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YUE RUI CONCRETE MANUFACTURING LLC

# Dense Blocks

This high quality, robust and load bearing standard concrete block is used in majority of applications and is suitable for use above and below DPC level.
All products are 100% recyclable and where appropriate recycled graded aggregates are combined with locally sourced primary aggregates. All are manufactured in accordance with BS EN 771-3, ISO 9001 quality management & ISO14001 environmental management. Bekstone has been awarded BREEAM A* environmental profiling."

| Technical Specifications | Value/Description |
|---|---|
| **Dimensional tolerances:** | |
| Length | 440mm |
| Width | 100mm & 140mm |
| Height | 215mm |
| Weight | 18.8kg (100mm) & 26.6kg(140mm) |
| Tolerance | D1 |
| Dry density | 1980 kg/m² |
| Shape & features | Standard finish |
| Group according EN 1996-1-1 (EC6) | Group 1 (solid) |
| **Mean unit strength:** | |
| Mean normalised strength | 7.3 - 10.4N/mm² |
| Direction of load | Perpendicular to bed faces |
| Unit category | Cat II |
| Dimensional stability | <0.6mm/m |
| **Bond strength:** | |
| Shear bond | 0.15N/mm² (tabulated value) |
| Flexural bond | NPD |
| **Reaction to fire:** | |
| Classification to EN 13501-1 | A1 |
| **Water vapour diffusion coefficient:** | |
| Water absorption | NPD |
| Water vapour permeability | 5/15mm² (tabulated value) |
| **Thermal conductivity (W/mK):** | |
| Thermal conductivity | 1.00 W/(m.k) |
| **Sound:** | |
| Airborne sound insulation | Group 1 (solid) |
| **Durability:** | |
| Frost resistant | above 7.2N |
| **Dangerous substances:** | NPD |

# RUNJIAN Block Performance Index

## Internal/External Reinforced Anti-crack Block

| Size LxBxH | Grade | Structure Requirement | | | Dry Density (kg/m³) | Thermal Conductivity (W/m·K) | Anti-freezing | Drying Shrinkage (mm/m) |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| 600x30x250 | B05A3.5 | ✓ | ≥3.6 | ≥2.8 | ≤525 | 0.13 | Greater than average compressive strength ode matter 80% | ≤5.50 |
| 600x40x250 | B05A3.5 | ✓ | ≥3.6 | ≥2.8 | ≤525 | 0.13 | | |
| 600x200x250 | B05A3.5 | ✓ | ≥3.6 | ≥2.8 | ≤525 | 0.13 | | |
| 600x120x100 | B05A3.5 | ✓ | ≥3.6 | ≥2.8 | ≤525 | 0.13 | | |
| 600x150x150 | B05A3.5 | ✓ | ≥3.6 | ≥2.8 | ≤525 | 0.13 | | |
| 600x200x200 | B05A3.5 | ✓ | ≥3.6 | ≥2.8 | ≤525 | 0.13 | | |
| 600x240x250 | B05A3.5 | ✓ | ≥3.6 | ≥2.8 | ≤525 | 0.13 | | |
| 600x240x250 | B05A3.5 | ✓ | ≥3.6 | ≥2.8 | ≤525 | 0.13 | | |

## Internal/H/ Roinforced Anti-crack Large Block

| Size LxBxH | Grade | Structure Requirement | | | Dry Density (kg/m³) | Thermal Conductivity (W/m·K) | Anti-freezing | Drying Shrinkage (mm/m) |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| 600x60x250 | B05A3.5 | ✓ | ≥3.6 | ≥2.8 | ≤525 | 0.13 | average compressive | ≤5.50 |
| 600x200x100 | B05A3.5 | ✓ | ≥3.6 | ≥2.8 | ≤525 | 0.13 | | |
| 600x120x400 | B05A3.5 | ✓ | ≥3.6 | ≥2.8 | ≤525 | 0.13 | | |

## Internal/n/ Super Reinforced Anti-crack Block

| Size LxBxH | Grade | Structure Requirement | | | Dry Density (kg/m³) | Thermal Conductivity (W/m·K) | Anti-freezing | Drying Shrinkage (mm/m) |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| 600x200x250 | B05A3.5 | ✓ | ≥5.1 | | ≤525 | 0.15 | average compressive strength ≥ 80% | ≤5.50 |
| 600x200x250 | B05A3.5 | ✓ | ≥5.1 | | ≤525 | 0.15 | | |
| 600x240x250 | B05A3.5 | ✓ | ≥5.1 | | ≤525 | 0.15 | | |

# RUNJIAN Block Performance Index

## Thermal Insulation Block

| Size LxBxH | Grade | Structure Requirement | Compressive Strength (MPa) | | Dry Density (kg/m³) | Thermal Conductivity (W/m·K) | Anti-freezing | Drying Shrinkage (mm/m) |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| 600x500x390 | B03A1.0 | ✓ | ≥1.0 | ≥0.8 | ≤325 | 0.07 | Greater than average compressive strength 80% | ≤0.50 |
| 700x750x400 | B03A1.0 | ✓ | ≥1.0 | ≥0.8 | ≤325 | 0.07 | | |
| 700x700x400 | B03A1.0 | ✓ | ≥1.0 | ≥0.8 | ≤325 | 0.07 | | |
| 600x800x400 | B03A1.0 | ✓ | ≥1.0 | ≥2.8 | ≤325 | 0.07 | | |
| 600x240x400 | B03A1.0 | ✓ | ≥2.0 | ≥2.8 | ≤325 | 0.07 | | |
| 600x300x400 | B03A1.0 | ✓ | ≥2.0 | ≥2.0 | ≤325 | 0.07 | | |

## External Insulation Block

| Size LxBxH | Grade | Structure | Compressive Strength (MPa) | | Dry Density | Thermal Conductivity (W/m·k) | Anti-freezing | Drying Shrinkage (mm/m) |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| 600x60x550 | B04A2.5 | ✓ | ≥2.5 | | ≤425 | 0.09 | Greater than average compreasive strength 86% | ≤0.50 |
| 600x200x250 | B04A2.5 | ✓ | ≥2.5 | | ≤425 | 0.09 | | |
| 600x250x250 | B04A2.5 | ✓ | ≥2.0 | | ≤425 | 0.09 | | |
| 600x300x300 | B04A2.5 | ✓ | ≥2.5 | | ≤425 | 0.09 | | |

## External Wall Thermal Insulation Block

| Size LxBxH | Grade | Structure Requirement | | | Dry Density (kg/m³) | Thermal Conductivity (W/m·K) | Anti-freezing | Drying Shrinkage (mm/m) |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| 600x150x200 | B05A3.5 | ✓ | ≥2.5 | | ≤425 | 0.11 | average compressive | ≤0.50 |
| 600x200x250 | B05A3.5 | ✓ | ≥2.5 | | ≤525 | 0.11 | | |
| 600x300x250 | B03A3.5 | ✓ | ≥2.5 | | ≤525 | 0.11 | | |