

Physical Properties - Minerit HD Cement Boards

Physical Properties	HD
Density, dry, pcf	105
Moisture Content, normal, %	5
Modulus of Rupture, psi, MD	3200
CMD	2500
Modulus of Elasticity, psi x10⁶	1.4
Tensile Strength, psi, MD	2300
(Parallel to surface) CMD	1600
Compressive Strength, psi	11,600
Impact Strength, lb-ft/ft²	230
Water Absorption, %, oven dry - saturation	6-18
Thermal Conductivity, BTU-in/ft², hr, °F	2.1
Coefficient of Thermal Expansion, in/in, °F, x10⁻⁶	5.0
68 °F - 212 °F	
Moisture Movement, in/ft	.04
Oven dry - saturation	
Surface Burning Characteristics, Class I	0
Flame spread	0
Smoke developed	
Continuous Maximum Temperature, °F	250
Non-combustible	ASTM E 136

Properties based on 1/4" material

Wind Load/Fastening Schedule - Minerit HD

Wind Load lbs/ft ²	Board Thickness (in)	Fastener Type	24" O.C.			16" O.C.			
			P	C	P	P	C	C	P
20	1/4"	Screw	8"	12"	8"	12"	16"	16"	12"
40	5/16"	Screw	8"	12"	8"	12"	16"	16"	12"
>40	3/8" 1/2"	Screw	Must be calculated for each system.						

Fasteners must never be positioned closer than 1/2" from the edge, or 3" from the corner of a panel.

Use stainless steel screws with 3/8" diameter washer head. Holes must be predrilled into sheet with clearance around screw threads.