

Flute Filler Pre-Engineered Metal Roof Flute Filler Comparison Chart

Type of Insulation	Initial R-Value/1"	"Aged" R-Value 180 Days ITTR *1 per 1"	Warranted R- Value per 1"	In Service R-Value *3 Per 1"	Compressive Strength	Water Absorption CORE (actual insulation)	Water Vapor Permeance (perm)
ASTM	C 578-03				1621	C 272	E-96
Extruded Polystyrene (EXPS)	5.0	5.0	5.0	5.0	25 *4 40 60	.03	less than 1.0
Expanded Polystyrene (EPS)	3.8	3.6	3.6 *2	2.5	10	4.0	5.0
Polyisocyanurate (ISO)	6.25	5.6	5.6 *2	3.85	15 - 20	5	3

*1 Actual verbiage used to describe 180 day R-Value

*2 See manufacturers warranty for impossible stipulations and conditions (READ CLOSE)

*3 Actual materials tested after installation for five years in cavity wall, foundation and roofing applications

*4 Fabricated material carries a 25, 40 or 60 PSI