

Testing and Approvals

The strength and durability of the DECRA® Roofing System has been thoroughly tested. DECRA® Roofing panels have resisted heavy rains, high winds, earthquakes, fire, hail, and other harsh environmental extremes. Performance of the DECRA® Roofing System has been evaluated by independent laboratories worldwide.

Weathering Resistance

- Accelerated Weathering Test to American Society for Testing and Materials standard (ASTM) G26.
- Accelerated Weathering Test to ASTM G90 for Emmaqua machines, Arizona.
- Freeze Thaw Cycle Testing - by Rohm and Haas Research Laboratories, Pennsylvania.

Weather Security

- Wind and Wind Driven Rain Resistance to Dade County Protocol PA100.
- Wind Driven Rain and Wind Resistance to ICBO Acceptance Criteria for Special Roofing Systems.
- Low Speed Dynamic Rain Penetration Test - by the Experimental Building Station, Australia.

Hurricane/Cyclone Wind Resistance

- High Velocity Developmental Wind Test (130 MPH Air Velocity with Gusts to 150 MPH) - by The Center for Applied Engineering, Florida.
- Cyclone Loading Test to the Wind Loading Code, Australian Standard 1170, Cyclone Testing Station, Australia.
- Roof Deck Constructions and Roofing Systems Uplift Resistance, UL580 and UL 1897 by Underwriters Laboratories Inc. (UL), Illinois.

Corrosion Resistance

- Salt/Fog Test to ASTM B117.
- Atmospheric Corrosion Resistance - by BIEC International, USA.
- 100% Relative Humidity Test to ASTM D2247.

Hail/Impact Resistance

- Hail Resistance Test to NBS 23 - by Terralab Engineers Intl., Utah.
- Impact Resistance to UL 2218 - Rated Class 4 by Underwriters Laboratories Inc. (UL), Illinois.



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Load Tests

- Concentrated Load/Walkability Test to ICBO Acceptance Criteria for Special Roofing Systems.
- Concentrated Force on Roofing Tiles to Australian Standard 1562. Rule 5.2 - by Cyclone Testing Station, Australia.
- Traffic Load Test CCMC per CCMC criteria.
- Uniform (Snow Load Test) Load Test per CCMC.

Coating Strength

- Coating Flexibility Test, Designation: ASTM D 522 - 93a.
- Reverse Impact Test, Designation: ASTM D 2794 - 93.

Drinking Water Quality

- Rain Water Run-off to the lower limits of the World Health Organization's standards - by Water Science Laboratories, Australia.

Fire Resistance

- Class A, B, & C rated under ASTM E108 (UL790) when applied in accordance with instructions.
- Early Fire Hazard Test to Australian Standard 1530, Part 3 - by Building Research Association of New Zealand.

Shear and Seismic Resistance

- Racking Test to ASTM E72 - by United States Testing Company, California.
- Performance of Roofing Materials During the 1994 Northridge earthquake - by The McMullen Co., California.

DECRA Roofing Systems Maintains Appraisal Certificates with the Following:

- International Conference of Building Officials Evaluation Service, Inc.
- Underwriters Laboratories
- Underwriters Laboratories of Canada
- Metropolitan Dade County, Florida
- City of Los Angeles Department of Building and Safety
- CCMC Canadian Construction Material Center
- Texas Department of Insurance

