STORMBREAKER PLUS 300VL SERIES
EXTRUDED IMPACT RESISTANT VINYL MULLIONS WITH LARGE ALUMINUM REINFORCEMENT (HVHZ)

GENERAL NOTES:
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 6TH EDITION (2017) FLORIDA BUILDING CODE REQUIREMENTS INCLUDING HVHZ.
2. THIS MULLION IS ONLY VALID WHEN USED IN CONJUNCTION WITH APPLICABLE WINDOW SYSTEMS.
3. ALL WINDOWS USED WITH THIS MULLION SHALL BE QUALIFIED UNDER SEPARATE APPROVAL. ALL GLAZING PRODUCTS USED WITH THESE MULLIONS MUST MEET THE APPLICABLE FLORIDA BUILDING CODE REQUIREMENTS.
4. ADEQUACY OF EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND STEEL 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 INSTALLATION.
5. 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 INSTALLATION.
6. 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.
7. THIS PRODUCT DOES NOT REQUIRE AN EXTERNAL IMPACT PROTECTIVE SYSTEM IN WINDBORNE DEBRIS REGIONS, AND IS APPROVED FOR USE IN WIND ZONE 4.

TABLE OF CONTENTS
PAGE NO DESCRIPTION
1 GENERAL NOTES, PARTS LIST AND CROSS SECTIONS
2 ELEVATION AND DESIGN PRESSURE CHARTS
3 MULLION DETAILS & SILL CROSS SECTIONS
NOTE:
The pressure charts show the design pressures for the selected mullion span and panel width for achieving bending capacity, deflection and concentrated load limits specified in the Florida Building Code, 6th Ed. (2017) edition.

Adhere to fastening instructions provided in this document to achieve the tabulated design pressures.

DIRECTIONS:
Select the module width and mullion span from the chart to determine the allowable design pressure for the product. When panel sizes are not equal on both sizes of the mullion, use the larger of the panel widths from the chart.

THE LOWER OF THE WINDOW DESIGN PRESSURE (SEE SEPARATE APPROVAL) OR MULLION DESIGN PRESSURE SHALL APPLY TO THE ENTIRE ASSEMBLY.
STORMBREAKER PLUS 300VL SERIES
EXTRUDED IMPACT RESISTANT VINYL
MULLIONS WITH LARGE ALUMINUM
REINFORCEMENT (HVHZ)

ANCHOR NOTES:
1) To achieve the required design pressures, adhere to the fastener requirements below.
2) INSTALLATION TO WOOD (G=0.42 MIL):
Four (4) #10 wood screws for each base plate with min. 1-1/2" embedment and min. 7/8" wood edge distance.
3) INSTALLATION TO CONCRETE/MASONRY:
Two (2) screws for each base plate in outermost holes. In grout-filled OMU block (ASTM C-90 Compliant) use 1/4" Elco Ultracon with 1 3/8" min. embed. to block and 1" min. edge dist. with min. 1-1/4" embedment. In solid concrete (2.8 S ksi min.) use 3/16" ITW Tacon or 1/4" Elco Ultracons with 1 3/4" min. embed. to concrete, and 1 1/8" min. edge dist.

TABLE 1 (MULLION ATTACHING HARDWARE)

<table>
<thead>
<tr>
<th>RIVET</th>
<th>5/16&quot; DIA. STEEL RIVET WITH A GRIP LENGTH OF 50 MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>BARREL NUT</td>
<td>#10-24 OR #10-32 STAINLESS STEEL BARREL NUT</td>
</tr>
<tr>
<td></td>
<td>5/16&quot; O.D. X .22&quot; LG WITH 125 MIN ENGAGEMENT</td>
</tr>
</tbody>
</table>

VERIFIED:
DATE: 04-26-12

(REVISIONS:)
1. UPDATED DRAWINGS TO 2010 FBC
2. UPDATED CHARTS FOR NEW TESTING
3. UPDATED TYPICAL DETAIL FOR CHANGING MULLION FRAME
4. UPDATED DRAWINGS TO RMR ED (2014) FBC
5. UPDATED NOTE 1: SHEET 1 AND NOTE ON SHEET 2

L-BRACKET IS ATTACHED TO VINYL MULLION COVER & MULL REINFORCEMENT USING TWO (2) RIVETS OR BARREL NUTS, 2 ON EACH L-BRACKET REFER TO TABLE 1

PAK-WK SPACER 1" X 1/2" X 1/4" THK. MAX.
(4) REQ. (2) AT TOP AND (2) AT BOTTOM