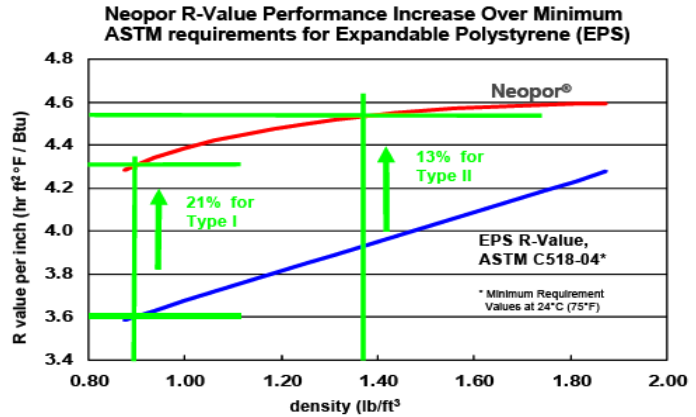
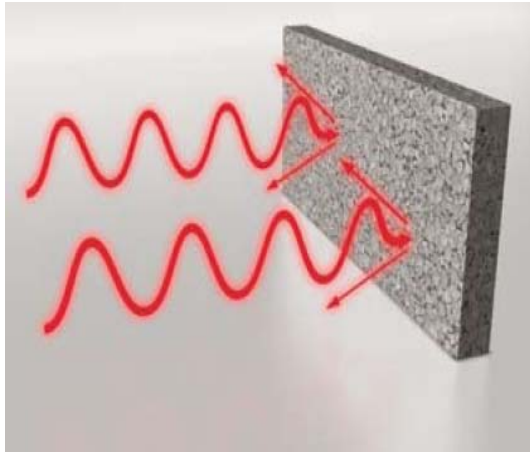


NEOPOR[®] R-VALUE

Thermal Conductivity and Protection

The outstanding effect of insulating materials made of Neopor[®] gives engineers and processors decisive advantages in actual construction projects. In comparison to conventional EPS, insulating materials made of Neopor[®] allow more streamlined structures while providing a better insulating effect. Infrared absorbers and infrared reflectors make it possible to greatly reduce thermal conductivity. For instance, the permeability of the material to radiant heat is more restricted than with commonly employed insulating panels and the insulation effect is up to 20 percent higher than with conventional EPS panels.



Expandable Polystyrene (EPS) Comparison with Neopor[®]

ASTM Density (U.S.)	Minimum Density, Lbs/Ft³ & (gr./l)	*Neopor [®] R-Value	**Minimum R-Value Req. for EPS, ASTM C518-04	Increase in R-Value with Neopor vs. Minimum ASTM requirement for EPS
Type I	.90 (15)	4.34	3.60	21 %
Type VIII	1.15 (18)	4.48	3.80	18%
Type II	1.35 (22)	4.53	4.00	13%
Type IX	1.80 (29)	4.59	4.20	9%

*Represents average value of data collected over 10 year period in Europe and converted from Lambda value to R-Value

**Minimum requirement values at 24°C (75°F)

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