

ASTM SUMMARY RESULTS

	TEST	STANDARD METHOD	DETERMINATION	UNIT	RESULT
PHYSICAL PROPERTIES	Nominal Size and Thickness	ASTM C499	Lenght variation	in	0,612
			Thickness variation	in	0,293
	Edge Warpage and Diagonal Warpage	ASTM C485	Edge warpage	%	0,05
			Diagonal warpage	%	0,086
	Wedging	ASTM C502	Wedging	%	-0,029
	Water absorption	ASTM C373	Water absorption	%	0,2
			Bulk Density	g/cm3	2,4
			Apparent porosity	%	0,4
			Apparent Specific Gravity		2,4
	Color Uniformity	ASTM C609	Average LRV (Light reflectance value)		44
			Color Difference		0,488
Crazing Resistance	ASTM C424	Crazing resistance at max. 250psi		Pass	
Breaking Strength	ASTM C648	Peak load	lbf	289,3	
Resistance to Freeze / Thaw Cycling	ASTM C1026	Resistance after 300 cycles		No damage	
DURABILITY TESTING	Temperature Cycling	ASTM C880	VM System: resistance after 25 cycles		No damage
			Strongfix system: resistance after 25 cycles		No damage
	Flexural Strength	ASTM C880	Condition: dry	psi	5887
			Condition: wet	psi	5250
STRUCTURAL PERFORMANCE TESTING	Shear (Gravity) Anchor-to-Panel load	ASTM E330	VM system - Allowable load	lbf	427,38
			Strongfix system - Allowable load	lbf	606,64
	Transverse Wind Load (Anchor-to-panel load)	ASTM E330	VM system - Allowable load	lbf	53,01
			Strongfix system - Allowable load	lbf	88,92
	Transverse Wind Load (full system)	ASTM E330	VM system - Allowable load (negative)	psf	16,4
			VM system - Allowable load (positive)	psf	11,3
			Strongfix system - Allowable load (negative)	psf	25,4
			Strongfix system - Allowable load (positive)	psf	35,8