

# FULL-SCALE PERFORMANCE TESTING OF WALLS SHEATHED WITH NORBORD'S WINDSTORM OSB PANELS

## Tension Test (ASTM E 72)



- Simulates uplift load due to hurricane winds
- 8d common sheathing nails
- Tested bottom plate sheathing nail spacing as close as 2.5 inches o.c. (single row)
- 3" x 3" x 1/4" plate washers installed



- Tested to capacity

### RESULTS

- Safety factor over 3.9 relative to design values based on normal load duration
- Consistent with the National Design Specification (NDS) for Wood Construction for design of nails and SSTD 10-99 for design of wall systems\*

## Shear Wall Test (ASTM E 564)



- Simulates lateral load due to hurricane winds
- 8d common sheathing nails
- Tested bottom plate sheathing nail spacing as close as 2.5 inches o.c. (single row)
- Tested to capacity

### RESULTS

- Excellent agreement with published nominal unit shear values
- Consistent with SSTD 10-99 for design of wall systems\*

\* Verification with design standards is limited to the above specified system configurations.

FOR FULL TESTING DETAILS SEE NAHB RESEARCH CENTER'S TEST REPORT AT  
[www.nahbrc.org/Test\\_Reports](http://www.nahbrc.org/Test_Reports)