

Eps Sandwich Panel Calculated Thermal Performance 'R' Rating						
Panel Thickness (mm)	50	75	100	150	200	250
EPS-FR Graphite infused 'M' Grade 20kg/m ²	1.783	2.565	3.345	4.908	6.25	8.033
EPS-FR Standard White 'SL' Grade 13.5kg/m ²	1.47	2.095	2.72	3.97	5.22	6.47

The above calculations were formulated by the calculation below,

EPS-FR Graphite Infused 'M' Grade 20kg/m² has a thermal conductivity figure of = 0.032 W/mK

EPS-FR Standard White 'SL' Grade 13.5kg/m² has a thermal conductivity figure of = 0.04 W/mK

Calculation Example based on 100mm Panel,

$$'R' = \frac{\text{Panel Thickness}}{\text{Conductivity Figure}} = \frac{0.1\text{mtr}}{0.032 \text{ W/mK}}$$

Conductivity Figure 0.032 W/mK

$$'R' = 3.125 + .22 ('R' \text{ Value of coil and Adhesive})$$

$$'R' \text{ Value @ 23 Degree's} = 3.345$$