

Table I
Tensile Strength and Elongation at Break for WRB Film

	Avg. Film Thickness (mils)	Tensile Strength @ Break (PSI)	Elongation @ Break (%)
Temperature:	75° F.		
Sample Identity			
MOISTUREGUARD	11	65	375

	Avg. Film Thickness (mils)	Tensile Strength @ Break (PSI)	Elongation @ Break (%)
Temperature:	0° F.		
Sample Identity			
MOISTUREGUARD	11	313	89

Note:
 Values reported are the average of 10 samples run per material.

Table II
Water Vapor Transmission for WRB Film
(ASTM E-96, Water Method)

Sample Identity	Film Thickness (mils)	Perms (grains of water vapor/hour/ft ² /inch of Mercury pressure differential)
MOISTUREGUARD	11	12.6

Note:
 Values reported are the average of three samples per material. Test conditions: 75°F./ 50% R.H. in a constant temperature/humidity room, and assuming 100% R.H. inside sealed test can assembly.

Table III
Water Absorbency of WRB Film
(% Weight Gain Due to Water Pick-Up)

		Water Absorbency (total weight of water absorbed in %)					
Water Immersion Time, hours:		1	2	4	8	24	48
Sample Identity	Film Thickness (mils)						
MOISTUREGUARD	11	20.9	21.2	18.7	18.1	17.3	16.6

Note:
 Values reported are the average of 3 samples per material.

Table IV
Tensile Bond Adhesion Strength of WRB to Selected Substrates

Adhesive Strength to Substrate(PSI)			
Substrate:	DGG	Plywood	OSB
Sample Identity			
MOISTUREGUARD	17 (fails in DGG)	85 (fails in plywood)	54 (fails in OSB)

Note:

Values reported are the average of three samples per material.

Table V
Exposure to High Temperature and High Humidity:
ICBO AC-24 Acceptance Criteria
(Composite Samples)

14 Day Exposure to 100°F. and 100% Relative Humidity			
Test Results:	Pass - Fail		
Substrates:	DGG	Plywood	OSB
Sample Identity			
MOISTUREGUARD	Pass	Pass	Pass

Note:

“Pass” denotes no deleterious effects to the WRB coating surface after 14 days exposure of the composite panels to 100°F. and 100% Relative Humidity.

5 samples run per treatment.

Table VI
Freeze/Thaw Cycling: ICBO AC-24 Acceptance Criteria
(Composite Samples)

Test Results:	Pass - Fail		
Substrates:	DGG	Plywood	OSB
Sample Identity			
MOISTUREGUARD	Pass	Pass	Fail

Note:

“Pass” denotes exposure to 10 F/T cycles without any deleterious effects to the WRB coating on the composite panel. 5 samples run per treatment.

One complete freeze/thaw cycle consisted of subjecting the composite panels (substrate sheathing with a butt joint, joint compound, reinforcing mesh, and WRB topcoat) to a minimum of 16 hours in a 120°F. oven, removing samples from the oven and placing them coated side down in a water bath for 8 hours, followed by freezing the wet panels for 16 hours, then allowing the panels to thaw-out at room temperature and then visually examining the WRB coatings for any deleterious effects.