

# CQ Therm

Insulated linings can generate fuel savings of up to 70%

This product is a multi layered material using a combination of heat reflective layers and spacing wadding. It is sewn to size to match the fixing requirement of each structure.

This product works through the thermal resistance of its wadding and the low emissivity of its surface. The combination of these gives an increased thermal resistance of  $R=0.46$  ( $m^2.K/w$ ) for a standard 10mm thickness, equivalent to  $R=2.6$  in US figures ( $ft^2.FH/btu$ ). (20mm thick CQ Therm gives  $R = 4.2$  US and 30mm thick CQ Therm gives  $R = 5.8$  US).



## Fuel saving using CQ Therm when heating or air-conditioning a tent



10mm CQ Therm = 1lt fuel saving per hour  
**69% Fuel saving**  
 Uninsulated fuel usage = 1.5lt per hour



10mm CQ therm = 730lt fuel saving per month  
**69% Fuel saving**  
 Uninsulated fuel usage = 1,097lt per month



10mm CQ therm = 8,760lt fuel saving per year  
**69% Fuel saving**  
 Uninsulated fuel usage = 13,166lt per year

Fuel usage calculations for a 6m x 9m structure (as pictured) show that for an 18 degree temperature difference (e.g. zero degrees up to 18 degrees, a saving of 1 lt/hour would be achievable in a tent lined with CQ Therm. (Based on calculations using a thermostatically controlled Arcotherm EC70 indirect 70kw diesel powered heater running continuously, consuming 1.5lt of fuel per hour).-+



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