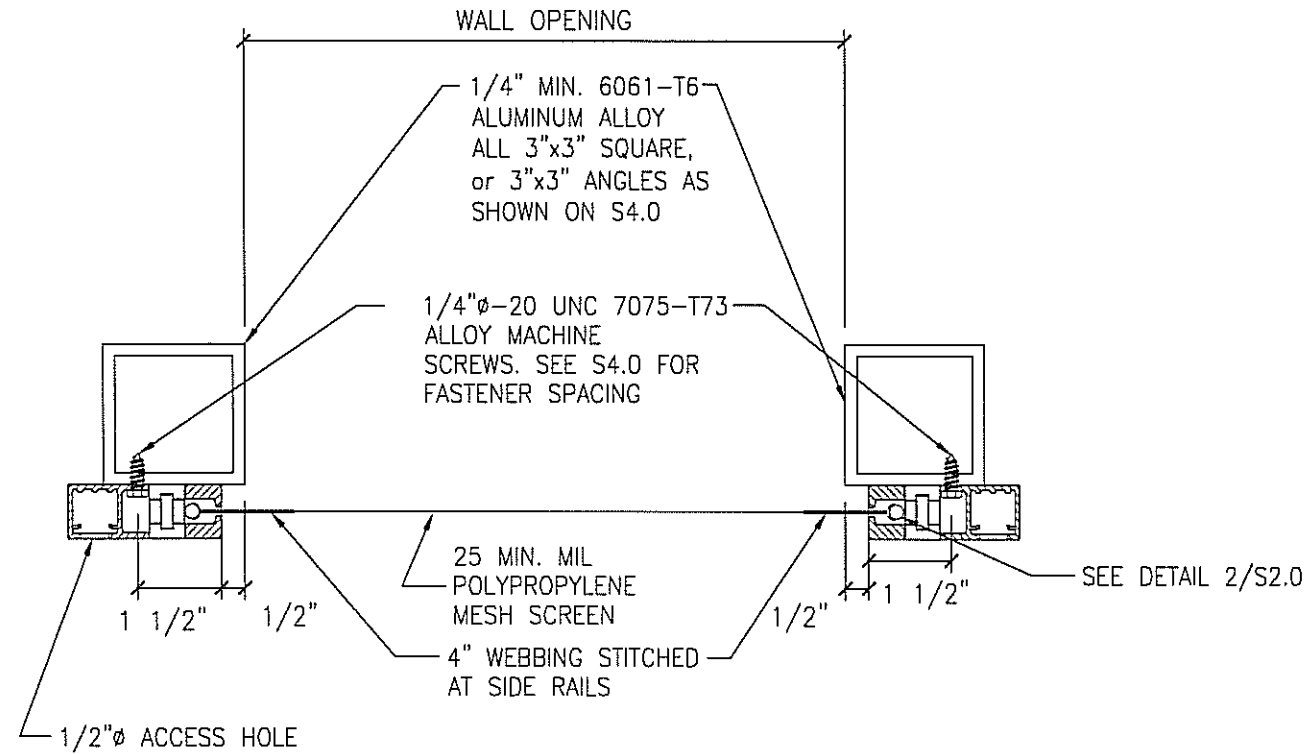


**GENERAL NOTES:**

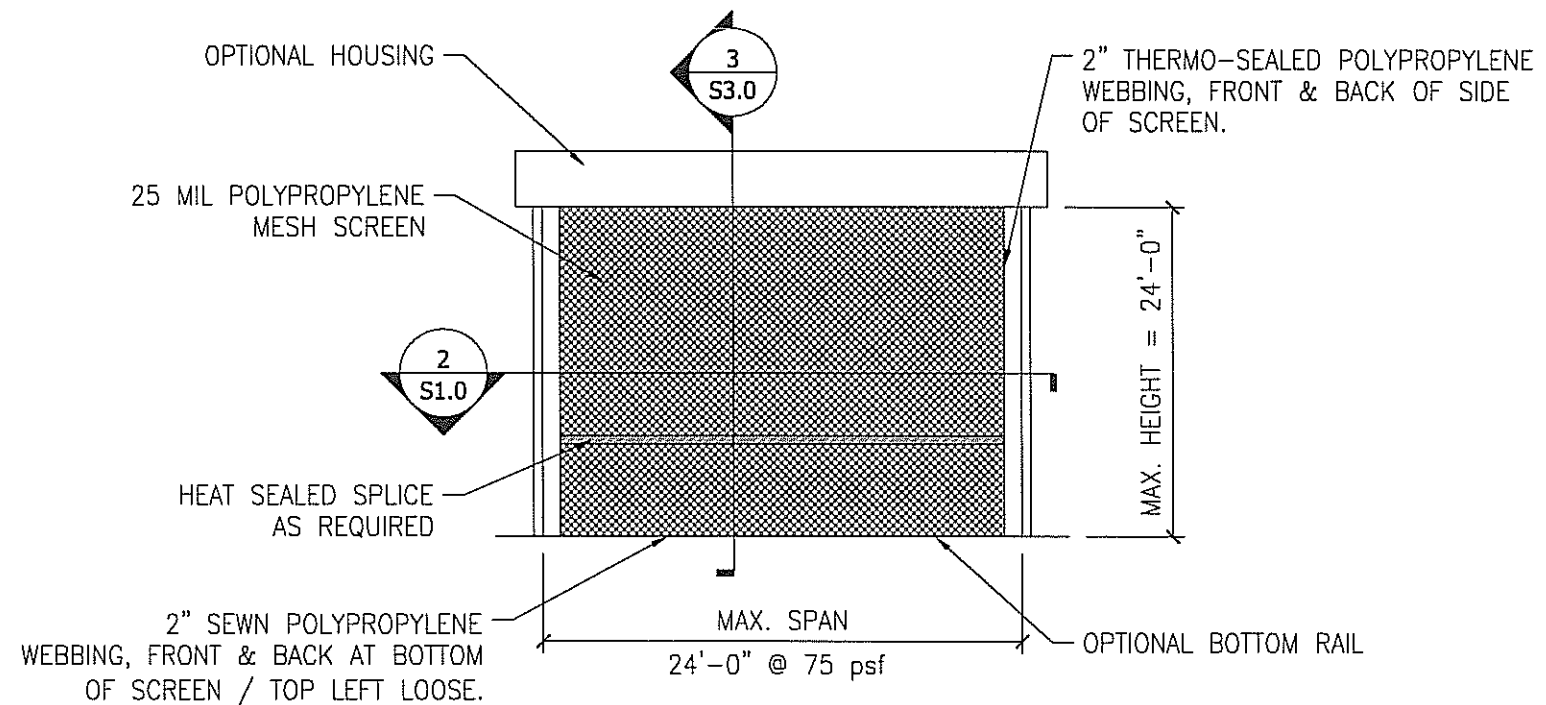
1. ADVANCED HURRICANE TECHNOLOGY, INC. 'ROLL DOWN MESH IMPACT SCREEN' HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH FLORIDA BUILDING CODE 2007 WITH 2009 REVISIONS CHAPTER 16 FOR LARGE MISSILE IMPACT NOT INCLUDING WITHIN THE HIGH VELOCITY HURRICANE ZONE, AND MEETS THE NON-POROUS REQUIREMENTS FOR ASTM E1996 FOR OUTSIDE OF HIGH VELOCITY HURRICANE ZONES. ALLOWABLE WIND LOADS SHALL BE IN ACCORDANCE WITH ASCE 7-05, AND FOR A BASIC WIND SPEED AS REQUIRED BY THE JURISDICTION WHERE THE ROLL DOWN MESH IMPACT SCREEN WILL BE INSTALLED.
2. SCREEN TESTED PER ASTM E1886-05, ASTM E1996-05, AND ASTM E330-02 WITH MISSILE IMPACTS CORRESPONDING TO MISSILE LEVEL D AND WIND ZONE 4 TO MEET IMPACT, DEFLECTION, AND FATIGUE RESISTANCE PER FBC1609.1.2
3. UNIT WIDTH OR THE DISTANCE BETWEEN SUPPORTED SIDES SHOWN IS MAXIMUM ALLOWABLE WITHOUT SITE-SPECIFIC ENGINEERING. HEIGHT IS UNLIMITED.
4. NO ALLOWABLE STRESS INCREASE HAS BEEN USED IN THE DESIGN OF THE ROLL DOWN MESH IMPACT SCREEN.
5. ANCHORING OF SIDE RAILS SHALL BE WITH 1/4"φ-20UNC 7075-T73 ALLOY MACHINE SCREWS. INSTALLATION OF 1/4"φ SCREWS SHALL BE INTO MINIMUM 1/4" THICK ALUMINUM 6061-T6 ALLOY. ADEQUACY OF EXISTING STRUCTURE SHALL BE DETERMINED BY OTHERS.
6. THE PRODUCT EVALUATION DOCUMENT AND INSTALLATION INSTRUCTIONS ARE GENERIC AND DOES NOT PROVIDE INFORMATION FOR SITE SPECIFIC PROJECTS (ANYTHING DEVIATING FROM THESE DOCUMENTS AND INSTALLATION INSTRUCTIONS). ALL SITE SPECIFIC PROJECTS SHALL REQUIRE A FLORIDA REGISTERED PROFESSIONAL ENGINEER SEAL WHOM SHALL TAKE ALL RESPONSIBILITIES OF THE PRODUCT.
7. FINAL SCREEN FABRIC SHALL BE MIN. 25-MIL POLYPROPYLENE, WOVEN WITH GORE HTR100 OR EQUIVALENT (138) WITH MIN. TENSILE BREAKING TEST STRENGTH OF 15 LBS.
8. FINAL SCREEN FABRIC SHALL HAVE POROSITY <= 10%.
9. SEE SHEET 2 FOR FABRIC SPECIFICATIONS.
10. MAX. ALLOWABLE DESIGN PRESSURES SHALL NOT EXCEED +/- 75 psf.
11. THE PRODUCT SHALL BE LABELED IN ACCORDANCE WITH FBC - 1714.8

**PRODUCT LABEL:**

ADVANCED HURRICANE TECHNOLOGY INC.  
 6063 JAMES LANE  
 NAPLES FLORIDA 34109  
 FLORIDA PRODUCT APPROVAL: FL#13751.1 W/ SITE SPECIFIC ENG.  
 TEST STANDARDS: ASTM E1886-05, ASTM E1996-05, ASTM E330-02  
 OPENING # \_\_\_\_\_



**2 SECTION - SIDE RAILS TO CMU**  
 N.T.S.



**1 TYPICAL - SINGLE UNIT ELEVATION**  
 N.T.S.

**ADVANCED HURRICANE TECHNOLOGY, INC.**  
**SITE SPECIFIC**

Project Name:

|            |            |
|------------|------------|
| Drawn:     | DP         |
| Checked:   | TB         |
| REV File#: | 09CS-0499  |
| Scale:     | SEE SHEET  |
| Date:      | 2010-08-06 |

**Karins Engineering Group, Inc.**  
 FL Cert. of Auth. # 8371  
 2017 Fiesta Drive  
 Sarasota, FL 34231  
 (941) 927-8525/ Fax (941) 927-8075  
 David G. Karins, PE  
 FL Registration # 52677

TO THE BEST OF MY KNOWLEDGE AND ABILITY, THE COMPLETED STRUCTURE DEPICTED ON THESE PLANS COMPLIES WITH APPLICABLE MINIMUM BUILDING CODES.

Sheet No.: **S1.0**

**SCREEN DEFLECTION CHART**

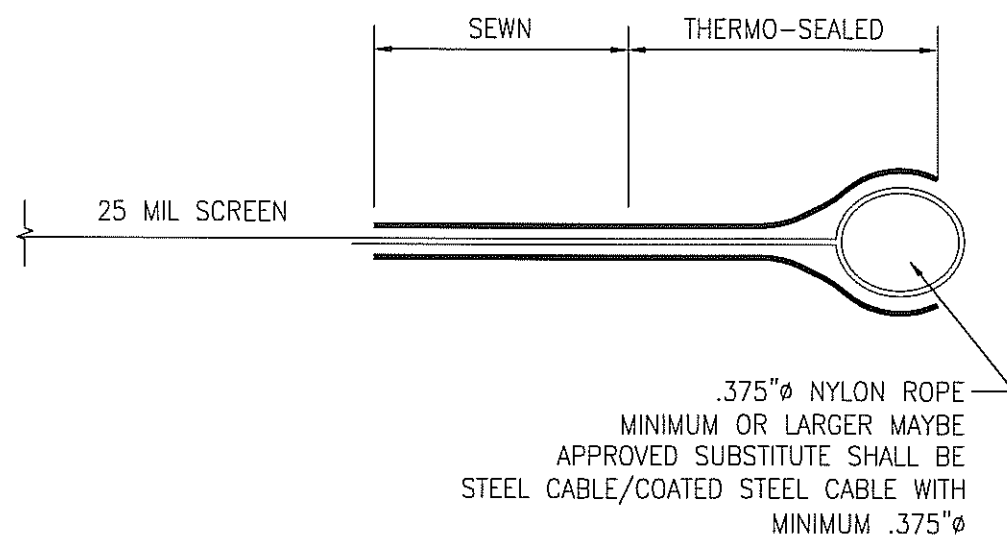
| SCREEN WIDTH   | DEFLECTION |
|----------------|------------|
| 3'-0" and LESS | 1.75"      |
| 4'-0"          | 2.50"      |
| 5'-0"          | 3.50"      |
| 6'-0"          | 4.33"      |
| 7'-0"          | 5.33"      |
| 8'-0"          | 6.40"      |
| 9'-0"          | 7.50"      |
| 10'-0"         | 8.80"      |
| 11'-0"         | 10.10"     |
| 12'-0"         | 11.50"     |
| 13'-0"         | 13.10"     |
| 14'-0"         | 14.63"     |
| 14'-6"         | 15.00"     |

NOTE: FOR POSITIVE AND NEGATIVE WIND PRESSURES.

**AERIAL FABRIC PROPERTIES**

| PROPERTY         | TEST METHOD | VALUE           | UNITS              |
|------------------|-------------|-----------------|--------------------|
| CONSTRUCTION     |             | 39 x 36         |                    |
| WEAVE            |             | 3/3 BASKETWEAVE |                    |
| YARN SIZE - WARP | ASTM D-1907 | 925             | denier monofil PP  |
| YARN SIZE - FILL | ASTM D-1907 | 925             | denier monofil PP  |
| WEIGHT           | ASTM D-5261 | 10.0            | oz/yd <sup>2</sup> |
| TENSILE - WARP   | ASTM D-5034 | 500             | Lbs/in             |
| TENSILE - FILL   | ASTM D-5034 | 450             | Lbs/in             |
| BURST            | ASTM D-3786 | 985             | PSI                |
| THICKNESS        | ASTM D-5199 | 24.0            | mils               |
| % SHADE          | ASTM D-6567 | 88              | %                  |
| AIR FLOW         | ASTM D-737  | 300             | CFM                |

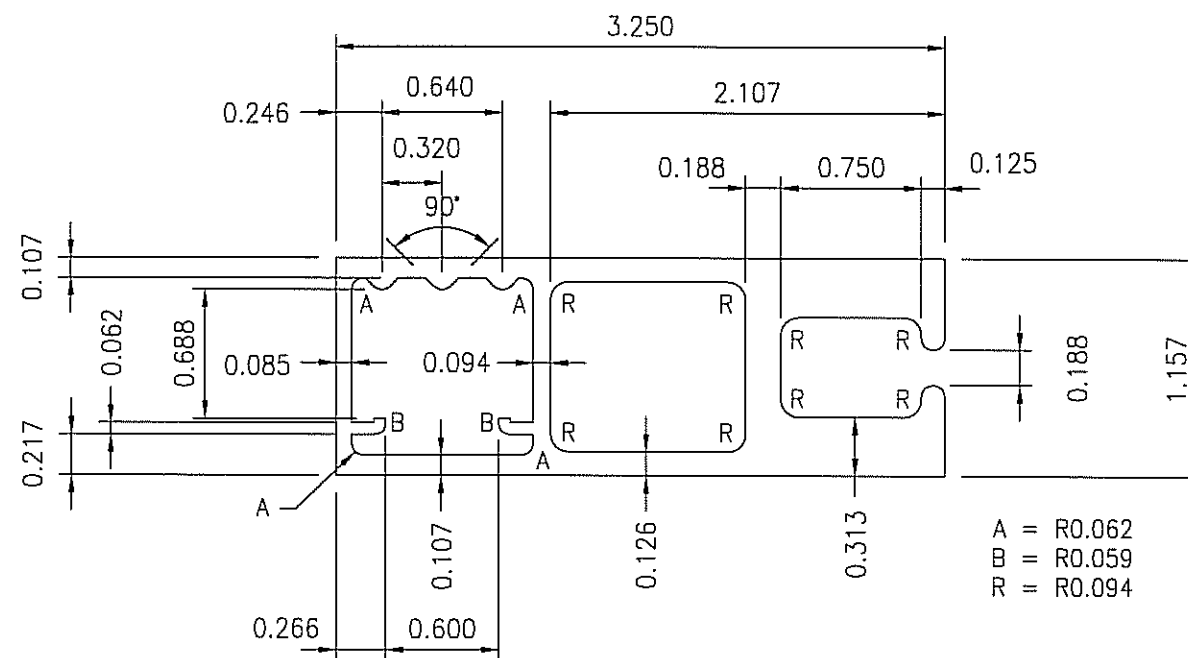
NOTE:  
4" WEBBING THERMO-SEALED 1.5"



2

**SIDE RAIL CONNECTIONS**

SCALE: NTS



1

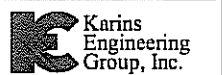
**SIDE RAIL DIMENSIONS**

SCALE: NTS

Project Name:

**ADVANCED HURRICANE TECHNOLOGY, INC.**

Drawn: DP  
Checked: TB  
REG File: 09CS-0499  
Scale: SEE SHEET  
Date: 2010-08-06



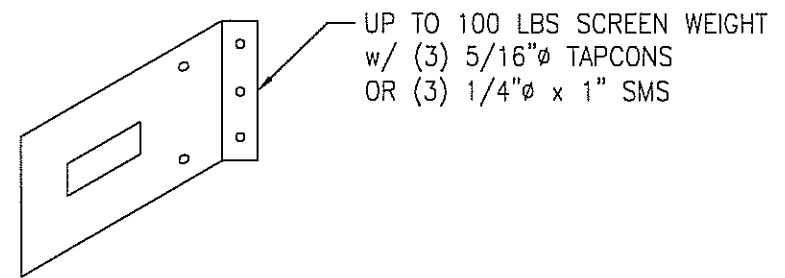
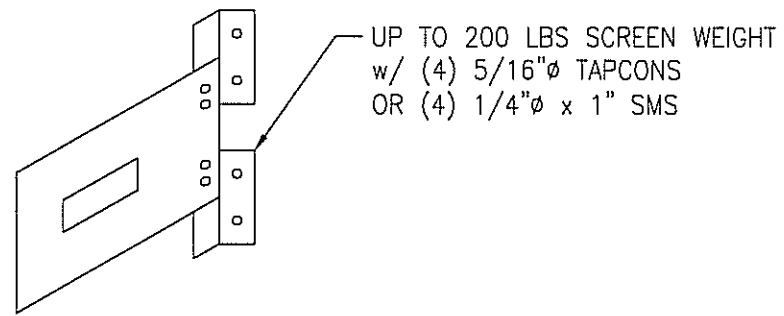
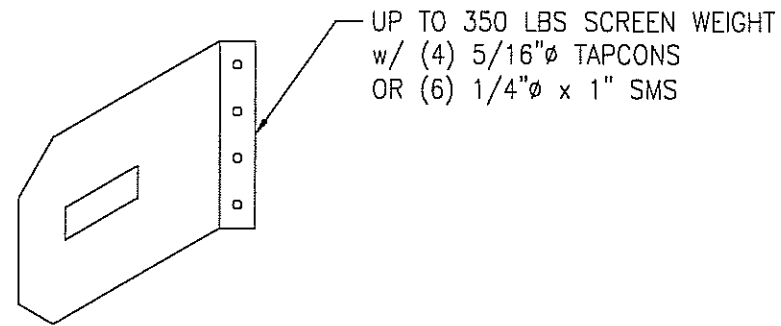
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2017 Fiesta Drive  
Sarasota, FL 34231  
(941) 927-8525 / Fax (941) 927-8075  
David G. Karins, PE  
FL Registration # 52677

SEA

TO THE BEST OF MY KNOWLEDGE AND ABILITY, THE COMPLETED STRUCTURE DEPICTED ON THESE PLANS COMPLIES WITH APPLICABLE MINIMUM BUILDING CODES.

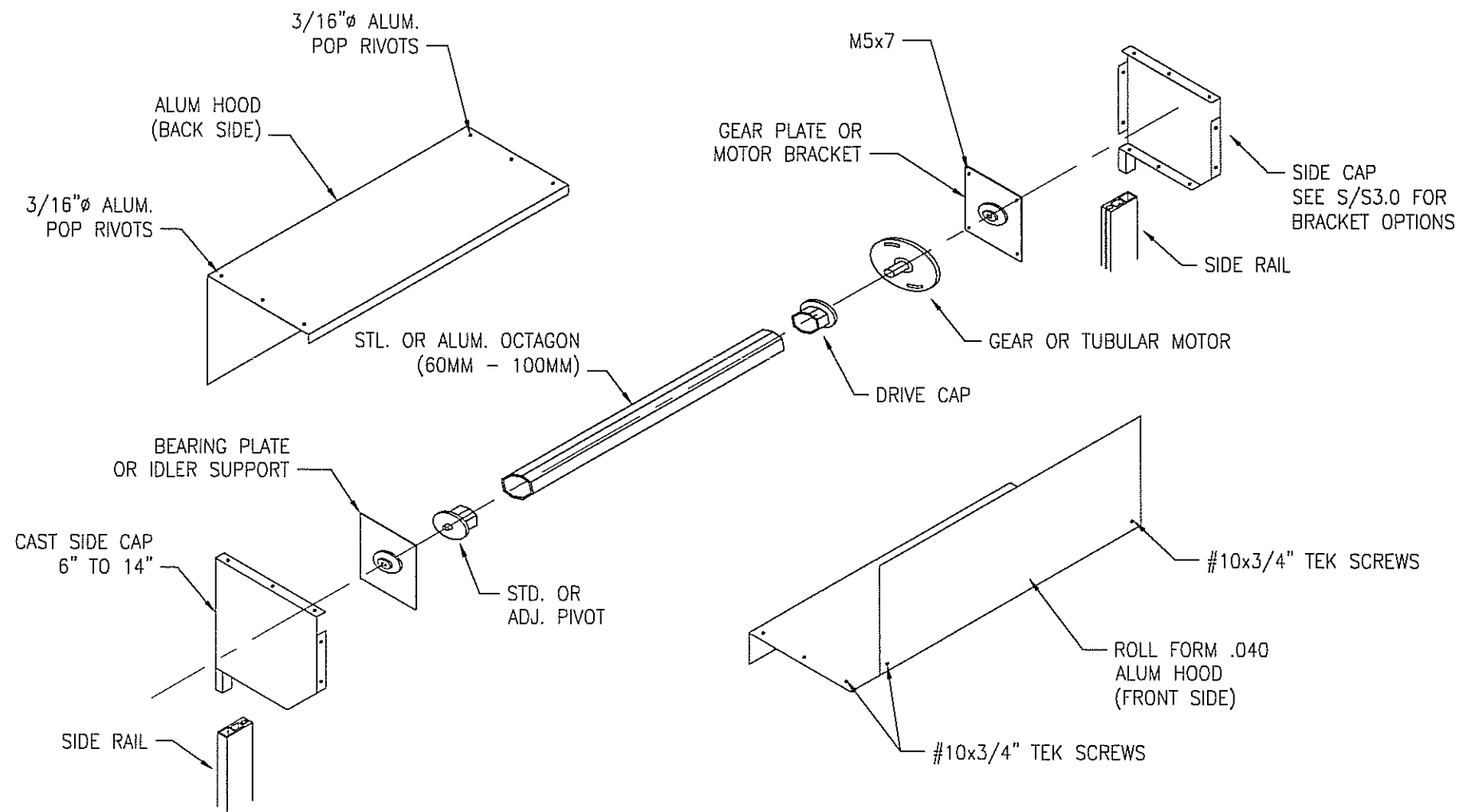
Sheet No.:

**S2.0**



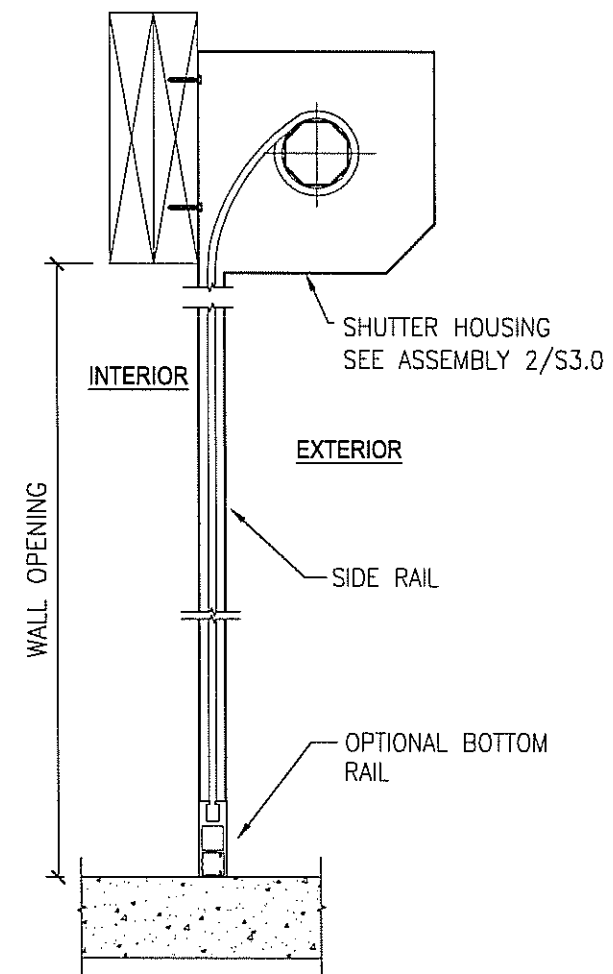
### 3 BRACKET OPTIONS

SCALE: NTS



### 2 COMPONENTS & ASSEMBLY

SCALE: NTS



### 1 OPTIONAL SHUTTER HOUSING

SCALE: NTS

Project Name:

ADVANCED HURRICANE TECHNOLOGY, INC.

Drawn: DP  
Checked: TB  
KEG File#: 09CS-0499  
Scale: SEE SHEET  
Date: 2010-08-06

**K** Karins Engineering Group, Inc.

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Sheet No.:

S3.0

WIND PRESSURE

|       | 30 PSF  | 40 PSF  | 50 PSF  | 60 PSF  | 70 PSF  | 75 PSF  |
|-------|---------|---------|---------|---------|---------|---------|
| 24 FT | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | N/A     | N/A     |
| 23 FT | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | N/A     | N/A     |
| 22 FT | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | N/A     | N/A     |
| 21 FT | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | N/A     | N/A     |
| 20 FT | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | N/A     | N/A     |
| 19 FT | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | N/A     | N/A     |
| 18 FT | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | N/A     | N/A     |
| 17 FT | 6' o.c. | 4' o.c. | 4' o.c. | 4' o.c. | N/A     | N/A     |
| 16 FT | 6' o.c. | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | N/A     |
| 15 FT | 6' o.c. | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | N/A     |
| 14 FT | 6' o.c. | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | N/A     |
| 13 FT | 6' o.c. | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | N/A     |
| 12 FT | 6' o.c. | 6' o.c. | 4' o.c. | 4' o.c. | 4' o.c. | 3' o.c. |
| 11 FT | 6' o.c. | 6' o.c. | 6' o.c. | 4' o.c. | 4' o.c. | 4' o.c. |
| 10 FT | 6' o.c. | 6' o.c. | 6' o.c. | 4' o.c. | 4' o.c. | 4' o.c. |
| 9 FT  | 6' o.c. | 6' o.c. | 6' o.c. | 6' o.c. | 4' o.c. | 4' o.c. |
| 8 FT  | 6' o.c. | 6' o.c. | 6' o.c. | 6' o.c. | 4' o.c. | 4' o.c. |
| 7 FT  | 6' o.c. | 6' o.c. | 6' o.c. | 6' o.c. | 6' o.c. | 4' o.c. |

SCREEN SPAN (WIDTH)

WIND PRESSURE

|       | 30 PSF  | 40 PSF  | 50 PSF  | 60 PSF  | 70 PSF  | 75 PSF  |
|-------|---------|---------|---------|---------|---------|---------|
| 24 FT | 6' o.c. | 4' o.c. | 3' o.c. | 3' o.c. | N/A     | N/A     |
| 23 FT | 6' o.c. | 4' o.c. | 3' o.c. | 3' o.c. | N/A     | N/A     |
| 22 FT | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | N/A     | N/A     |
| 21 FT | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | N/A     | N/A     |
| 20 FT | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | N/A     | N/A     |
| 19 FT | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | N/A     | N/A     |
| 18 FT | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | N/A     | N/A     |
| 17 FT | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | N/A     | N/A     |
| 16 FT | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | 3' o.c. | N/A     |
| 15 FT | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | 3' o.c. | N/A     |
| 14 FT | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | 3' o.c. | N/A     |
| 13 FT | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | 3' o.c. | N/A     |
| 12 FT | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | 3' o.c. | 3' o.c. |
| 11 FT | 6' o.c. | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | 3' o.c. |
| 10 FT | 6' o.c. | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | 3' o.c. |
| 9 FT  | 6' o.c. | 6' o.c. | 4' o.c. | 4' o.c. | 3' o.c. | 3' o.c. |
| 8 FT  | 6' o.c. | 6' o.c. | 6' o.c. | 4' o.c. | 4' o.c. | 4' o.c. |
| 7 FT  | 6' o.c. | 6' o.c. | 6' o.c. | 4' o.c. | 4' o.c. | 4' o.c. |

SCREEN SPAN (WIDTH)

FASTENER CHART FOR 1/4" METAL SCREW

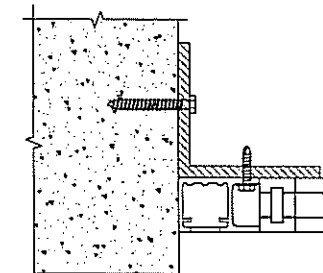
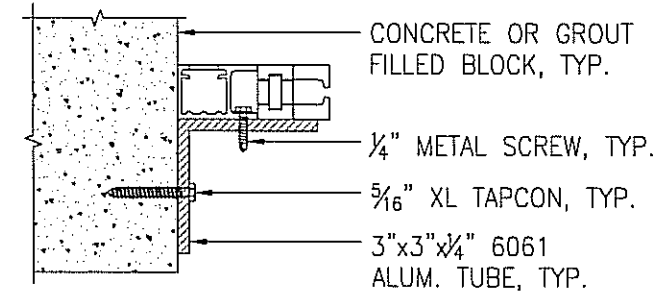
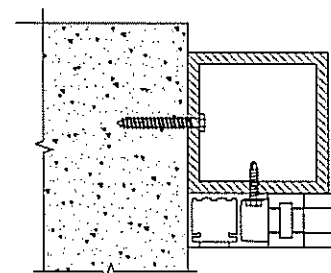
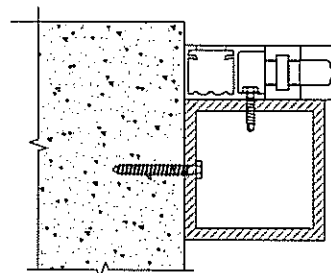
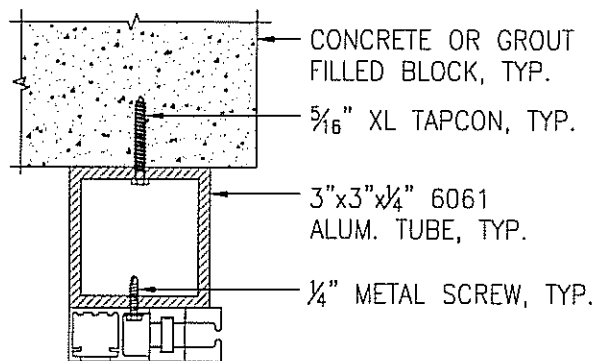
2

SCALE: NTS

FASTENER CHART FOR 5/16" TAPCON XL

1

SCALE: NTS



Project Name:

ADVANCED HURRICANE TECHNOLOGY, INC.

Drawn: DP  
 Checked: TB  
 REG File#: 09CS-0499  
 Scale: SEE SHEET  
 Date: 2011-02-15

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 David G. Karins, PE  
 FL. Registration # 52677

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Sheet No.:

S4.0