

PRESCRIBED TEST METHOD	EXPLANATION OF TEST OR APPROVAL
Florida Product Approval - Structural Wall Approval Code: FL # 13381	The PFF structural panel has been evaluated & approved for structural use in locations adhering to the 2007 Florida Building Code except for those sections of the code relating to HVHZ
Florida Product Approval - Roof Deck Approval Code: FL # 13379	The PFF panel has been evaluated & approved for use in locations adhering to the 2007 Florida Building Code except for those sections of the code pertaining to the HVHZ
ASTM E1996-02	The PFF panel has been evaluated for use in actual hurricane conditions with regards to windborne debris
ASTM E1886-02	The PFF panel has been evaluated for durability after multiple Missile Impacts and many hours of wind pressure differential cycling.....repeated bending of the panel in opposing directions
SBCCI / SSTD 12-99	Testing for Non-porous Impact Protective Systems - Curtain Walls Water resistance of the PFF Panel at the actual site of missile impact. Required by the State of Florida for Educational Facilities.
ASTM E1592 - 01	Standard test method for the structural performance of sheet metal Roof and Siding Systems by uniform static air pressure difference - Panel is observed for deflections and deformations
ASTM E108 - 04 Fire Testing	Test Method to determine the performance for SIP roof coverings without drywall. PFF passed all criteria associated with this test and achieved a Class "B" Fire Rated Roofing Assembly
UL 1715 (UBC 26 -3) Fire Testing	Test method to determine the performance of a prefabricated foam core wall panel assembly with 26 gauge steel skins faced with 1/2" thick regular gypsum. PFF panels passed all test criteria
ASTM E90	Test method to determine sound transmission loss. The 6" thick PFF panel completed all testing protocol following ASTM E413 and proved to have a Sound Transmission Classification of 20.
AC 05 ICC-ES Panel Adhesive Test	Accelerated Age Testing protocol designed to determine the aging expectations for the composite PFF panel, EPS foam core and the Voracor XR1300 2-part thermosetting adhesive system
ASTM E 72-02 Racking & Shear Wall Load with and without Corner Condition	Testing of the lateral force exerted on wall panels. Walls as components of the lateral force resisting system of a building are defined as shear walls. When resisting wind or an earthquake, shear walls act as vertical cantilevers transferring the lateral forces from the upper parts of the building to the foundation
ASTM C 1363 - 05 Thermal Performance	Standard Test method for the Thermal Performance of Building assemblies by means of a Hot Box apparatus
ASTM E119 - 05a Unsymmetrical Load-Bearing Wall Fire Tests of Building Construction & Materials	Test method to determine the performance of a foam core wall panel assembly with 26 gauge steel skins faced with 2 layers of 5/8" thick Type "X" gypsum to the exposed side & placed under limited load of 1299 LBS
Transverse Load Testing ICC-ES AC04 Includes Simulated Door & Window Openings	Standard Test method to evaluate the deflection, flexural strength and stiffness of the wall panels to simulate wind and structural loads
Axial Load Testing ICC-ES AC04	Standard Test method to evaluate the axial compression strength of the wall panels with a vertical load applied
Concentrated Load Testing ICC-ES AC04	Standard Test method to evaluate the punching shear resistance of the panel facing when used as a roof or floor panel
Bond Strength Testing ICC-ES AC04	Standard Test method to determine the adhesive bond strength between the EPS core and the metal facings on the PFF composite structural insulated panel
Core Shear Modulus ICC-ES AC 04	Standard Test method to determine the shear strength properties between the EPS core and the metal facings on the PFF composite structural insulated panel
Fastener Withdrawal Tests ICC-ES AC04	Standard Test method to determine the resistance to direct withdrawal of screws from the PFF composite structural insulated panel
Connection Load Test ICC-ES AC04	Standard Test method to simulate the connection of a PFF roof panel to PFF wall panel and then evaluate the uplift strength of the connection
Tensile Test of Steel Coupons ASTM A 370 - 05	Standard Test method to determine and confirm the tensile & yield strength of the Galvalume steel materials which are used as facings on the PFF structural insulated panel

## ADDITIONAL COMMENTS

The EPS foam core used in our panel is treated with a Borate additive to resist termites

PFF offers a standard 60 month warranty covering panel defects and workmanship

PFF recycles 100% of all the foam & metal waste produced during our manufacturing process

Structural testing of our panel was completed in 2009 at Architectural Testing, Inc. in York, PA

Testing of panels was done in accordance with ICC-ES AC04 criteria ICC - ES AC04 ACCEPTANCE CRITERIA for SANDWICH PANELS

PFF is currently working through the Miami-Dade Certification program and should have full NOA Miami-Dade Accreditation by September 2011