



**Thermal Insulation Energy Savings**  
**Savings Indicated in KW savings on Heating or Cooling**

**Product**

No Insulation - Ceiling  
 25mm ThermocousTex , Board  
 35mm ThermocousTex , Board  
 50mm ThermocousTex , Board  
 25mm Board (Ceiling) 50mm ThermocousTex, Fiber (Over Purlin)  
 SANS 204 - ZONE 1 = R-Value 3,7 m<sup>2</sup>.K/W  
 SANS 204 - ZONE 5 = R-Value 2,7 m<sup>2</sup>.K/W

**U-Value**

5, 07 W/m<sup>2</sup>°C  
 0, 86 W/m<sup>2</sup>°C  
 0, 69 W/m<sup>2</sup>°C  
 0, 54 W/m<sup>2</sup>°C  
 0, 42 W/m<sup>2</sup>°C  
 0, 27 W/m<sup>2</sup>°C  
 0, 37 W/m<sup>2</sup>°C

**Product**

No Insulation - Walls  
 InnoBrik Maxi - Cavity Wall  
 InnoBrik Maxi – Cavity Plastered  
 SANS 204 - ZONE 1 = R-Value 2,2 m<sup>2</sup>.K/W  
 SANS 204 - ZONE 5 = R-Value 1,9 m<sup>2</sup>.K/W

**U-Value**

2, 16 W/m<sup>2</sup>°C  
 1, 57 W/m<sup>2</sup>°C  
 0, 68 W/m<sup>2</sup>°C  
 0, 45 W/m<sup>2</sup>°C  
 0, 53 W/m<sup>2</sup>°C

Values: HiVeld Average 12 Months	kWh Use 12 Months	Savings
House: 80m <sup>2</sup> floor and roof area, 105m <sup>2</sup> walls, 20m <sup>2</sup> doors and windows, average height 2,9m		
	22°C (Inside)	
No Insulation (Floor (2), Walls (2.16), Roof (2.34))	30,250.20	0.00%
Floor (1 W/m <sup>2</sup> °C), Walls (1.57 W/m <sup>2</sup> °C), Ceiling (0.86 W/m <sup>2</sup> °C)	13,124.39	56.61%
Floor (1 W/m <sup>2</sup> °C), Walls (0.68 W/m <sup>2</sup> °C), Ceiling (0.86 W/m <sup>2</sup> °C)	9,399.23	68.93%
Floor (1 W/m <sup>2</sup> °C), Walls (1.57 W/m <sup>2</sup> °C), Ceiling (0.69 W/m <sup>2</sup> °C)	12,412.85	58.97%
Floor (1 W/m <sup>2</sup> °C), Walls (0.68 W/m <sup>2</sup> °C), Ceiling (0.69 W/m <sup>2</sup> °C)	8,687.68	71.28%
Floor (1 W/m <sup>2</sup> °C), Walls (1.57 W/m <sup>2</sup> °C), Ceiling (0.54 W/m <sup>2</sup> °C)	11,785.01	61.04%
Floor (1 W/m <sup>2</sup> °C), Walls (0.68 W/m <sup>2</sup> °C), Ceiling (0.54 W/m <sup>2</sup> °C)	8,059.85	73.36%
Floor (1 W/m <sup>2</sup> °C), Walls (1.57 W/m <sup>2</sup> °C), Ceiling (0.42 W/m <sup>2</sup> °C)	11,282.74	62.70%
Floor (1 W/m <sup>2</sup> °C), Walls (0.68 W/m <sup>2</sup> °C), Ceiling (0.42 W/m <sup>2</sup> °C)	7,557.58	75.02%
Floor (1 W/m <sup>2</sup> °C), Walls (0.45 W/m <sup>2</sup> °C), Ceiling (0.27 W/m <sup>2</sup> °C)	5,870.27	80.59%
Floor (1 W/m <sup>2</sup> °C), Walls (0.53 W/m <sup>2</sup> °C), Ceiling (0.37 W/m <sup>2</sup> °C)	6,644.60	78.03%

Values: HiVeld Average 12 Months	kWh Use 12 Months	Savings
House: 150m <sup>2</sup> floor and roof area, 145m <sup>2</sup> walls, 30m <sup>2</sup> doors and windows, average height 2,9m		
	22°C (Inside)	
No Insulation (Floor (2), Walls (2.16), Roof (2.34))	49,154.68	0.00%
Floor (1 W/m <sup>2</sup> °C), Walls (1.57 W/m <sup>2</sup> °C), Ceiling (0.86 W/m <sup>2</sup> °C)	21,009.30	57.26%
Floor (1 W/m <sup>2</sup> °C), Walls (0.68 W/m <sup>2</sup> °C), Ceiling (0.86 W/m <sup>2</sup> °C)	15,654.37	68.15%
Floor (1 W/m <sup>2</sup> °C), Walls (1.57 W/m <sup>2</sup> °C), Ceiling (0.69 W/m <sup>2</sup> °C)	19,675.14	59.97%
Floor (1 W/m <sup>2</sup> °C), Walls (0.68 W/m <sup>2</sup> °C), Ceiling (0.69 W/m <sup>2</sup> °C)	14,320.22	70.87%
Floor (1 W/m <sup>2</sup> °C), Walls (1.57 W/m <sup>2</sup> °C), Ceiling (0.54 W/m <sup>2</sup> °C)	18,497.95	62.37%
Floor (1 W/m <sup>2</sup> °C), Walls (0.68 W/m <sup>2</sup> °C), Ceiling (0.54 W/m <sup>2</sup> °C)	13,143.03	73.26%
Floor (1 W/m <sup>2</sup> °C), Walls (1.57 W/m <sup>2</sup> °C), Ceiling (0.42 W/m <sup>2</sup> °C)	17,556.20	64.28%
Floor (1 W/m <sup>2</sup> °C), Walls (0.68 W/m <sup>2</sup> °C), Ceiling (0.42 W/m <sup>2</sup> °C)	12,201.27	75.18%
Floor (1 W/m <sup>2</sup> °C), Walls (0.45 W/m <sup>2</sup> °C), Ceiling (0.27 W/m <sup>2</sup> °C)	9,640.22	80.39%
Floor (1 W/m <sup>2</sup> °C), Walls (0.53 W/m <sup>2</sup> °C), Ceiling (0.37 W/m <sup>2</sup> °C)	10,906.36	77.81%

Values: HiVeld Average 12 Months	kWh Use 12 Months	Savings
House: 300m <sup>2</sup> floor and roof area, 203m <sup>2</sup> walls, 30m <sup>2</sup> doors and windows, average height 2,9m		
	22°C (Inside)	
No Insulation (Floor (2), Walls (2.16), Roof (2.34))	85,448.13	0.00%
Floor (1 W/m <sup>2</sup> °C), Walls (1.57 W/m <sup>2</sup> °C), Ceiling (0.86 W/m <sup>2</sup> °C)	36,049.40	57.81%
Floor (1 W/m <sup>2</sup> °C), Walls (0.68 W/m <sup>2</sup> °C), Ceiling (0.86 W/m <sup>2</sup> °C)	27,993.77	67.24%
Floor (1 W/m <sup>2</sup> °C), Walls (1.57 W/m <sup>2</sup> °C), Ceiling (0.69 W/m <sup>2</sup> °C)	33,381.13	60.93%
Floor (1 W/m <sup>2</sup> °C), Walls (0.68 W/m <sup>2</sup> °C), Ceiling (0.69 W/m <sup>2</sup> °C)	25,325.47	70.36%
Floor (1 W/m <sup>2</sup> °C), Walls (1.57 W/m <sup>2</sup> °C), Ceiling (0.54 W/m <sup>2</sup> °C)	31,026.75	63.69%
Floor (1 W/m <sup>2</sup> °C), Walls (0.68 W/m <sup>2</sup> °C), Ceiling (0.54 W/m <sup>2</sup> °C)	22,971.08	73.12%
Floor (1 W/m <sup>2</sup> °C), Walls (1.57 W/m <sup>2</sup> °C), Ceiling (0.42 W/m <sup>2</sup> °C)	29,143.24	65.89%
Floor (1 W/m <sup>2</sup> °C), Walls (0.68 W/m <sup>2</sup> °C), Ceiling (0.42 W/m <sup>2</sup> °C)	21,087.57	75.32%
Floor (1 W/m <sup>2</sup> °C), Walls (0.45 W/m <sup>2</sup> °C), Ceiling (0.27 W/m <sup>2</sup> °C)	16,651.38	80.51%
Floor (1 W/m <sup>2</sup> °C), Walls (0.53 W/m <sup>2</sup> °C), Ceiling (0.37 W/m <sup>2</sup> °C)	18,945.08	77.83%