

Property	Code/Method	Notes	Horizon	Fiberon Deck Boards
Weight	n/a	FC lab standard testing	2.287 lb/ft GV / 2.35 lb/ft SE	2.43 lb/ft
Specific Gravity	ASTM D2395		est 1.11	1,11
Tensile Strength	ASTM D198		n/a	n/a
Shear Strength	ASTM D143		n/a	n/a
MOE	ASTM D6109	FC lab standard testing	477,019 psi	477,019 psi
MOE @ 125F	ASTM D6109		328,992 psi	328,992 psi
MOE @ -20F	ASTM D6109		681,538 psi	681,538 psi
MOR	ASTM D6109	FC lab standard testing	3451 psi	3451 psi
MOR @ 125F	ASTM D6109		2508 psi	2508 psi
MOR @ -20F	ASTM D6109		4737 psi	4737 psi
Uplift Resistance	ASTM DE330	AC174	100 lbs/sqft (16" span)	100 lbs/sqft (16" span)
Slip Resistance (COF) (0 F)	ASTM D2394		0.53 dry / 0.50 wet (non-directional averages)	0 deg: 0.63 dry/0.95 wet
Slip Resistance (COF) (90F)	ASTM D2394		0.53 dry / 0.50 wet (non-directional averages)	90 deg: 0.80 dry/1.19 wet
Impact Resistance	ASTM D4495	ASTM D256	n/a	Gray - RT: 0.362 ft-lb/in
Impact Resistance		ASTM D256	n/a	Gray - 30F: 0.424 ft-lb/in
Impact Resistance		ASTM D256	n/a	Cedar - RT: 0508 ft-lb/in
Heat Resistance	AAMA 306-01		n/a	n/a
Stair Tread Load	AC174	300lb loading over 2 span min	Max design load deflection = 0.090"; meets recovery requirements of at least 75%	Max design load deflection = 0.090"; meets recovery requirements of at least 75%
Creep Relaxation	AC174	200 psf uniform loading	meets recovery requirements	meets recovery requirements
Freeze - Thaw	AC174		n/a	n/a
Fungus Decay Resistance	AC174		meets code requirements	meets code requirements
Temperature Effect	AC174		meets code requirements	meets code requirements
Moisture Effect	AC174		meets code requirements	meets code requirements
Abrasion Resistance	ASTM D4060		(DuPont) in progress; BASF testing w/samples supplied 10/16	samples supplied to DuPont 9/15/08
Coefficient of Linear Thermal Expansion	ASTM D696		Gray: Ave: 1.58x10-5 (1/degF)	Gray: Ave: 1.58x10-5 (1/degF)
	ASTM D696		n/a	Cedar: Ave: 1.51x10-5 (1/degF)
Flame Spread Index (FSI)	ASTM E84		Class B - 70	Class B - 75
Smoke Density Index (SDI)	ASTM E84		meets or exceeds requirement	meets or exceeds requirement

Property	Code/Method	Notes	Horizon	Fiberon Deck Boards
SFM Part A Underdeck Flame	SFM 12-7A-4		failed peak heat release	Passes
SFM Part B Burning Brand	SFM 12-7A-4		Passed Cal State Part B, Class A (only w/APP additive included)	Fails
Self Ignition Temperature	ASTM D1929-96	wood ranges from 572F-752F	n/a	820F
Flash Ignition Temperature	ASTM D1929-96	wood ranges from 518F-878F	n/a	750F
Predicted Heat Build-up	WI-0360		n/a	n/a
Adherence of Cap Stock: BASF	Deflesko Adhesion Tester	BASF: results were consistent with previous development	BASF: 8723A: ave 670; 8723B: ave 647; Unlabeled: ave 620	n/a
Adherence of Cap Stock: DuPont	researching	Samples sent prior to 8/1/08	Complete	n/a
Staining Resistance	ASTM D3023	Martin Laboratories	highly stain resistant	n/a
Scratch Resistance	ASTM 7027-05	Martin Laboratories	highly scratch resistant	n/a
QUV Testing: Color Retention of Cap Stock (delta E)	ASTM G154	FC lab: 3000 hour completed; ASTM G154 started at Martin	highly fade resistant	n/a
Static Electrical charge	researching		(DuPont) Complete	n/a
Water Absorption	ASTM D1037	FC lab standard testing	0.8% - maximum weight gain	0.8% - maximum weight gain
Screw & Nailability	ASTM 1761	Mechanical Fastening	Nail: 6d Bright Common: 126 lbs	Nail: 6d Bright Common: 126 lbs
Screw & Nailability	ASTM 1761	Mechanical Fastening	Nail: 6d Ring Shank: 516 lbs	Nail: 6d Ring Shank: 516 lbs
Screw & Nailability	ASTM 1761	Mechanical Fastening	Nail: 8d Spiral Shank: 385 lbs	Nail: 8d Spiral Shank: 385 lbs
Screw & Nailability	ASTM 1761	Mechanical Fastening	Nail: 8d Common: 271 lbs	Nail: 8d Common: 271 lbs
Screw & Nailability	ASTM 1761	Mechanical Fastening	Screw: #6: 1207 lbs	Screw: #6: 1207 lbs
Hardness Test - RT	ASTM D143	Impact?	Average Value 2179 lbs	Average Value 2179 lbs
Uniform Live Load Rating (16" span)	AC174	100 psf live load	100 lbs/sqft (16" span)	100 lbs/sqft (16" span)
Uniform Live Load - Stairs	AC174	300 lb loading	300 lbs w/max 12" span	300 lbs w/max 12" span