

Report No: 02-042

21 December 2002

Test Dates: 23 & 24 October, 1 & 2 November 2002

## SUMMARY OF TESTING : LOUVERED BAHAMA SHUTTERS

Client:

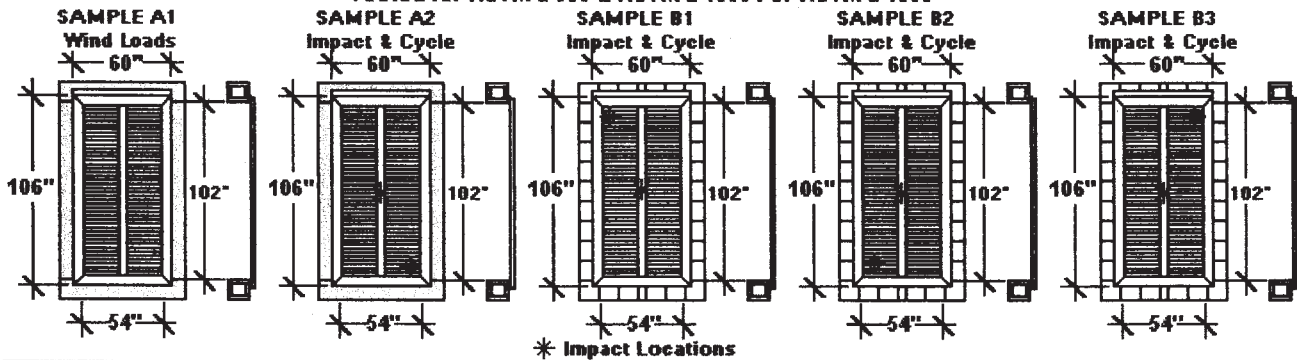
*Atlantic Shutter Systems*

3239 HWY 301 NORTH  
LATTA, SC 29565

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

### ATLANTIC SHUTTER SYSTEMS : LOUVERED BAHAMA SHUTTER

Tested for ASTM E 330 & ASTM E 1886 Per ASTM E 1996



**WIND LOADS :** Specimen A1 was wind loaded in accordance with ASTM E 330-97. Positive wind loading verified a Design Load of 60.0 PSF and was discontinued to preserve the specimen for negative wind loads. Negative wind loading verified a Design Load of -60.0 PSF, loading was continued until the specimen's anchorages failed (DL +/- 62.4 PSF, proven but not taken advantage of during the required cyclic wind load testing).

**IMPACTS :** Specimen A2, B1, B2 & B3 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 A2, B1, B2 & B3 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 # 91-0212.01)  
(SBCCI Certification # TL-9741)

Report by George Dotzler:

Test witnessed & report reviewed  
By Yamil G. Kuri, P.E.:

DEC 26 2002  
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