

# TECHNICAL INFORMATION

MoistureShield® composite decking products are covered by PFS TECO RR-110, RR-110 CAN, RR-111, CCMC-1391-R and VAR-1015 from the International Code Council - Evaluation Service.



Version Date: July 19, 2021

Desc	Test Method	IMPERIAL MEASUREMENTS				METRIC MEASUREMENTS			
		Vision	Meridian	Elevate	Vantage	Vision	Meridian	Elevate	Vantage
Approximate Weight per Length	1x5.4 Groove Profile	2.33 lb/ft	2.53 lb/ft	1.91 lb/ft	2.26 lb/ft	3.47 kg/m	3.77 kg/m	2.84 kg/m	3.36 kg/m
	Fascia Profile	3.30 lb/ft	3.68 lb/ft	3.68 lb/ft	3.25 lb/ft	4.91 kg/m	5.48 kg/m	5.48 kg/m	4.83 kg/m
	2x4 Solid Profile	-	-	-	2.32 lb/ft	-	-	-	3.45 kg/m
	2x6 Solid Profile	3.27 lb/ft	-	-	3.22 lb/ft	4.87 kg/m	-	-	4.79 kg/m
	2x8 Solid Profile	-	-	-	4.34 lb/ft	-	-	-	6.46 kg/m
Tolerance Width	-	± 0.09 in	±0.06 in	±0.06 in	±0.09 in	±2.29 mm	±1.52 mm	±1.52 mm	±2.29 mm
Tolerance Thickness	-	± 0.03 in	± 0.03 in	± 0.03 in	± 0.03 in	±0.76 mm	±0.76 mm	±0.76 mm	±0.76 mm
Density (1x5.4 Groove Profile)	-	62.43 lb/ft³	68.05 lb/ft³	68.05 lb/ft³	62.43 lb/ft³	1 g/cc	1.09 g/cc	1.09 g/cc	1 g/cc
7 Day Water Absorption (5/4" Profiles 10" Long)	% weight gain	0.51%	0.44%	0.49%	1.30%	0.51%	0.44%	0.49%	1.30%
Fungus Resistance (White & Brown Rot)	AWPA E10	PASS, <1%	PASS, <1%	PASS, <1%	PASS, <1%	PASS, <1%	PASS, <1%	PASS, <1%	PASS, <1%
Termite Resistance	AWPA E1	9	9.5	9.5	9	9	9.5	9.5	9
Coefficient of Static Friction	ASTM D2394 (Longitudinal)	0.42 Dry 0.71 Wet	0.45 Dry 0.49 Wet	0.43 Dry 0.39 Wet	0.60 Dry 0.61 Wet	0.42 Dry 0.71 Wet	0.45 Dry 0.49 Wet	0.43 Dry 0.39 Wet	0.60 Dry 0.61 Wet
Coefficient of Static Friction	ASTM D2394 (Transverse)	0.41 Dry 0.77 Wet	0.47 Dry 0.71 Wet	0.46 Dry 0.53 Wet	0.62 Dry 0.66 Wet	0.41 Dry 0.77 Wet	0.47 Dry 0.71 Wet	0.46 Dry 0.53 Wet	0.62 Dry 0.66 Wet
Flame Spread	ASTM E84	Class C (110)	TIP	Class C (120)	Class C (110)	Class C (110)	TIP	Class C (120)	Class C (110)
Smoke Developed Index	ASTM E84	350	TIP	700	350	350	TIP	700	350
Wildland Urban Interface*	CA SFM 12-7A-4A	PASS with 1/8" edge-to-edge board gap	-	-	-	PASS with 3.18 mm edge-to-edge board gap	-	-	-
Modulus of Elasticity (Average Ultimate Values at Ambient Conditions)	ASTM D7032	262,000 lb/in²	379,000 lb/in²	379,000 lb/in²	262,000 lb/in²	1,806 Mpa	2,613 Mpa	2,613 Mpa	1,806 Mpa
Modulus of Rupture (Average Ultimate Values at Ambient Conditions)	ASTM D7032	2,900 lb/in²	4,100 lb/in²	4,100 lb/in²	2,900 lb/in²	20.0 Mpa	28.3 Mpa	28.3 Mpa	20.0 Mpa
Compressive Strength* (Perpendicular)	ASTM D1621	962 lb/in²	TIP	TIP	962 lb/in²	6.6 Mpa	TIP	TIP	6.6 Mpa
Compressive Modulus* (Perpendicular)	ASTM D1621	21,926 lb/in²	TIP	TIP	21,926 lb/in²	151.2 Mpa	TIP	TIP	151.2 Mpa
Compressive Strength Perpendicular (1.5" Thick)	ASTM D1621	2,828 lb/in²	N/A	N/A	2,828 lb/in²	19.5 Mpa	N/A	N/A	19.5 Mpa
Compressive Modulus Perpendicular (1.5" Thick)	ASTM D1621	61,209 lb/in²	N/A	N/A	61,209 lb/in²	422.0 Mpa	N/A	N/A	422.0 Mpa
Deformation at Maximum Load* (Perpendicular)	ASTM D1621	0.163 in	TIP	TIP	0.163 in	4.14 mm	TIP	TIP	4.14 mm
Concentrated Load for Manufactured Housing*	Federal Manufactured Home Construction and Safety Standards (FMHCSS)	.088 in Deflection	TIP	TIP	.088 in Deflection	2.24 mm Deflection	TIP	TIP	2.24 mm Deflection
Thermal Conductivity	ASTM C518-02	1.191 (Btu-in/hr/ft²/F)	TIP	TIP	1.191 (Btu-in/hr/ft²/F)	0.172 (W/m/K)	TIP	TIP	0.172 (W/m/K)
Coefficient of Thermal Expansion	Internal Method	2x10-5 in/in/F	3.01x10-5 in/in/F	2.66x10-5 in/in/F	2x10-5 in/in/F	3.6x10-5 cm/cm/C	5.58x10-5 cm/cm/C	4.79x10-5 cm/cm/C	3.6x10-5 cm/cm/C
AC-174 Nominal Load Rating for 1x5.4 Profiles	AC-174, PFS TECO RR-0110	100 lb/ft² @ 16"OC	100 lb/ft² @ 16"OC	100 lb/ft² @ 16"OC	100 lb/ft² @ 16"OC	4.79 kPa @ 40 cm OC	4.79 kPa @ 40 cm OC	4.79 kPa @ 40 cm OC	4.79 kPa @ 40 cm OC

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Desc	Test Method	IMPERIAL MEASUREMENTS				METRIC MEASUREMENTS			
		Vision	Meridian	Elevate	Vantage	Vision	Meridian	Elevate	Vantage
Screw Pull-Through: 5/4 nominal thickness, 2-1/4" x7 SS Trimhead Screw	ASTM D1037	373 lbs	TIP	350 lbs	373 lbs	1.66 kN	TIP	1.56 kN	1.66 kN
Screw Pull-Through: 2" nominal thickness, 2-1/4" x7 SS Trimhead Screw	ASTM D1037	613 lbs	N/A	N/A	612 lbs	2.73 kN	N/A	N/A	2.73 kN
Screw Withdrawal: 5/4 nominal thickness, 2-1/4" x7 SS Trimhead Screw	ASTM D1761	699 lbs	TIP	830 lbs	699 lbs	3.11 kN	TIP	3.69 kN	3.11 kN
Screw Withdrawal: 2" nominal thickness, 2-1/4" x7 SS Trimhead Screw	ASTM D1761	820 lbs	N/A	N/A	820 lbs	3.65 kN	N/A	N/A	3.65 kN
Uplift Rating with MS Deck Clip	AC-174, PFS TECO RR-0110	100 lb/ft² @ 16"OC	100 lb/ft² @ 16"OC	100 lb/ft² @ 16"OC	100 lb/ft² @ 16"OC	4.79 kPa @ 40 cm OC	4.79 kPa @ 40 cm OC	4.79 kPa @ 40 cm OC	4.79 kPa @ 40 cm OC
Uplift for #7 2-1/4" SS Trim Head Screw	AC-174, PFS TECO RR-0110	114 lb/screw	114 lb/screw	114 lb/screw	114 lb/screw	0.51 kN/screw	0.51 kN/screw	0.51 kN/screw	0.51 kN/screw
Slip Resistance (Longitudinal & Transverse)	DIN 51130	R11	TIP	TIP	R10	R11	TIP	TIP	R10
Slip Resistance (Longitudinal & Transverse)	DIN 51097	Group C	TIP	TIP	Group C	Group C	TIP	TIP	Group C
Reaction to Fire Classification	EN 13501	Cfl-s1	TIP	TIP	Efl	Cfl-s1	TIP	TIP	Efl

- \* Test specimen was MoistureShield 1.1875x 5.4 engineered bottom decking profile.
- \* WUI results for 1x 5.4 grooved and solid edge profiles only and applies only to product labeled WUI compliant.

**GENERAL NOTES:**

1. Mechanical properties listed represent average ambient values and are not to be used as design values. Reference the appropriate code report for span information.
2. Values presented in this report are for reference only based on the test method identified; they do not represent a specific performance claim.