



Powerdeck® U

Powerdeck U is a thermal insulation board. Its core consists out of rigid polyisocyanurate PIR foam. The board is faced with a bituminous coated glass fleece on both sides.

Application(s)

Thermal insulation used in warm flat roofs. The board can be used in mechanical fixed and adhered systems in appropriate build-ups combined with bituminous and single-ply waterproofing systems.

Board

| Description | Value | Unit | Tolerances | Standard |
|------------------------------|---|-------------------|------------|----------|
| Dimensions | | | | |
| Length | 1200 | mm | | |
| Width | 600 | mm | | |
| Thickness range | 20 - 160 | mm | T2 | EN 823 |
| Density (core volume weight) | ± 30 | kg/m ³ | | |
| Appearance | | | | |
| Facing | Bituminous coated glass fleece on both sides. | | | |
| Edge finishing | Straight edges | | | |

Essential Characteristics

| Description | Standard | EN code | Value | Unit |
|---|----------|----------------|-------|------|
| Thermal conductivity (declared value) | | | | |
| ≥ 120 mm | EN 13165 | λ _D | 0.024 | W/mK |
| 80 – 119 mm | EN 13165 | λ _D | 0.025 | W/mK |
| ≤ 79 mm | EN 13165 | λ _D | 0.026 | W/mK |
| Mechanical properties | | | | |
| Compressive stress or compressive strength at 10% deformation | EN 826 | CS(10/Y)150 | ≥150 | kPa |
| Dimensional stability under specified temperature and humidity conditions | | | | |
| 48 hrs 70°C, 90% RH | EN 1604 | DS(70,90)3 | | |
| 48 hrs -20°C | EN 1604 | DS(-20,-)1 | | |

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Recticel Insulation

Enterprise Way, Whittle Road, Meir Park, Stoke-on-Trent, Staffordshire, ST3 7UN, UK

www.recticelinsulation.com

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Deformation under specified compressive load and temperature conditions

| | | | | |
|---|---------|---------|-----|-----|
| load and temperature conditions | EN 1605 | DLT(2)5 | ≤5 | % |
| Tensile strength perpendicular to faces | EN 1607 | TR80 | ≥80 | kPa |

Fire behaviour

| | | | | |
|------------------------------------|------------|------------|---|--|
| Reaction to fire (product as such) | EN 13501-1 | Euroclasse | F | |
|------------------------------------|------------|------------|---|--|

Hygrometric properties

| | | | | |
|--|-------------|--------|----------|-------|
| Water vapour diffusion coefficient (tabulated value) | EN150 10456 | μ | 50 - 100 | |
| Long term water absorption by total immersion | EN 12087 | WL(T)2 | ≤2 | vol-% |

Insulation Values

| Thickness (mm) | λ _D -value (W/mK) | R _D -value (m ² K/W) |
|----------------|------------------------------|--|
| 20 | 0.026 | 0.75 |
| 30 | 0.026 | 1.15 |
| 40 | 0.026 | 1.50 |
| 50 | 0.026 | 1.90 |
| 60 | 0.026 | 2.30 |
| 70 | 0.026 | 2.65 |
| 80 | 0.025 | 3.20 |
| 90 | 0.025 | 3.60 |
| 100 | 0.025 | 4.00 |
| 120 | 0.024 | 5.00 |
| 130 | 0.024 | 5.40 |
| 140 | 0.024 | 5.80 |
| 150 | 0.024 | 6.25 |
| 160 | 0.024 | 6.65 |

Standards & Certificates

Standards

| | |
|------------------|-------------------------|
| Product standard | EN 13165:2012 + A2:2016 |
| Production | ISO 9001:2015 |

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Powerdeck[®] U

Environmental management ISO 14001:2015

Certificates

BBA 13/5045 (20-160mm)

Other / Miscellaneous

Production plant

Stoke-on-Trent Enterprise Way, Meir Park, Stoke-on-Trent, ST3 7UN

Storage/handling

Stock dry and protected from direct sunlight

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