

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED INSTALLATION DETAILS & CHARTS	10/11/2022	R.L.

- NOTES:
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
  2. THESE INSTALLATION INSTRUCTIONS ARE ONLY FOR THE STORM COVERING. FENESTRATION SYSTEMS MUST HAVE THEIR OWN SEPARATE APPROVAL.
  3. STORM TRIM PLUS ANCHORING SYSTEM MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  4. STORM COVERING ANCHORS SPACING TO BE DETERMINED IN ACCORDANCE WITH CHART #1, SHEET 2, TO MEET REQUIRED DESIGN PRESSURE AT INSTALLATION SITE.
  5. FENESTRATION SYSTEM MUST MEET THE REQUIRED DESIGN PRESSURE OF THE INSTALLATION SITE.
  6. SELECTION OF FENESTRATION AND PROTECTIVE SYSTEMS IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
  7. FABRIC MATERIAL: HIGH TENACITY POLYPROPYLENE 0.050" THICK.

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11	COMPONENTS AND INSTALLATION DETAILS

THE MUHLER COMPANY  
630 SKYLARK DRIVE SUITE U  
CHARLESTON , SC 29407

MUHLER STORM COVERING  
LARGE AND SMALL MISSILE IMPACT  
NOTES

DRAWN:  
A.R.

DWG NO.  
08-03362

REV  
B

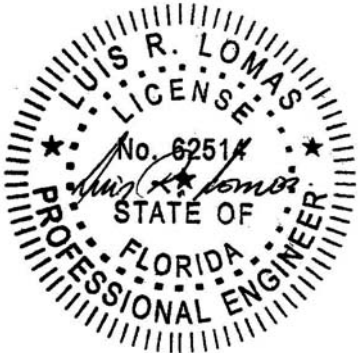
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DATE 12/11/18

SHEET 1 OF 11

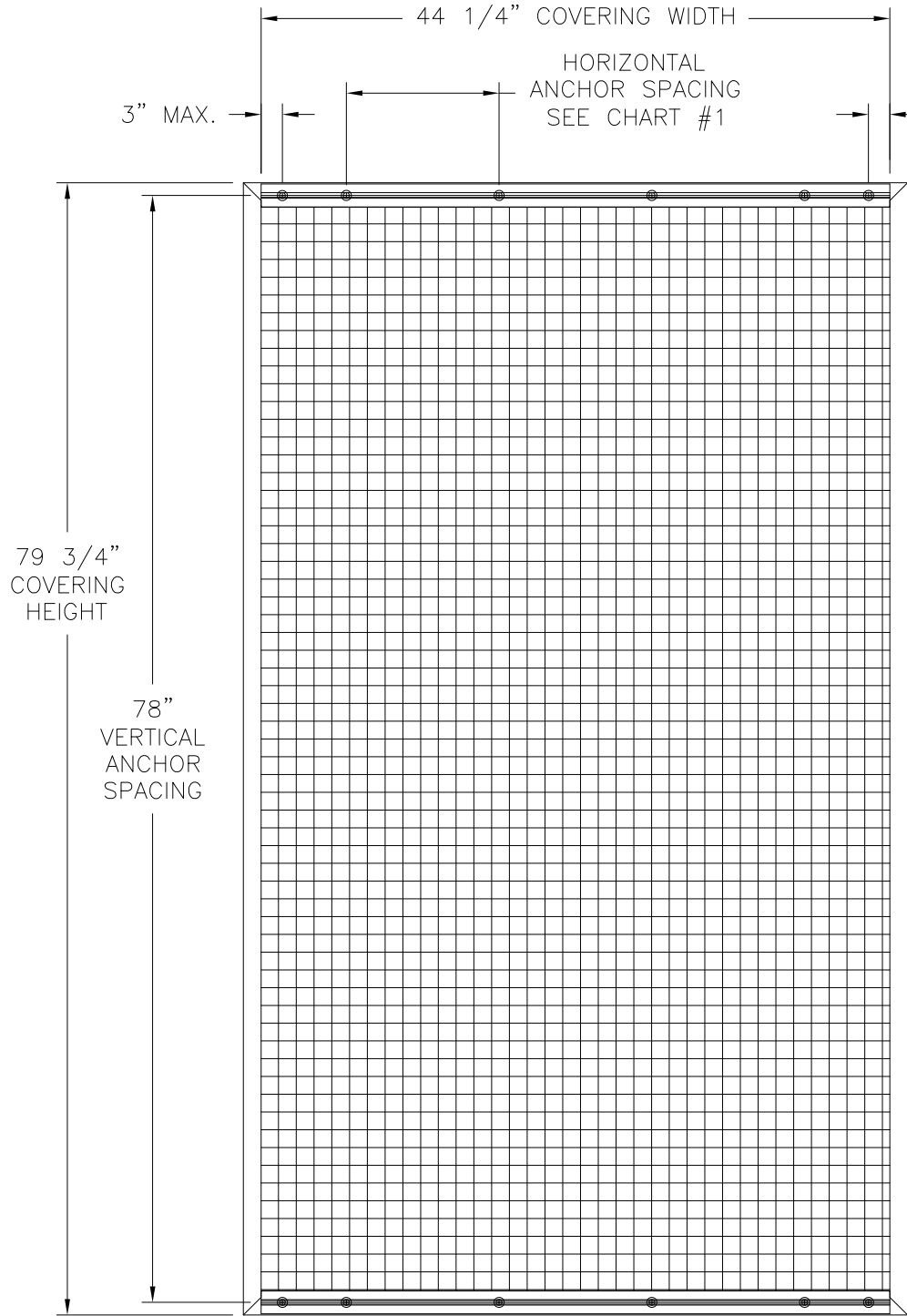
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434-688-0609 rllomas@lrlomaspe.com

SIGNED: 10/14/2022



Luis R. Lomas P.E.  
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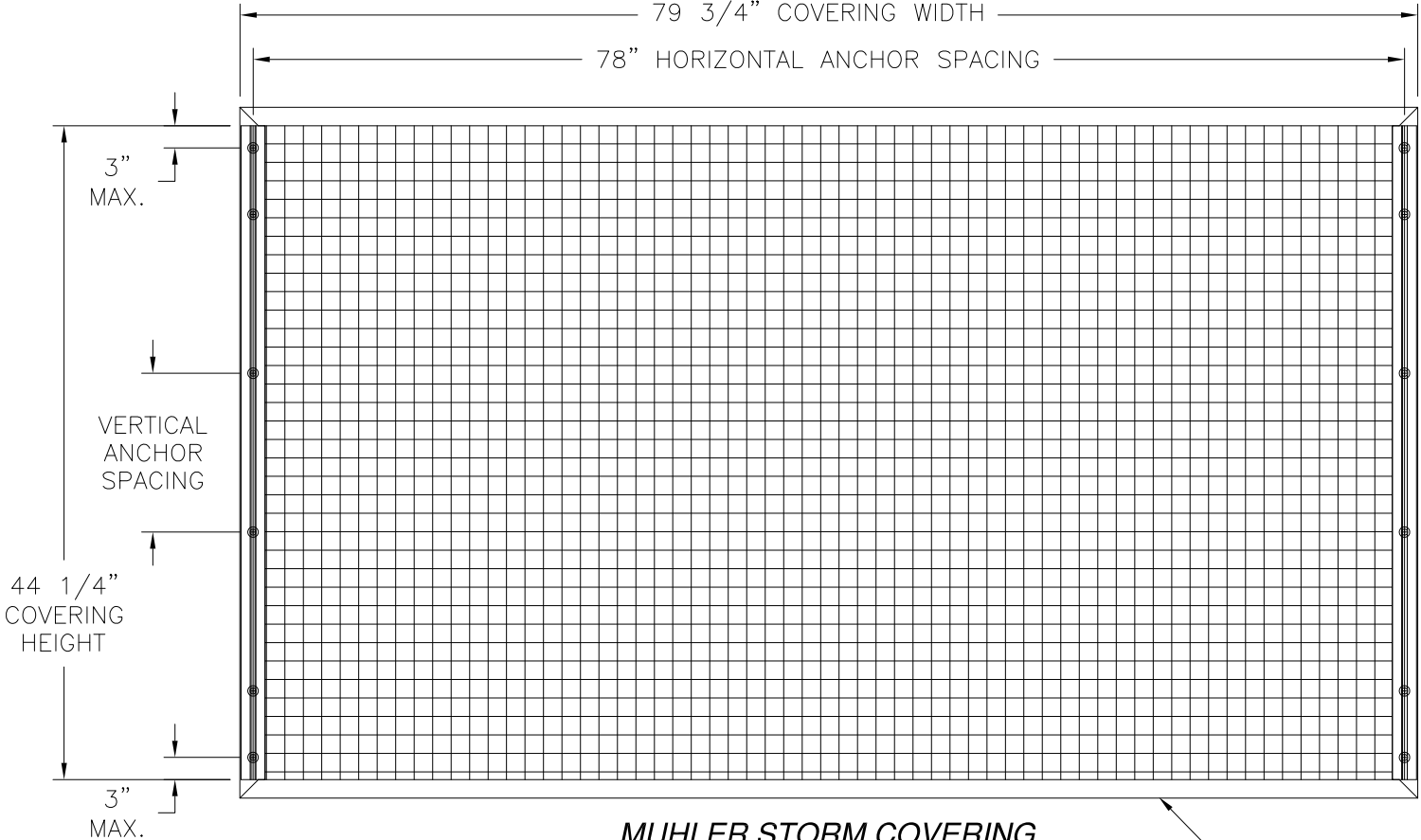


**MUHLER STORM COVERING**  
VERTICAL INSTALLATION  
REFER TO SHEET 4 FOR MULTIPLE UNIT PROTECTION

DESIGN PRESSURE RATING	IMPACT RATING
<b>±50.0PSF</b>	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3  
44 1/4" X 81" FABRIC PANEL SHOWN, UNLIMITED WIDTH IS APPROVED AS LONG ANCHOR VERTICAL AND HORIZONTAL SPACING IS IN ACCORDANCE WITH CHART #1

FENESTRATION SYSTEM  
AND/OR TRIM  
BY OTHERS



**MUHLER STORM COVERING**  
HORIZONTAL INSTALLATION  
REFER TO SHEET 4 FOR MULTIPLE UNIT PROTECTION

DESIGN PRESSURE RATING	IMPACT RATING
<b>±50.0PSF</b>	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3  
81" X 44 1/4" FABRIC PANEL SHOWN, UNLIMITED HEIGHT IS APPROVED AS LONG ANCHOR VERTICAL AND HORIZONTAL SPACING IS IN ACCORDANCE WITH CHART #2

FENESTRATION SYSTEM  
AND/OR TRIM  
BY OTHERS

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630 SKYLARK DRIVE SUITE U  
CHARLESTON , SC 29407

MUHLER STORM COVERING  
LARGE AND SMALL MISSILE IMPACT  
ELEVATIONS

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SHEET 2 OF 11

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Chart #1  
Design pressure chart (psf)

Horizontal anchor space (in)	Vertical anchor spacing (in)																												
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	102.0	108.0	114.0	120.0	126.0	132.0	138.0	144.0	150.0	156.0	162.0	168.0	174.0	180.0	186.0	192.0
3.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
4.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
8.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	48.8	46.4	44.3	42.4	40.6	39.0	37.5	36.1	34.8	33.6	32.5	31.5	30.5
12.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	46.4	43.3	40.6	38.2	36.1	34.2	32.5	31.0	29.5	28.3	27.1	26.0	25.0	24.1	23.2	22.4	21.7	21.0	20.3
16.0	50.0	50.0	50.0	50.0	50.0	50.0	48.8	44.3	40.6	37.5	34.8	32.5	30.5	28.7	27.1	25.7	24.4	23.2	22.2	21.2	20.3	19.5	18.8	18.1	17.4	16.8	16.3	15.7	15.2
20.0	50.0	50.0	50.0	50.0	48.8	43.3	39.0	35.5	32.5	30.0	27.9	26.0	24.4	22.9	21.7	20.5	19.5	18.6	17.7	17.0	16.3	15.6	15.0	-	-	-	-	-	-
24.0	50.0	50.0	50.0	46.4	40.6	36.1	32.5	29.5	27.1	25.0	23.2	21.7	20.3	19.1	18.1	17.1	16.3	15.5	-	-	-	-	-	-	-	-	-	-	-

Design pressures are positive and negative

Chart #2  
Design pressure chart (psf)

Vertical anchor space (in)	Horizontal anchor spacing (in)																												
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	102.0	108.0	114.0	120.0	126.0	132.0	138.0	144.0	150.0	156.0	162.0	168.0	174.0	180.0	186.0	192.0
3.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
4.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
8.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	48.8	46.4	44.3	42.4	40.6	39.0	37.5	36.1	34.8	33.6	32.5	31.5	30.5
12.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	46.4	43.3	40.6	38.2	36.1	34.2	32.5	31.0	29.5	28.3	27.1	26.0	25.0	24.1	23.2	22.4	21.7	21.0	20.3
16.0	50.0	50.0	50.0	50.0	50.0	50.0	48.8	44.3	40.6	37.5	34.8	32.5	30.5	28.7	27.1	25.7	24.4	23.2	22.2	21.2	20.3	19.5	18.8	18.1	17.4	16.8	16.3	15.7	15.2
20.0	50.0	50.0	50.0	50.0	48.8	43.3	39.0	35.5	32.5	30.0	27.9	26.0	24.4	22.9	21.7	20.5	19.5	18.6	17.7	17.0	16.3	15.6	15.0	-	-	-	-	-	-
24.0	50.0	50.0	50.0	46.4	40.6	36.1	32.5	29.5	27.1	25.0	23.2	21.7	20.3	19.1	18.1	17.1	16.3	15.5	-	-	-	-	-	-	-	-	-	-	-

Design pressures are positive and negative

SIGNED: 10/14/2022

THE MUHLER COMPANY  
630 SKYLARK DRIVE SUITE U  
CHARLESTON , SC 29407

MUHLER STORM COVERING  
LARGE AND SMALL MISSILE IMPACT  
CHARTS

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A.R.

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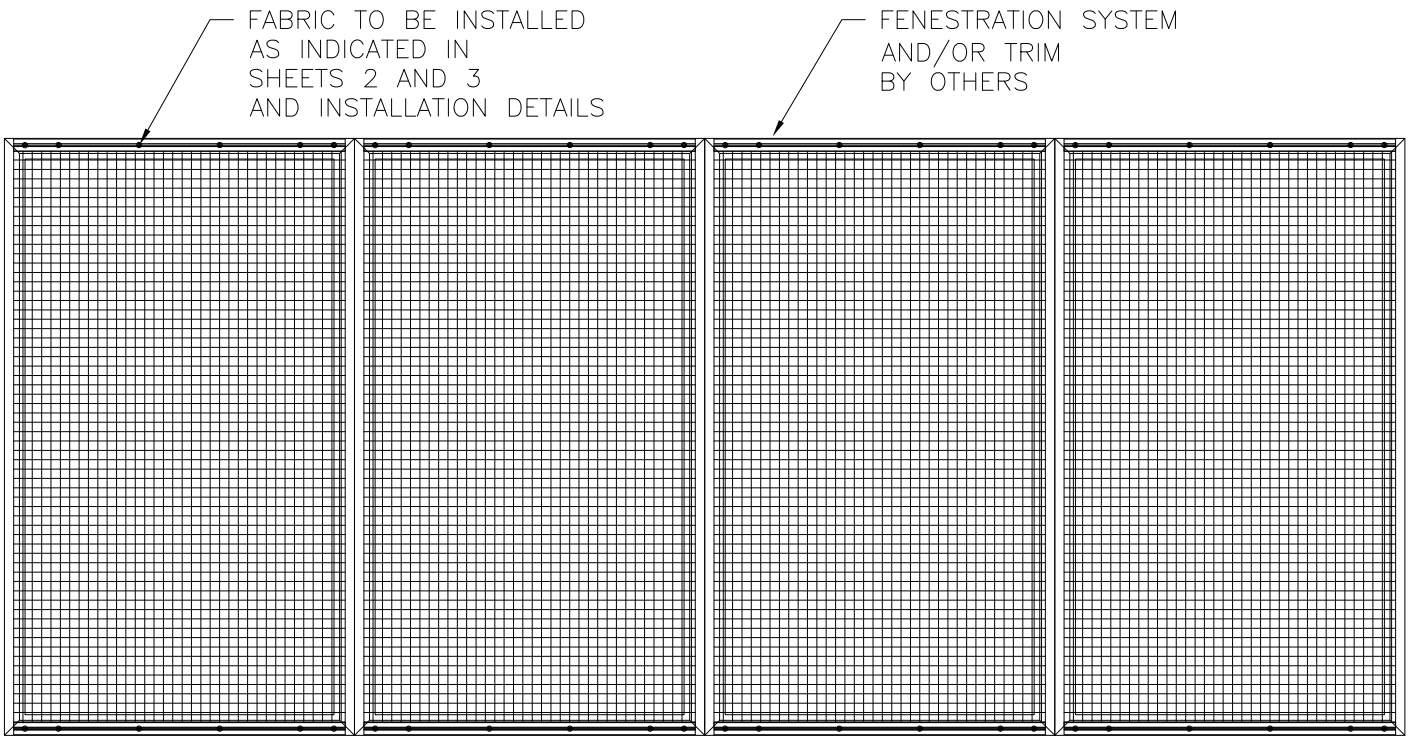
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SHEET 3 OF 11

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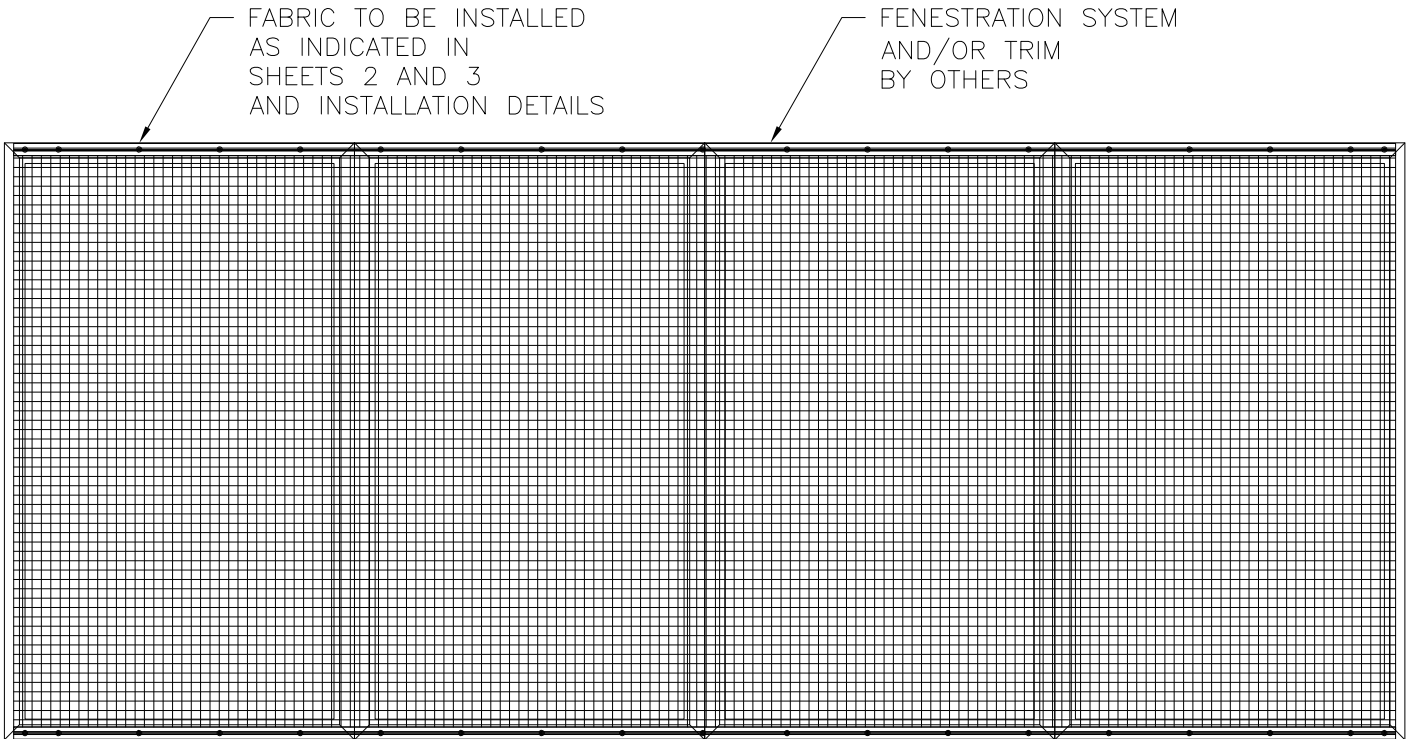


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**MUHLER STORM COVERING**

4 UNITS SHOWN, UNLIMITED NUMBER OF UNITS ARE QUALIFIED  
AS LONG AS EACH INDIVIDUAL UNIT IS PROTECTED AS SHOWN  
AND FABRIC IS INSTALLED AS SHOWN IN SHEETS 2 AND 3 AND INSTALLATION DETAILS  
VERTICAL INSTALLATION SHOWN, HORIZONTAL SIMILAR



**MUHLER STORM COVERING**

4 UNITS SHOWN, UNLIMITED NUMBER OF UNITS ARE QUALIFIED  
AS LONG AS ENTIRE UNIT IS PROTECTED AS SHOWN  
AND FABRIC IS INSTALLED AS SHOWN IN SHEETS 2 AND 3 AND INSTALLATION DETAILS  
VERTICAL INSTALLATION SHOWN, HORIZONTAL SIMILAR

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630 SKYLARK DRIVE SUITE U  
CHARLESTON , SC 29407

MUHLER STORM COVERING  
LARGE AND SMALL MISSILE IMPACT  
MULTIPLE INSTALLATION ELEVATION

DRAWN:  
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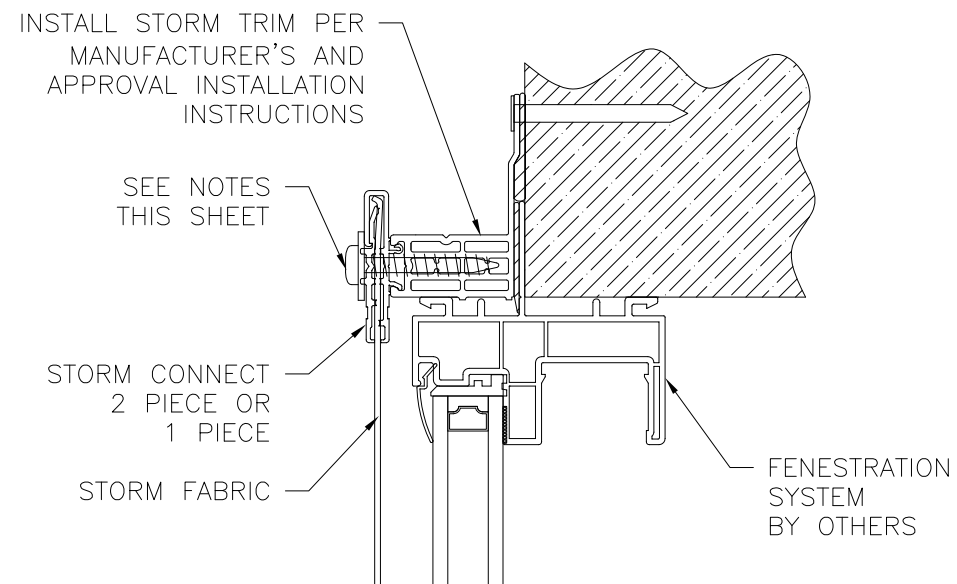
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SHEET 4 OF 11

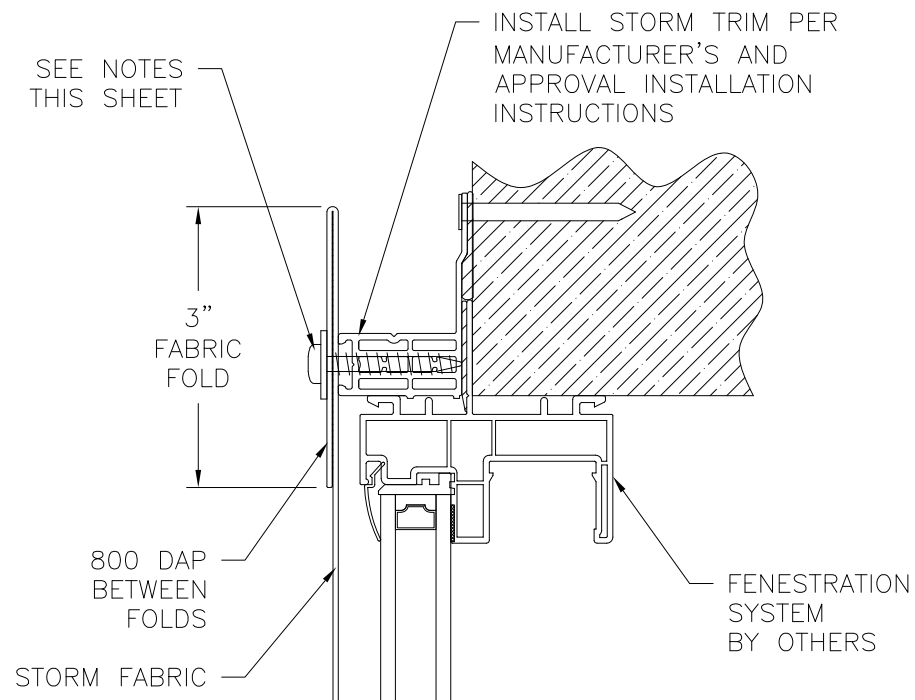
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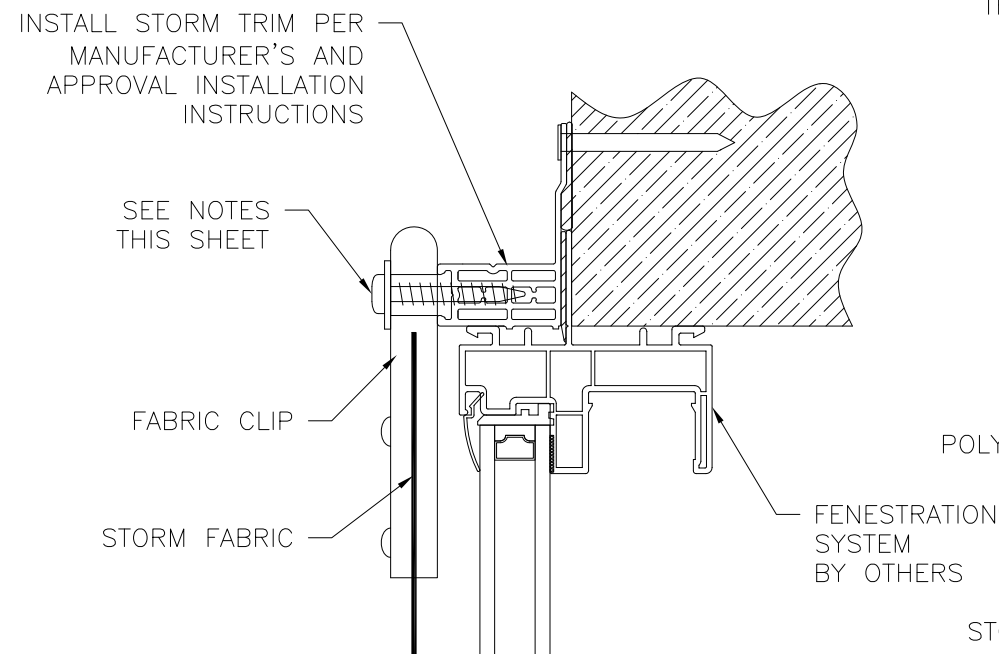


**FABRIC INSTALLATION**  
**WITH STORM CONNECT SYSTEM**

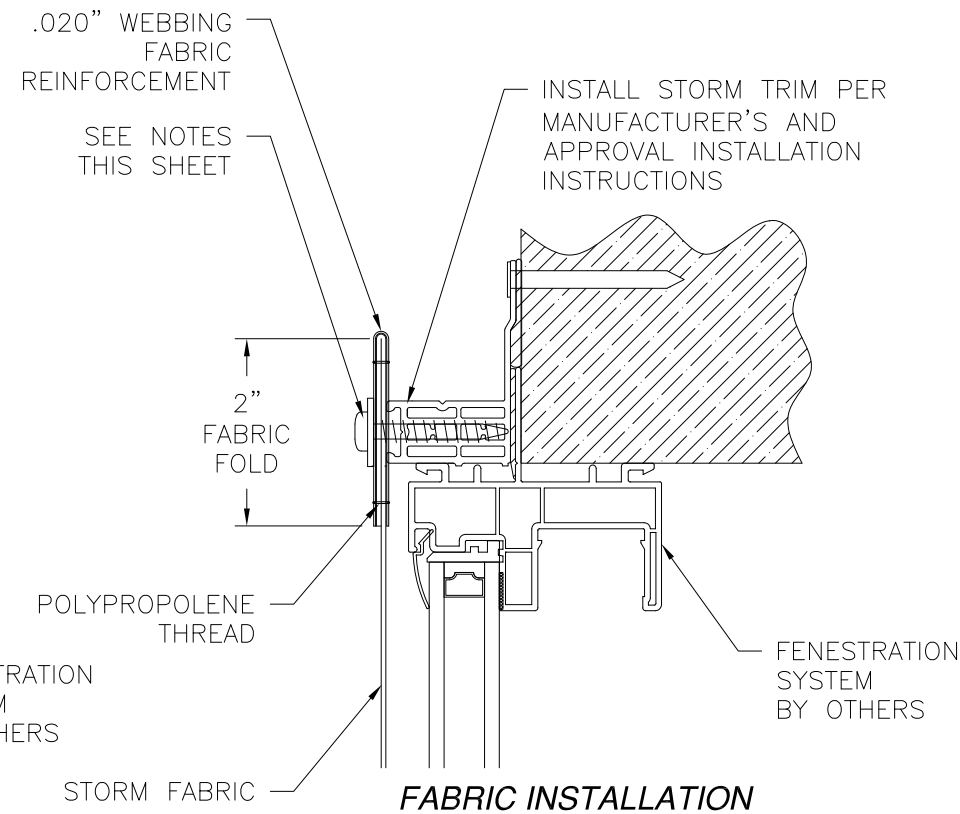


**FABRIC INSTALLATION**  
**WITH FABRIC FOLDING**

- NOTES:**  
**ANCHORS QUALIFIED TO BE USED:**
1. M6-265 X 1 7/16"  
TORX T-25 PH  
SCREW WITH FLAT WASHER
  2. HILMAN MULTIMATERIAL SCREW  
HEX/TORX HEAD 1/4" X 1 1/4" WITH 1" WASHER
  3. #10 X 1 1/2" PTH VINYL HOLD SCREW  
WITH 1" WASHER.



**FABRIC INSTALLATION**  
**WITH FABRIC CLIP**



**FABRIC INSTALLATION**  
**WITH FABRIC FOLDING REINFORCEMENT**

**THE MUHLER COMPANY**

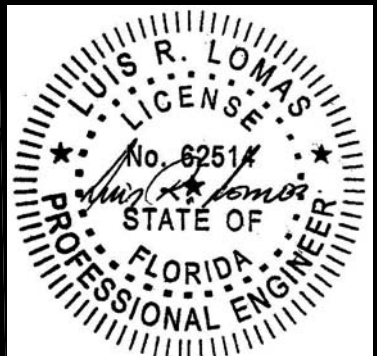
630 SKYLARK DRIVE SUITE U  
CHARLESTON , SC 29407

MUHLER STORM COVERING  
LARGE AND SMALL MISSILE IMPACT  
INSTALLATION DETAILS

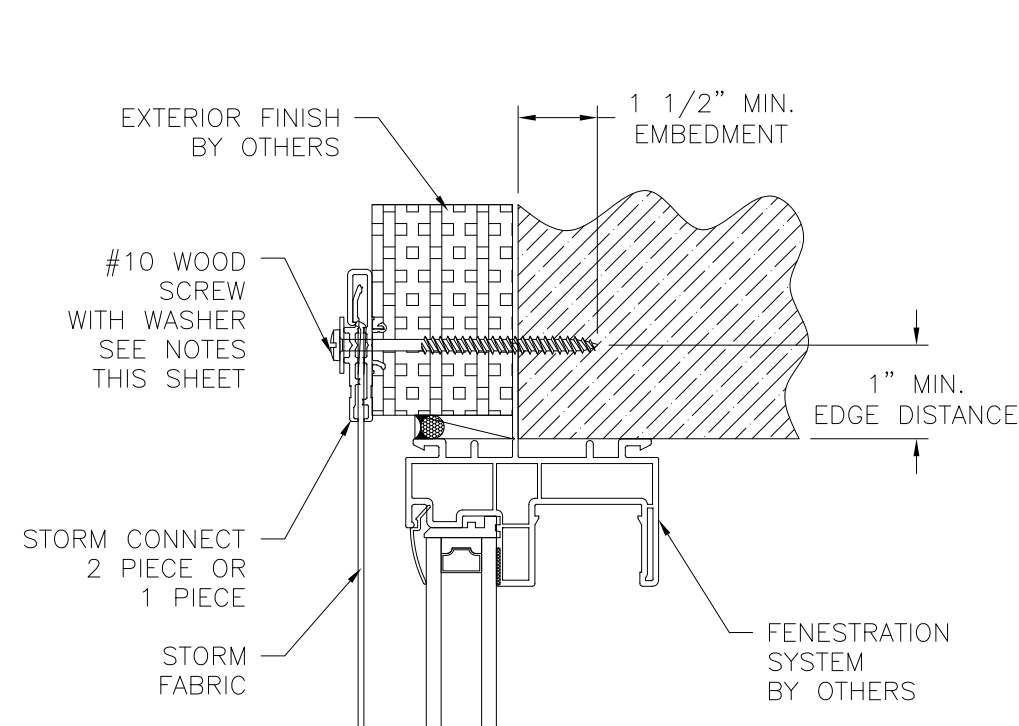
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SCALE NTS	DATE 12/11/18	SHEET 5 OF 11

L. ROBERTO LOMAS P.E.  
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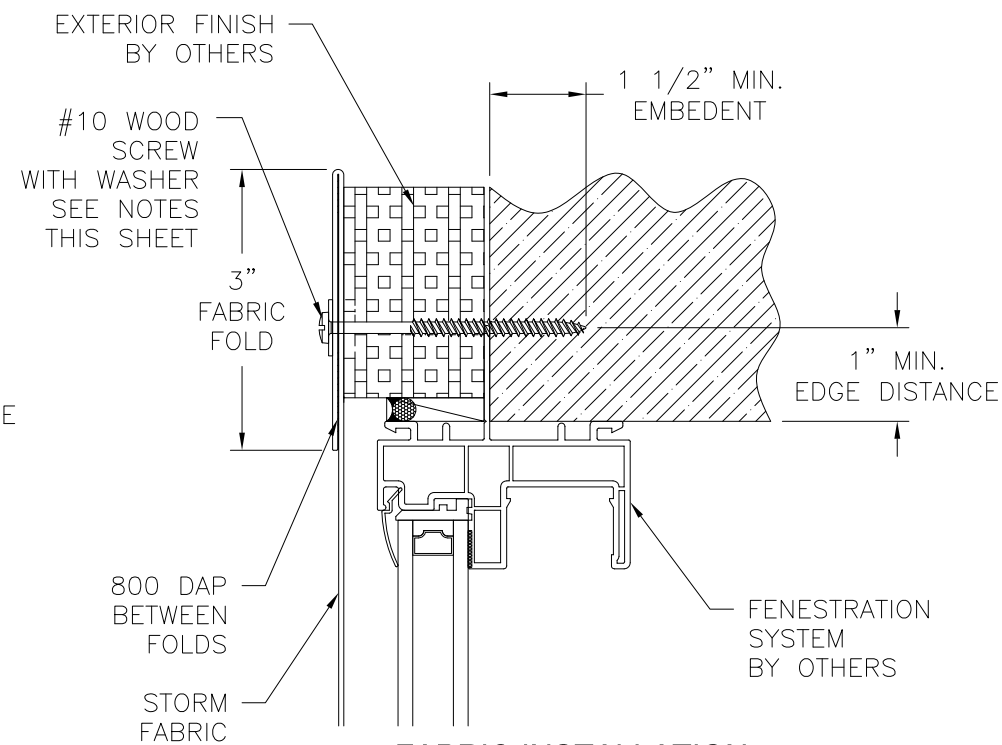
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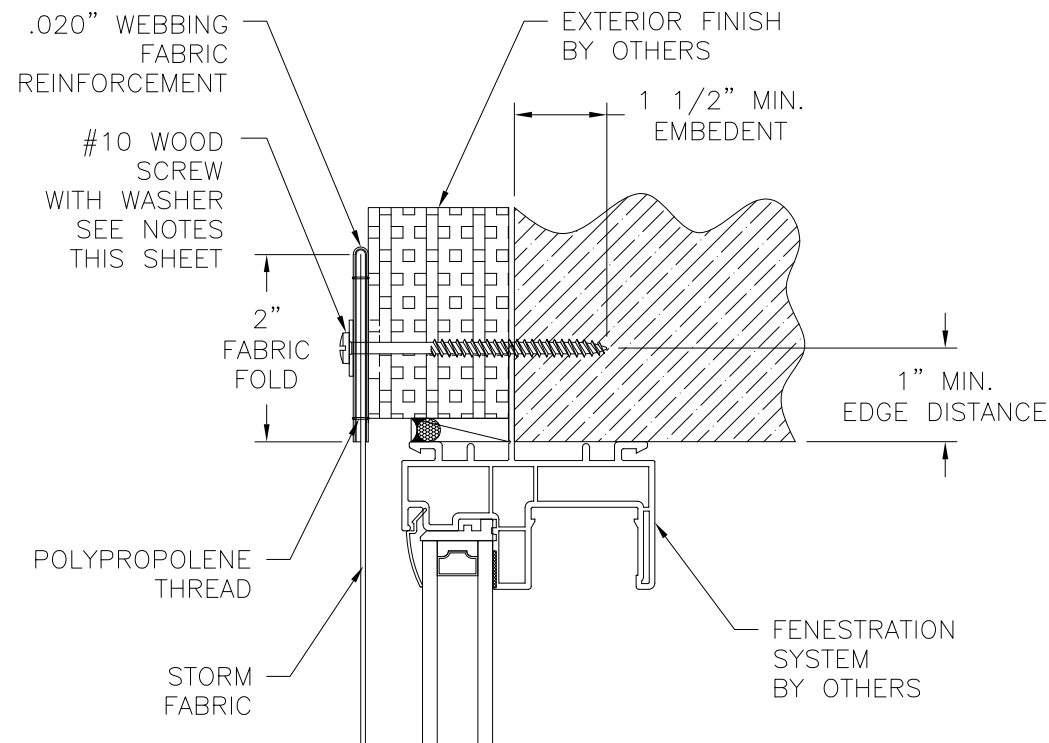
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**FABRIC INSTALLATION**  
WITH STORM CONNECT SYSTEM W/WOOD SCREW



**FABRIC INSTALLATION**  
WITH FABRIC FOLDING W/WOOD SCREW



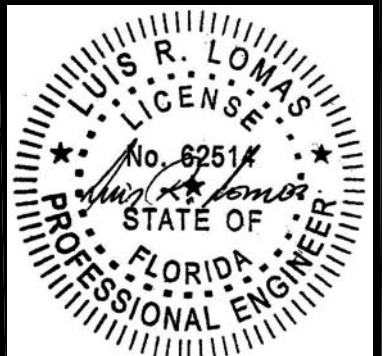
**FABRIC INSTALLATION**  
WITH FABRIC FOLDING REINFORCEMENT W/WOOD SCREW

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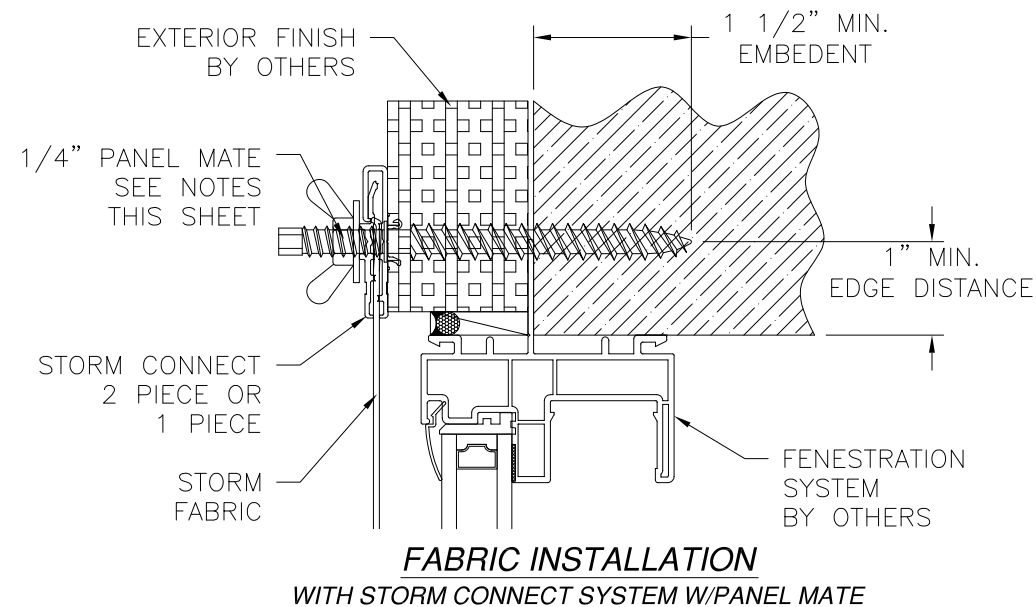
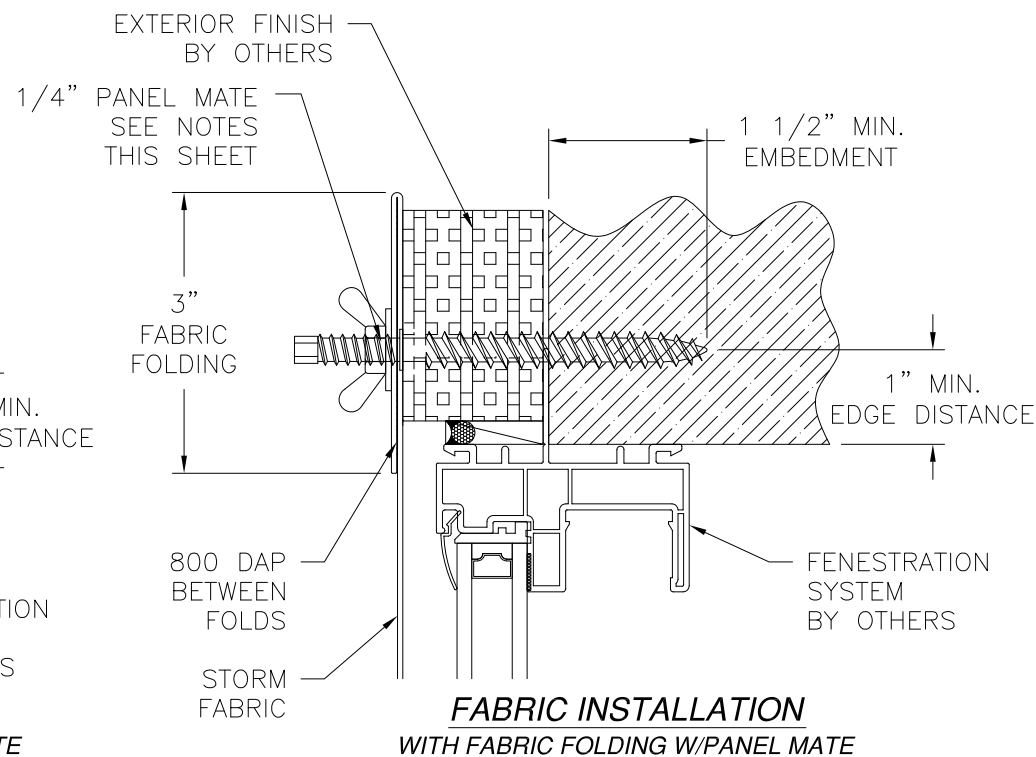
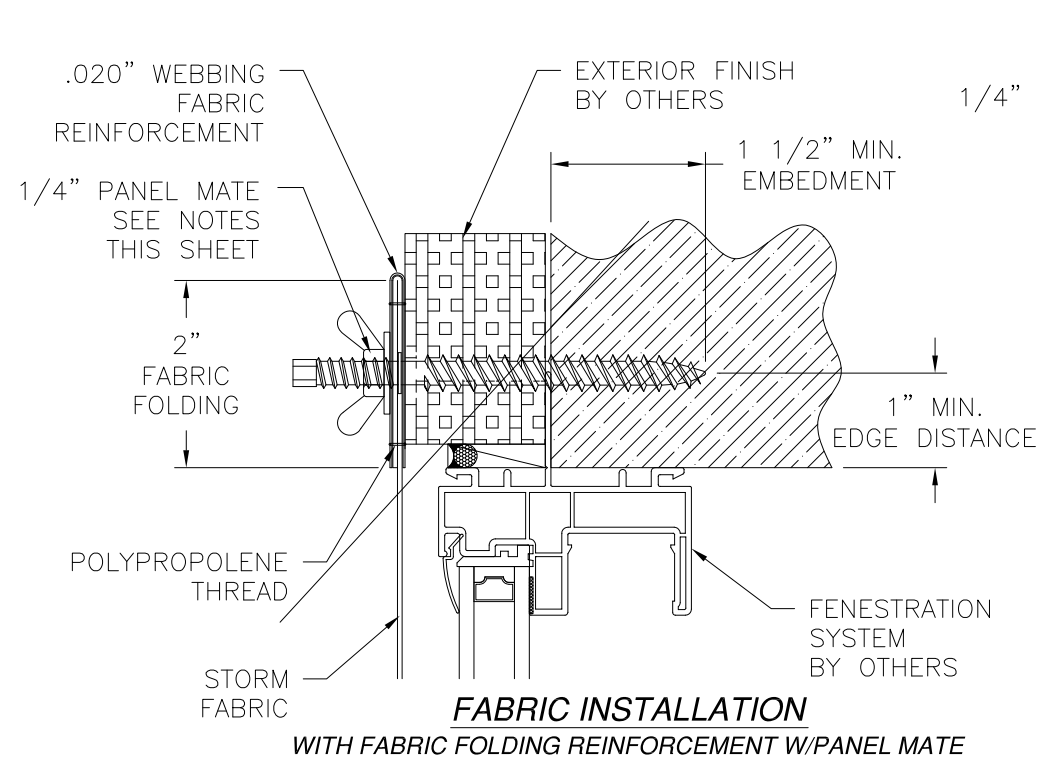
**NOTES:**  
**ANCHORS QUALIFIED TO BE USED:**  
1. #10 WOOD SCREW WITH WASHER WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/2" MINIMUM EMBEDMENT INTO SUBSTRATE.

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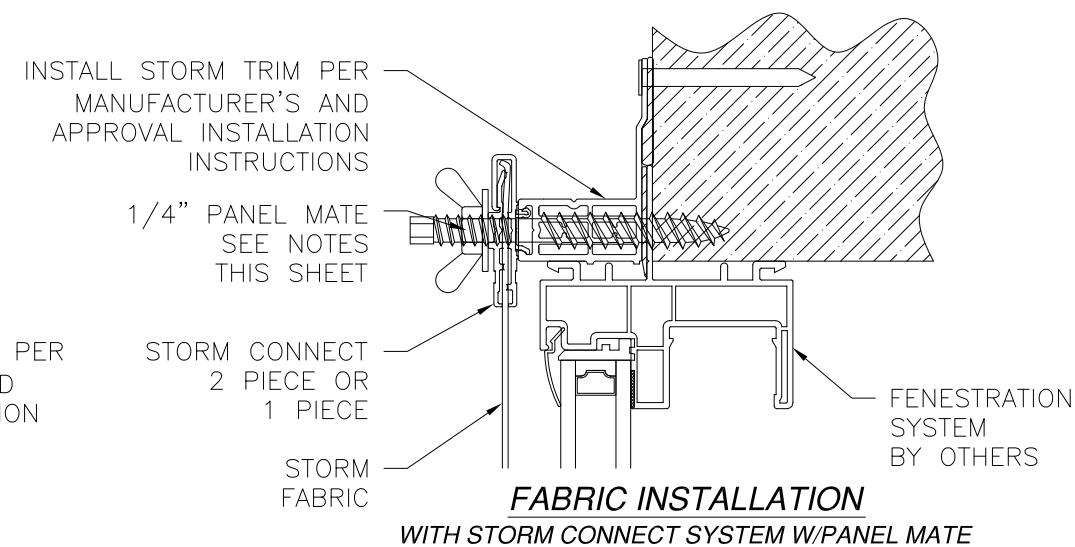
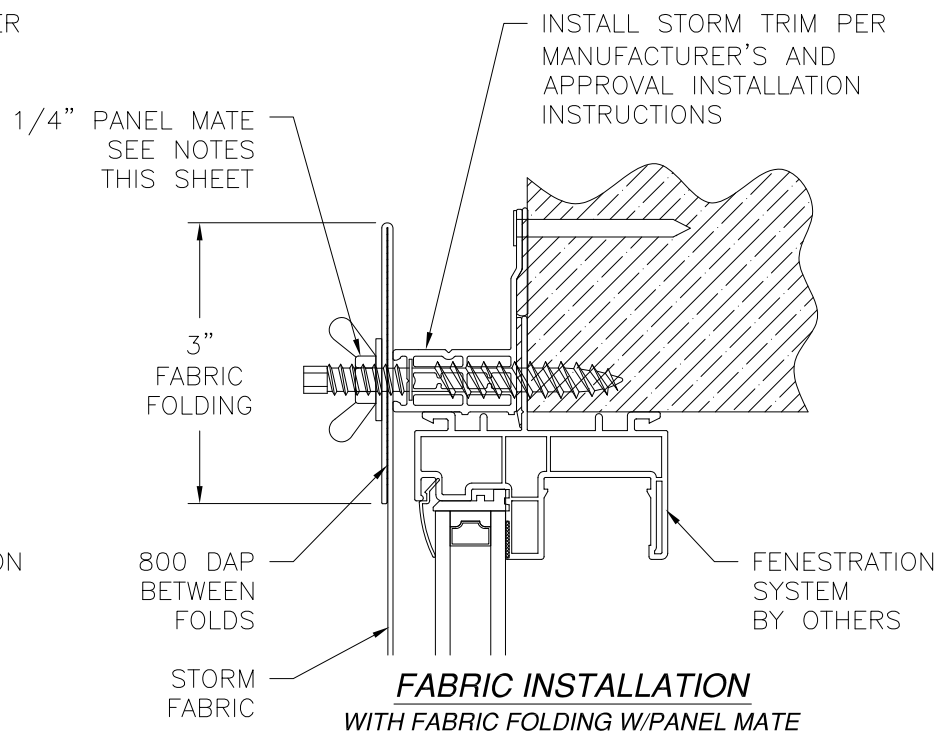
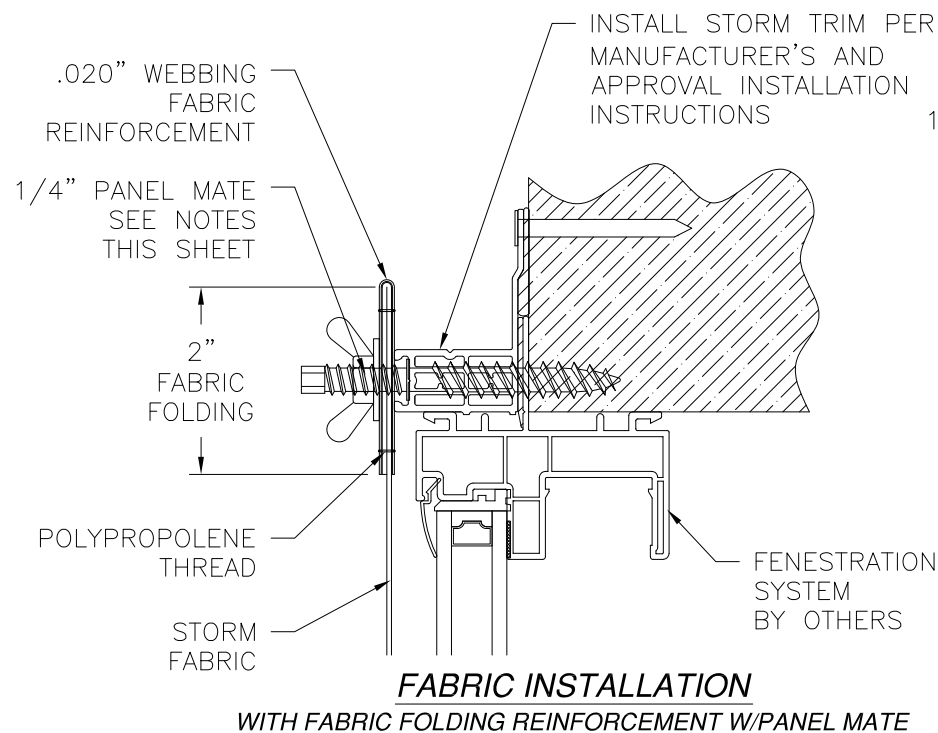
<b>THE MUHLER COMPANY</b> 630 SKYLARK DRIVE SUITE U CHARLESTON , SC 29407		
MUHLER STORM COVERING LARGE AND SMALL MISSILE IMPACT INSTALLATION DETAILS		
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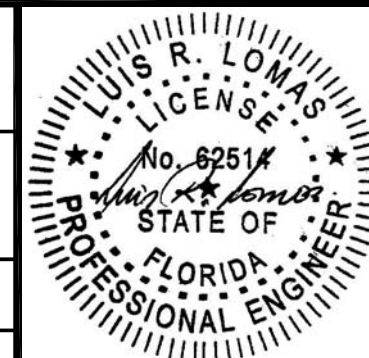
**NOTES:**  
**ANCHORS QUALIFIED TO BE USED:**  
1. 1/4" PANEL MATE WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/2" MINIMUM EMBEDMENT INTO SUBSTRATE.



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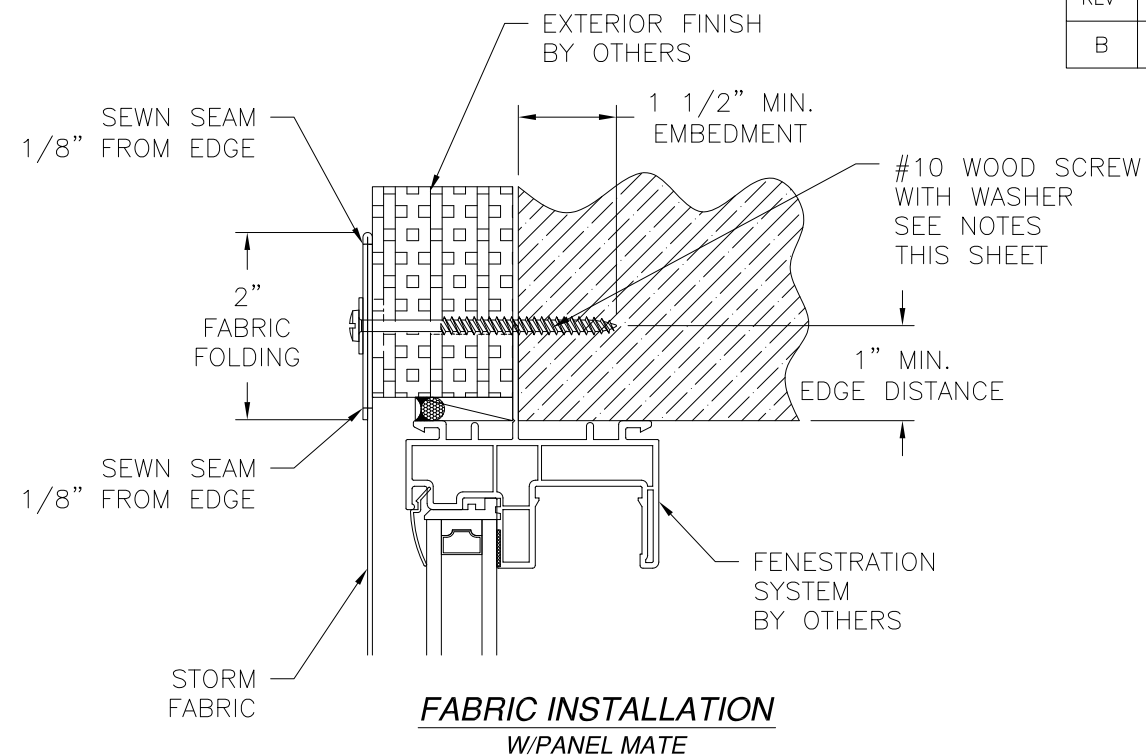
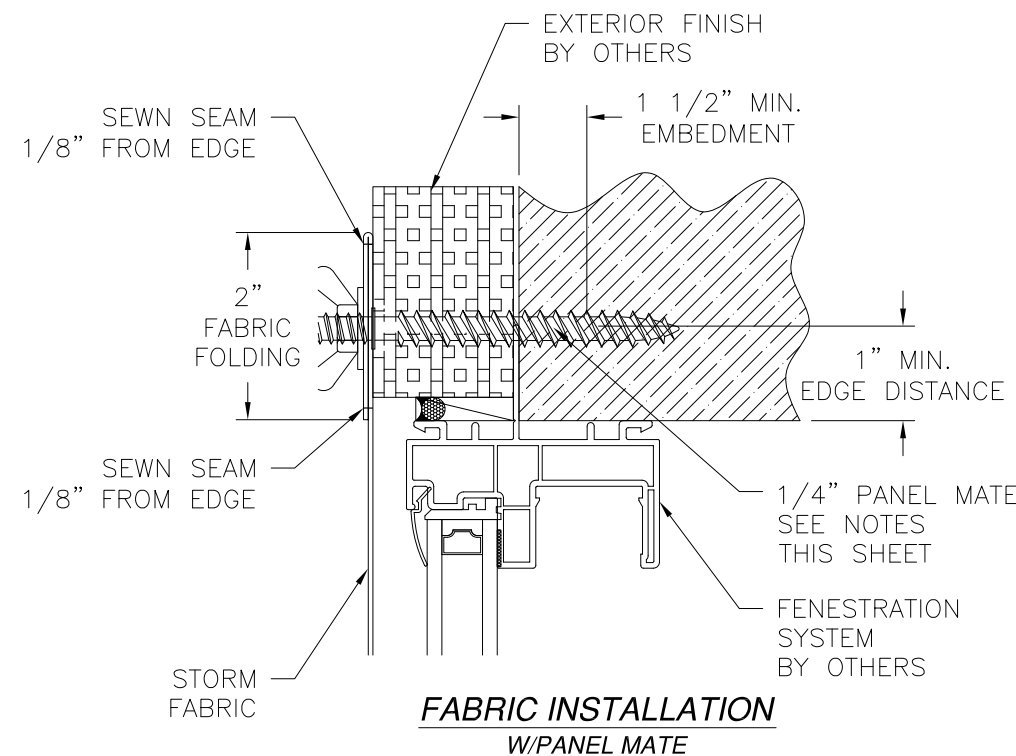
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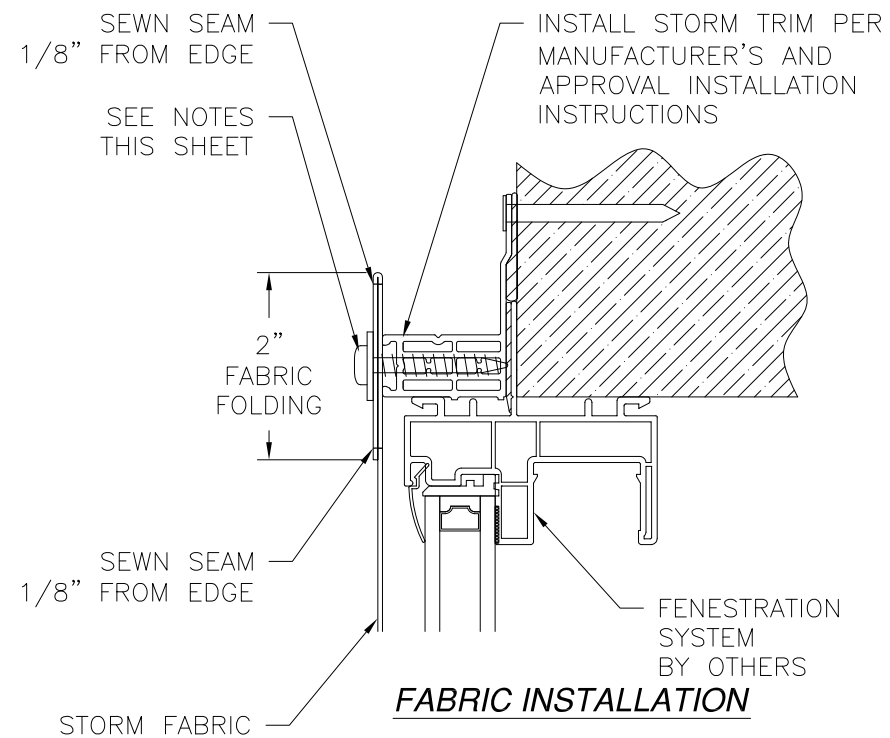
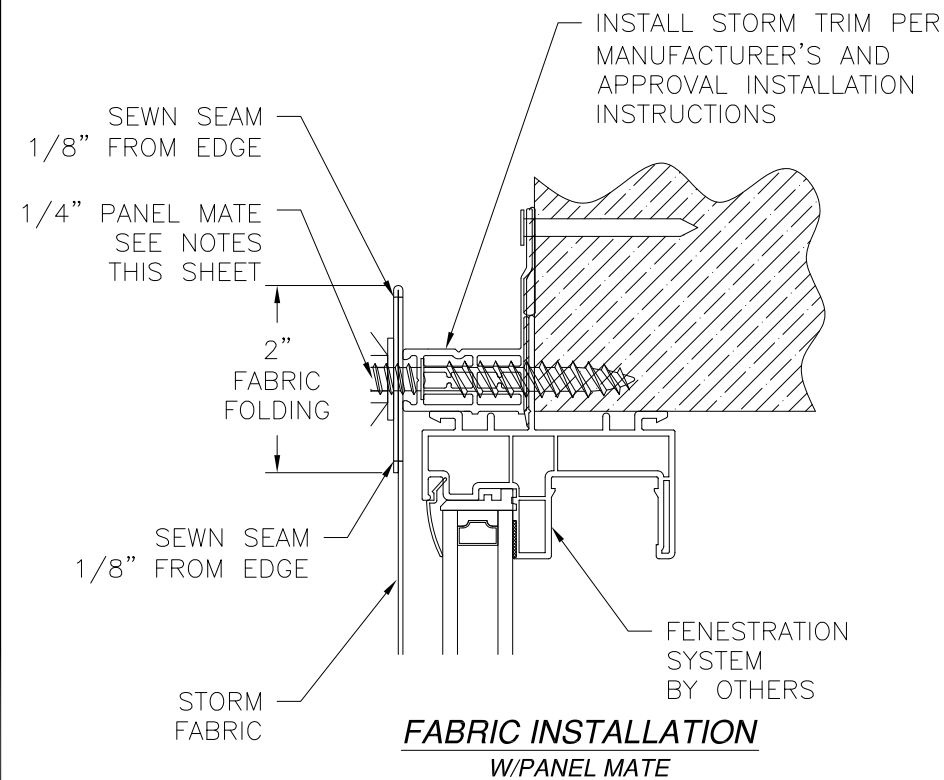


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- NOTES:**  
**ANCHORS QUALIFIED TO BE USED:**
- M6-265 X 1 7/16" TORX T-25 PH SCREW WITH FLAT WASHER
  - HILMAN MULTIMATERIAL SCREW HEX/TORX HEAD 1/4" X 1 1/4" WITH 1" WASHER
  - #10 X 1 1/2" PTH VINYL HOLD SCREW WITH 1" WASHER
  - 1/4" PANEL MATE WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/2" MINIMUM EMBEDMENT INTO SUBSTRATE.
  - #10 WOOD SCREW WITH WASHER WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/2" MINIMUM EMBEDMENT INTO SUBSTRATE.



THE MUHLER COMPANY 630 SKYLARK DRIVE SUITE U CHARLESTON , SC 29407		
MUHLER STORM COVERING LARGE AND SMALL MISSILE IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03362	REV B
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L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@rlomaspe.com		

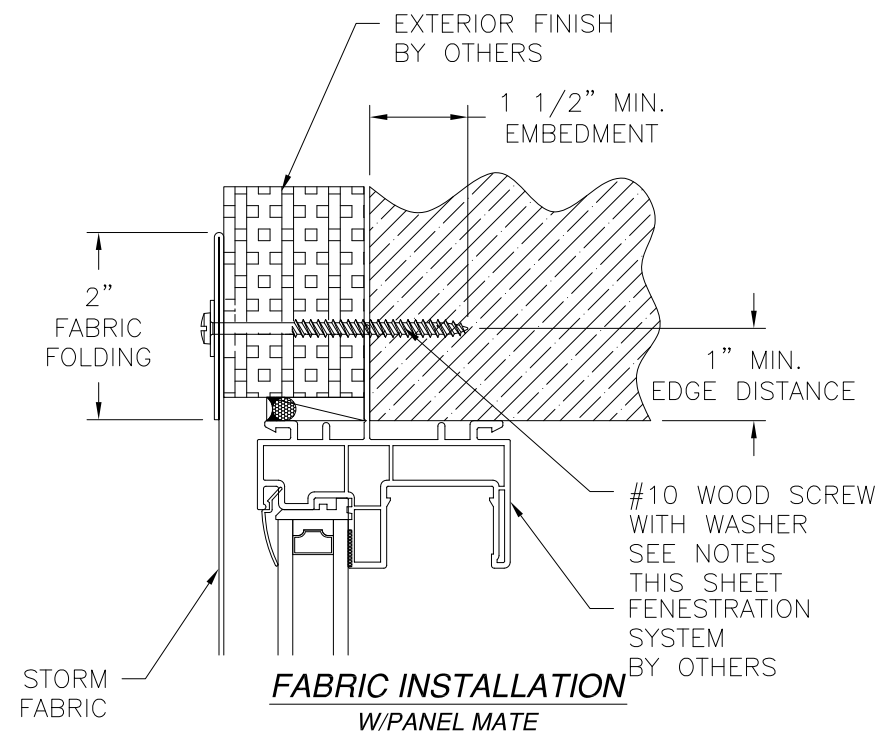
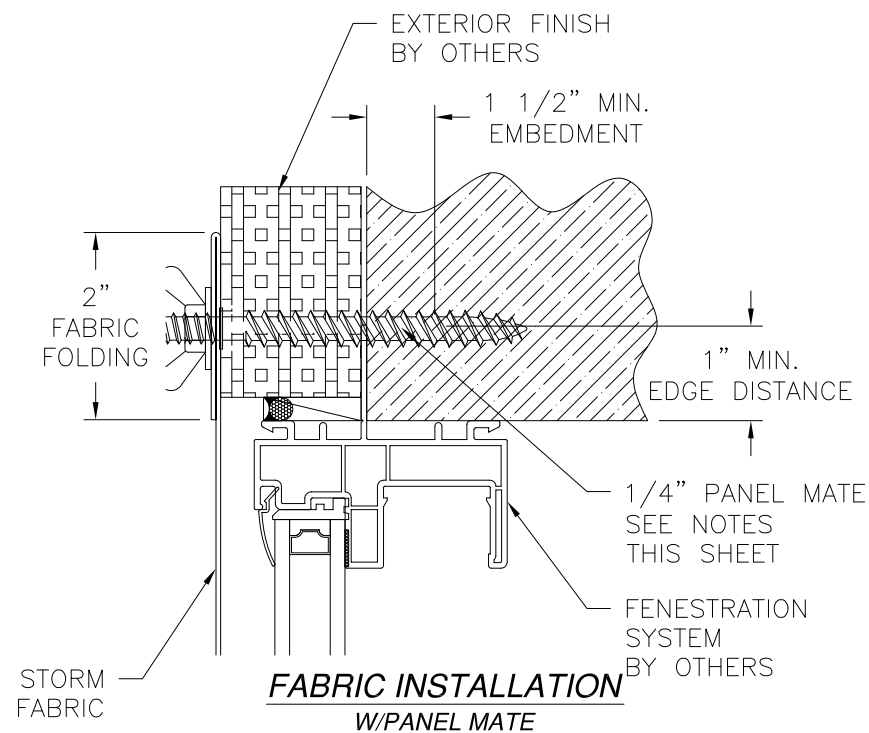
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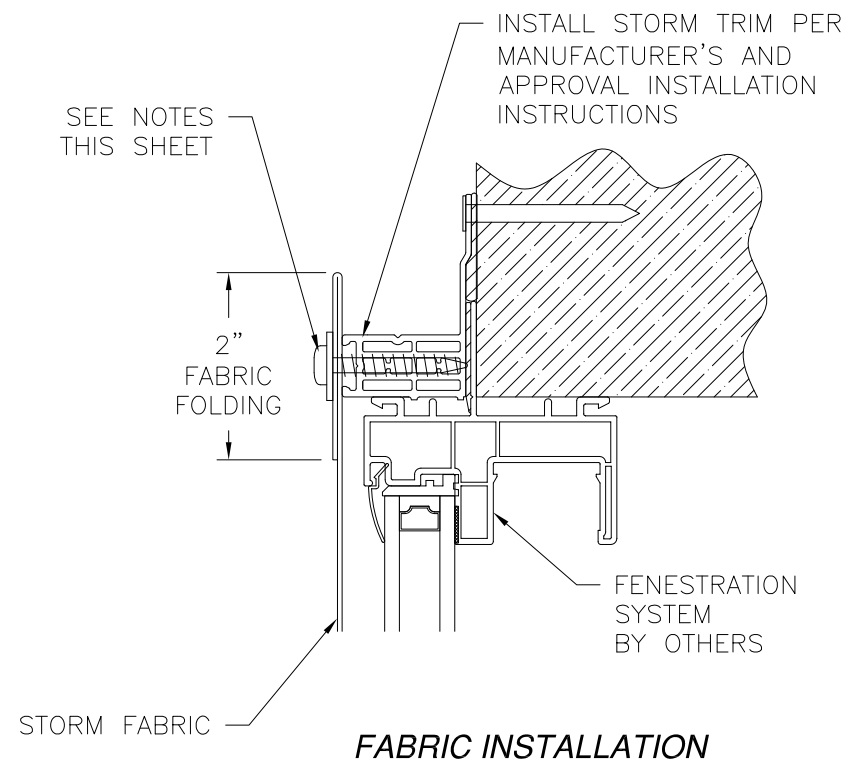
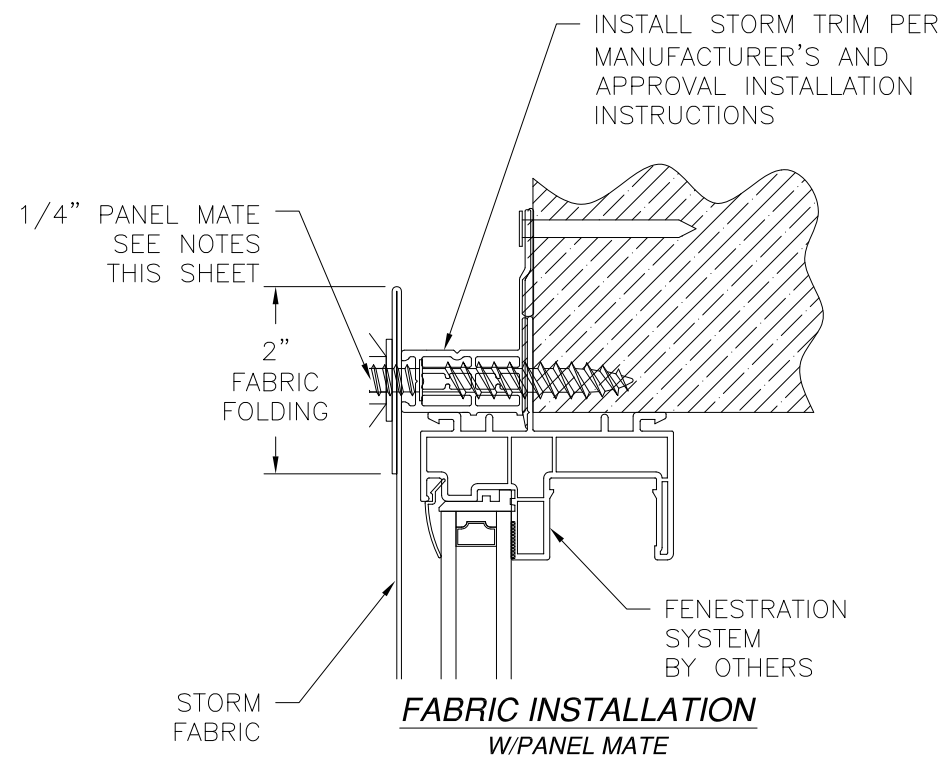
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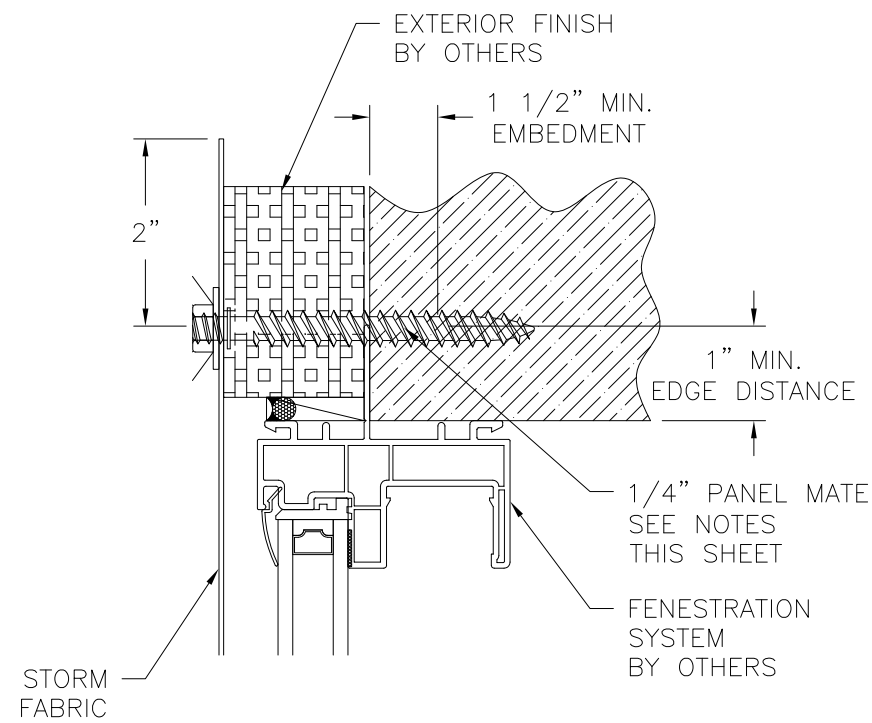
SIGNED: 10/14/2022

THE MUHLER COMPANY 630 SKYLARK DRIVE SUITE U CHARLESTON , SC 29407		
MUHLER STORM COVERING LARGE AND SMALL MISSILE IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03362	REV B
SCALE NTS	DATE 12/11/18	SHEET 9 OF 11
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@rlomaspe.com		

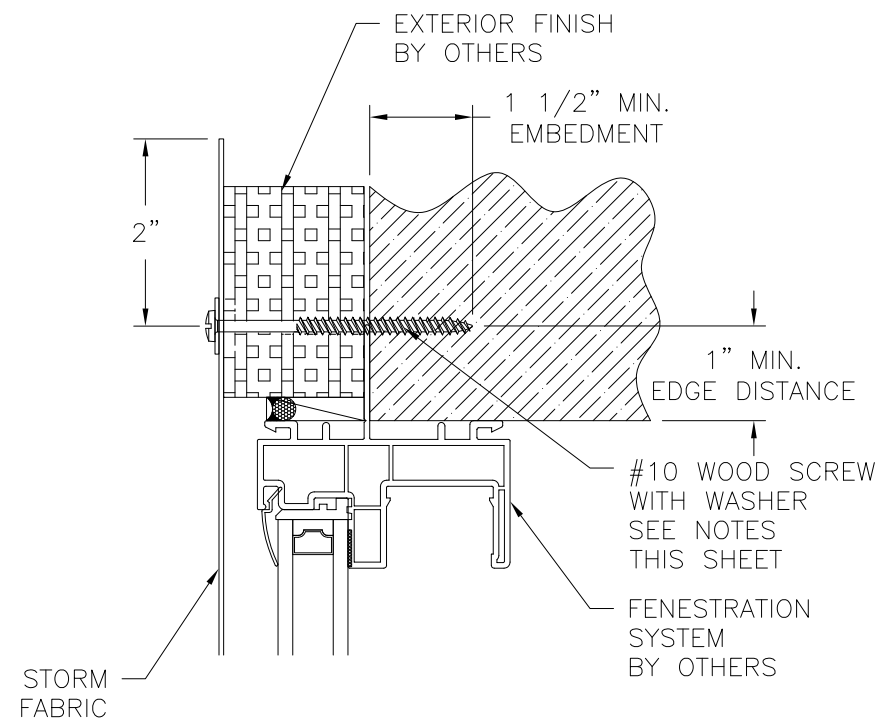


Luis R. Lomas P.E.  
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED INSTALLATION DETAILS & CHARTS	10/11/2022	R.L.

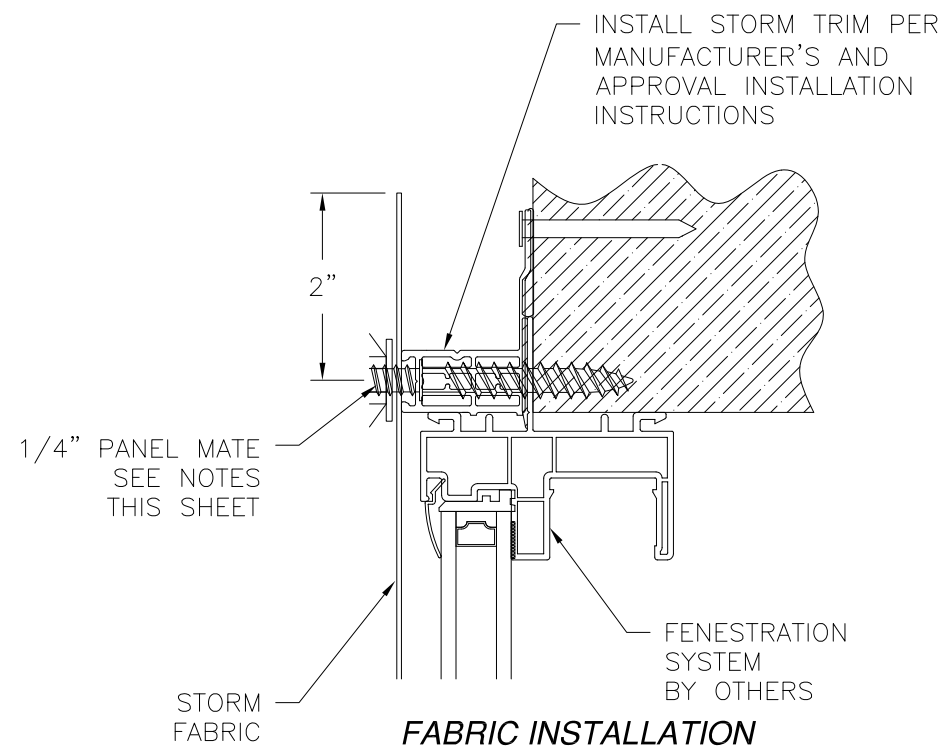


**FABRIC INSTALLATION**  
W/PANEL MATE

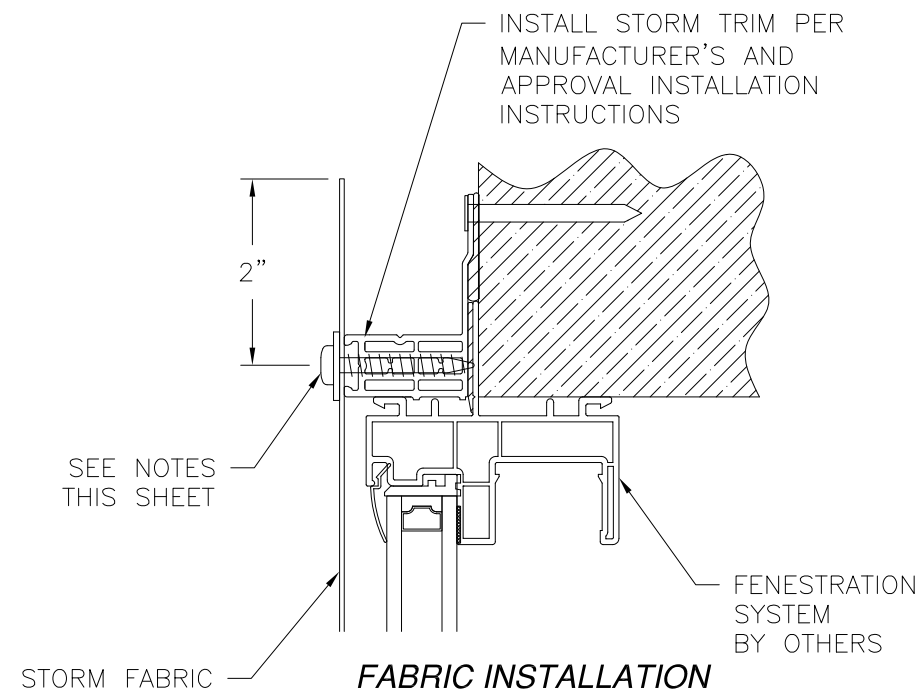


**FABRIC INSTALLATION**  
W/PANEL MATE

- NOTES:**  
**ANCHORS QUALIFIED TO BE USED:**
1. M6-265 X 1 7/16"  
TORX T-25 PH  
SCREW WITH FLAT WASHER
  2. HILMAN MULTIMATERIAL SCREW  
HEX/TORX HEAD 1/4" X 1 1/4" WITH 1" WASHER
  3. #10 X 1 1/2" PTH VINYL HOLD SCREW  
WITH 1" WASHER
  4. 1/4" PANEL MATE WITH SUFFICIENT LENGTH TO  
ACHIEVE A 1 1/2" MINIMUM EMBEDMENT INTO  
SUBSTRATE.
  5. #10 WOOD SCREW WITH WASHER WITH SUFFICIENT  
LENGTH TO ACHIEVE A 1 1/2" MINIMUM EMBEDMENT  
INTO SUBSTRATE.



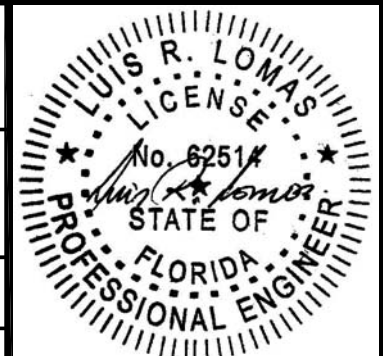
**FABRIC INSTALLATION**  
W/PANEL MATE



**FABRIC INSTALLATION**

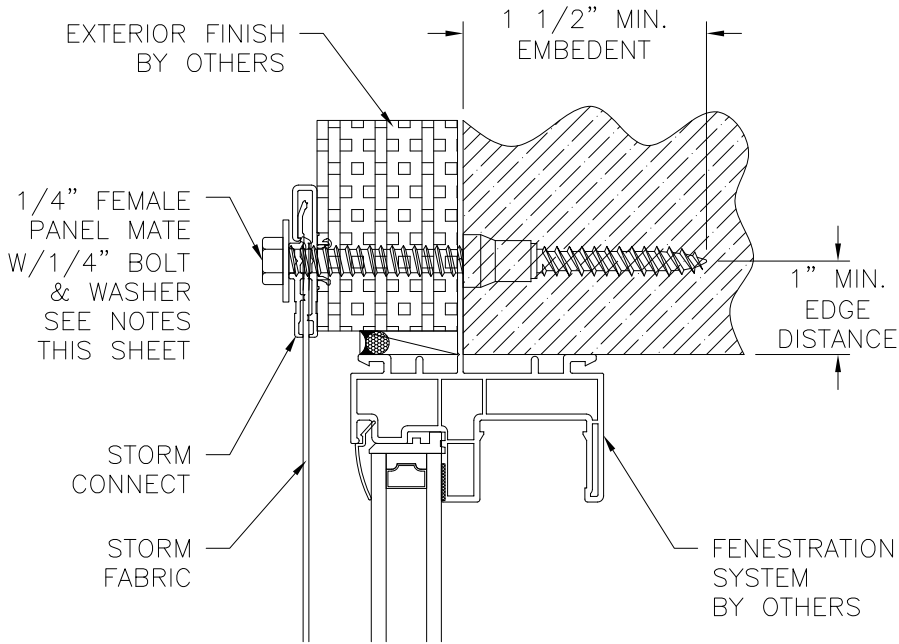
THE MUHLER COMPANY 630 SKYLARK DRIVE SUITE U CHARLESTON , SC 29407		
MUHLER STORM COVERING LARGE AND SMALL MISSILE IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03362	REV B
SCALE NTS	DATE 12/11/18	SHEET 10 OF 11
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@rlomaspe.com		

SIGNED: 10/14/2022

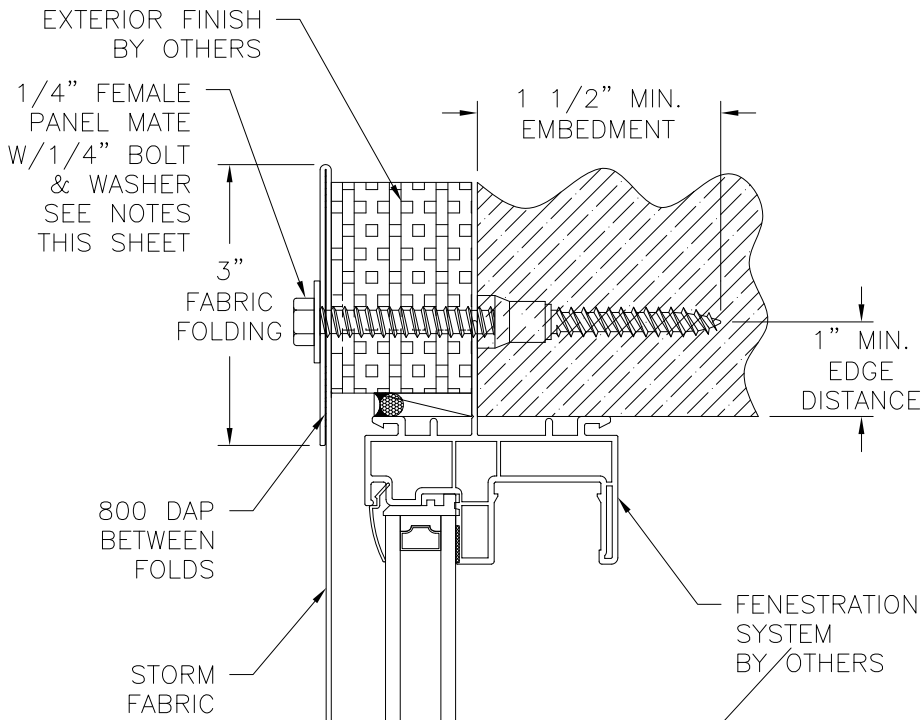


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B	REVISED INSTALLATION DETAILS & CHARTS	10/11/2022	R.L.

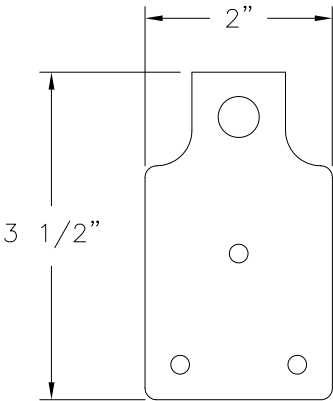


**FABRIC INSTALLATION**  
WITH STORM CONNECT SYSTEM W/PANEL MATE

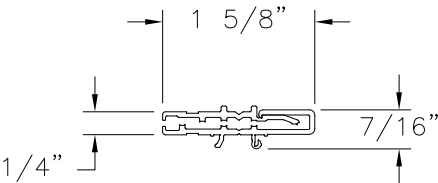


**FABRIC INSTALLATION**  
WITH FABRIC FOLDING W/PANEL MATE

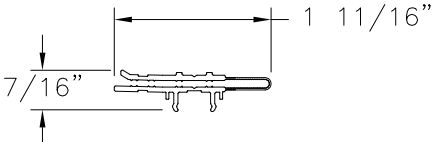
NOTES:  
ANCHORS QUALIFIED TO BE USED:  
1. 1/4" FEMALE PANEL MATE WITH 1/4" BOLT AND WASHER



**FABRIC CLIP**  
PLASTIC, BY TOWN & COUNTRY



**STORM CONNECT 2 PIECE**  
VINYL, BY MUHLER



**STORM CONNECT 1 PIECE**  
VINYL, BY MUHLER

THE MUHLER COMPANY

630 SKYLARK DRIVE SUITE U  
CHARLESTON , SC 29407

MUHLER STORM COVERING

LARGE AND SMALL MISSILE IMPACT  
COMPONENTS AND INSTALLATION DETAILS

DRAWN:  
A.R.

DWG NO.  
08-03362

REV  
B

SCALE NTS

DATE 12/11/18

SHEET 11 OF 11

L. ROBERTO LOMAS P.E.

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