



Thermilate Europe Ltd  
7 Northumberland Street, Huddersfield, HD1 1RL, UK

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## Technical Report 11/Feb/07/IDerin02

Date 11 Feb 2007

### Client Company :

Derin Boya ve Denizcilik San.Tic.Ltd Sti.  
Boya ve Vernikciler San. Sitesi No:20 Orhanlı-Tuzla/Istanbul, Turkey

**Product Name** : Robyn's Interior Thermal Paint

All information in this document is confidential and must be kept as confidential at all times.

**1. Sample** : 9.5mm plasterboard coated with of Robyn's Interior Thermal Paint(supplied By Proving Ltd). Allowed drying and conditioning over 7 days and tested.

**2. Method** : Hotbox test carried out – using infrared thermometer and with thermocouple.

### **3. Test Details** :

- Specimen Thickness : 0.00995 M
- Dimensions : 0.304 x 0308 M
  
- Temperature of Air : 25.04 °C
- Temperature coated surfaces : 18.00 °C
- Temperature at cold surface : 13.10 °C
  
- Density of heat flow : 71.60 W/m<sup>2</sup>
  
- Temperature Drop plasterboard/Air surface: 11.94 K
- Temperature Drop across air surface layer : 7.04 K
- Temperature Drop Across Plasterboard : 4.90 K



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|--|--------------------------|
| • Thermal resistance of Plasterboard and air layer : | 0.167 m <sup>2</sup> K/w |
| • Thermal resistance of Air surface layer :          | 0.099 m <sup>2</sup> K/w |
| • Thermal resistance of Plasterboard and coating :   | 0.068 m <sup>2</sup> K/w |
| • Duration of the test                               | 84 Hours                 |
| • Ambient temperature in building                    | 22 °C                    |
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5. **Temperature Sensors** : Temperatures measured using thermocouple type probes. – also utilized Infrared fitted via space into unit.

6. **Methods and temperature of conditioning** : The 2 samples were prepared and allowed to be conditioned over the 7 days.

7. **Errors in measured property** : Errors are allowed up to 3.0% and the test was carried out 2 times

8. **Thermal Energy Saving Result** : The Increase in thermal resistance of 9,5 mm nominal thickness plasterboard coated with Robyn's interior paint sample over blank coating with no ceramic is 25.8%

Operator :: AKA  Matt Wright

  
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