Specialized
CONSTRUCTION PRODUCTSLTD

As per the guidelines of NZS 4214:2006 the thermal calculation for 50mm H-grade Polystyrene System installed over the surface of 200mm solid filled blocks is as follows:

	R (m²°C/W)
Rse (exterior surface resistance)………………………………………….	= 0.03
Layer 1 5mm Cement based exterior plaster ……………………………...	= 0.01
Layer 2 50mm H-grade Polystyrene based Cladding ……………………...	= 1.43*
Layer 3 200mm thick solid filled block ……………………………………	= 0.30
Layer 4 Internal 9.5mm Plasterboard Lining ……………………………	= 0.05
Rsi (interior surface resistance) ………………………………………….....	= 0.09
Total thermal resistance, RT ………………………………………………….	= 1.91

* Based on a thermal conductivity of 0.035 W/mK