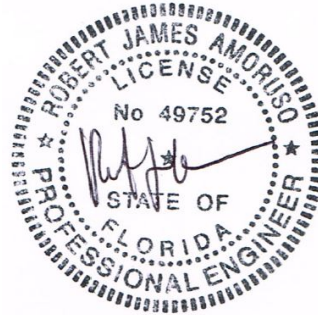
DESCRIPTION

REV

DATE

BY

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Florida P.E. No. 49752



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Amoruso
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