

Technical Data

Hempitecture HempWool is 90% hemp fiber and 10% polymer binder. At R3.7/in, the thermal resistance of HempWool insulation is comparable to commonly used insulation products. HempWool does not contain any VOCs and is non-toxic. HempWool has been tested to the following ASTM Standards:



ASTM

Standard	Property	Performance
ASTM C209	Density of insulation	2.18lbs/ft ³ / 35Kg/m ³
ASTM C518	Thermal Resistance	R3.7/in
	Thermal Conductivity	0.040W/m.K
ASTM E1354	Vapor Permeability	0.647 Perms / 37ng/Pa.s.m ²
ASTM E96-E96M	Water Vapor Transmission Performance	Not a vapor barrier (Above 60ng)
ASTM C1338-19	Microbiological Resistance to Fungi	No fungi growth
ASTM E1354	Standard Test Method for Heat and Visible Smoke Release Rate	
	Ignition Time	6.67 sec.
	Average Heat Release Rate	5.74 (BTU/s/ft ²)
	Total Heat Release	642.8 (BTU/s/ft ²)
	Heat Release Maximum Rate	10.98 (BTU/s/ft ²)
	Total Smoke Release by Surface Unit	217.26 (ft ² /lb)
ASTM E84	Surface Burning: Smoke Developed / Flame Spread	350 / 315 (index)

