

**Project Information**

Reference  
Date 9 December 2010  
Client RM Polymers Project United Reformed Church  
Colindale, NW9

**Construction Type**

Element : Flat roof - Flat Roof  
conventional warm flat roof  
Internal surface emissivity : High External surface emissivity : High

**Construction**

|                            | Thickness<br>(mm) | Thermal<br>Conductivity<br>(W/mK) | Thermal<br>Resistance<br>(m <sup>2</sup> K/W) | Pitch<br>Bridge Details<br>(°) |
|----------------------------|-------------------|-----------------------------------|---|--------------------------------|
| Outside surface resistance | -                 | -                                 | 0.040   |                                |
| Liquid Waterproofing       | 1.5               | 0.150                             | 0.010   |                                |
| Tapered Bi3 Insulation     | d0=80.0           | 0.026                             | R0=3.077                                      |                                |
| Asphalt                    | 20.0              | -                                 | 0.060   |                                |
| Screed - cast (BS5250)     | 50.0              | 1.401                             | 0.036   |                                |
| Concrete, dense (BS5250)   | 200.0             | 1.701                             | 0.118   |                                |
| Inside surface resistance  | -                 | -                                 | 0.100   |                                |

**U-value - 0.17W/m<sup>2</sup>K**

U-value, Combined Method : 0.17 W/m<sup>2</sup>K (upper/lower limit 5.841 / 5.841 m<sup>2</sup>K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000, dUrc0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m<sup>2</sup>K)

(Correction for air gaps, Delta Ug = 0.000W/m<sup>2</sup>K)