Technical Data Sheet

	Test Standard	WeatherBest™ 2" x 6"	WeatherBest™ 5/4" x 6"	Ponderosa Pine
Modulus of Elasticity (psi) The Modulus of Elasticity or, as it is often called MOE, is the board's bending or flexural-stiffness. The higher the MOE the less this product will bend when walked on.	ASTM D1037	338,000	541,000	1,290,000
Modulus of Rupture (psi) The Modulus of Rupture or MOR is the bending or flexural strength. An increasing load is applied to a board across two supports, similar to joists on a deck, and this load is increased until the board breaks.	ASTM D1037	1,925	3,069	9,400
Coefficient of Thermal Expansion This technical term is used to predict the amount materials will expand for a given length and temperature change. With proper spacing at installation, thermal expansion should not be an issue. See page 10 for proper spacing installation instructions.	ASTM D696	1.64E-05	1.64E-05	2.50E-05
Water Absorption (% 24 hrs.) Most decks will only see intermittent surface exposure to water. The standard test involves total submersion of a sample in water for 24 hours to determine the weight gain. One concern for all composite materials exposed to water is swelling. However, and not unlike a similar concern with temperature expansion, swelling is small and can be easily addressed by proper spacing during installation. See page 10 for proper spacing installation instructions.	ASTM D1037	2.35%	0.49%	17.20%
Flame Spread Index A measure of the rate of flame advancement under laboratory conditions.	ASTM E84	46	46	100 (oak)
Screw Withdrawal (lb) In this test, standard screws are placed in a sample, and then the force to pull them out is measured. The difference in these numbers relates to the actual material the screw travels through.	ASTM D1037	418	1,159	163
Nail Withdrawal (lb) In this test, standard nails are placed in a sample, and then the force to pull them out is measured. The difference in these numbers relates to the actual material the nail travels through.	ASTM D1037	29	329	51
Slip Resistance	ASTM F-1679-96	0.54	0.57	0.94