



Testing Data



STONEPLY
real stone real strong real thin



SSI is very comfortable with stating that these panels exceed any building code requirements for bond strength, tensile strength, flexural strength, or horizontal shear strength required by the code.

Michael Stenstrom
Professional Engineer
Stenstrom-Schneider, Inc.

StonePly: Tested and Proven

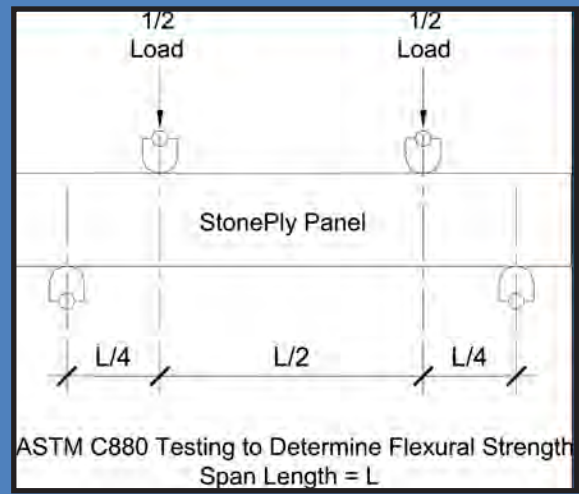
In addition to StonePly's successful track record on projects around the world, StonePly has been extensively tested by independent laboratories, engineers, and consultants.

Hurricane Testing

Hurricane wind load and missile impact tests in accordance with South Florida Building Code and SBCC1 Impact requirements.

Test procedures described in "ASTM 330-02 Standard Test Method for Structural Performance of Exterior Curtain Walls by Uniform Static Air Pressure Deflection" were used to test the performance of StonePly at wind speeds up to 187 mph. StonePly was tested under uniform static air pressure ranging from 70 psf to 160 psf to test structural performance. FEMA rates a category 5 hurricane at 100 psf. The stone panel was attached to 2 x 4 metal studs using self tapping screws through the stud into the aluminum honeycomb backing. The test showed deflection was minimal and there was no attachment or panel failure.

Test procedures described in "ASTM E1996-05B Specifications for Performance of Impact Protective Systems Impacted by Windborne



Flexural Strength Testing of Stoneply

Debris in Hurricanes" were used to determine the performance of exterior cladding when subjected to flying debris. Testing was performed on three separate StonePly panels attached to 2 x 4 metal studs using self tapping screws. A weighted 2 x 4 was fired at the StonePly panel at 50 fps. The tests showed there was no penetration to the panel where the impacts occurred.





Hurricane force winds are no match for StonePly. Testing involved weighted 2x4's fired at StonePly panels.

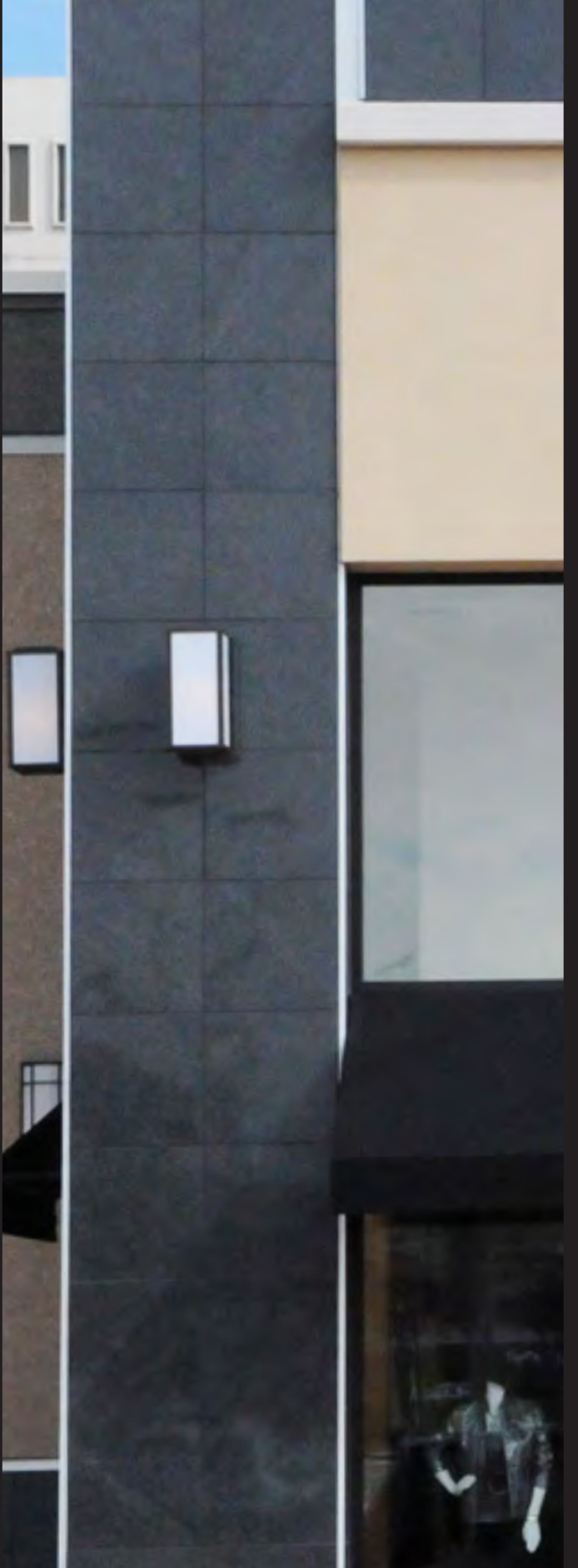


Wind Pressure Cycling

After missile impact tests, positive and negative uniform wind load cycles at ± 70 psf were applied to three separate StonePly panels that were attached to 2 x 4 metal studs using self tapping screws through the stud into the aluminum honeycomb backing. After 4,500 positive/negative cycles, the tests showed that StonePly successfully withstood the repetitions without failure.

Air and Water Infiltration

Air infiltration tests in accordance with ASTM E 283-73 and water penetration tests in accordance with ASTM E 331-70 were performed. The test showed that the StonePly stone panels passed without failure.



For more information and specifications on StonePly contact by email at info@stoneply.com or by phone (903) 454-4630.

Visit our website: www.stoneply.com

REFERENCES

Independent Third Party Testing Labs

- [1] Dallas Laboratories, Dallas, TX, Report #42135
- [2] Construction Consulting Laboratories, International, Carrollton, TX, Report #CCLI-09-206
- [3] Huntsman International, LLC, Woodlands, TX, Report #7283
- [4] Stenstrom-Schneider, Inc, Dallas, TX, Engineers Review

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