# Insulation Products and Systems: Roofs

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<th>Manufacturer Name</th>
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<th>Insulation Product / System Type</th>
<th>Description of Wall / Floor / Roof make-up including insulation product and ancillaries</th>
<th>Overall U-value including ancillaries (W/m²K)</th>
<th>Compliant (Yes / No)</th>
<th>Warranty Period</th>
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| Concrete Technology LLC | CTR-NO-R-011-002 | Plastbau Roof | 1. Finishing Layer (Not Relied Upon In U-Value Calculations) - (By Others) - (See Examples in Section Details)  
2. Vapor Barrier (Not Relied Upon in U-value Calculation) - (By Others)  
3. 70mm Dense Reinforced Concrete Layer. (Density= 2400Kg/m³, Thermal Conductivity = 1.9W/mK) - (By Others)  
4. 320+20mm (PS 32+2/8) Plastbau Panel. (Density= 22-24Kg/m³, Thermal Conductivity= 0.0368W/mK) - (By Concretec)  
5. 13mm Fire Retardant Gypsum Board. (Density= 800Kg/m³, Thermal Conductivity=0.16W/m.K) - (By Others)  
Required:  
110mm Width x 100mm Height NPPF (XPS King) Extruded Polystyrene Insulation (Density= 30-35kg/m³, Thermal Conductivity= 0.0293W/mK) - (Installed and / or Supplied by Concretec) | 0.16 | Yes | Yes | 10 years | Normal (2 Months) | Yes | Yes (Placing Plastbau Panels Only) | Yes (Concretec Under Contractor Supervision) | Con02_PS 32+2_8+12.pdf | www.concretec.ae |
| Concrete Technology LLC | CTR-NO-R-031-002 | Plastbau Roof | 1. Finishing Layer (Not Relied Upon In U-Value Calculations) - (By Others) - (See Examples in Section Details)  
2. Vapor Barrier (Not Relied Upon in U-value Calculation) - (By Others)  
3. 100mm Dense Reinforced Concrete Layer. (Density= 2400Kg/m³, Thermal Conductivity = 1.9W/mK) - (By Others)  
4. 320mm (PS 32/7) Plastbau Panel. (Density= 22-24Kg/m³, Thermal Conductivity= 0.0368W/mK) - (By Concretec)  
5. 13mm Fire Retardant Gypsum Board. (Density= 800Kg/m³, Thermal Conductivity=0.16W/m.K) - (By Others)  
Required:  
110mm Width x 120mm Height NPPF (XPS King) Extruded Polystyrene Insulation (Density= 30-35kg/m³, Thermal Conductivity= 0.0293W/mK) - (Installed and / or Supplied by Concretec) | 0.12 | Yes | Yes | 10 years | Normal (2 Months) | Yes | Yes (Placing Plastbau Panels Only) | Yes (Concretec Under Contractor Supervision) | Con03_PS 32/7+12.pdf | www.concretec.ae |