

# CONSTRUCTION TESTING CORPORATION

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Report No: 02-024

29 August 2002

Test Dates: 30 July, 8 & 9 August 2002

## SUMMARY : BOARD & BATTEN COLONIAL SHUTTERS

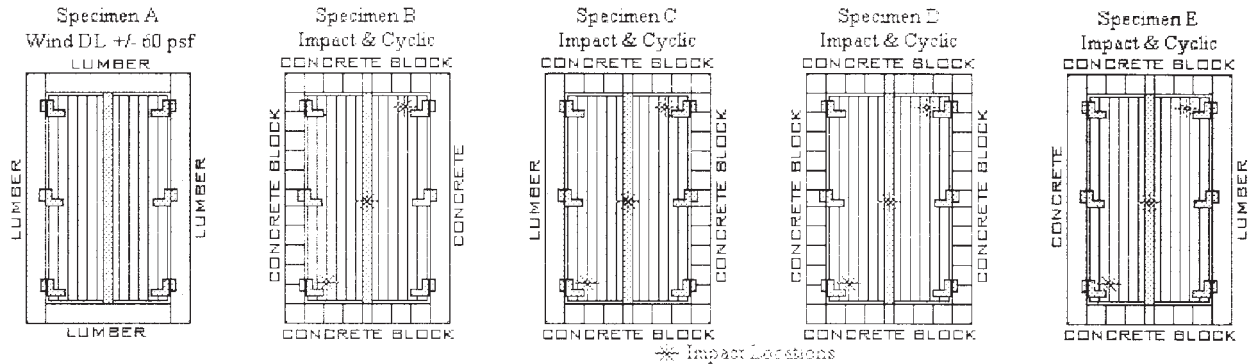
Client:

*Atlantic Shutter Systems*

3239 HWY 301 NORTH

LATTA, SC 29565

Phone: 877-437-0608 Fax: 843-752-0111



**WIND LOADS :** Specimen A was wind loaded in accordance with ASTM E 330-97. Positive wind loading verified a **Design Load of 60 PSF** and was discontinued to preserve the specimen for negative wind loads. Negative wind loading verified a **Design Load of -60 PSF**, but loading was continued until the specimen's hinges were showing distress.

**IMPACTS :** Specimen B1, B2, B3, C1, C2, C3, D1, D2, D3, E1, E2 & E3 were Impacted in accordance with ASTM E 1886-97 per specification ASTM E 1996-02 at **Missile Level D**. None failed as a result of impacts.

**CYCLIC WIND LOADS :** Specimen B, C, D & E were subjected to cyclic wind loads in accordance with ASTM E 1886-97 per specification ASTM E 1996-02, **Table 1**. All specimen successfully completed the cyclic wind loads to verified a **Design Load of +/- 60 PSF**.

**CONCLUSION:** Following testing all specimen were disassembled. No failures were observed in the shutters, the fastenings or anchorages, except as noted in specimen deliberately tested to failure, descriptions of these follow the relevant data. The shutter product here in and in the accompanying drawings complies with **Standard Specification for Performance of... Storm Shutters Impacted by Windborne Debris in Hurricanes** for a **Design Load of +/- 60 PSF at Missile Level D**.

Respectfully submitted,

CONSTRUCTION TESTING CORPORATION

(Miami-Dade Certification # 01-0212.01)

(SBCCI Certification # TL-9741)

Report by George Dotzler

Test witnessed & report reviewed

By Yamil G. Kuri, P.E.:

SEP 05 2002

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