



# NATIONAL CERTIFIED TESTING LABORATORIES

8350 PARKLINE BLVD/SUITE 320 • ORLANDO, FL 32809  
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April 12, 2007  
Top Down Siding LLC  
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## SUMMARY OF TESTING

**Test Method:** ASTM E330-02 "Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference."

On April 11, 2007 Top Down Siding LLC completed Structural testing at National Certified Testing Laboratories in Orlando, Florida. All tests were performed in full accordance with ASTM E 330-02 with no deviations.

## TEST RESULTS

**Specimen# 1 – Wood Siding Panel 96.0" x 48.0"**

<u>Title Of Test</u>	<u>Measured</u>	<u>Measured</u>
Uniform Load Structural - ASTM E330	Deflection	Permanent Set
Design Load Positive 75 psf = 171mph	0.235"	0.028"
Design Load Negative 90 psf = 187 mph	0.213"	0.004"

<u>Title Of Test</u>	<u>Measured</u>	<u>Measured</u>
Uniform Load Structural - ASTM E330	Deflection	Permanent Set
Full Test Load Positive 112.5 psf = 210 mph	0.382"	0.036"
Full Test Load Negative 135.0 psf = 230 mph	0.270"	0.022"

Allowable Deflection  $96"L / 175 = 0.548"$

Allowable Permanent Set  $96"L / .004\% = 0.384"$

Deflection and Permanent Set were recorded at mid-span of the Panel

Specimen Passed both Deflection and Permanent Set

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*Christopher Bennett*

Christopher Bennett  
Division Manager



## Evaluated Test Wall Specification

Test Wall was constructed to a height of 4' and a length of 8'. Top/Bottom plates and studs consisted of kiln dried #2 spruce 2x4, typ. studs were laid out at 16" o.c. attached at top and bottom with two # 8 x 3 1/2" coarse thread drywall type screws. No additional clips were used. Top "starter strip" was attached using Elmers (ultimate) polyurethane glue with 1 5/8" x #8 coarse thread screws. Starter strip screws were only fastened to studs @ 16" o.c., seven full coarses and a partial bottom coarse were to follow. Full coarses total profile measured 7 3/8". The exposed face after Trap-Loc was 6". Top strip and all coarses were manufactured using sapele wood. Method of attachment was as follows: coarses were attached using 1 5/8" x #8 coarse thread screws through their nailing flange directly to studs @ 16" o.c. this method was used from the center stud to the right side of the wall. Starting with the first stud left of center and continuing for a total of three studs method of attachment was 1 1/2" x 1/4 crown 18 gauge staples. Throughout the field of installation three vertical butt joints were added. These joints were placed so as to intentionally "not" break on studs. They would have to rely on the Trap-Loc from the coarse above and below to acquire their holding strength. No nails from the face or otherwise were applied to the butt joints. Noting there was nothing backing up the joint for which attachment would have been possible. The last coarse was ripped to a width of 3 1/2" revealed. It was attached with a continuous bead of 3m 5200 marine adhesive sealant. In addition, 2" stainless steel finish nails were applied to the face at 16" o.c. directly to the studs. This completed the installation.

Eric Swanson  
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TDS, L.L.C