

USLPore® Infill Hollow Block



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Product description

USLPore® - Infill Hollow Block is an ultra-light aerated lightweight concrete infill material with a density of only 75-85 kg/m³. It can be used for both, Infill for CMUs (concrete or lightweight concrete masonry units) or for hollow clay bricks. It is an ideal alternative for the infill with mineral wool, perlite or any organic infills such as expanded polystyrene (EPS) and polyurethane (PU).

This product confirms the important worldwide contribution of USLPore® Aerated Concrete for both the protection of our environment and general energy saving and therefore reduction of CO₂ footprints.

Highlights

- German Engineering
- Embedded Insulation
- worldwide unique low density 75 [kg/m³]
- Thermal 0.038 [W/mK]
- Faster Construction
- Fireproofed construction material
- Sustainable



Specification

| Metric | | | USLPore®75 |
|---|-------------------------------|----------------------|------------|
| | Standard | entity | Value |
| dry bulk density $\rho_{105\text{ °C}}$ | DIN EN 1602 [2] | [kg/m ³] | 75-90 |
| moisture absorption $\Delta_m, 23/80$ | DIN EN ISO 12571 [3] | [%] | <19.0 |
| thermal conductivity $\lambda_{10, tr}$ | DIN EN 12667 [13] | [W/mK] | 0.035 |
| thermal conductivity λ | DIN EN 12667 [13] | [W/mK] | 0.041 |
| compressive strength $\sigma_{10\%}$ | DIN EN 826 [4] | [KPa] | >125 |
| tensile strength σ_{mt} | DIN EN 1607 [5] | [KPa] | >40 |
| bending / flexural strength σ_b | DIN EN 12089 Methode B [6] | [KPa] | >40 |
| fire behaviour | DIN EN 13501 | | A1 |
| steam diffusion μ | DIN EN ISO 12572 [10] | | <4.0 |
| Dimension stability | DIN EN 1604 [11] | [%] | <0.1 |

| Imperial | | | USLPore®75 |
|---|--------------------------|--|--------------------|
| | standard | entity | value |
| dry bulk density $\rho_{105\text{ °C}}$ | ASTM C 1693 | [pcf] | 4.7-5.6 |
| moisture absorption $\Delta_m, 23/80$ | ASTM C 1693 | [%] | <19.0 |
| thermal conductivity $\lambda_{10, tr}$ | ASTM C 177 ASTM C 518 | [R-value per in] Dry | 4.1 |
| thermal conductivity λ | ASTM C 177 ASTM C 518 | [R-value per in] considering moisture | 3.5 |
| compressive strength $\sigma_{10\%}$ | ASTM C 1693 | [PSI] | >18.1 |
| tensile strength σ_{mt} | ASTM C496 ASTM C1660 | [PSI] | >5.8 |
| bending / flexural strength σ_b | ASTM C 1609 | [PSI] | >5.8 |
| fire behaviour | ASTM E84 ASTM E136 | | non combustible |
| Dimension stability | ASTM C 1693 | [%] | <0.1 |

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