

PermaBase® Multi-Thickness Data Sheet

Property	Standard	1/4"	3/8"	1/2"	5/8"	3/4"	1"
Board weight (lbs/ft ²)	ASTM C473	1.8	2.25	3	3.65	4.38	5.8
Board nominal thickness (in)	ASTM C473	0.25	0.375	0.50	0.625	0.75	1
Flexural strength (psi)	ASTM C1185 / C947	>1750	>1250	>1000	>1000	>500	>500
Fastener pull trough resistance (lbs)	ASTM D1037	>85	>100	>150	>250	>300	>400
Indentation strength @ 0.05" (psi)	ASTM D2394	n/a	n/a	2250	n/a	n/a	n/a
Water absorption (24hrs, %)	ASTM C473	<8	<8	<8	<8	<8	<8
Linear variation VS moisture change (%)	ASTM D1037	n/a	<0.07	<0.07	<0.07	<0.07	<0.07
Freeze thaw resistance (cycles)	ASTM C666 (B)	100	100	100	100	100	100
Wind load (psf)	ASTM E330	n/a	30	40	n/a	n/a	n/a
Thermal conductance (c Factor) (Btu/hr-ft ² -°F)	ASTM C518	4.96	3.55	2.70	2.13	1.77	1.33
Thermal conductivity (K value) (Btu-in/hr-ft ² -°F)	ASTM C518	1.37	1.37	1.37	1.37	1.37	1.37
Thermal resistance (R value) (hr-ft ² -°F/Btu)	ASTM C518	0.20	0.28	0.37	0.47	0.56	0.75
Bending radius (ft)	Property of material	3	3	5	5	8	8
Standard method for evaluating ceramic floor installation system	ASTM C627	Light commercial	Light commercial	Light commercial	Light commercial	Light commercial	Light commercial
Shear bond strength (psi)	ANSI A118.4	>250	>250	>250	>250	>250	>250
Bacteria resistance (0=no growth)	ASTM G22	0	0	0	0	0	0
Fungus resistance (0= no growth)	ASTM G21	0	0	0	0	0	0
Flame spread /Smoke development	ASTM E84	0/0	0/0	0/0	0/0	0/0	0/0
Fire resistance	ASTM E119 / ULC S101	n/a	n/a	1hr and 2 hrs assemblies	1hr and 2 hrs assemblies	n/a	n/a



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