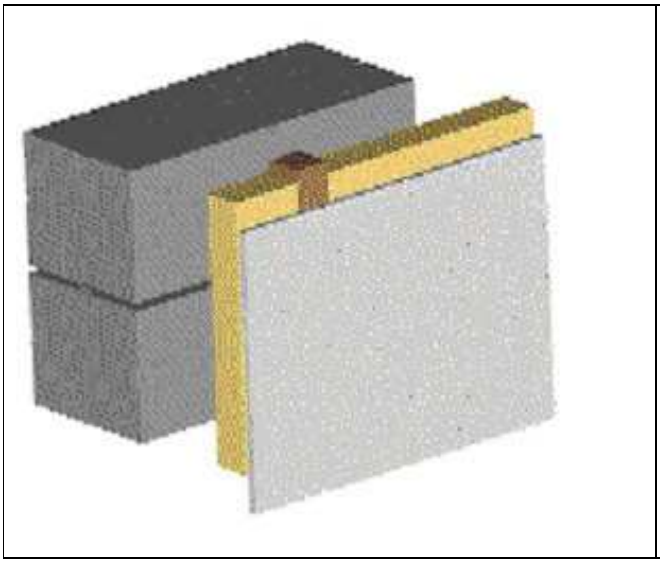
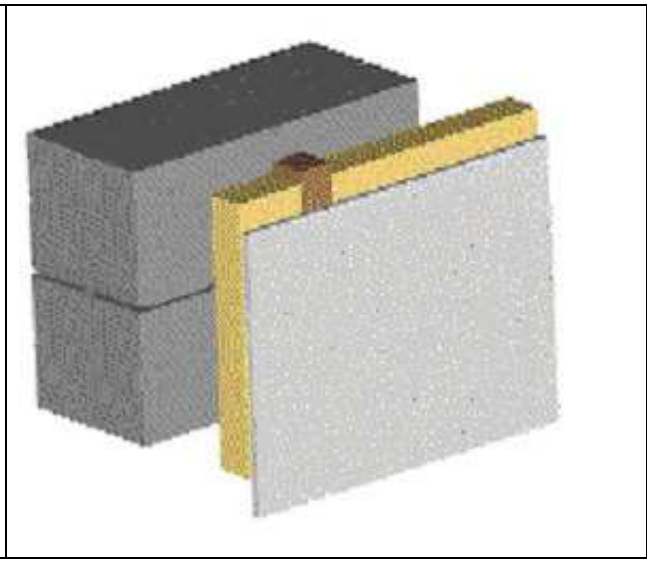
Recommended Single Skin Concrete Block Type Wall Construction





Concrete Block Single skin Construction	Resistance R (m^2.K/W)
Outdoor air film	0.03
190mm Concrete Block	0.28
75mm mineral wool insulation batt	1.5
Non reflective air gap	0.16
10mm Plasterboard	0.06
Indoor air film	0.12
Total Resistance =	**2.15**

"Lock Block" Single Skin Construction	Resistance R (m^2.K/W)
Outdoor air film	0.03
198mm "Lock Block"	0.2815
75mm mineral wool insulation batt	1.5
Non reflective air gap	0.16
10mm Plasterboard	0.06
Indoor air film	0.12
Total Resistance =	**2.15**

SEMF is a leading Tasmanian Engineering Consultancy who can provide advice in relation to nearly all areas of the engineering & environmental industry. In particular SEMF have extensive experience in Sustainable Design & can provide you with services ranging from Residential and Commercial building Energy Ratings; Energy Efficient building design advice; Environmental auditing; through to all engineering design services.

The above recommended design types, utilising Island Block & Paving's concrete block construction systems meet the requirements of the BCA to ensure minimum insulation and energy requirements are implemented in new residential buildings. The new BCA requirements for energy efficiency require a minimum Insulation or "R" value of 1.9 m^2.K/W for buildings within Tasmania's Zone 7 Classification. As can be seen from the above wall options the Island Block solutions have a much greater R value than other construction techniques. The Island Block and Paving options are economical, impact resistant, fire resistant and exceed the minimum BCA energy efficiency requirements for heat loss control. **Additional benefits are that concrete block construction provides thermal mass to the building, which improves internal temperature stability.**

To achieve higher ratings it is possible to install alternative insulation materials, which have integral reflective foils in their construction and provide significant insulation benefits.

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