



HURRICANE TEST LABORATORY, INC.

Windows • Doors • Store-Fronts • Curtain Walls • Shutters • EIFS • Metal Building Systems

MISSILE IMPACT & CYCLIC LOAD TEST REPORT - WALL PANEL

Test Date: 08/13/98

Job Tracking #: 0168-0808-98

Specimen #: 2

Page #: 1

CUSTOMER INFORMATION

- 1.0 NAME OF APPLICANT: DROJOs.Inc Green Building Systems
P.O Box 7238
West Palm Beach, FL 33405
- 2.0 CONTACT PERSON: Adam Rish
- 3.0 HTL NOTIFICATION #: HTL 98072
- 4.0 HTL LAB CERTIFICATION #: 98-0127.02

PRODUCT DESCRIPTION

5.0 DESCRIPTION OF TESTED UNITS:

- 5.1 Model Designation: DROJOs.Inc SIPs Hurricane Panel
- 5.2 Overall Size: 96-in. (w) x 96-in. (h) [Stud Wall Assembly]
- 5.3 General Description: Each sample consisted of two (2), 48-in. x 96-in. wall panels – that were mechanically attached to each other along their long dimension. The panels were secured into the provided opening via two (2), 5-1/2-in. x 3/4-in. x 18 Ga. galvanized (ASTM G90) tracks – one at the top and the other at the bottom. Each individual wall panel consisted of three primary components:
- Exterior Metal Frame
 - Interior Metal Frame
 - Modified Expanded Polystyrene (EPS) Infill

Following is a brief description of each of the primary components used in the fabrication of each individual wall panel.

- 5.3.1 **Exterior Metal Frame:** The metal frame used on the exterior of each panel was fabricated from three (3), 3-1/2-in. x 3/4-in. x 24 Ga. galvanized (ASTM G90) "C" channel studs, one (1), 4-1/4-in. x 3/4-in. x 24 Ga. galvanized (ASTM G90) "L" angle stud and two (2), 2-3/4-in. x 3/4-in. x 24 Ga. galvanized (ASTM G90) "END" angles – one (1) at the top and one (1) at the bottom. Intermediate vertical studs contained in this exterior wall frame were located 16-in. on center. There were two (2) additional 3-1/2-in. x 3/4-in. x 24 Ga. galvanized (ASTM G90) filler "C" channel studs inserted between each intermediate vertical stud. These filler studs were located such that the clear distance between adjacent studs was a maximum of 1-in. Each vertical stud was secured to the top and bottom "END" angle member using one (1), #8 x 1/2-in. Pan Head, Phillips Drive, self-drilling screw, self tapping screw. It should be noted that all of the vertical members used in this exterior frame were oriented with their broader dimension parallel to the exterior surface of the wall panel.
- 5.3.2 **Interior Metal Frame:** The metal frame used on the interior of each panel was fabricated from three (3), 3-1/2-in. x 3/4-in. x 24 Ga. galvanized (ASTM G90) "C" channel studs, one (1), 4-1/4-in. x 3/4-in. x 24 Ga. galvanized (ASTM G90) "L" angle stud and two (2), 2-3/4-in. x 3/4-in. x 24 Ga. galvanized (ASTM G90) "END" angles – one (1) at the top and one (1) at the bottom. Intermediate vertical studs contained in this exterior wall frame were located 16-in. on center. Each vertical

ENGINEER OF RECORD

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