

PANEL QUALIFICATION TESTS FOR CERTIFICATION TESTING TO ICC-ES AC307

PERFORMANCE CRITERIA	TEST	EXPOSURE CONDITION	SECTION & STANDARD	AC307
Physical Properties	Dimensional Tolerances and Squareness of Panels	Dry	5.2.1 & 6.3.3.1 of PS 2-92	3.2.2
	Linear Expansion	ODVPS	5.5.2.1 of PS 2-92	
	Stability		5.5.2.2 of PS 2-92	
Structural Performance	Concentrated Static & Impact Loads (Roof-24)	Dry & Wet	Table 1 of AC307	3.2.1
	Uniform Loads (Roof-24)	Dry		
	Wall Racking	Dry		
	Nail Lateral Resistance	Dry & Wet/Re-dry		
	Nail Withdrawal	Dry & Wet/redry		
	Dowel Bearing Strength	Dry	ASTM D 5764	3.2.1.4
	Planar Shear		ASTM D 2718 (Method A or B)	3.2.1.1
	Shear-through-thickness		ASTM D 2719	3.2.1.2
	Flexural Strength & Stiffness		ASTM D 3043 (Methods C & D)	3.2.1.3
Bond Durability	Exposure 1 (1" x 5")	Six-Cycle	5.5.3.1 of PS 2-92	3.2.3
	Exposure 1 (SSB)	Single-Cycle	5.3.3.1d of PS 2-04	
Adhesive Durability	Resistance to Elevated Temperature		5.5.3.4 of PS 2-92	3.2.6
	Bacteria Resistance	Exposed	5.5.3.5 of PS 2-92	3.2.7
	Thickness Swell	24-Hr. Soak	5.3.4 of CSA O437.1 & Table 4 of O437	3.2.9
Panel Durability	Fungal Decay Resistance		AWPA E10	3.2.4
	Mold Growth Resistance		ASTM D 3273	3.2.5
	Termite Resistance		ASTM D 3345	3.4
	Duration of Load & Creep		ASTM D 6815	3.2.8
	Racking Shear		AC269	3.5
	Flame Spread & Smoke-developed Index		IBC Section 803/ASTM E 84	3.2.10
	Fire Performance		ASTM E 1623 ASTM C 177 ASTM E 108	3.6