

13 Physical Properties Tests Clearly Separate DECRA from the Competition

Stone-coated steel roofing systems are largely known for their strong performance in passing national building code compliance tests involving primarily wind and fire to satisfy U.S. International Residential Code (IRC) and International Building Code (IBC) requirements. DECRA goes one step further – undertaking extensive DECRA roof panel physical properties testing – going well beyond core U.S. national building code minimum required test standards.

DECRA prescribes to the following physical properties test methodology, conducted at independent laboratories, for its stone coated steel roof panels:

Roof Panels Using Aluminum-Zinc Alloy Coated Steel Base Material

Test Procedure	Testing Method	DECRA Panel Test Result
Material Thickness	Micrometer or Vernier Caliper	Pass
Aluminum-Zinc Alloy Thickness	ASTM A653	Pass
Coating Quality	CAN/CGSB-93.3 Section 6.2	Pass
Coating Thickness	AN/CGSB-93.3 Section 6.2 Thickness measured per ASTM D1005	Pass
Film Adhesion	CAN/CGSB-93.3 Section 6.5.1	Pass
Hardness	CAN/CGSB-93.3 Section 6.7.1 Test per ASTM D3363	Pass
Flexibility	CAN/CGSB-93.3 Section 6.8	Pass
Humidity Resistance	ASTM D2247	Pass
Salt Spray Resistance	ASTM B117	Pass
Durability	CAN/CGSB-93.3 Test per ASTM G155	Pass
Granular Mineral Surfacing – Loss of Adhesion	ASTM D4977	Pass
Traffic Load	ASTM E661	Pass
Uniform Load	APA Test S-2 in APA PRP-108	Pass

Test Standards

APA PRP-108: American Plywood Association – Engineered Wood Systems (APA-EWS)

ASTM: American Society for Testing and Materials International

CAN/CGSB: Canadian General Standards Board (Version 93.3: Prefinished Galvanized and Aluminum-Zinc Alloy Steel Sheet)

Physical Properties Test Summary

DECRA Roofing Systems manufactures top-quality stone coated steel roofing, backed by independent laboratory tests that verify performance standards to withstand long term weather exposure, even in the harshest climates. DECRA stands well ahead of the competition when committing to extensive physical properties testing. The decision to purchase a stone coated steel roof is an important investment – protecting both life and property. Trust DECRA to a higher standard of performance – guaranteed.

Test Lab Photos

