MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Alutech United, Inc.
15 Dixon Street
Selbyville, Delaware 19975

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami–Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami–Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami–Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Storm Tex Screen Impact Protective End Retainer Roll–Down System – L.M.I.

APPROVAL DOCUMENT: Drawing No. **ALU003**, titled "Storm Tex Screen System (Impact)" prepared by Alutech United, Inc., dated 02/14/2020, revised on 08/11/2020, sheets 1 through 21 of 21, signed and sealed by Hermes F. Norero, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LIMITATIONS:

1. Roll-down Mechanism is NOT part of this approval & must be certified by independent testing agency.
2. Minimum separation from interior storm bar to existing glass shall be as shown on sheet 2 of 21.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, the following statement: "Miami–Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami–Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA #20-0410.05** and consists of this page 1 and evidence submitted pages E-1 & E-2 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**

MIAMI-DADE COUNTY APPROVED

Helmy A. Makar
06/17/2021

NOA No. 21-0427.04
Expiration Date: 06/25/2025
Approval Date: 06/17/2021

Alutech United, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #20-0410.05

A. DRAWINGS

*1. Drawing No. **ALU003**, titled "Storm Tex Screen System (Impact)" prepared by Alutech United, Inc., dated 01/06/2020, sheets 1 through 21 of 21, signed and sealed by Hermes F. Norero, P.E., on 03/04/2020.*

B. TESTS

1. Test report on: 1) Uniform Static Air Pressure Test per PA 202,
2) Large Missile Impact Test per PA 201
3) Cyclic Wind Pressure Test per PA 203
along with marked–up drawings and installation diagram of Storm Tex Screen System, prepared by Blackwater Testing, Inc., Test Report # **BT-ATC-19.001** dated 11/18/19, signed and sealed by Constantin Bortes, P. E.

C. CALCULATIONS

1. Comparative analysis for slats; storm bars, headers, tracks, mullions and anchors, using rational analysis dated 01/06/2020, prepared by Building Drops, signed and sealed by Hermes F. Norero, P.E., on 03/04/2020.

D. QUALITY ASSURANCE

1. By Miami- Dade County Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement Letter of product compliance to FBC, 2017, prepared by Building Drops, dated 03/04/2020, signed and sealed by Hermes F. Norero, P.E.

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

*1. Drawing No. **ALU003**, titled "Storm Tex Screen System (Impact)" prepared by Alutech United, Inc., dated 02/14/2020, revised on 08/11/2020, sheets 1 through 21 of 21, signed and sealed by Hermes F. Norero, P.E.*

B. TESTS

1. None.

C. CALCULATIONS

1. None.

Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 21-0427.04
Expiration Date: 06/25/2025
Approval Date: 06/17/2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

1. By Miami- Dade County Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. None.

D. STATEMENTS

1. Statement Letter of product compliance to FBC, 2020, prepared by Building Drops, dated 06/16/2020, signed and sealed by Hermes F. Norero, P.E.

Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 21-0427.04
Expiration Date: 06/25/2025
Approval Date: 06/17/2021

8/11/2020 3:53 PM

ALUTECH UNITED, INC.

STORM TEX SCREEN SYSTEM (IMPACT) (HVHZ)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 7TH EDITION FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
   - TAS 201-94
   - TAS 202-94
   - TAS 203-94
   - ASTM E330-02
   - ASTM E1886-13a
   - ASTM E1996-14a
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X 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.
5. INSTALLATION OF ROLL DOWN MAY EITHER BE INSIDE OR OUTSIDE OF THE TIE BEAM.
6. ALL EXTRUSION MATERIAL: 6061-T6 ALUMINUM ALLOY, UNLESS OTHERWISE NOTED.
7. DESIGN AND OPERATION OF ROLL UP MECHANISM IS NOT PART OF THIS APPROVAL, MANUFACTURER SPECIFICATIONS SHOULD BE FOLLOWED. CARE SHOULD BE TAKEN WHEN SHUTTER IS IN MOTION ENSURING THAT PERSONAL INJURY OR DAMAGE TO THIS PRODUCT DOES NOT OCCUR.
8. FOR DESIGN PRESSURES SEE SHEET 2. SEE SHEETS 14, 16 AND 17 FOR DESIGN PRESSURES BASED ON MULLIONS.
9. HOOD ASSEMBLY IS IMPACT RATED AND CAN BE PLACED INSIDE FRAME OPENING AS AN EXPOSED FEATURE.
10. SHUTTER MANUFACTURER LABEL SHALL BE LOCATED IN A READILY VISIBLE LOCATION, PER FBC CHAPTER 17.

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
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. REFER TO ANCHOR SCHEDULE CHARTS ON SHEETS 7, 8, 10, 14, 17, AND 20 FOR ANCHOR TYPE, SUBSTRATE TYPE, EDGE DISTANCE AND MINIMUM EMBEDMENT.
5. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
6. ASSEMBLY FASTENERS SHALL BE COATED WITH AN HV COATING SYSTEM AS MANUFACTURED BY AN APPROVED COATING APPLICATOR REGISTERED WITH THE AMERICAN SHUTTER SYSTEMS ASSOCIATION.
7. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
8. 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.
9. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
   - 9.A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
   - 9.B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI. SEE ANCHOR SCHEDULES, SHEETS 5, 6, 8, 13 AND 16 FOR ADDITIONAL REQUIREMENTS.
   - 9.C. GROUT FILLED MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, MIN 2000 PSI.
   - 9.D. STEEL - MINIMUM A36, $\frac{3}{16}$" THICKNESS
   - 9.E. ALUMINUM - MINIMUM 6063-T6 $\frac{1}{4}$" THICKNESS.

TABLE OF CONTENTS

SHEET	SHEET DESCRIPTION
1	INSTALLATION & GENERAL NOTES
2	ELEVATIONS & DESIGN PRESSURES
3	TYPICAL SINGLE UNIT HORIZONTAL SECTIONS
4	BUILD OUT MOUNT DETAILS
5	MULTIPLE UNITS - HORIZONTAL SECTIONS
6	TYP. VERTICAL SECTIONS
7	HORIZONTAL SECTIONS/ANCHOR SCHEDULE
8	HORIZONTAL SECTIONS/ANCHOR SCHEDULE
9	ANCHOR SCHEDULE / SPACING
10	TYPICAL HORIZONTAL SECTION - INSET MOUNT
11	TYPICAL HORIZONTAL SECTION - INSET MOUNT ANCHOR SCHEDULE
12	INSET MOUNT - ANCHOR SCHEDULE
13	EQUALLY SPACED MULLIONS
14	EQUALLY SPACED MULLION ANCHORS
15	END MULLIONS
16	CORNER MULLIONS
17	END MULL/ CORNER MULLION CONNECTIONS
18	5.22" TUBE & 6.5" HOOD DETAILS
19	7" & 8" HOOD DETAILS
20	9" HOOD DETAILS
21	BILL OF MATERIALS & COMPONENTS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 21-0427.04
Expiration Date 06/25/2025
By
Miami Dade Product Control

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

TITLE: *STORM TEX SCREEN SYSTEM (IMPACT) (HVHZ)*

GENERAL & INSTALLATION NOTES

ALUTECH UNITED
1537 NORTHGATE BLVD.
SARASOTA, FLORIDA 34234
PH: 941-355-0970

ALUTECH UNITED, INC

REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.11.20

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.

HERMES F. NORERO LICENSED No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER

HERMES F NORERO, P.E.
FLORIDA P.E. NO. 73778
BUILDING DROPS, INC.
#398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

Digitally signed by Hermes F Norero
Reason: I am approving this document
Date: 2020.08.12 10:11:00 -04'00'

DATE:	02.14.20
DWG. BY: YC	CHK. BY: HFN
SCALE:	NTS
DWG. #:	ALU003
SHEET:	OF 21

1

s:\projects\alutech united, inc\vnd-19-1231 - rnd submittal - zip tex bullet rolldown screen\dwg\alu003 zip bullet rolldown screen.dwg

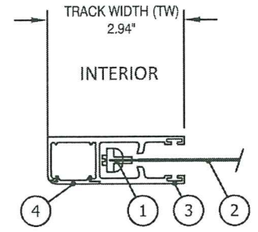
8/11/2020 3:58 PM

DESIGN PRESSURE RATINGS

TABLE 1 - MAX ALLOWABLE DESIGN PRESSURE		
FRAME WIDTH	POSITIVE	NEGATIVE
288.0	35.0	35.0
264.0	46.2	46.2
240.0	57.5	57.5
216.0	68.7	68.7
192.0	80.0	80.0
180.0	85.0	85.0
168.0	90.0	90.0
156.0	95.0	95.0
144.0	100.0	100.0
132.0	105.0	105.0
120.0	110.0	110.0
108.0	115.0	115.0
96.0	120.0	120.0

TABLE 2: GLASS SEPARATION (GS) INCHES												
LOAD	FRAME WIDTH (IN)											
(PSF)	96	108	120	132	144	156	168	180	192	216	240	264	288
35	7.50	11.00	11.00	11.00	11.00	11.00	11.75	12.50	13.50	19.50	25.50	31.50	37.50
45	8.25	11.00	11.00	11.00	11.75	12.50	13.50	14.25	15.75	23.00	30.00	37.25	-
55	8.75	11.00	11.00	12.00	13.00	14.00	15.00	16.00	17.75	26.25	34.50	-	-
65	9.50	11.00	11.75	13.00	14.25	15.50	16.75	17.75	20.00	29.50	-	-	-
80	10.50	11.75	13.25	14.75	16.25	17.75	19.00	20.50	23.00	-	-	-	-
85	10.75	12.25	13.75	15.25	16.75	18.50	20.00	21.50	-	-	-	-	-
90	11.00	12.75	14.25	16.00	17.50	19.25	20.75	-	-	-	-	-	-
95	11.25	13.00	14.75	16.50	18.25	19.75	-	-	-	-	-	-	-
100	11.75	13.50	15.25	17.00	18.75	-	-	-	-	-	-	-	-
105	12.00	13.75	15.75	17.50	-	-	-	-	-	-	-	-	-
110	12.25	14.25	16.25	-	-	-	-	-	-	-	-	-	-
115	12.50	14.75	-	-	-	-	-	-	-	-	-	-	-
120	13.00	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:
1. MINIMUM GLASS SEPARATION BASED ON MAXIMUM DEFLECTION + 1".
2. ANALYSIS IS LIMITED BY DEFLECTION UNDER STRUCTURAL LOADS AS WELL AS DEFLECTION DUE TO MISSILE LEVEL D LARGE MISSILE IMPACTS.
3. APPROPRIATE INSTALLATION METHOD SHALL BE USED TO ACHIEVE THE REQUIRED SEPARATION IN THE ABOVE TABLE.
4. GLASS SEPARATION REQUIRED IN HVHZ AREAS. GLASS SEPARATION REQUIREMENTS TO BE DETERMINED BY AHJ OUTSIDE OF HVHZ REGION.



SIDE TRACK ASSEMBLY

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 21-0427.04
Expiration Date 06/25/2025
By
Miami Dade Product Control

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

TITLE: *STORM TEX SCREEN SYSTEM (IMPACT) (HVHZ) ELEVATION & DESIGN PRESSURE TABLE*

ALUTECH UNITED
1537 NORTHGATE BLVD.
SARASOTA, FLORIDA 34234
PH: 941-355-0970

ALUTECH UNITED, INC

REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.11.20

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.

HERMES F. NORIEGA LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
HERMES F NORIEGA, P.E.
FLORIDA P.E. NO. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

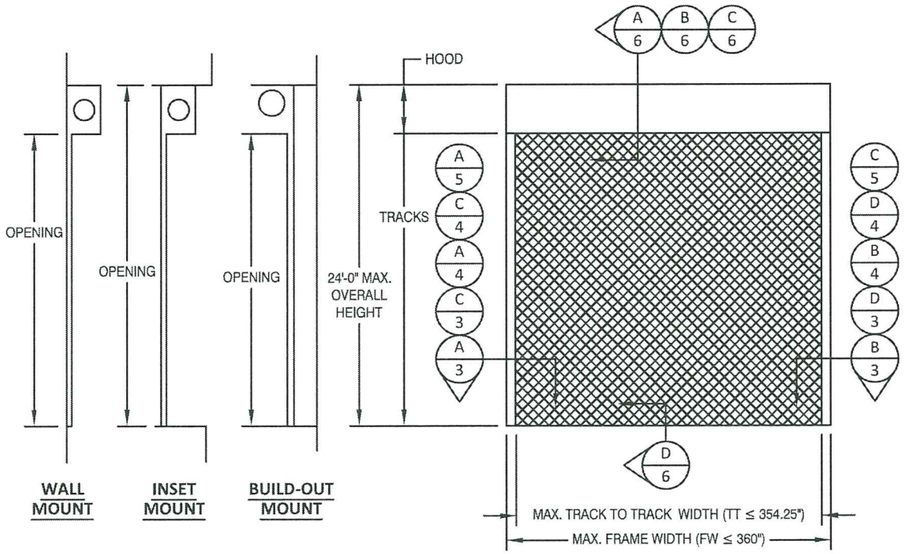
DATE:	02.14.20
DWG. BY:	YC
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	ALU003
SHEET:	OF 21

2

s:\projects\alutech united, inc\md-19-1231 - md submittal - zip tex bullet rolldown screen\dwg\alu003 zip bullet rolldown screen.dwg

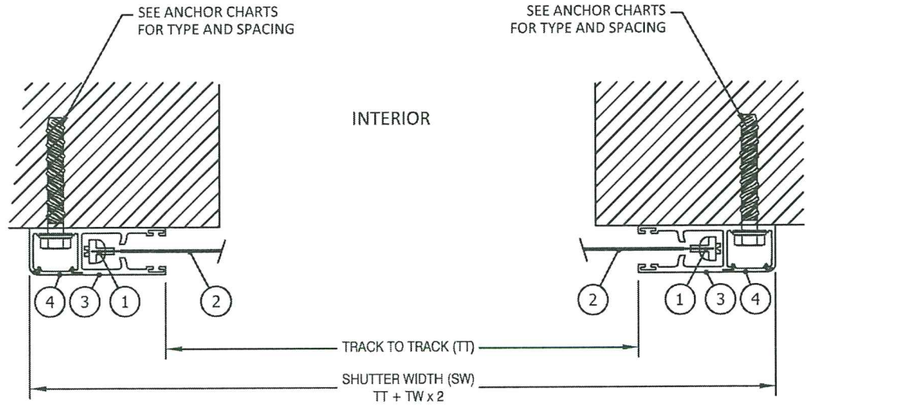
8/11/2020 3:58 PM

TYPICAL SINGLE UNIT ELEVATION
WALL AND INSET MOUNT DETAILS



REVERSED INSTALLATION IS ACCEPTABLE

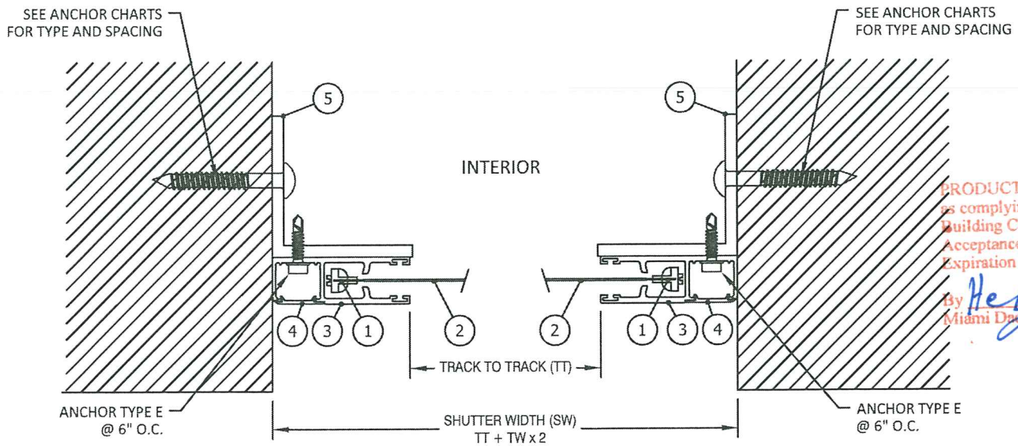
COMBINATION MOUNTED: WALL, INSET, AND BUILD-OUT MOUNTS CAN BE INSTALLED BY MIXING ANY POSSIBLE COMBINATIONS



A/3 HORIZONTAL SECTION — WALL MOUNT

B/3 HORIZONTAL SECTION — WALL MOUNT

SEE DETAILS ON SHEETS 7-12 FOR ANCHOR REQUIREMENTS



C/3 HORIZONTAL SECTION — INSET MOUNT

D/3 HORIZONTAL SECTION — INSET MOUNT

PRODUCT REVISED
to complying with the Florida Building Code
Acceptance No 21-0422.04
Expiration Date 06/25/2025
By
Miami Dade Product Control

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

TITLE: *STORM TEX SCREEN SYSTEM (IMPACT) (HVHZ) TYP. SINGLE UNIT HORIZONTAL SECTIONS*

ALUTECH UNITED
1537 NORTHGATE BLVD.
SARASOTA, FLORIDA 34234
PH: 941-355-0970

ALUTECH UNITED, INC

REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.11.20

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.

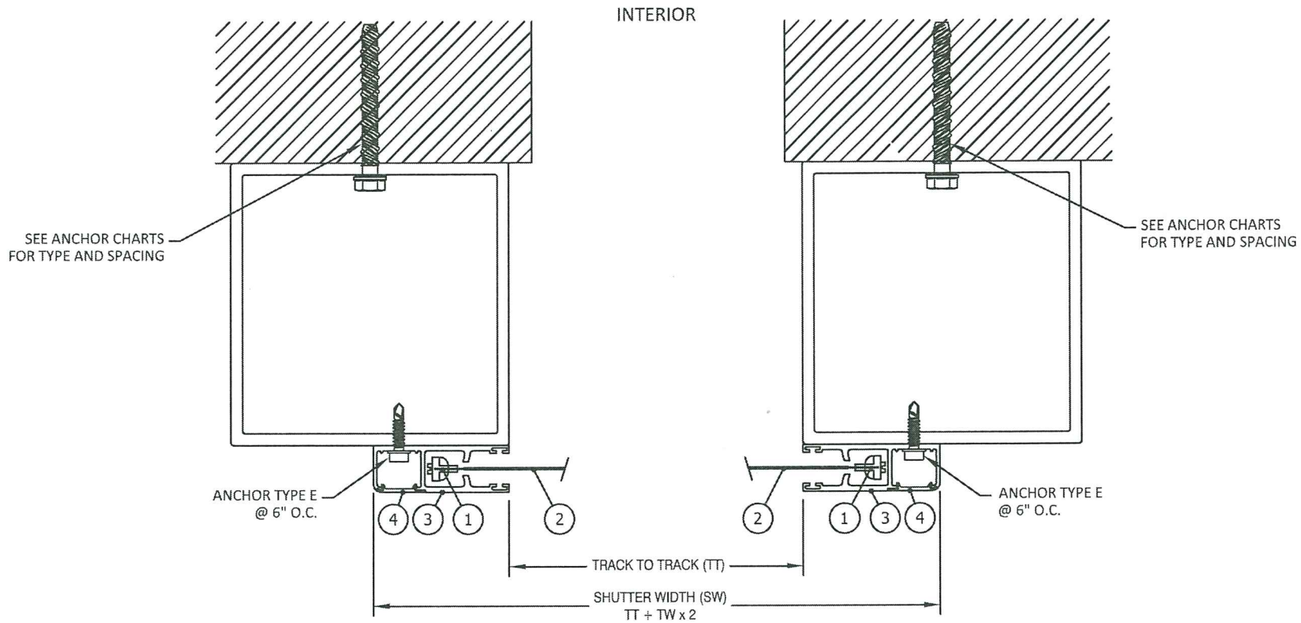
HERMES F. NORIEGA LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
HERMES F. NORIEGA P.E.
FLORIDA P.E. NO. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

DATE:	02.14.20
DWG. BY: YC	CHK. BY: HFN
SCALE:	NTS
DWG. #:	ALU003
SHEET:	OF 21

3

s:\projects\alutech united, inc\md-19-1231 - md submittal - zip tex bullet rolldown screen\dwgs\alu003 zip bullet rolldown screen.dwg

BUILD OUT MOUNT DETAILS



A/4 **HORIZONTAL SECTION**
BUILD-OUT MOUNT

B/4 **HORIZONTAL SECTION**
BUILD-OUT MOUNT

SEE DETAILS ON SHEETS 7-12 FOR ANCHOR REQUIREMENTS

**COMBINATION MOUNTED:
WALL, INSET AND BUILD-OUT
MOUNTS CAN BE INSTALLED BY MIXING
ANY POSSIBLE COMBINATIONS**

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 21-0427.04
Expiration Date 05/25/2025
By
Miami Dade Product Control

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

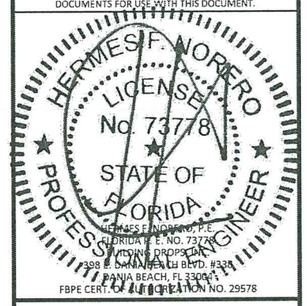
TITLE:
STORM TEX SCREEN SYSTEM (IMPACT) (HVHZ)
BUILD OUT MOUNT DETAILS

ALUTECH UNITED
1537 NORTHGATE BLVD.
SARASOTA, FLORIDA 34234
PH: 941-355-0970

ALUTECH UNITED, INC

REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.11.20

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.



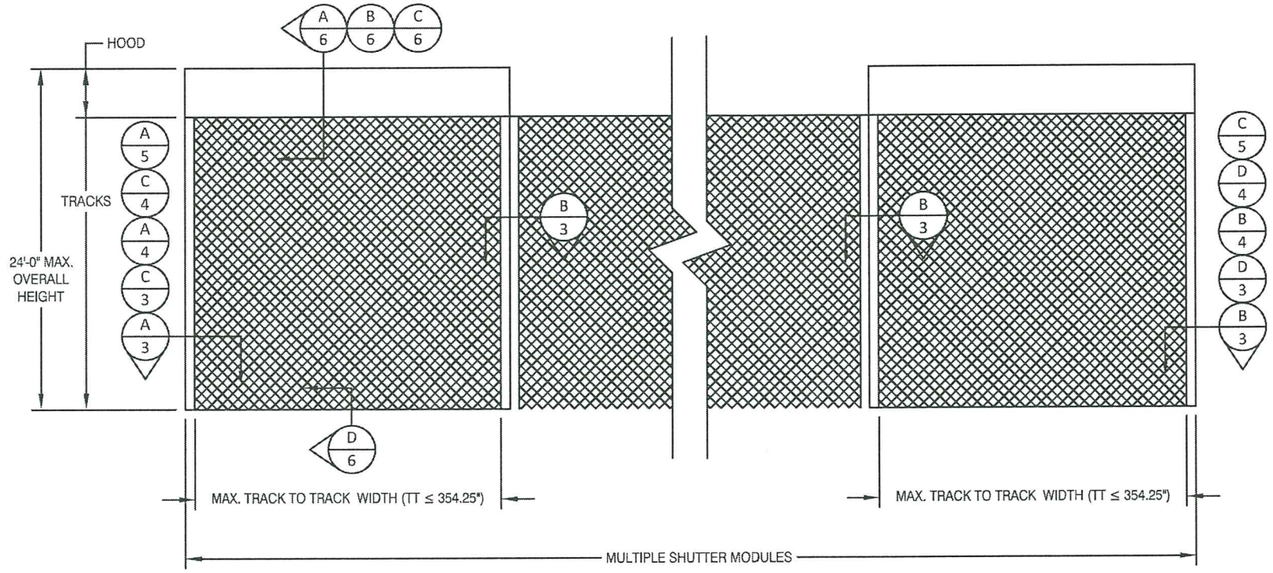
DATE: 02.14.20
DWG. BY: YC
CHK. BY: HFN
SCALE: NTS
DWG. #: ALU003
SHEET: OF 21

4

8/11/2020 3:58 PM
s:\projects\alutech united, inc\md-19-1231 - md submittal - zip tex bullet rolldown screen\dwgs\alu003 zip bullet rolldown screen.dwg

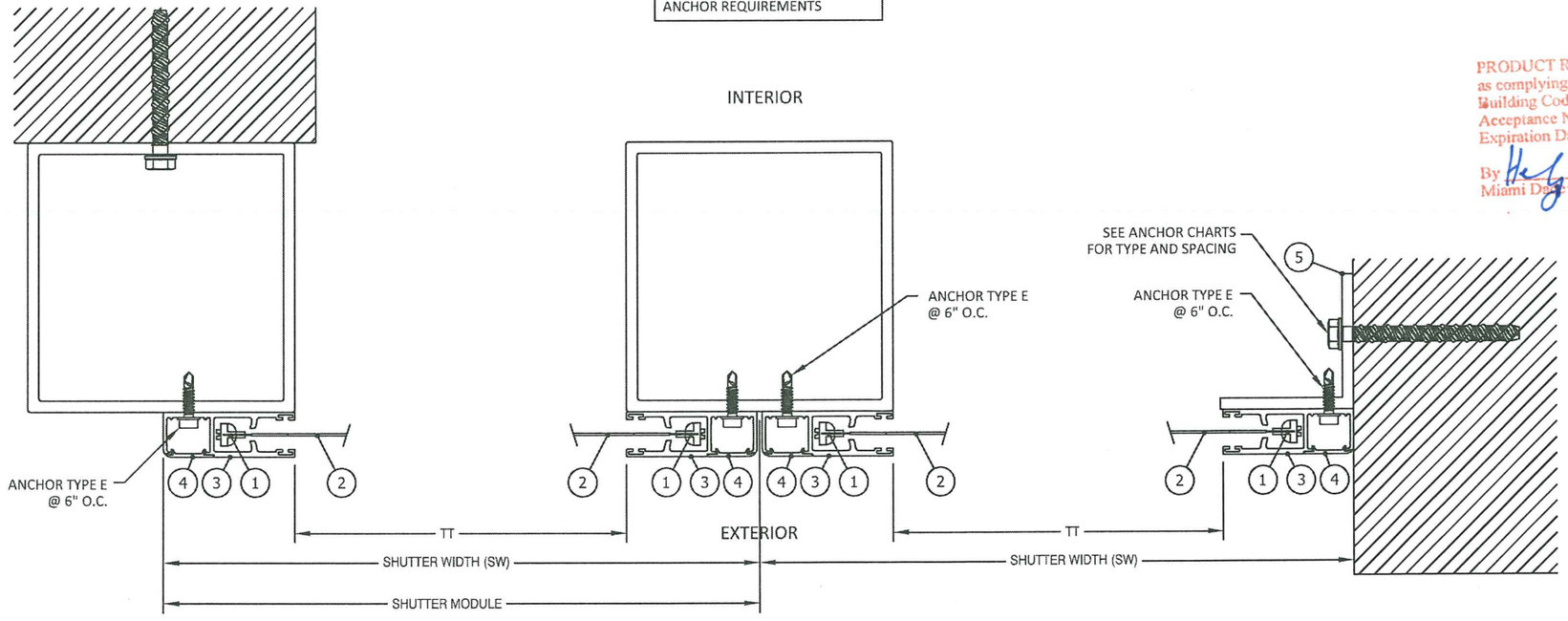
8/11/2020 3:58 PM

TYPICAL MULTIPLE UNITS ELEVATION



SEE DETAILS ON SHEETS 7-12 FOR ANCHOR REQUIREMENTS

INTERIOR



A/5 HORIZONTAL SECTION
BUILD-OUT MOUNT

B/5 HORIZONTAL SECTION
MULTIPLE CONNECTION

C/5 HORIZONTAL SECTION
INSET MOUNT

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 21-0427.04
Expiration Date 06/25/2025
By Miami Dade Product Control

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

TITLE: *STORM TEX SCREEN SYSTEM (IMPACT) (HVHZ)*
MULTIPLE UNITS
HORIZONTAL SECTIONS

ALUTECH UNITED
1537 NORTHGATE BLVD.
SARASOTA, FLORIDA 34234
PH: 941-355-0970

ALUTECH UNITED, INC

REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.11.20

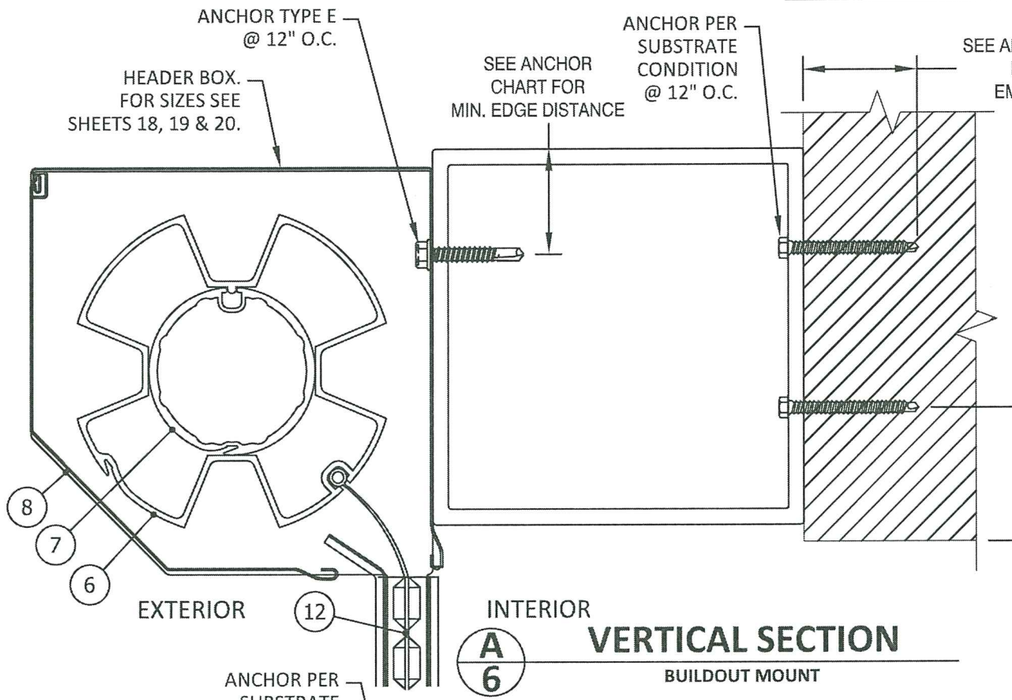
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.

HERMES F. NORIEGA LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
HERMES F. NORIEGA, P.E.
FLORIDA P.E. NO. 73778
SOLUTIONS PROPOSED
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

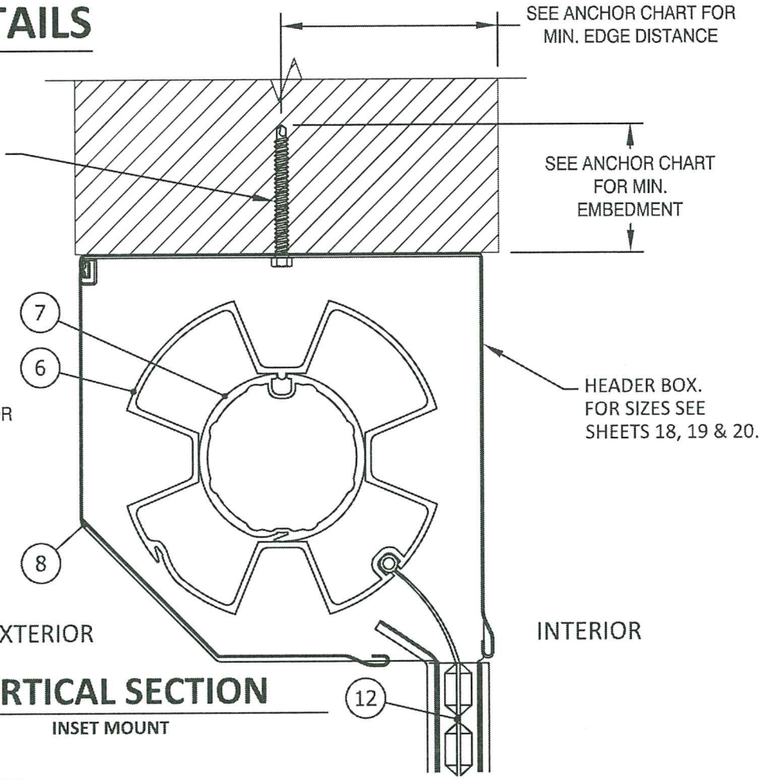
DATE: 02.14.20
DWG. BY: YC
CHK. BY: HFN
SCALE: NTS
DWG. #: ALU003
SHEET: 5 OF 21

s:\projects\alutech united, inc\md-19-1231 - md submittal - zip tex bullet rolldown screen\dwgs\alu003 zip bullet rolldown screen.dwg

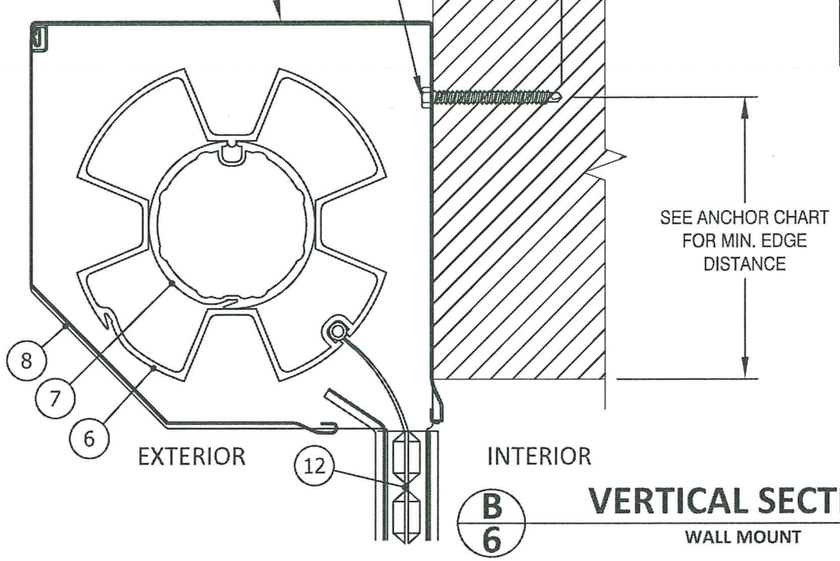
TYPICAL HEAD/SILL DETAILS



A/6 **VERTICAL SECTION**
BUILDOUT MOUNT

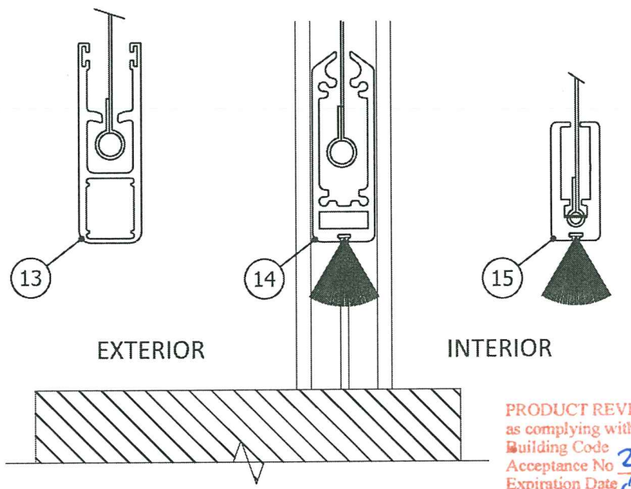


C/6 **VERTICAL SECTION**
INSET MOUNT



B/6 **VERTICAL SECTION**
WALL MOUNT

NOTE:
5.22" TUBE AND 6.49" HOOD ASSEMBLY SHOWN, SEE SHEET 18 FOR MORE DETAILS.
SEE SHEET 19 FOR 7" & 8" HOOD COMPONENTS.
SEE SHEET 20 FOR 9" HOOD COMPONENTS.
HOOD AND TUBE SHALL FOLLOW MANUFACTURERS SPECIFICATIONS.



D/6 **VERTICAL SECTION**
SILL

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 21-0427.04
Expiration Date 06/25/2025
By Hedy A. Marker
Miami Dade Product Control

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

TITLE: *STORM TEX SCREEN SYSTEM (IMPACT) (HVHZ)*
TYP. VERTICAL SECTIONS

ALUTECH UNITED
1537 NORTHGATE BLVD.
SARASOTA, FLORIDA 34234
PH: 941-355-0970

ALUTECH UNITED, INC

REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.11.20

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.

HERMES F. NORIEGA LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
HERMES F. NORIEGA, P.E.
FLORIDA P.E. NO. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

DATE: 02.14.20
DWG. BY: YC
CHK. BY: HFN
SCALE: NTS
DWG. #: ALU003
SHEET: 6 OF 21

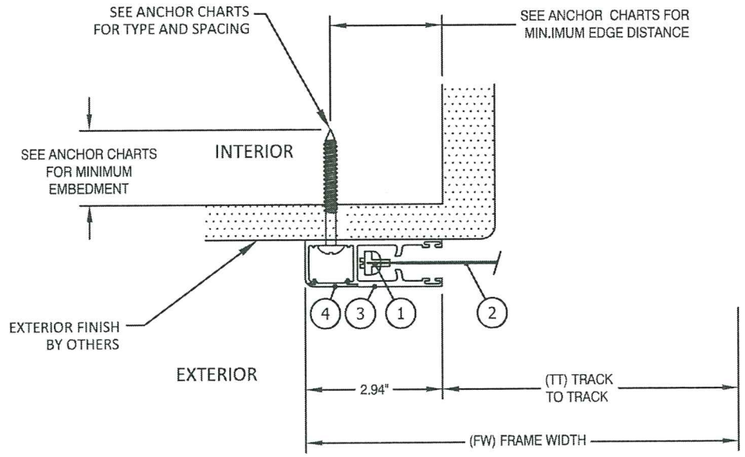
8/11/2020 3:58 PM

s:\projects\alutech united, inc\md-19-1231 - md submittal - zip tex bullet rolldown screen\dwgs\alu003 zip bullet rolldown screen.dwg

8/11/2020 3:58 PM

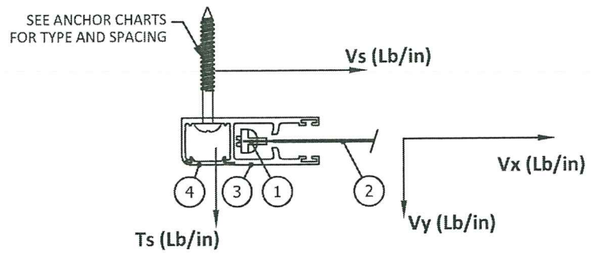
TABLE 3 - ANCHOR SPACING						ANCHOR TYPE & SPACING WALL - MOUNT 1						ANCHOR TYPE & SPACING 1X2, 2X2, 2X3, 2X4, 4X4 OR 6X6 BO - MOUNT 2					
FW	DP	VY	VX	Vs	Ts	A	B	C	D	E	F	A	B	C	D	E	F
96	35	11.7	38.3	38.3	104.2	6	6	6	6	6	6	6	6	6	6	6	6
	40	13.3	41.9	41.9	114.9	6	6	6	6	6	6	6	6	6	6	6	6
	45	15.0	45.1	45.1	124.9	6	6	6	6	6	6	6	6	6	6	6	6
	50	16.7	48.1	48.1	134.4	6	6	6	6	6	6	6	6	6	6	6	6
	55	18.3	50.8	50.8	143.3	6	6	6	6	6	6	6	6	6	6	6	6
	60	20.0	53.3	53.3	151.8	6	6	6	6	6	6	6	6	6	6	6	6
	65	21.7	55.7	55.7	159.9	6	6	6	6	6	6	6	6	6	6	6	6
	70	23.3	57.8	57.8	167.7	6	6	6	6	6	6	6	6	6	6	6	6
	75	25.0	59.9	59.9	175.1	6	6	6	6	6	6	6	6	6	6	6	6
	80	26.7	61.8	61.8	182.3	6	6	6	6	6	6	6	6	5	6	6	6
	85	28.3	63.6	63.6	189.1	6	6	6	6	6	6	6	6	5	6	6	6
	90	30.0	65.2	65.2	195.8	6	6	6	6	6	6	6	6	5	6	6	6
	95	31.7	66.8	66.8	202.2	6	6	6	6	6	6	6	6	4	6	6	6
	100	33.3	68.3	68.3	208.4	6	6	6	6	6	6	6	6	4	6	6	6
	105	35.0	69.7	69.7	214.5	6	6	6	6	6	6	6	6	4	6	6	6
	110	36.7	71.0	71.0	220.4	6	6	6	6	6	6	6	6	4	6	6	6
	115	38.3	72.2	72.2	226.1	6	6	6	6	6	6	6	6	4	6	6	5
	120	40.0	73.4	73.4	231.7	6	6	6	6	6	6	6	6	4	5	6	5
102	35	12.4	41.3	112.1	41.3	6	6	6	6	6	6	6	6	6	6	6	6
	40	14.2	45.0	123.2	45.0	6	6	6	6	6	6	6	6	6	6	6	6
	45	15.9	48.3	133.6	48.3	6	6	6	6	6	6	6	6	6	6	6	6
	50	17.7	51.3	143.4	51.3	6	6	6	6	6	6	6	6	6	6	6	6
	55	19.5	54.1	152.6	54.1	6	6	6	6	6	6	6	6	6	6	6	6
	60	21.3	56.7	161.4	56.7	6	6	6	6	6	6	6	6	6	6	6	6
	65	23.0	59.0	169.7	59.0	6	6	6	6	6	6	6	6	6	6	6	6
	70	24.8	61.2	177.6	61.2	6	6	6	6	6	6	6	6	5	6	6	6
	75	26.6	63.2	185.3	63.2	6	6	6	6	6	6	6	6	5	6	6	6
	80	28.3	65.1	192.6	65.1	6	6	6	6	6	6	6	6	5	6	6	6
	85	30.1	66.9	199.6	66.9	6	6	6	6	6	6	6	6	5	6	6	6
	90	31.9	68.5	206.4	68.5	6	6	6	6	6	6	6	6	4	6	6	6
	95	33.6	70.1	212.9	70.1	6	6	6	6	6	6	6	6	4	6	6	6
	100	35.4	71.5	219.3	71.5	6	6	6	6	6	6	6	6	4	6	6	6
	105	37.2	72.9	225.5	72.9	6	6	6	6	6	6	6	6	4	6	6	5
	110	39.0	74.2	231.5	74.2	6	6	6	6	6	6	6	6	4	5	6	5
	115	40.7	75.4	237.3	75.4	6	6	6	6	6	6	6	6	3	5	6	5
108	35	13.1	44.4	120.0	44.4	6	6	6	6	6	6	6	6	6	6	6	6
	40	15.0	48.1	131.6	48.1	6	6	6	6	6	6	6	6	6	6	6	6
	45	16.9	51.6	142.3	51.6	6	6	6	6	6	6	6	6	6	6	6	6
	50	18.8	54.6	152.4	54.6	6	6	6	6	6	6	6	6	6	6	6	6
	55	20.6	57.5	161.9	57.5	6	6	6	6	6	6	6	6	6	6	6	6
	60	22.5	60.0	170.9	60.0	6	6	6	6	6	6	6	6	6	6	6	6
	65	24.4	62.4	179.5	62.4	6	6	6	6	6	6	6	6	5	6	6	6
	70	26.3	64.6	187.6	64.6	6	6	6	6	6	6	6	6	5	6	6	6
	75	28.1	66.6	195.4	66.6	6	6	6	6	6	6	6	6	5	6	6	6
	80	30.0	68.5	202.9	68.5	6	6	6	6	6	6	6	6	4	6	6	6
	85	31.9	70.3	210.1	70.3	6	6	6	6	6	6	6	6	4	6	6	6
	90	33.8	71.9	217.0	71.9	6	6	6	6	6	6	6	6	4	6	6	6
	95	35.6	73.4	223.7	73.4	6	6	6	6	6	6	6	6	4	6	6	5
	100	37.5	74.8	230.2	74.8	6	6	6	6	6	6	6	6	4	5	6	5
	105	39.4	76.2	236.5	76.2	6	6	6	6	6	6	6	6	3	5	6	5
	110	41.3	77.4	242.7	77.4	6	6	6	6	6	6	6	6	3	5	6	5
	115	43.1	78.6	248.6	78.6	6	6	6	6	6	6	6	5	3	5	6	4

TYPICAL HORIZONTAL SECTIONS
WALL MOUNT



A/7 **HORIZONTAL SECTION**

MOUNT TYPE 1
WALL MOUNT
*WITH END RETENTION



PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 21-0422.04
Expiration Date 06/25/2025
By Hedy A. Mesa
Miami Dade Product Control

ANCHOR SCHEDULE:

ANCHOR	DESCRIPTION	MATERIAL	EDGE DISTANCE	EMBEDMENT
A	3/8" POWERS WEDGE BOLT	MIN. 3000 PSI CONCRETE	3 3/4"	3 1/2"
B	5/16" ITW TAPCON	MIN. 3000 PSI CONCRETE	2 3/16"	2 1/4"
C	3/8" POWERS WEGDE BOLT	GROUT FILLED C-90 BLOCK f'm ≥ 1500 PSI	2"	2 1/2"
D	5/16" ITW TAPCON	GROUT FILLED C-90 BLOCK f'm ≥ 2000 PSI	4"	2 1/4"
E	#14 ELCO DRIL-FLEX SELF DRILLING SCREW	MIN 1/4" 6063-T6 ALUM.	1/2"	3 THREADS PENETRATION
		A36 3/16" STEEL	3/8"	
F	5/16" ELCO Ultracon	MIN. SG = 0.55 WOOD	1 1/2"	2"

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

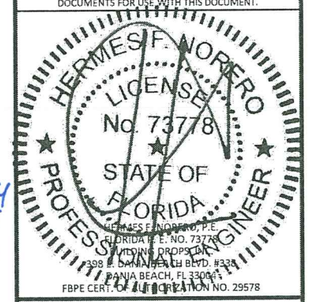
TITLE: *STORM TEX SCREEN SYSTEM (IMPACT) (HVHZ)*
HORIZONTAL SECTIONS & ANCHOR SCHEDULE

ALUTECH UNITED
1537 NORTHGATE BLVD.
SARASOTA, FLORIDA 34234
PH: 941-355-0970

ALUTECH UNITED, INC

REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.11.20

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.



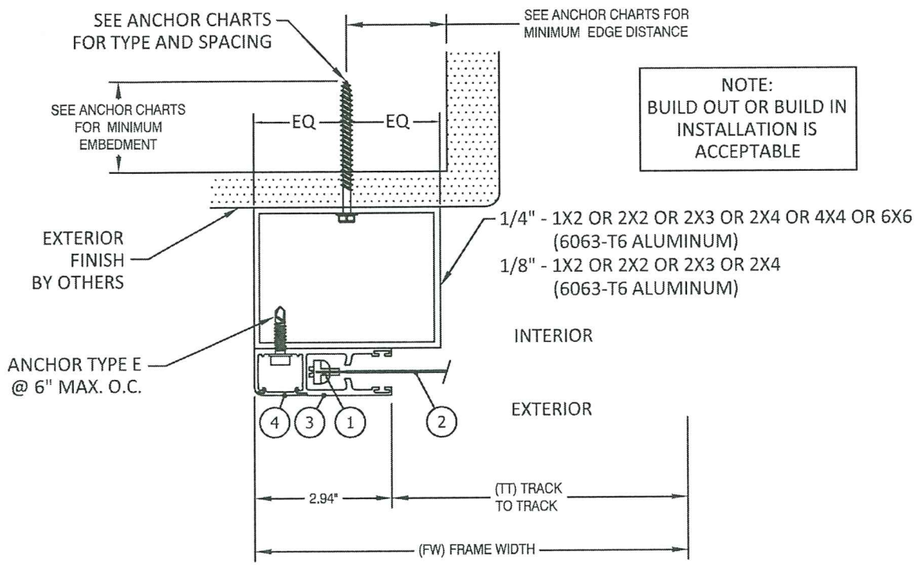
DATE:	02.14.20
DWG. BY: YC	CHK. BY: HFN
SCALE:	NTS
DWG. #:	ALU003
SHEET:	OF 21
	7

s:\projects\alutech united, inc\vnd-19-1231 - md submittal - zip tex bullet rolldown screen\dwgs\alu003 zip bullet rolldown screen.dwg

8/11/2020 3:58 PM

TABLE 3 - ANCHOR SPACING						ANCHOR TYPE & SPACING WALL - MOUNT 1						ANCHOR TYPE & SPACING 1X2, 2X2, 2X3, 2X4, 4X4 OR 6X6 BO - MOUNT 2					
FW	DP	VY	VX	Vs	Ts	A	B	C	D	E	F	A	B	C	D	E	F
114	35	13.9	47.4	127.9	47.4	6	6	6	6	6	6	6	6	6	6	6	6
	40	15.8	51.3	139.9	51.3	6	6	6	6	6	6	6	6	6	6	6	6
	45	17.8	54.8	151.1	54.8	6	6	6	6	6	6	6	6	6	6	6	6
	50	19.8	57.9	161.5	57.9	6	6	6	6	6	6	6	6	6	6	6	6
	55	21.8	60.8	171.3	60.8	6	6	6	6	6	6	6	6	6	6	6	6
	60	23.8	63.4	180.5	63.4	6	6	6	6	6	6	6	6	5	6	6	6
	65	25.7	65.8	189.3	65.8	6	6	6	6	6	6	6	6	5	6	6	6
	70	27.7	68.0	197.6	68.0	6	6	6	6	6	6	6	6	5	6	6	6
	75	29.7	70.0	205.6	70.0	6	6	6	6	6	6	6	6	4	6	6	6
	80	31.7	71.9	213.2	71.9	6	6	6	6	6	6	6	6	4	6	6	6
	85	33.6	73.6	220.6	73.6	6	6	6	6	6	6	6	6	4	6	6	5
	90	35.6	75.2	227.7	75.2	6	6	6	6	6	6	6	6	4	6	6	5
	95	37.6	76.7	234.6	76.7	6	6	6	6	6	6	6	6	3	5	6	5
	100	39.6	78.2	241.2	78.2	6	6	6	6	6	6	6	6	3	5	6	5
	105	41.6	79.5	247.7	79.5	6	6	6	6	6	6	6	5	3	5	6	4
	110	43.5	80.7	253.9	80.7	6	6	6	6	6	6	6	5	3	5	6	4
120	35	14.6	50.5	135.9	50.5	6	6	6	6	6	6	6	6	6	6	6	6
	40	16.7	54.5	148.3	54.5	6	6	6	6	6	6	6	6	6	6	6	6
	45	18.8	58.0	159.8	58.0	6	6	6	6	6	6	6	6	6	6	6	6
	50	20.8	61.2	170.5	61.2	6	6	6	6	6	6	6	6	6	6	6	6
	55	22.9	64.1	180.6	64.1	6	6	6	6	6	6	6	6	5	6	6	6
	60	25.0	66.8	190.1	66.8	6	6	6	6	6	6	6	6	5	6	6	6
	65	27.1	69.2	199.1	69.2	6	6	6	6	6	6	6	6	4	6	6	6
	70	29.2	71.4	207.6	71.4	6	6	6	6	6	6	6	6	4	6	6	6
	75	31.3	73.4	215.8	73.4	6	6	6	6	6	6	6	6	4	6	6	6
	80	33.3	75.3	223.6	75.3	6	6	6	6	6	6	6	6	4	6	6	5
	85	35.4	77.0	231.1	77.0	6	6	6	6	6	6	6	6	3	5	6	5
	90	37.5	78.6	238.4	78.6	6	6	6	6	6	6	6	6	3	5	6	5
	95	39.6	80.1	245.4	80.1	6	6	6	6	6	6	6	6	3	5	6	5
	100	41.7	81.5	252.2	81.5	6	6	6	6	6	6	6	5	3	5	6	4
	105	43.8	82.8	258.8	82.8	6	6	6	6	6	6	6	5	3	4	6	4
	110	45.8	84.0	265.3	84.0	6	6	6	6	6	6	6	5	3	4	6	4
132	35	16.0	56.6	151.8	56.6	6	6	6	6	6	6	6	6	6	6	6	6
	40	18.3	60.8	165.0	60.8	6	6	6	6	6	6	6	6	6	6	6	6
	45	20.6	64.5	177.2	64.5	6	6	6	6	6	6	6	6	5	6	6	6
	50	22.9	67.8	188.6	67.8	6	6	6	6	6	6	6	6	5	6	6	6
	55	25.2	70.8	199.2	70.8	6	6	6	6	6	6	6	6	4	6	6	6
	60	27.5	73.5	209.2	73.5	6	6	6	6	6	6	6	6	4	6	6	6
	65	29.8	75.9	218.6	75.9	6	6	6	6	6	6	6	6	4	6	6	5
	70	32.1	78.2	227.6	78.2	6	6	6	6	6	6	6	6	3	5	6	5
	75	34.4	80.2	236.2	80.2	6	6	6	6	6	6	6	6	3	5	6	5
	80	36.7	82.1	244.4	82.1	6	6	6	6	6	6	6	6	3	5	6	5
	85	39.0	83.8	252.3	83.8	6	6	6	6	6	6	6	5	3	5	6	4
	90	41.3	85.4	259.9	85.4	6	6	6	6	6	6	6	5	3	4	6	4
	95	43.5	86.9	267.3	86.9	6	6	6	6	6	6	6	5	3	4	6	4
	100	45.8	88.2	274.4	88.2	6	6	6	6	6	6	6	4	3	4	6	4
	105	48.1	89.5	281.3	89.5	6	6	6	6	6	6	6	4	-	4	6	4

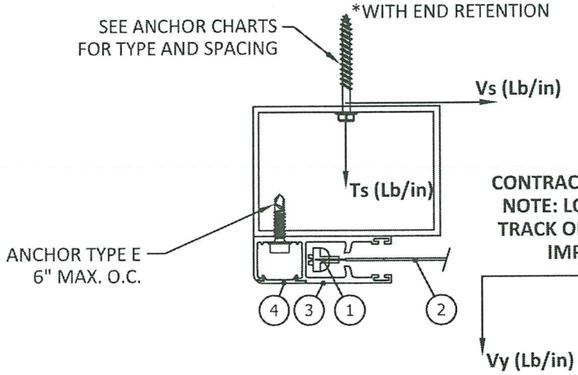
TYPICAL HORIZONTAL SECTIONS
BUILD OUT



NOTE:
BUILD OUT OR BUILD IN INSTALLATION IS ACCEPTABLE

A/8 HORIZONTAL SECTION

MOUNT TYPE 2
BUILD-OUT MOUNT
*WITH END RETENTION



CONTRACTOR TO VERIFY ADEQUACY OF STRUCTURE
NOTE: LOADS Vy AND Vx ARE LOADS IMPOSED BY TRACK ON HOUSING. LOADS Ts AND Vs ARE LOADS IMPOSED ON STRUCTURE BY ANCHORS.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 21-0422.04
Expiration Date 06/25/2025
By Miami Dade Product Control

ANCHOR SCHEDULE:

ANCHOR	DESCRIPTION	MATERIAL	EDGE DISTANCE	EMBEDMENT
A	3/8" POWERS WEDGE BOLT	MIN. 3000 PSI CONCRETE	3 3/4"	3 1/2"
B	5/16" ITW TAPCON	MIN. 3000 PSI CONCRETE	2 3/16"	2 1/4"
C	3/8" POWERS WEGDE BOLT	GROUT FILLED C-90 BLOCK f'm ≥ 1500 PSI	2"	2 1/2"
D	5/16" ITW TAPCON	GROUT FILLED C-90 BLOCK f'm ≥ 2000 PSI	4"	2 1/4"
E	#14 ELCO DRIL-FLEX SELF DRILLING SCREW	MIN 1/4" 6063-T6 ALUM.	1/2"	3 THREADS PENETRATION
		A36 3/16" STEEL	3/8"	
F	5/16" ELCO Ultracon	MIN. SG = 0.55 WOOD	1 1/2"	2"

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

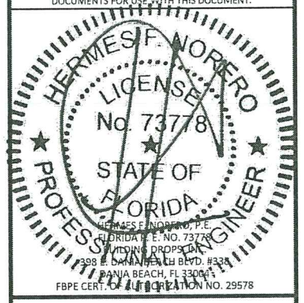
TITLE: *STORM TEX SCREEN SYSTEM (IMPACT) (HVHZ)*
HORIZONTAL SECTIONS & ANCHOR SCHEDULE

ALUTECH UNITED
1537 NORTHGATE BLVD.
SARASOTA, FLORIDA 34234
PH: 941-355-0970

ALUTECH UNITED, INC

REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.11.20

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.



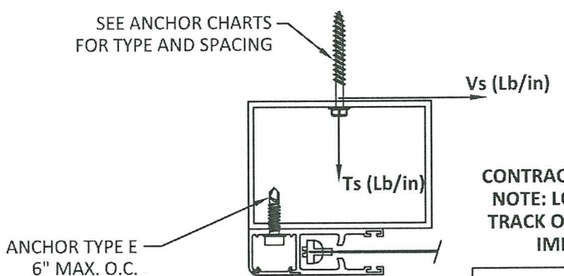
HERMES F. NORIEGA, P.E.
FLORIDA P.E. NO. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

DATE: 02.14.20
DWG. BY: YC
CHK. BY: HFN
SCALE: NTS
DWG. #: ALU003
SHEET: 8 OF 21

s:\projects\alutech united, inc\vd-19-1231 - md submittal - zip tex bullet rolldown screen\dwg\alu003 zip bullet rolldown screen.dwg

TABLE 3 - ANCHOR SPACING						ANCHOR TYPE & SPACING WALL - MOUNT 1						ANCHOR TYPE & SPACING 1X2, 2X2, 2X3, 2X4, 4X4 OR 6X6 BO - MOUNT 2					
FW	DP	VY	VX	Vs	Ts	A	B	C	D	E	F	A	B	C	D	E	F
144	35	17.5	62.8	167.8	62.8	6	6	6	6	6	6	6	6	6	6	6	6
	40	20.0	67.2	181.8	67.2	6	6	6	6	6	6	6	6	5	6	6	6
	45	22.5	71.0	194.7	71.0	6	6	6	6	6	6	6	6	4	6	6	6
	50	25.0	74.4	206.7	74.4	6	6	6	6	6	6	6	6	4	6	6	6
	55	27.5	77.5	217.8	77.5	6	6	6	6	6	6	6	6	4	6	6	5
	60	30.0	80.2	228.3	80.2	6	6	6	6	6	6	6	6	3	5	6	5
	65	32.5	82.7	238.2	82.7	6	6	6	6	6	6	6	6	3	5	6	5
	70	35.0	85.0	247.6	85.0	6	6	6	6	6	6	6	5	3	5	6	4
	75	37.5	87.0	256.6	87.0	6	6	6	6	6	6	6	5	3	4	6	4
	80	40.0	88.9	265.2	88.9	6	6	6	6	6	6	6	5	3	4	6	4
	85	42.5	90.6	273.5	90.6	6	6	6	6	6	6	6	4	-	4	6	4
	90	45.0	92.2	281.5	92.2	6	6	6	6	6	6	6	4	-	4	6	3
	95	47.5	93.7	289.2	93.7	6	6	6	6	6	6	6	4	-	4	6	3
	100	50.0	95.0	296.7	95.0	6	6	6	6	6	6	6	4	-	3	6	3
156	35	19.0	69.0	183.8	69.0	6	6	6	6	6	6	6	6	5	6	6	6
	40	21.7	73.5	198.6	73.5	6	6	6	6	6	6	6	6	4	6	6	6
	45	24.4	77.5	212.2	77.5	6	6	6	6	6	6	6	6	4	6	6	6
	50	27.1	81.0	224.8	81.0	6	6	6	6	6	6	6	6	3	6	6	5
	55	29.8	84.2	236.5	84.2	6	6	6	6	6	6	6	6	3	5	6	5
	60	32.5	87.0	247.4	87.0	6	6	6	6	6	6	6	5	3	5	6	4
	65	35.2	89.5	257.8	89.5	6	6	6	6	6	6	6	5	3	4	6	4
	70	37.9	91.8	267.7	91.8	6	6	6	6	6	6	6	5	3	4	6	4
	75	40.6	93.8	277.1	93.8	6	6	6	6	6	6	6	4	-	4	6	4
	80	43.3	95.7	286.1	95.7	6	6	6	6	6	6	6	4	-	4	6	3
	85	46.0	97.5	294.7	97.5	6	6	6	6	6	6	6	4	-	3	5	3
	90	48.8	99.0	303.1	99.0	6	6	6	6	6	6	6	4	-	3	5	3
	95	51.5	100.5	311.2	100.5	6	6	6	6	6	6	6	4	-	3	5	3
168	35	19.0	75.1	197.2	75.1	6	6	6	6	6	6	6	6	4	6	6	6
	40	21.7	79.9	212.4	79.9	6	6	6	6	6	6	6	6	4	6	6	6
	45	24.4	84.0	226.3	84.0	6	6	6	6	6	6	6	6	3	5	6	5
	50	27.1	87.6	239.1	87.6	6	6	6	6	6	6	6	6	3	5	6	5
	55	29.8	90.8	250.9	90.8	6	6	6	6	6	6	6	5	3	5	6	4
	60	32.5	93.7	262.0	93.7	6	6	6	6	6	6	6	5	3	4	6	4
	65	35.2	96.3	272.5	96.3	6	6	6	6	6	6	6	4	-	4	6	4
	70	37.9	98.6	282.4	98.6	6	6	6	6	6	6	6	4	-	4	6	3
	75	40.6	100.7	291.8	100.7	6	6	6	6	6	6	6	4	-	3	5	3
	80	43.3	102.6	300.9	102.6	6	6	6	6	6	6	6	4	-	3	5	3
	85	46.0	104.3	309.6	104.3	6	6	6	6	6	6	6	4	-	3	5	3
	90	48.8	105.9	318.0	105.9	6	6	6	6	6	6	6	3	-	3	5	3
180	35	23.3	84.4	225.3	84.4	6	6	6	6	6	6	6	6	4	6	6	5
	40	26.7	89.1	241.6	89.1	6	6	6	6	6	6	6	6	3	5	6	5
	45	30.0	93.2	256.4	93.2	6	6	6	6	6	6	6	5	3	5	6	4
	50	33.3	96.7	270.0	96.7	6	6	6	6	6	6	6	5	3	4	6	4
	55	36.7	99.8	282.7	99.8	6	6	6	6	6	6	6	4	-	4	6	4
	60	40.0	102.5	294.7	102.5	6	6	6	6	6	6	6	4	-	4	6	3
	65	43.3	104.9	305.9	104.9	6	6	6	6	6	6	6	4	-	3	5	3
	70	46.7	107.1	316.7	107.1	6	6	6	6	6	6	6	4	-	3	5	3
	75	50.0	109.0	326.9	109.0	6	6	6	6	6	6	6	3	-	3	5	3
	80	53.3	110.8	336.8	110.8	6	6	5	6	6	6	5	3	-	3	4	3

TABLE 3 - ANCHOR SPACING						ANCHOR TYPE & SPACING WALL - MOUNT 1						ANCHOR TYPE & SPACING 1X2, 2X2, 2X3, 2X4, 4X4 OR 6X6 BO - MOUNT 2					
FW	DP	VY	VX	Vs	Ts	A	B	C	D	E	F	A	B	C	D	E	F
192	35	23.3	84.4	225.3	84.4	6	6	6	6	6	6	6	6	3	5	6	5
	40	26.7	89.1	241.6	89.1	6	6	6	6	6	6	6	5	3	5	6	4
	45	30.0	93.2	256.4	93.2	6	6	6	6	6	6	6	5	3	4	6	4
	50	33.3	96.7	270.0	96.7	6	6	6	6	6	6	6	5	-	4	6	4
	55	36.7	99.8	282.7	99.8	6	6	6	6	6	6	6	4	-	4	6	3
	60	40.0	102.5	294.7	102.5	6	6	6	6	6	6	6	4	-	3	5	3
	65	43.3	104.9	305.9	104.9	6	6	6	6	6	6	6	4	-	3	5	3
	70	46.7	107.1	316.7	107.1	6	6	6	6	6	6	6	3	-	3	5	3
	75	50.0	109.0	326.9	109.0	6	6	5	6	6	6	5	3	-	3	5	3
	80	53.3	110.8	336.8	110.8	6	6	5	6	6	6	5	3	-	3	4	-
216	35	26.3	73.1	206.0	73.1	6	6	6	6	6	6	6	6	4	6	6	6
	40	30.0	76.8	220.8	76.8	6	6	6	6	6	6	6	6	4	6	6	5
	45	33.8	79.9	234.4	79.9	6	6	6	6	6	6	6	6	3	5	6	5
	50	37.5	82.6	247.0	82.6	6	6	6	6	6	6	6	5	3	5	6	4
	55	41.3	84.9	258.8	84.9	6	6	6	6	6	6	6	5	3	4	6	4
	60	45.0	87.0	270.1	87.0	6	6	6	6	6	6	6	5	3	4	6	4
	65	48.8	88.8	280.8	88.8	6	6	6	6	6	6	6	4	-	4	6	4
240	35	29.2	68.7	201.7	68.7	6	6	6	6	6	6	6	6	4	6	6	6
	40	33.3	71.9	216.3	71.9	6	6	6	6	6	6	6	6	4	6	6	6
	45	37.5	74.7	229.9	74.7	6	6	6	6	6	6	6	6	4	5	6	5
	50	41.7	77.0	242.5	77.0	6	6	6	6	6	6	6	6	3	5	6	5
	55	45.8	79.1	254.5	79.1	6	6	6	6	6	6	6	5	3	5	6	4
264	35	32.1	67.1	203.7	67.1	6	6	6	6	6	6	6	6	4	6	6	6
	40	36.7	70.2	218.6	70.2	6	6	6	6	6	6	6	6	4	6	6	6
	45	41.3	72.7	232.5	72.7	6	6	6	6	6	6	6	6	4	5	6	5
288	36.5997	32.1	67.0	203.4	67.0	6	6	6	6	6	6	6	6	4	6	6	6



CONTRACTOR TO VERIFY ADEQUACY OF STRUCTURE NOTE: LOADS Vy AND Vx ARE LOADS IMPOSED BY TRACK ON HOUSING. LOADS Ts AND Vs ARE LOADS IMPOSED ON STRUCTURE BY ANCHORS.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 06/25/2025
Expiration Date 06/25/2025
By
Miami Dade Product Control

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

TITLE: *STORM TEX SCREEN SYSTEM (IMPACT) (HVHZ)*

ANCHOR SCHEDULE SPACING

ALUTECH UNITED
1537 NORTHGATE BLVD.
SARASOTA, FLORIDA 34234
PH: 941-355-0970

ALUTECH UNITED, INC

REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.11.20

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.

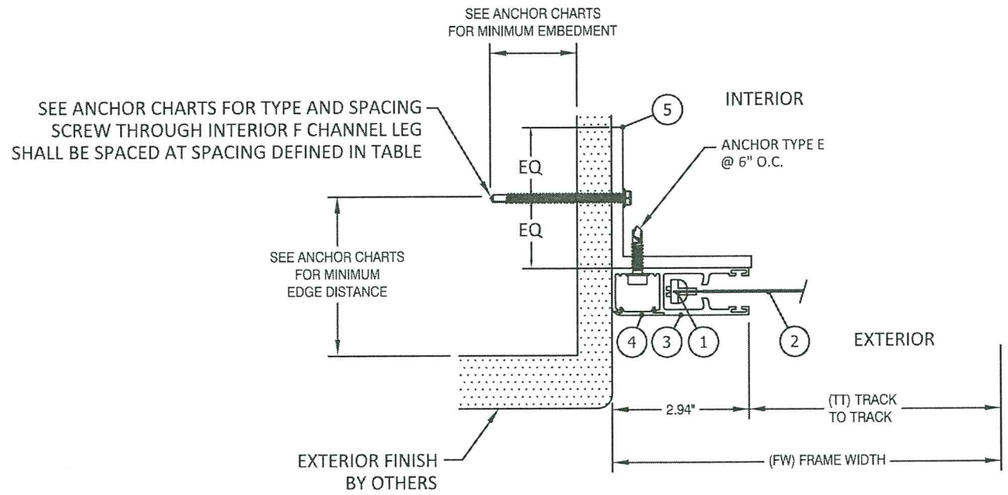
HERMES F. NORERO LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
HERMES F. NORERO, P.E.
FLORIDA P. E. NO. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

DATE: 02.14.20
DWG. BY: YC
CHK. BY: HFN
SCALE: NTS
DWG. #: ALU003
SHEET: OF 21
9

8/11/2020 3:58 PM
s:\projects\alutech united, inc\md-19-1231 - md submittal - zip tex bullet rolldown screen\dwgs\alu003 zip bullet rolldown screen.dwg

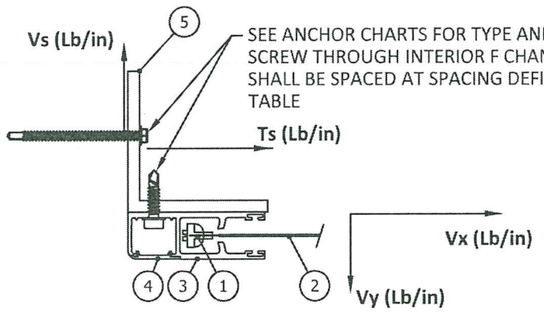
8/11/2020 3:58 PM

TYPICAL HORIZONTAL SECTIONS
INSET MOUNT



A/10 **HORIZONTAL SECTION**

MOUNT TYPE 3
INSET MOUNT
*WITH END RETENTION



CONTRACTOR TO VERIFY ADEQUACY OF STRUCTURE
NOTE: LOADS Vy AND Vx ARE LOADS IMPOSED BY TRACK ON HOUSING. LOADS Ts AND Vs ARE LOADS IMPOSED ON STRUCTURE BY ANCHORS.
NOTE: Ts AND Vs VALUES ARE TOTAL LOAD APPLIED BY BOTH SCREWS.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 21-0427.05
Expiration Date 06/25/2025
By
Miami Dade Product Control

SEE SHEETS 11 & 12 FOR ANCHOR SPACING TABLES

ANCHOR SCHEDULE:

ANCHOR	DESCRIPTION	MATERIAL	EDGE DISTANCE	EMBEDMENT
A	3/8" POWERS WEDGE BOLT	MIN. 3000 PSI CONCRETE	3 3/4"	3 1/2"
B	5/16" ITW TAPCON	MIN. 3000 PSI CONCRETE	2 3/16"	2 1/4"
C	3/8" POWERS WEGDE BOLT	GROUT FILLED C-90 BLOCK f'm ≥ 1500 PSI	2"	2 1/2"
D	5/16" ITW TAPCON	GROUT FILLED C-90 BLOCK f'm ≥ 2000 PSI	4"	2 1/4"
E	#14 ELCO DRIL-FLEX SELF DRILLING SCREW	MIN 1/4" 6063-T6 ALUM.	1/2"	3 THREADS PENETRATION
		A36 3/16" STEEL	3/8"	
F	5/16" ELCO Ultracon	MIN. SG = 0.55 WOOD	1 1/2"	2"

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

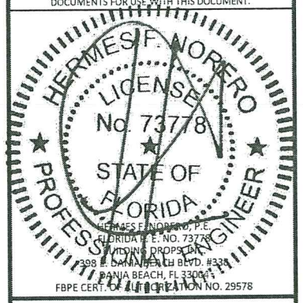
TITLE: *STORM TEX SCREEN SYSTEM (IMPACT) (HVHZ)*
TYP. HORIZONTAL SECTION - INSET MOUNT

ALUTECH UNITED
1537 NORTHGATE BLVD.
SARASOTA, FLORIDA 34234
PH: 941-355-0970

ALUTECH UNITED, INC

REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.11.20

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.



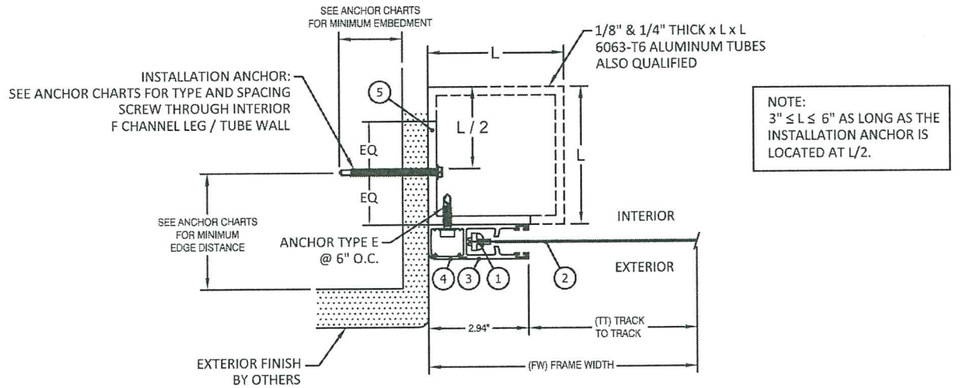
DATE: 02.14.20
DWG. BY: YC
CHK. BY: HFN
SCALE: NTS
DWG. #: ALU003
SHEET: 10 OF 21

s:\projects\alutech united, inc\md-19-1231 - md submittal - zip tex bullet rolldown screen\dwgs\alu003 zip bullet rolldown screen.dwg

8/11/2020 3:58 PM

TABLE 4 - ANCHOR SPACING						ANCHOR TYPE & SPACING INSET - MOUNT 3 1/8" THICK ALUMINUM TUBES						ANCHOR TYPE & SPACING INSET - MOUNT 3 1/4" THICK ALUMINUM ANGLE AND TUBES					
FW	DP	VY	VX	Vs	Ts	A	B	C	D	E	F	A	B	C	D	E	F
96	35	11.7	38.3	38.3	104.2	6	6	6	6	6	6	6	6	6	6	6	6
	40	13.3	41.9	41.9	114.9	6	6	6	6	6	6	6	6	6	6	6	6
	45	15.0	45.1	45.1	124.9	6	6	6	6	6	6	6	6	6	6	6	6
	50	16.7	48.1	48.1	134.4	6	6	6	6	6	6	6	6	6	6	6	6
	55	18.3	50.8	50.8	143.3	6	6	6	6	6	6	6	6	6	6	6	6
	60	20.0	53.3	53.3	151.8	6	6	6	6	6	6	6	6	6	6	6	6
	65	21.7	55.7	55.7	159.9	6	6	6	6	6	6	6	6	6	6	6	6
	70	23.3	57.8	57.8	167.7	6	6	6	6	6	6	6	6	6	6	6	6
	75	25.0	59.9	59.9	175.1	6	6	6	6	6	6	6	6	6	6	6	6
	80	26.7	61.8	61.8	182.3	6	6	6	6	6	6	6	6	6	6	6	6
	85	28.3	63.6	63.6	189.1	6	6	6	6	6	6	6	6	6	6	6	6
	90	30.0	65.2	65.2	195.8	6	6	6	6	6	6	6	6	6	6	6	6
	95	31.7	66.8	66.8	202.2	6	6	6	6	6	6	6	6	6	6	6	6
	100	33.3	68.3	68.3	208.4	6	6	6	6	6	6	6	6	6	6	6	6
	105	35.0	69.7	69.7	214.5	6	6	5	6	6	6	6	6	6	6	6	6
	110	36.7	71.0	71.0	220.4	6	6	5	6	6	6	6	6	5	6	6	6
	115	38.3	72.2	72.2	226.1	6	5	5	5	5	5	6	6	5	6	6	6
	120	40.0	73.4	73.4	231.7	5	5	5	5	5	5	6	6	5	6	6	6
102	35	12.4	41.3	112.1	41.3	6	6	6	6	6	6	6	6	6	6	6	6
	40	14.2	45.0	123.2	45.0	6	6	6	6	6	6	6	6	6	6	6	6
	45	15.9	48.3	133.6	48.3	6	6	6	6	6	6	6	6	6	6	6	6
	50	17.7	51.3	143.4	51.3	6	6	6	6	6	6	6	6	6	6	6	6
	55	19.5	54.1	152.6	54.1	6	6	6	6	6	6	6	6	6	6	6	6
	60	21.3	56.7	161.4	56.7	6	6	6	6	6	6	6	6	6	6	6	6
	65	23.0	59.0	169.7	59.0	6	6	6	6	6	6	6	6	6	6	6	6
	70	24.8	61.2	177.6	61.2	6	6	6	6	6	6	6	6	6	6	6	6
	75	26.6	63.2	185.3	63.2	6	6	6	6	6	6	6	6	6	6	6	6
	80	28.3	65.1	192.6	65.1	6	6	6	6	6	6	6	6	6	6	6	6
	85	30.1	66.9	199.6	66.9	6	6	6	6	6	6	6	6	6	6	6	6
	90	31.9	68.5	206.4	68.5	6	6	6	6	6	6	6	6	6	6	6	6
	95	33.6	70.1	212.9	70.1	6	6	5	6	6	6	6	6	6	6	6	6
	100	35.4	71.5	219.3	71.5	6	6	5	6	6	6	6	6	5	6	6	6
	105	37.2	72.9	225.5	72.9	6	5	5	5	5	5	6	6	5	6	6	6
	110	39.0	74.2	231.5	74.2	5	5	5	5	5	5	6	6	5	6	6	6
	115	40.7	75.4	237.3	75.4	5	5	4	5	5	5	6	6	5	6	6	6
108	35	13.1	44.4	120.0	44.4	6	6	6	6	6	6	6	6	6	6	6	6
	40	15.0	48.1	131.6	48.1	6	6	6	6	6	6	6	6	6	6	6	6
	45	16.9	51.6	142.3	51.6	6	6	6	6	6	6	6	6	6	6	6	6
	50	18.8	54.6	152.4	54.6	6	6	6	6	6	6	6	6	6	6	6	6
	55	20.6	57.5	161.9	57.5	6	6	6	6	6	6	6	6	6	6	6	6
	60	22.5	60.0	170.9	60.0	6	6	6	6	6	6	6	6	6	6	6	6
	65	24.4	62.4	179.5	62.4	6	6	6	6	6	6	6	6	6	6	6	6
	70	26.3	64.6	187.6	64.6	6	6	6	6	6	6	6	6	6	6	6	6
	75	28.1	66.6	195.4	66.6	6	6	6	6	6	6	6	6	6	6	6	6
	80	30.0	68.5	202.9	68.5	6	6	6	6	6	6	6	6	6	6	6	6
	85	31.9	70.3	210.1	70.3	6	6	6	6	6	6	6	6	6	6	6	6
	90	33.8	71.9	217.0	71.9	6	6	5	6	6	6	6	6	5	6	6	6
	95	35.6	73.4	223.7	73.4	6	6	5	5	5	5	6	6	5	6	6	6
	100	37.5	74.8	230.2	74.8	5	5	5	5	5	5	6	6	5	6	6	6
	105	39.4	76.2	236.5	76.2	5	5	4	5	5	5	6	6	5	6	6	6
	110	41.3	77.4	242.7	77.4	5	5	4	5	5	5	6	6	4	6	6	6
	115	43.1	78.6	248.6	78.6	5	5	4	5	5	4	6	6	4	6	6	5
114	35	13.9	47.4	127.9	47.4	6	6	6	6	6	6	6	6	6	6	6	6
	40	15.8	51.3	139.9	51.3	6	6	6	6	6	6	6	6	6	6	6	6
	45	17.8	54.8	151.1	54.8	6	6	6	6	6	6	6	6	6	6	6	6
	50	19.8	57.9	161.5	57.9	6	6	6	6	6	6	6	6	6	6	6	6
	55	21.8	60.8	171.3	60.8	6	6	6	6	6	6	6	6	6	6	6	6
	60	23.8	63.4	180.5	63.4	6	6	6	6	6	6	6	6	6	6	6	6
	65	25.7	65.8	189.3	65.8	6	6	6	6	6	6	6	6	6	6	6	6
	70	27.7	68.0	197.6	68.0	6	6	6	6	6	6	6	6	6	6	6	6
	75	29.7	70.0	205.6	70.0	6	6	6	6	6	6	6	6	6	6	6	6
	80	31.7	71.9	213.2	71.9	6	6	5	6	6	6	6	6	6	6	6	6
	85	33.6	73.6	220.6	73.6	6	6	5	6	6	6	6	6	5	6	6	6
	90	35.6	75.2	227.7	75.2	5	5	5	5	5	5	6	6	5	6	6	6
	95	37.6	76.7	234.6	76.7	5	5	5	5	5	5	6	6	5	6	6	6
	100	39.6	78.2	241.2	78.2	5	5	4	5	5	5	6	6	4	6	6	6
	105	41.6	79.5	247.7	79.5	5	5	4	5	5	4	6	6	4	6	6	5
	110	43.5	80.7	253.9	80.7	4	4	4	4	4	4	6	6	4	6	6	5

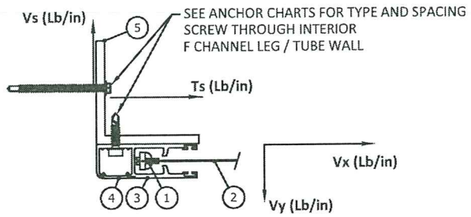
TYPICAL HORIZONTAL SECTIONS INSET MOUNT



NOTE:
3" ≤ L ≤ 6" AS LONG AS THE INSTALLATION ANCHOR IS LOCATED AT L/2.

A/11 **HORIZONTAL SECTION**

MOUNT TYPE 3
INSET MOUNT
*WITH END RETENTION



CONTRACTOR TO VERIFY ADEQUACY OF STRUCTURE
NOTE: LOADS Vy AND Vx ARE LOADS IMPOSED BY TRACK ON HOUSING. LOADS Ts AND Vs ARE LOADS IMPOSED ON STRUCTURE BY ANCHORS.
NOTE: Ts AND Vs VALUES ARE TOTAL LOAD APPLIED BY BOTH SCREWS.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 21-0427.04
Expiration Date 06/25/2025
By Miami Dade Product Control

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

TITLE: *STORM TEX SCREEN SYSTEM (IMPACT) (HVHZ)*
TYP. HORIZONTAL SECTION - INSET MOUNT ANCHOR SPACING TABLE

ALUTECH UNITED
1537 NORTHGATE BLVD.
SARASOTA, FLORIDA 34234
PH: 941-355-0970
ALUTECH UNITED, INC

REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.11.20

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.

HERMES F. NORIEGA LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
HERMES F. NORIEGA, P.E.
FLORIDA P.E. NO. 73778
BUILDING DROPS, INC.
#398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

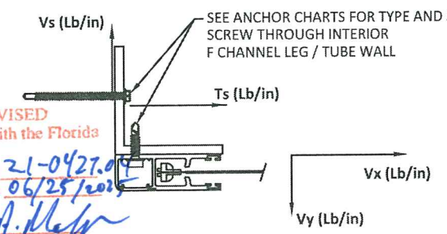
DATE: 02.14.20
DWG. BY: YC
CHK. BY: HFN
SCALE: NTS
DWG. #: ALU003
SHEET: OF 21
11

s:\projects\alutech united, inc\cmd-19-1231 - mfd submittal - zip tex bullet rolldown screen\dwgs\alu003 zip bullet rolldown screen.dwg

8/11/2020 3:59 PM

TABLE 4 - ANCHOR SPACING						ANCHOR TYPE & SPACING INSET - MOUNT 3 1/8" THICK ALUMINUM TUBES						ANCHOR TYPE & SPACING INSET - MOUNT 3 1/4" THICK ALUMINUM ANGLE AND TUBES					
FW	DP	VY	VX	Vs	Ts	A	B	C	D	E	F	A	B	C	D	E	F
120	35	14.6	50.5	135.9	50.5	6	6	6	6	6	6	6	6	6	6	6	6
	40	16.7	54.5	148.3	54.5	6	6	6	6	6	6	6	6	6	6	6	6
	45	18.8	58.0	159.8	58.0	6	6	6	6	6	6	6	6	6	6	6	6
	50	20.8	61.2	170.5	61.2	6	6	6	6	6	6	6	6	6	6	6	6
	55	22.9	64.1	180.6	64.1	6	6	6	6	6	6	6	6	6	6	6	6
	60	25.0	66.8	190.1	66.8	6	6	6	6	6	6	6	6	6	6	6	6
	65	27.1	69.2	199.1	69.2	6	6	6	6	6	6	6	6	6	6	6	6
	70	29.2	71.4	207.6	71.4	6	6	6	6	6	6	6	6	6	6	6	6
	75	31.3	73.4	215.8	73.4	6	6	5	6	6	6	6	6	6	6	6	6
	80	33.3	75.3	223.6	75.3	6	5	5	5	5	5	6	6	5	6	6	6
	85	35.4	77.0	231.1	77.0	5	5	5	5	5	5	6	6	5	6	6	6
	90	37.5	78.6	238.4	78.6	5	5	4	5	5	5	6	6	5	6	6	6
	95	39.6	80.1	245.4	80.1	5	5	4	5	5	5	6	6	4	6	6	6
	100	41.7	81.5	252.2	81.5	4	4	4	4	4	4	6	6	4	6	6	5
	105	43.8	82.8	258.8	82.8	4	4	4	4	4	4	6	6	4	5	6	5
	110	45.8	84.0	265.3	84.0	4	4	4	4	4	4	6	6	4	5	6	5
132	35	16.0	56.6	151.8	56.6	6	6	6	6	6	6	6	6	6	6	6	6
	40	18.3	60.8	165.0	60.8	6	6	6	6	6	6	6	6	6	6	6	6
	45	20.6	64.5	177.2	64.5	6	6	6	6	6	6	6	6	6	6	6	6
	50	22.9	67.8	188.6	67.8	6	6	6	6	6	6	6	6	6	6	6	6
	55	25.2	70.8	199.2	70.8	6	6	6	6	6	6	6	6	6	6	6	6
	60	27.5	73.5	209.2	73.5	6	6	6	6	6	6	6	6	6	6	6	6
	65	29.8	75.9	218.6	75.9	6	6	5	6	6	6	6	6	5	6	6	6
	70	32.1	78.2	227.6	78.2	5	5	5	5	5	5	6	6	5	6	6	6
	75	34.4	80.2	236.2	80.2	5	5	4	5	5	5	6	6	5	6	6	6
	80	36.7	82.1	244.4	82.1	5	5	4	5	5	5	6	6	4	6	6	6
	85	39.0	83.8	252.3	83.8	4	4	4	4	4	4	6	6	4	6	6	5
	90	41.3	85.4	259.9	85.4	4	4	4	4	4	4	6	6	4	5	6	5
	95	43.5	86.9	267.3	86.9	4	4	4	4	4	4	6	5	4	5	6	5
	100	45.8	88.2	274.4	88.2	4	4	3	4	4	4	6	5	4	5	6	5
	105	48.1	89.5	281.3	89.5	4	4	3	4	4	4	6	5	3	5	6	4
144	35	17.5	62.8	167.8	62.8	6	6	6	6	6	6	6	6	6	6	6	6
	40	20.0	67.2	181.8	67.2	6	6	6	6	6	6	6	6	6	6	6	6
	45	22.5	71.0	194.7	71.0	6	6	6	6	6	6	6	6	6	6	6	6
	50	25.0	74.4	206.7	74.4	6	6	6	6	6	6	6	6	6	6	6	6
	55	27.5	77.5	217.8	77.5	6	6	5	6	6	6	6	6	5	6	6	6
	60	30.0	80.2	228.3	80.2	5	5	5	5	5	5	6	6	5	6	6	6
	65	32.5	82.7	238.2	82.7	5	5	4	5	5	5	6	6	5	6	6	6
	70	35.0	85.0	247.6	85.0	5	5	4	4	4	4	6	6	4	6	6	5
	75	37.5	87.0	256.6	87.0	4	4	4	4	4	4	6	6	4	5	6	5
	80	40.0	88.9	265.2	88.9	4	4	4	4	4	4	6	6	4	5	6	5
	85	42.5	90.6	273.5	90.6	4	4	3	4	4	4	6	5	4	5	6	5
	90	45.0	92.2	281.5	92.2	4	4	3	4	4	4	6	5	3	5	6	4
	95	47.5	93.7	289.2	93.7	3	3	3	3	3	3	6	5	3	4	6	4
	100	50.0	95.0	296.7	95.0	3	3	3	3	3	3	6	5	3	4	6	4
156	35	19.0	69.0	183.8	69.0	6	6	6	6	6	6	6	6	6	6	6	6
	40	21.7	73.5	198.6	73.5	6	6	6	6	6	6	6	6	6	6	6	6
	45	24.4	77.5	212.2	77.5	6	6	5	6	6	6	6	6	6	6	6	6
	50	27.1	81.0	224.8	81.0	5	5	5	5	5	5	6	6	5	6	6	6
	55	29.8	84.2	236.5	84.2	5	5	4	5	5	5	6	6	5	6	6	6
	60	32.5	87.0	247.4	87.0	5	4	4	4	4	4	6	6	4	6	6	5
	65	35.2	89.5	257.8	89.5	4	4	4	4	4	4	6	6	4	5	6	5
	70	37.9	91.8	267.7	91.8	4	4	4	4	4	4	6	5	4	5	6	5
	75	40.6	93.8	277.1	93.8	4	4	3	4	4	4	6	5	3	5	6	4
	80	43.3	95.7	286.1	95.7	4	3	3	3	3	3	6	5	3	4	6	4
	85	46.0	97.5	294.7	97.5	3	3	3	3	3	3	6	5	3	4	6	4
	90	48.8	99.0	303.1	99.0	3	3	3	3	3	3	6	4	3	4	6	4
	95	51.5	100.5	311.2	100.5	3	3	3	3	3	3	6	4	3	4	6	4

TABLE 4 - ANCHOR SPACING						ANCHOR TYPE & SPACING INSET - MOUNT 3 1/8" THICK ALUMINUM TUBES						ANCHOR TYPE & SPACING INSET - MOUNT 3 1/4" THICK ALUMINUM ANGLE AND TUBES					
FW	DP	VY	VX	Vs	Ts	A	B	C	D	E	F	A	B	C	D	E	F
168	35	19.0	75.1	197.2	75.1	6	6	6	6	6	6	6	6	6	6	6	6
	40	21.7	79.9	212.4	79.9	6	6	5	6	6	6	6	6	6	6	6	6
	45	24.4	84.0	226.3	84.0	5	5	5	5	5	5	6	6	5	6	6	6
	50	27.1	87.6	239.1	87.6	5	5	4	5	5	5	6	6	4	6	6	6
	55	29.8	90.8	250.9	90.8	4	4	4	4	4	4	6	6	4	5	6	5
	60	32.5	93.7	262.0	93.7	4	4	4	4	4	4	6	5	4	5	6	5
	65	35.2	96.3	272.5	96.3	4	4	3	4	4	4	6	5	3	5	6	4
	70	37.9	98.6	282.4	98.6	3	3	3	3	3	3	6	5	3	4	6	4
	75	40.6	100.7	291.8	100.7	3	3	3	3	3	3	6	4	3	4	6	4
	80	43.3	102.6	300.9	102.6	3	3	3	3	3	3	6	4	3	4	6	4
	85	46.0	104.3	309.6	104.3	3	3	3	3	3	3	6	4	3	4	6	3
	90	48.8	105.9	318.0	105.9	3	3	-	3	3	3	6	4	3	4	6	3
180	35	23.3	84.4	225.3	84.4	6	6	5	6	6	6	6	6	6	6	6	6
	40	26.7	89.1	241.6	89.1	5	5	5	5	5	5	6	6	5	6	6	6
	45	30.0	93.2	256.4	93.2	4	4	4	4	4	4	6	6	4	6	6	5
	50	33.3	96.7	270.0	96.7	4	4	4	4	4	4	6	6	4	5	6	5
	55	36.7	99.8	282.7	99.8	4	4	3	4	4	4	6	5	4	5	6	4
	60	40.0	102.5	294.7	102.5	3	3	3	3	3	3	6	5	3	4	6	4
	65	43.3	104.9	305.9	104.9	3	3	3	3	3	3	6	4	3	4	6	4
	70	46.7	107.1	316.7	107.1	3	3	3	3	3	3	6	4	3	4	6	3
	75	50.0	109.0	326.9	109.0	3	3	3	3	3	3	6	4	3	4	6	3
	80	53.3	110.8	336.8	110.8	3	3	-	3	3	3	6	4	3	3	6	3
192	35	23.3	84.4	225.3	84.4	5	5	5	5	5	5	6	6	5	6	6	6
	40	26.7	89.1	241.6	89.1	5	5	4	5	5	5	6	6	5	6	6	6
	45	30.0	93.2	256.4	93.2	4	4	4	4	4	4	6	6	4	5	6	5
	50	33.3	96.7	270.0	96.7	4	4	4	4	4	4	6	5	4	5	6	5
	55	36.7	99.8	282.7	99.8	4	3	3	3	3	3	6	5	3	4	6	4
	60	40.0	102.5	294.7	102.5	3	3	3	3	3	3	6	5	3	4	6	4
	65	43.3	104.9	305.9	104.9	3	3	3	3	3	3	6	4	3	4	6	4
	70	46.7	107.1	316.7	107.1	3	3	3	3	3	3	6	4	3	4	6	3
	75	50.0	109.0	326.9	109.0	3	3	-	3	3	3	6	4	3	3	6	3
	80	53.3	110.8	336.8	110.8	3	3	-	-	-	-	6	4	-	3	6	3
216	35	26.3	73.1	206.0	73.1	6	6	6	6	6	6	6	6	6	6	6	6
	40	30.0	76.8	220.8	76.8	6	6	5	5	5	5	6	6	5	6	6	6
	45	33.8	79.9	234.4	79.9	5	5	5	5	5	5	6	6	5	6	6	6
	50	37.5	82.6	247.0	82.6	5	5	4	4	4	4	6	6	4	6	6	5
	55	41.3	84.9	258.8	84.9	4	4	4	4	4	4	6	6	4	5	6	5
	60	45.0	87.0	270.1	87.0	4	4	3	4	4	4	6	5	4	5	6	5
	65	48.8	88.8	280.8	88.8	4	4	3	4	4	4	6	5	3	5	6	4
240	35	29.2	68.7	201.7	68.7	6	6	6	6	6	6	6	6	6	6	6	6
	40	33.3	71.9	216.3	71.9	6	6	6	6	6	6	6	6	6	6	6	6
	45	37.5	74.7	229.9	74.7	6	6	5	5	5	5	6	6	5	6	6	6
	50	41.7	77.0	242.5	77.0	5	5	5	5	5	5	6	6	5	6	6	6
	55	45.8	79.1	254.5	79.1	5	5	4	5	5	5	6	6	4	6	6	5
264	35	32.1	67.1	203.7	67.1	6	6	6	6	6	6	6	6	6	6	6	6
	40	36.7	70.2	218.6	70.2	6	6	6	6	6	6	6	6	6	6	6	6
	45	41.3	72.7	232.5	72.7	6	6	5	6	6	6	6	6	5	6	6	6
288	36.5997	32.1	67.0	203.4	67.0	6	6	6	6	6	6	6	6	6	6	6	6



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 21-0427.01
Expiration Date 06/25/2025
By
Miami Dade Product Control

CONTRACTOR TO VERIFY ADEQUACY OF STRUCTURE
NOTE: LOADS Vy AND Vx ARE LOADS IMPOSED BY TRACK ON HOUSING. LOADS Ts AND Vs ARE LOADS IMPOSED ON STRUCTURE BY ANCHORS.
NOTE: Ts AND Vs VALUES ARE TOTAL LOAD APPLIED BY BOTH SCREWS.

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

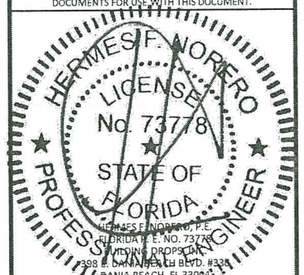
TITLE: *STORM TEX SCREEN SYSTEM (IMPACT) (HVHZ)*
ANCHOR SCHEDULE - INSET MOUNT

ALUTECH UNITED
1537 NORTHGATE BLVD.
SARASOTA, FLORIDA 34234
PH: 941-355-0970

ALUTECH UNITED, INC

REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.11.20

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.



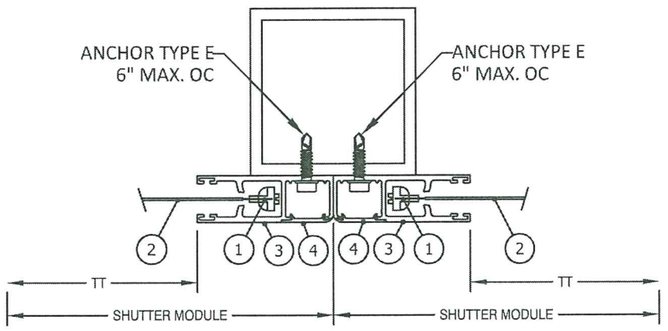
DATE:	02.14.20
DWG. BY: YC	CHK. BY: HFN
SCALE:	NTS
DWG. #:	ALU003
SHEET:	OF 21
	12

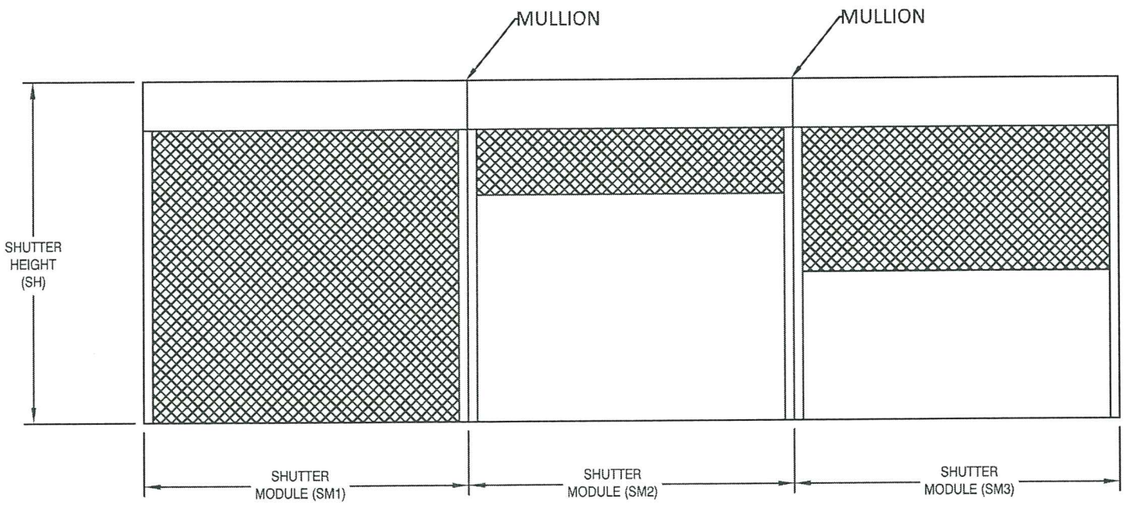
s:\projects\alutech united, inc\md-19-1231 - md submittal - zip tex bullet rolldown screen\dwgs\alu003 zip bullet rolldown screen.dwg

8/11/2020 3:59 PM

EQUALLY SPACED MULLIONS SELECTION

FACE MOUNT MULLION





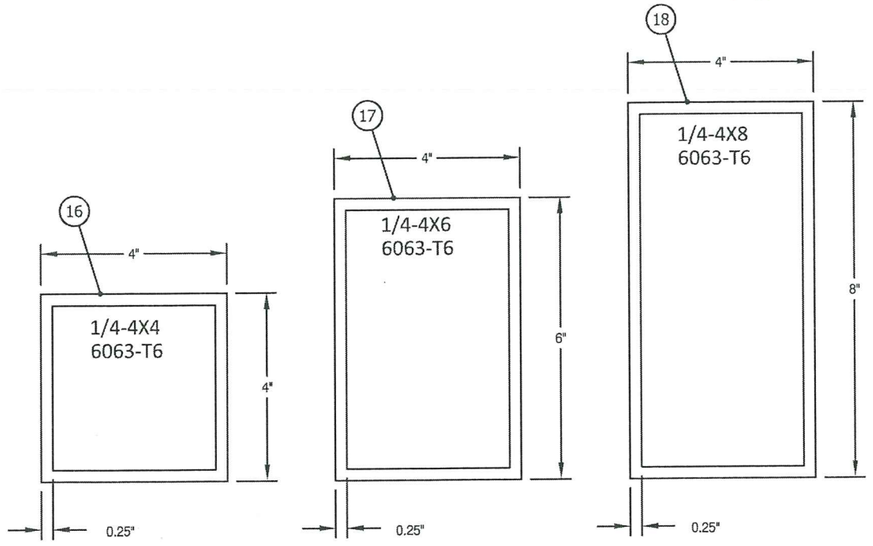
SM1 = SM2 = SM3

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 21-0422.04
Expiration Date 06/25/2025
By Miami Dade Product Control

MAXIMUM MULLION DESIGN PRESSURE (PSF)

FW Max.	1/4-4x8 MULLION SPAN			1/4-4x6 MULLION SPAN			1/4-4x4 MULLION SPAN		
	144	120	96	144	120	96	144	120	96
288	34	34	34	N/A	29	34	N/A	N/A	21
264	37	46	46	N/A	31	46	N/A	N/A	23
240	41	57	57	20	35	57	N/A	N/A	25
216	45	66	68	22	39	68	N/A	N/A	28
192	51	75	79	25	43	77	N/A	N/A	32
180	54	80	84	27	46	82	N/A	N/A	34
168	58	85	89	29	50	88	N/A	N/A	36
156	63	92	94	31	54	94	N/A	20	39
144	68	99	99	33	58	99	N/A	22	42
132	74	104	104	36	63	104	N/A	24	46
120	82	109	109	40	70	109	N/A	26	51
114	86	112	112	42	73	112	N/A	27	54
108	91	114	114	45	78	114	N/A	29	57
102	97	117	117	47	82	117	N/A	31	60
96	103	119	119	50	87	119	N/A	33	64

NOTES:
1. MULLIONS WERE DESIGNED BY RATIONAL ANALYSIS BASED ON THE ALUMINUM DESIGN MANUAL AND THE FLORIDA BUILDING CODE. ABOVE LOADS ARE ALSO LIMITED BY THE MAX. CAPACITY OF THE PRODUCT.
2. DEFLECTION CRITERIA: MAX. SPAN/180
3. VALUES ABOVE ARE APPLICABLE ONLY FOR EQUAL MODULES SM1=SM2=SM3
4. UNEQUAL MODULES ARE TO BE DESIGNED BY RATIONAL ANALYSIS IN A CASE BY CASE BASIS.



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

TITLE: *STORM TEX SCREEN SYSTEM (IMPACT) (HVHZ)*
EQUALLY SPACED MULLIONS

ALUTECH UNITED
1537 NORTHGATE BLVD.
SARASOTA, FLORIDA 34234
PH: 941-355-0970

ALUTECH UNITED, INC

REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.11.20

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.

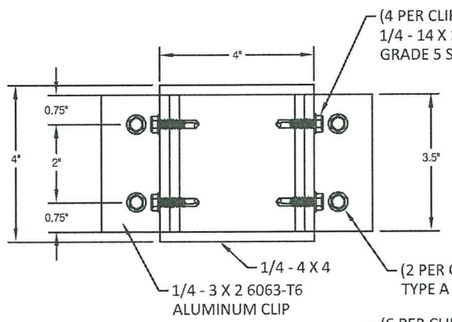
HERMES F. NORIEGA LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
HERMES F. NORIEGA, P.E.
FLORIDA P.E. NO. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

DATE: 02.14.20
DWG. BY: YC
CHK. BY: HFN
SCALE: NTS
DWG. #: ALU003
SHEET: 13 OF 21

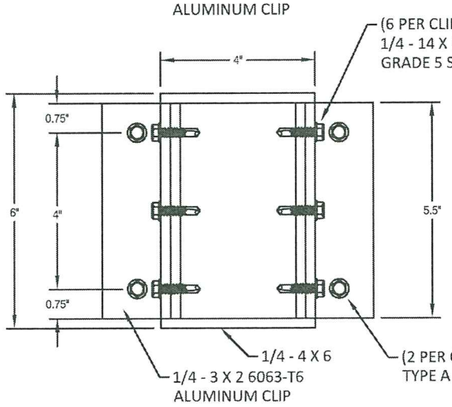
s:\projects\alutech united, inc\md-19-1231 - md submittal - zip tex bullet roldown screen\dwgs\alu003 zip bullet roldown screen.dwg

8/11/2020 3:59 PM

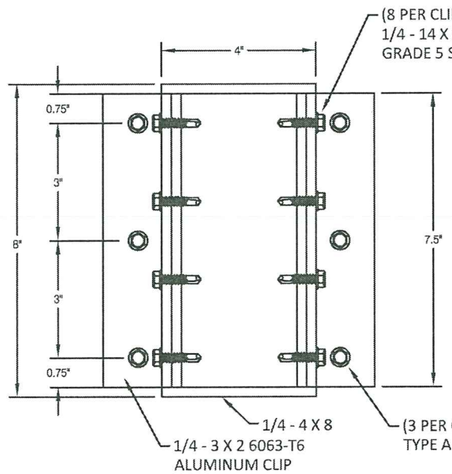
EQUALLY SPACED MULLIONS WALL AND INSET CONNECTIONS



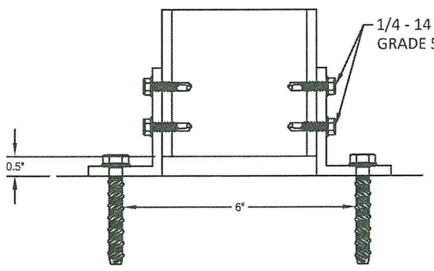
FC1 - 4X4
MULL ANCHORAGE
FLOOR/CEILING
MOUNT



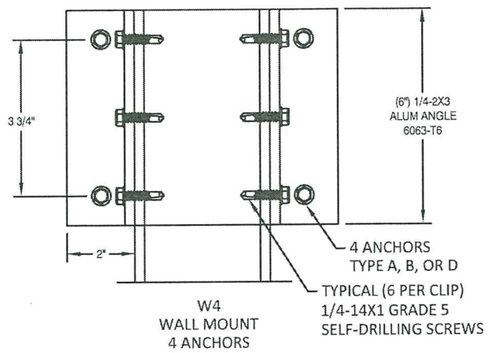
FC2 - 4X6
MULL ANCHORAGE
FLOOR/CEILING
MOUNT



FC3 - 4X8
MULL ANCHORAGE
FLOOR/CEILING
MOUNT



NOTE: ANGLE CLIP TO BE PLACED OUTSIDE OR INSIDE TUBE



W4
WALL MOUNT
4 ANCHORS

WALL MOUNT ANCHOR SELECTION			
ANCHOR TYPE	MULLION TYPE		
	4X4	4X6	4X8
A	W4	W4	W4
B	W4	N/A	N/A
D	W4	N/A	N/A

FLOOR/CEILING MOUNT ANCHOR SELECTION			
ANCHOR TYPE	MULLION TYPE		
	4X4	4X6	4X8
A	FC1	FC2	FC3

ANCHOR SCHEDULE:

ANCHOR	DESCRIPTION	MATERIAL	EDGE DISTANCE	EMBEDMENT
A	3/8" POWERS WEDGE BOLT	MIN. 3000 PSI CONCRETE	3 3/4"	3 1/2"
B	5/16" ITW TAPCON	MIN. 3000 PSI CONCRETE	2 3/16"	2 1/4"
D	5/16" ITW TAPCON	GROUT FILLED C-90 BLOCK f'm ≥ 2000 PSI	4"	2 1/4"

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 21-0427.04
Expiration Date 06/25/2025
By
Miami Dade Product Control

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

TITLE: *STORM TEX SCREEN SYSTEM (IMPACT) (HVHZ) EQUALLY SPACED MULLION ANCHORS*

ALUTECH UNITED
1537 NORTHGATE BLVD.
SARASOTA, FLORIDA 34234
PH: 941-355-0970
ALUTECH UNITED, INC

REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.11.20

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.



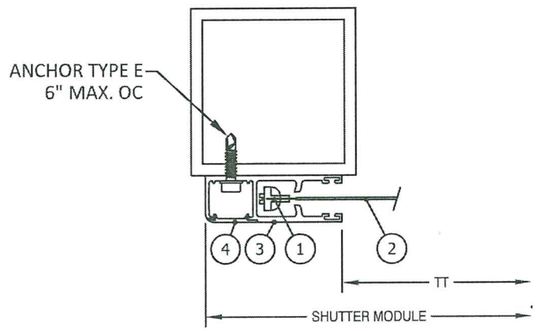
DATE:	02.14.20
DWG. BY: YC	CHK. BY: HFN
SCALE:	NTS
DWG. #:	ALU003
SHEET:	OF 21

14

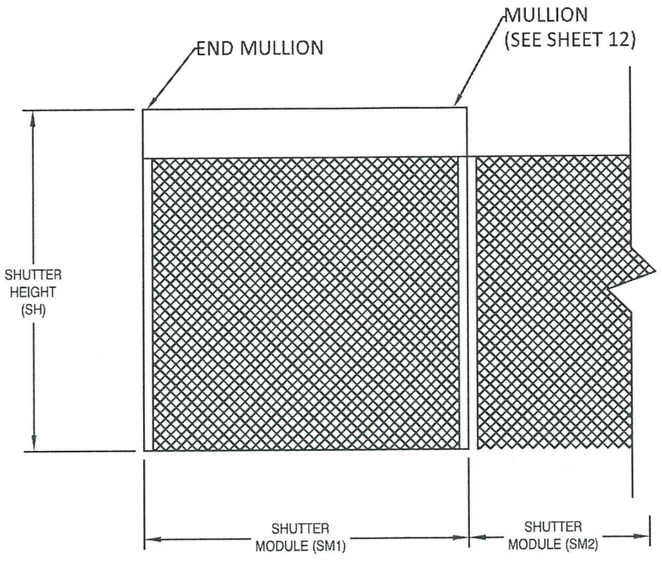
s:\projects\alutech united, inc\md-19-1231 - md submittal - zip tex bullet roldown screen\dwg\alu003 zip bullet roldown screen.dwg

8/11/2020 3:59 PM

FACE MOUNT MULLION



END MULLION SELECTION

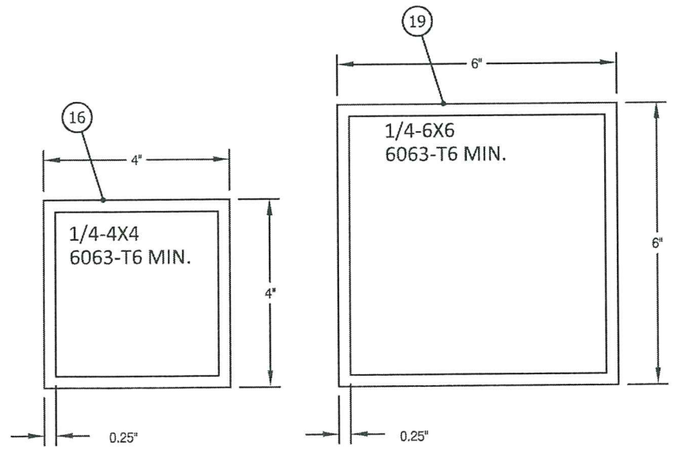


SM1 = SM2

MAXIMUM END MULLION SPANS AND DESIGN PRESSURES

FW MAX (in)	ALLOWABLE DP (PSF)	ALLOWABLE MULLION SPANS (FT)	
		4" x 4" X 0.25" 6063-T6 MIN.	6" x 6" X 0.25" 6063-T6 MIN.
96	120	12.00	12.00
102	117	12.00	12.00
108	115	12.00	12.00
114	112	12.00	12.00
120	110	12.00	12.00
132	105	12.00	12.00
144	100	12.00	12.00
156	95	12.00	12.00
168	90	12.00	12.00
180	85	12.00	12.00
192	80	12.00	12.00
216	69	12.00	12.00
240	57	12.00	12.00
264	46	12.00	12.00
288	35	12.00	12.00

NOTES:
1. MULLIONS WERE DESIGNED BY RATIONAL ANALYSIS BASED ON THE ALUMINUM DESIGN MANUAL AND THE FLORIDA BUILDING CODE. ABOVE LOADS ARE ALSO LIMITED BY THE MAX. CAPACITY OF THE PRODUCT.
2. VALUES ABOVE ARE APPLICABLE FOR END MULLIONS ONLY



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 21-0427.04
Expiration Date 06/25/2025
By Miami Dade Product Control

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

TITLE: *STORM TEX SCREEN SYSTEM (IMPACT) (HVHZ)*
END MULLION

ALUTECH UNITED
1537 NORTHGATE BLVD.
SARASOTA, FLORIDA 34234
PH: 941-355-0970

ALUTECH UNITED, INC

REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.11.20

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.

HERMES F. NORIEGA LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
HERMES F. NORIEGA, P.E.
FLORIDA P.E. NO. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

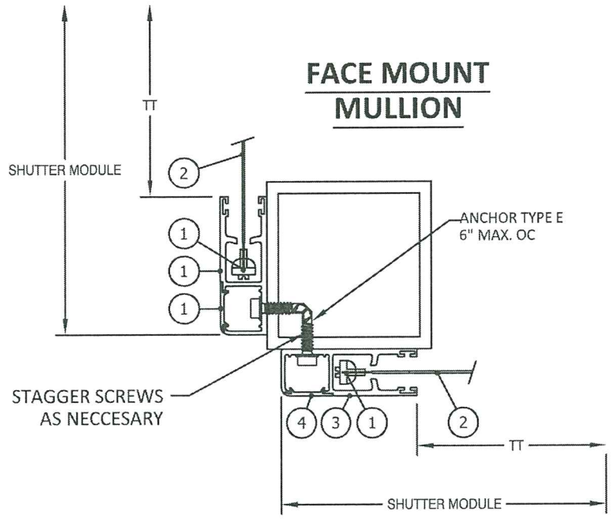
DATE: 02.14.20
DWG. BY: YC
CHK. BY: HFN
SCALE: NTS
DWG. #: ALU003
SHEET: 15 OF 21

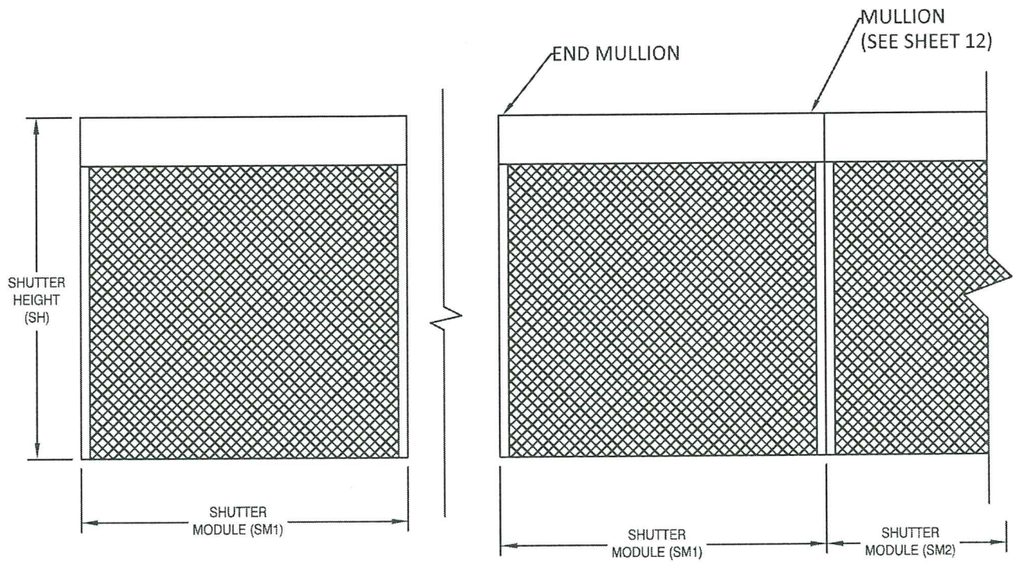
s:\projects\alutech united, inc\md-19-1231 - md submittal - zip tex bullet rolldown screen\dwgs\alu003 zip bullet rolldown screen.dwg

8/11/2020 3:59 PM

CORNER MULLION SELECTION

FACE MOUNT MULLION



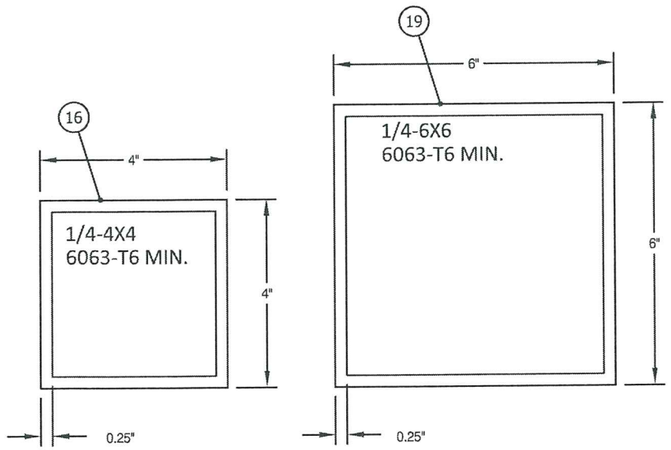


SM1 = SM2 = SM3

MAXIMUM CORNER MULLION SPANS AND DESIGN PRESSURES

FW MAX (in)	ALLOWABLE DP (PSF)	ALLOWABLE MULLION SPANS (FT)	
		4" x 4" X 0.25" 6063-T6 MIN.	6" x 6" X 0.25" 6063-T6 MIN.
96	119.9968	12.00	12.00
102	117.4966	12.00	12.00
108	114.9964	12.00	12.00
114	112.4962	12.00	12.00
120	109.996	12.00	12.00
132	104.9956	12.00	12.00
144	99.9952	12.00	12.00
156	94.9948	12.00	12.00
168	89.9944	11.86	12.00
180	84.994	11.65	12.00
192	79.9904	11.66	12.00
216	68.7392	12.00	12.00
240	57.488	12.00	12.00
264	46.2368	12.00	12.00
288	34.9856	12.00	12.00

NOTES:
1. MULLIONS WERE DESIGNED BY RATIONAL ANALYSIS BASED ON THE ALUMINUM DESIGN MANUAL AND THE FLORIDA BUILDING CODE. ABOVE LOADS ARE ALSO LIMITED BY THE MAX. CAPACITY OF THE PRODUCT.
2. VALUES ABOVE ARE APPLICABLE FOR CORNER MULLIONS ONLY WITH EQUAL WIDTH SHUTTERS ON BOTH SIDES, UNEQUAL SHUTTERS SHALL BE EVALUATED ON A CASE BY CASE BASIS.



PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 21-0427.04
Expiration Date 06/25/2025
By
Miami Dade Product Control

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

TITLE: *STORM TEX SCREEN SYSTEM (IMPACT) (HVHZ)* *CORNER MULLION*

ALUTECH UNITED
1537 NORTHGATE BLVD.
SARASOTA, FLORIDA 34234
PH: 941-355-0970

ALUTECH UNITED, INC

REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.11.20

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.

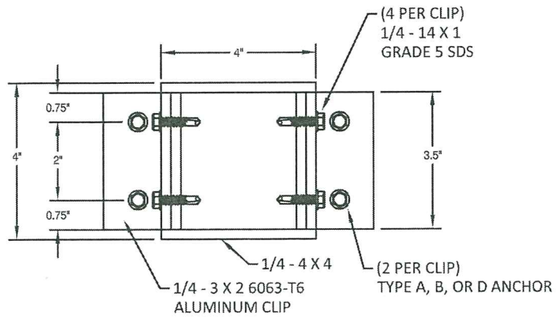
HERMES F. NORIEGA LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
HERMES F. NORIEGA, P.E.
FLORIDA P.E. NO. 73778
BUILDING DROPS, INC.
#398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

DATE: 02.14.20
DWG. BY: YC
CHK. BY: HFN
SCALE: NTS
DWG. #: ALU003
SHEET: OF 21
16

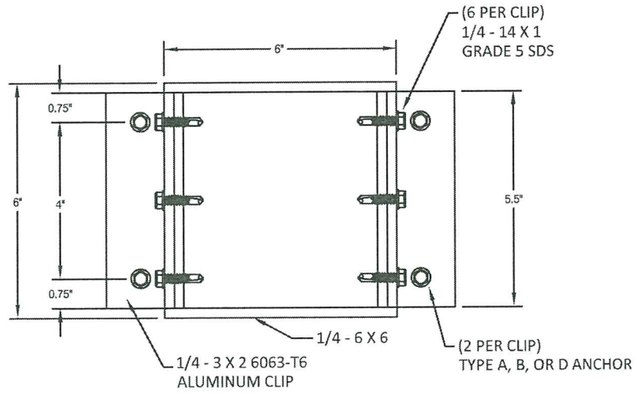
s:\projects\alutech united, inc\md-19-1231 - md submittal - zip tex bullet rolldown screen\dwgs\alu003 zip bullet rolldown screen.dwg

8/11/2020 3:59 PM

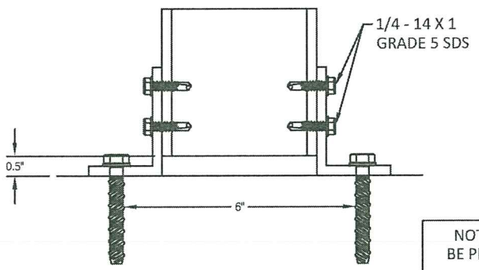
END MULLION AND CORNER MULLION WALL AND INSET CONNECTIONS

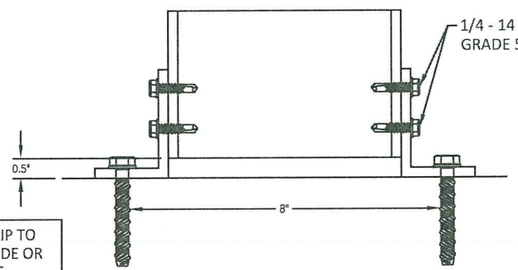


FC1 - 4X4
MULL ANCHORAGE
FLOOR/CEILING
MOUNT



FC2 - 6X6
MULL ANCHORAGE
FLOOR/CEILING
MOUNT

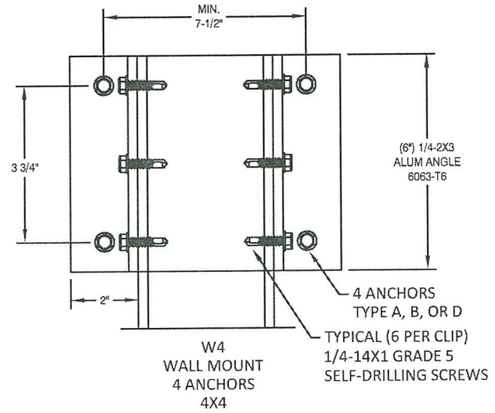




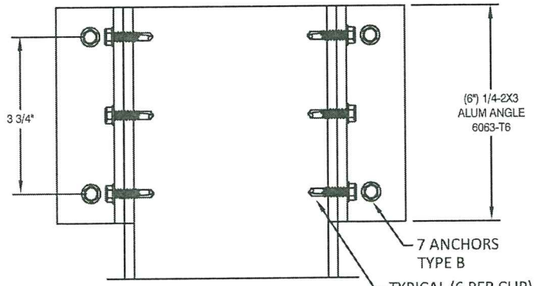
NOTE: ANGLE CLIP TO BE PLACED OUTSIDE OR INSIDE TUBE

MULL FLOOR/CEILING MOUNT ANCHOR SELECTION				
ANCHOR TYPE	END MULLION TYPE		CORNER MULLION TYPE	
	4X4	6X6	4X4	6X6
A	FC1	FC2	FC1	FC2
B	FC1	FC2	FC1	FC2
D	FC1	FC2	FC1	FC2

END MULLION WALL CONNECTIONS



W4
WALL MOUNT
4 ANCHORS
4X4



W4
WALL MOUNT
4 ANCHORS
6X6

WALL MOUNT ANCHOR SELECTION		
ANCHOR TYPE	END MULLION TYPE	
	4X4	6X6
A	W4	W4
B	W4	W4
D	W4	W4

ANCHOR SCHEDULE:

ANCHOR	DESCRIPTION	MATERIAL	EDGE DISTANCE	EMBEDMENT
A	3/8" POWERS WEDGE BOLT	MIN. 3000 PSI CONCRETE	3 3/4"	3 1/2"
B	5/16" ITW TAPCON	MIN. 3000 PSI CONCRETE	2 3/16"	2 1/4"
D	5/16" ITW TAPCON	GROUT FILLED C-90 BLOCK f'm ≥ 2000 PSI	4"	2 1/4"

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 21-0427.04
Expiration Date: 05/25/2025
By: Hely A. Mesa
Miami Dade Product Control

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

TITLE: *STORM TEX SCREEN SYSTEM (IMPACT) (HVHZ)*
END MULLION / CORNER MULLION CONNECTIONS

ALUTECH UNITED
1537 NORTHGATE BLVD.
SARASOTA, FLORIDA 34234
PH: 941-355-0970

ALUTECH UNITED, INC

REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.11.20

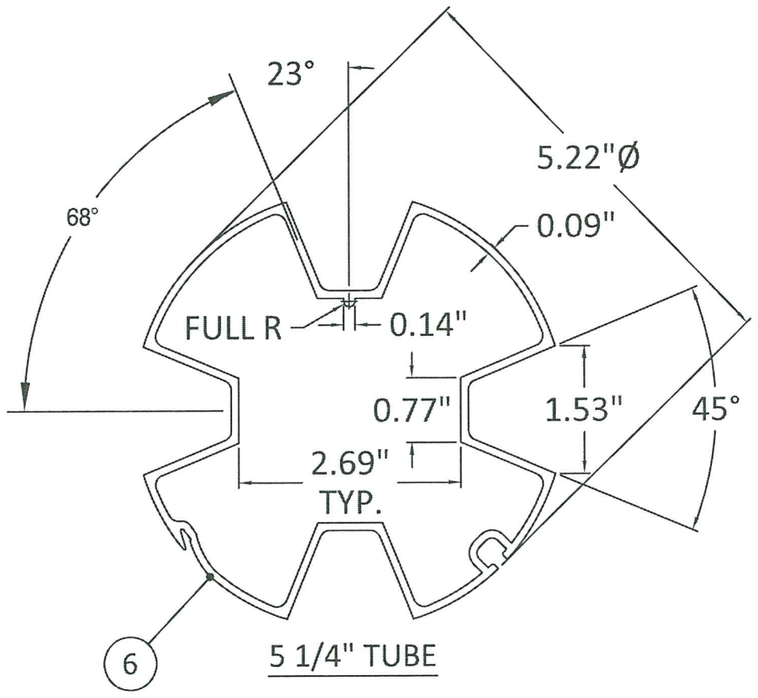
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.

HERMES F. NORIEGA
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
HERMES F. NORIEGA, P.E.
FLORIDA P.E. NO. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

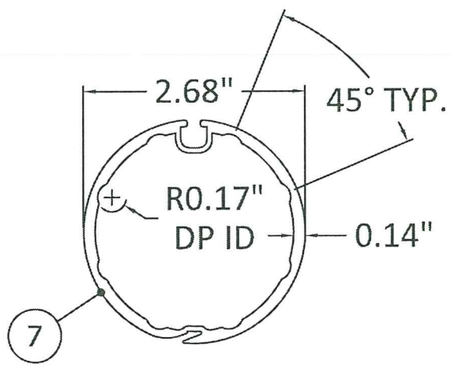
DATE: 02.14.20
DWG. BY: YC
CHK. BY: HFN
SCALE: NTS
DWG. #: ALU003
SHEET: 17 OF 21

s:\projects\alutech united, inc\md-19-1231 - md submittal - zip tex bullet rolldown screen\dwgs\alu003 zip bullet rolldown screen.dwg

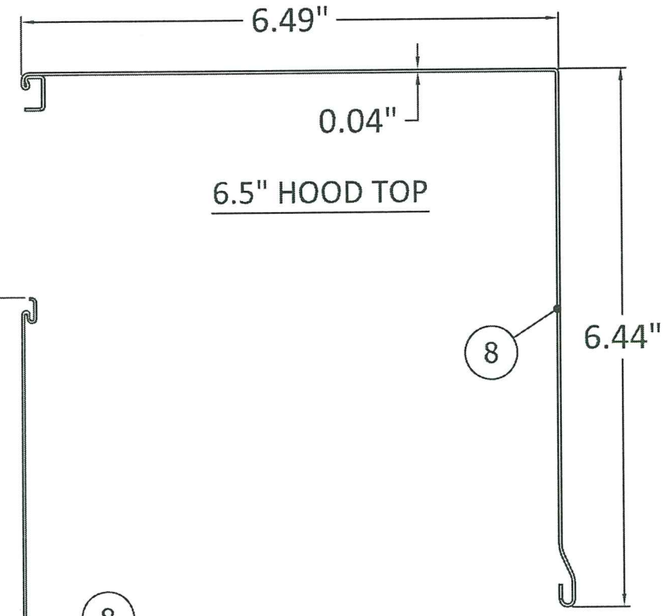
5.22" TUBE AND 6.5" HOOD DETAILS



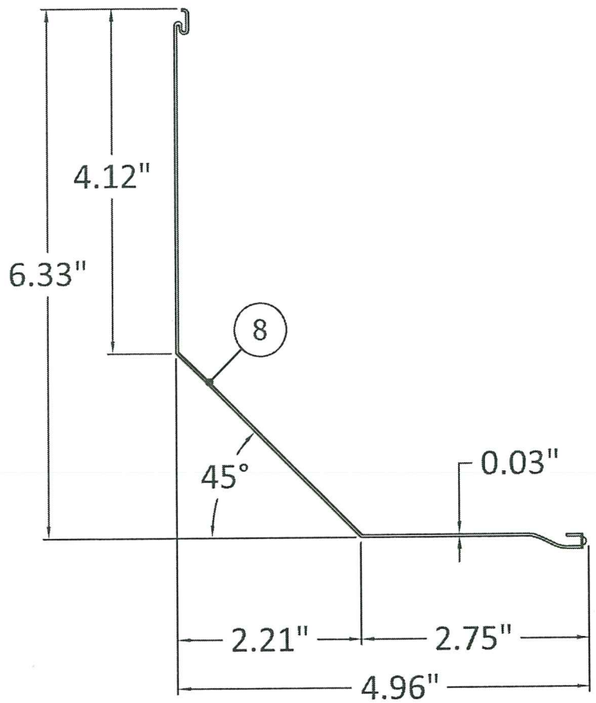
5 1/4" TUBE



60 MM INNER AXEL



6.5" HOOD TOP



6.5" HOOD BOTTOM

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 21-0427.04
Expiration Date 06/25/2025
By
Miami Dade Product Control

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

TITLE: *STORM TEX SCREEN SYSTEM (IMPACT) (HVHZ)*

5.22" TUBE & 6.5" HOOD DETAILS

ALUTECH UNITED
1537 NORTHGATE BLVD.
SARASOTA, FLORIDA 34234
PH: 941-355-0970

ALUTECH UNITED, INC

REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.11.20

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.

HERMES F. NORIEGA LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER

HERMES F. NORIEGA, P.E.
FLORIDA P. E. NO. 73778
BUILDING PROPSTAR
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

DATE: 02.14.20

DWG. BY:	CHK. BY:
YC	HFN

SCALE: NTS

DWG. #: ALU003

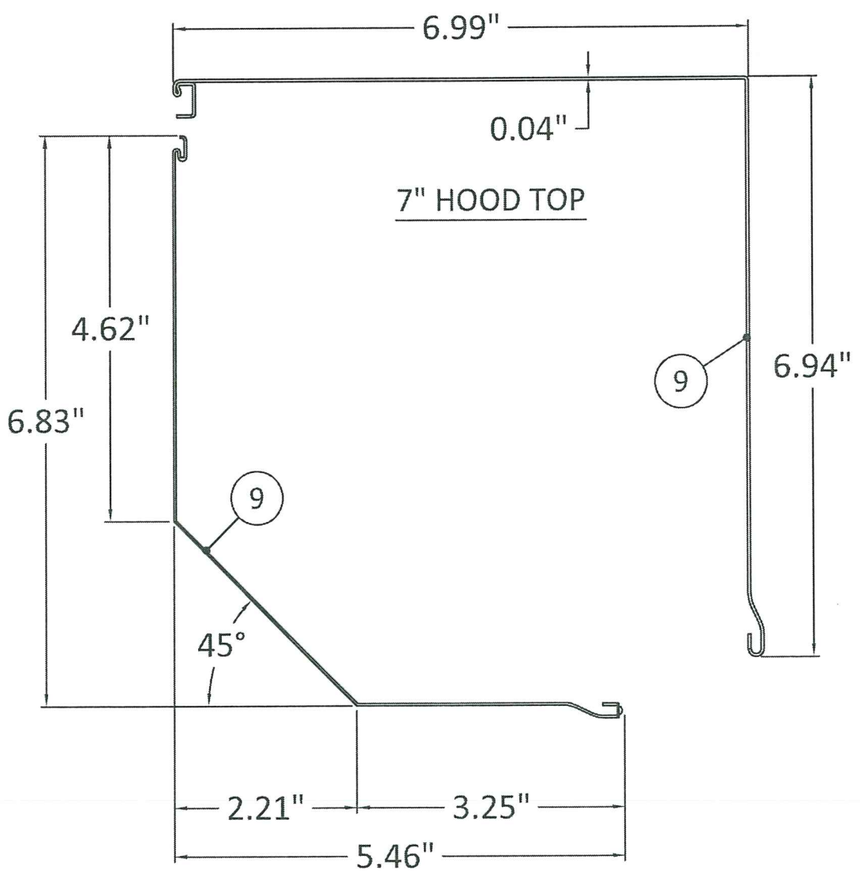
SHEET: OF 21

18

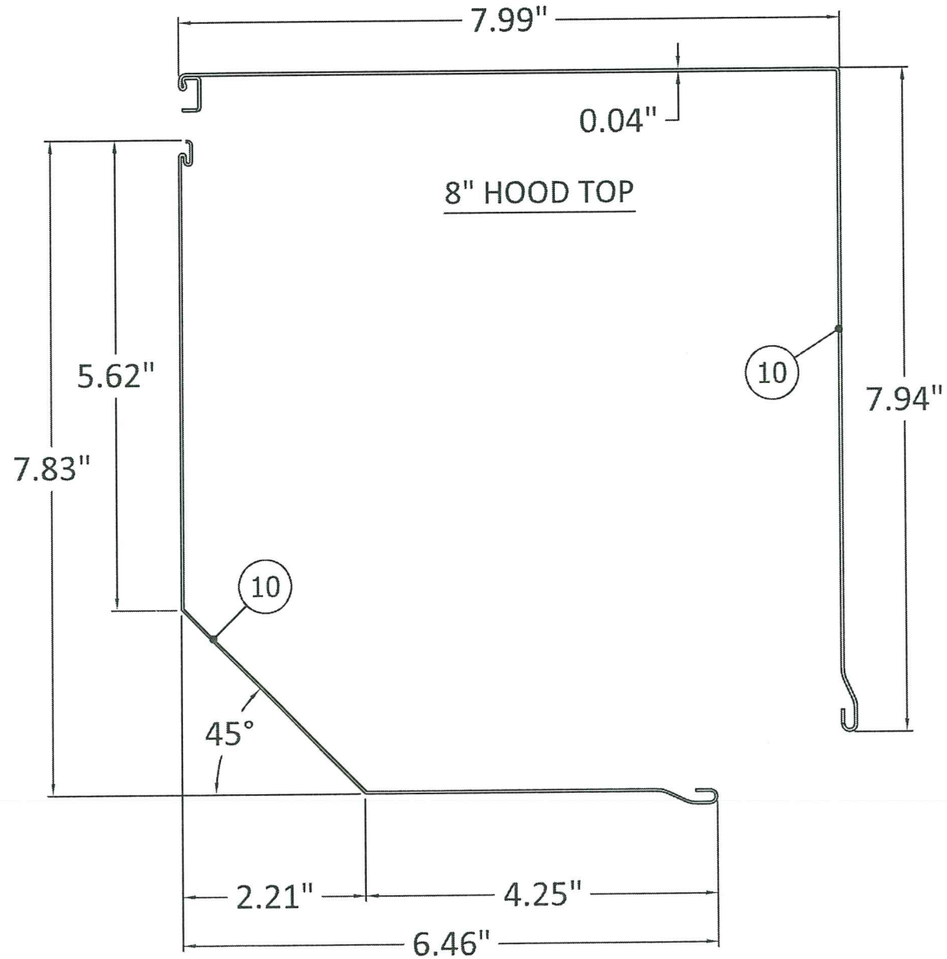
8/11/2020 3:59 PM

s:\projects\alutech united, inc\vnd-19-1231 - md submittal - zip tex bullet rolldown screen\dwgs\alu003 zip bullet rolldown screen.dwg

7" AND 8" HOOD DETAILS



7" HOOD BOTTOM



8" HOOD BOTTOM

NOTE:

1. 7" & 8" HEADER COVERS WORK WITH 5 1/4" TUBE AND 60 MM INNER AXEL.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 21-0427.04
Expiration Date 06/25/2025
By Miami Dade Product Control

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

TITLE: *STORM TEX SCREEN SYSTEM (IMPACT) (HVHZ)*

7" & 8" HOOD DETAILS

ALUTECH UNITED
1537 NORTHGATE BLVD.
SARASOTA, FLORIDA 34234
PH: 941-355-0970

ALUTECH UNITED, INC

REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.11.20

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.

HERMES F. NORIEGA LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER

HERMES F. NORIEGA, P.E.
FLORIDA P.E. NO. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

DATE: 02.14.20

DWG. BY:	CHK. BY:
YC	HFN

SCALE: NTS

DWG. #: ALU003

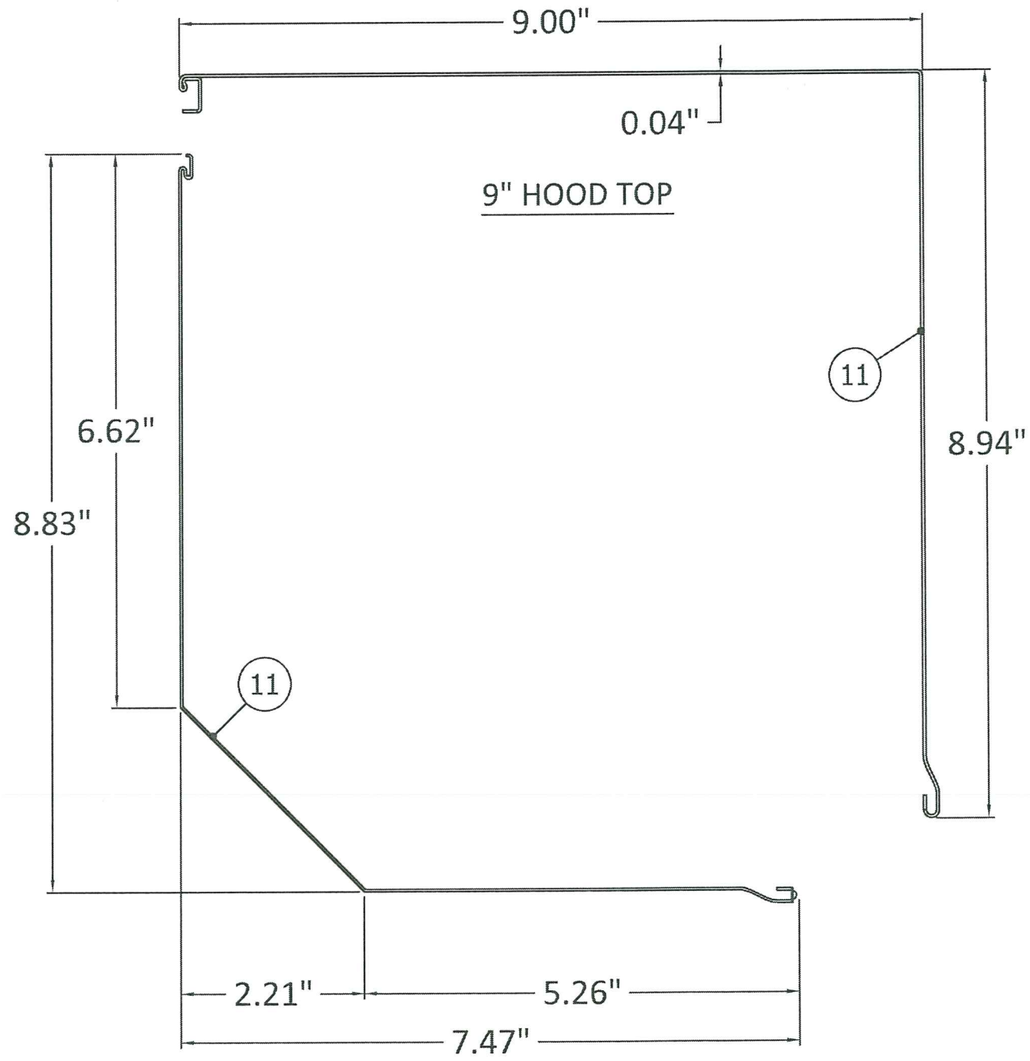
SHEET: OF 21

19

8/11/2020 3:59 PM

S:\projects\alutech united, inc\md-19-1231 - md submittal - zip tex bullet rolldown screen\dwgs\alu003 zip bullet rolldown screen.dwg

9" HOOD DETAILS



9" HOOD BOTTOM

NOTE:

1. 9" HEADER COVERS WORK WITH 5 1/4" TUBE AND 60 MM INNER AXEL.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 21-0427.04
Expiration Date 06/25/2025
By Helga A. Mesa
Miami Dade Product Control

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

TITLE: *STORM TEX SCREEN SYSTEM (IMPACT) (HVHZ)*

9" HOOD DETAILS

ALUTECH UNITED
1537 NORTHGATE BLVD.
SARASOTA, FLORIDA 34234
PH: 941-355-0970

ALUTECH UNITED, INC

REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.11.20

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.

HERMES F. NORIEGA LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER

HERMES F NORIEGA, P.E.
FLORIDA P. E. NO. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

DATE: 02.14.20

DWG. BY:	CHK. BY:
YC	HFN

SCALE: NTS

DWG. #: ALU003

SHEET: OF 21

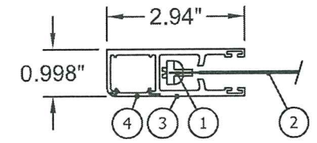
20

8/13/2020 3:59 PM

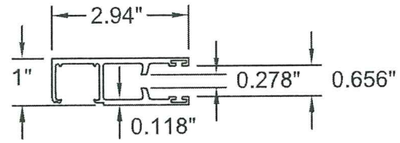
s:\projects\alutech united, inc\vnd-19-1231 - md submittal - zip tex bullet rolldown screen\dwgs\alu003 zip bullet rolldown screen.dwg

8/11/2020 3:59 PM

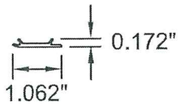
BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
1	PASKAL ZIP KEDER FOR SIDES	POM/NYLON
2	TWITCHELL OMEGA TEX FABRIC	FABRIC
3	SIDE RAIL	ALUMINUM (6061 T6)
4	SNAP IN SCREW COVER	ALUMINUM (6061 T6)
5	3" x 3" x 1/4" ANGLE	ALUMINUM (6061 T6)
6	5.22" TUBE	-
7	60mm INNER AXEL	-
8	6.5" HOOD CAP (TOP & BOTTOM)	-
9	7" HOOD CAP (TOP & BOTTOM)	-
10	8" HOOD CAP (TOP & BOTTOM)	-
11	9" HOOD CAP (TOP & BOTTOM)	-
12	ZIP KEDER	-
13	STANDARD BOTTOM HEMBAR	-
14	ADJUSTABLE BOTTOM HEMBAR	-
15	MINI BOTTOM HEMBAR	-
16	MULLION - 4" x 4" x 1/4"	ALUMINUM (6063 T6)
17	MULLION - 6" x 4" x 1/4"	ALUMINUM (6063 T6)
18	MULLION - 8" x 4" x 1/4"	ALUMINUM (6063 T6)
19	MULLION - 6" x 6" x 1/4"	ALUMINUM (6063 T6)



A WALL MOUNT AND INSET MOUNT



3 SIDE RAIL



4 SNAP IN SCREW COVER

OMEGA TEX FABRIC MECHANICAL PROPERTIES				
PROPERTY	TEST METHOD	WARP	FILL	TYPICAL
WEIGHT, oz/yd²	D3776-96	22.0 ± 0.5	13.5 ± 0.5	19.0
TENSILE STRENGTH (GRAB), lb	D5034-95	669.40	835.90	-
TENSILE STRENGTH (STRIP), lb	D5035-95	430.00	259.50	-
TEAR STRENGTH, lb	D1117-97	155.80	243.30	-
ELONGATION, %	D5035-95	41.20	7.70	-
ABRASION RESISTANCE	D3884-92	NO EXPOSURE TO CORE YARN		
FLAMMABILITY RATING		CA TITLE 19 & NFPA 701		
WEATHER ABILITY, 1200 HOURS	G53-96	TRACE DISCOLORATION		
BALL BURST, lb	D3787			460+
BURSTING STRENGTH, psi	D3786			1250+
PUNCTURE RESISTANCE, lb	D4833			364

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 21-0422.04
Expiration Date 06/25/2025
By
Miami Dade Product Control

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

TITLE: *STORM TEX SCREEN SYSTEM (IMPACT) (HVHZ)*
BILL OF MATERIALS & COMPONENTS

ALUTECH UNITED
1537 NORTHGATE BLVD.
SARASOTA, FLORIDA 34234
PH: 941-355-0970

ALUTECH UNITED, INC

REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.11.20

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.

HERMES F. NORIEGA LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
HERMES F. NORIEGA, P.E.
FLORIDA P.E. NO. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

DATE: 02.14.20
DWG. BY: YC
CHK. BY: HFN
SCALE: NTS
DWG. #: ALU003
SHEET: OF 21

21

s:\project\alutech united, inc\md-19-1231 - md submittal - zip tex bullet rolldown screen\dwgs\alu003 zip bullet rolldown screen.dwg