

Declaration of Performance

DOP/5050246045216



Forterra Building Products Limited
5 Grange Park Court, Roman Way
Northampton, NN4 5EA

BS EN 771-1:2011 + A1:2015

MANDARIN MIXTURE

17

Category II, U, 215 x 102.5 x 65mm, clay masonry units
U Unit intended for use in unprotected masonry

Dimensional tolerances:

Tolerance category: T2

Range category: R1

Compressive strength: 75 N/mm² [⊥ bed face]

Water absorption: 7 %

Durability against freeze-thaw: F2

Active soluble salt content: S2

Reaction to fire: Class A1

Bond strength (Fixed value from EN 998-2): 0.15 N/mm²

Water vapour diffusion coefficient (EN 1745 table value): 50/100

Direct airborne sound insulation:

Gross density: 1650 kg/m³ (D1)

Configuration: Vertically Perforated 24-29% Voids

Equivalent thermal conductivity: 0.69 W/m.K [$\lambda_{10,dry}$]

Dimensional stability: NPD

Dangerous Substances: NPD

Other Information: Dry weight per brick: 2.4 kg
Bricks per pack: 452

See Also Declaration of Performance DOP/5057595037527

The performance of the product identified above is in conformity with the declared values, when installed in accordance with the manufacturer's instructions and general purpose or lightweight mortars.

- Unique identification code of the product type:
MANDARIN MIXTURE CLAY MASONRY UNITS, Unprotected U, Category II
- Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4).
SHOWMAN1600VO
- Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: **Unprotected facing and rendered masonry, load bearing or non load bearing masonry structures including internal linings and partitions for building and civil engineering**
- Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):
Forterra Building Products Limited
5 Grange Park Court, Roman Way,
Northampton, NN4 5EA
- System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:
System 4

6. Declared Performance

| Essential Characteristics | Performance | Harmonised Technical Specification |
|--------------------------------------|--|------------------------------------|
| Dimensions and Dimensional Tolerance | 215 x 102.5 x 65mm Tolerance Class T2 Range Class R1 | EN 771-1: 2011 + A1:2015 |
| Configuration | Vertically Perforated 24-29% Voids. Unit as shown in Figure 3c) of EN 771-1. Conforms to the requirements of Group 1 masonry units to EN 1996-1-1 | |
| Compressive Strength | 75 N/mm ² (tested normal to the bed face of the unit) Cat II | |
| Dimensional Stability | NPD | |
| Bond Strength | Fixed 0.15 N/mm ² | |
| Active Soluble Salts | Class S2 | Commission Decision 2000/605/EC |
| Reaction to Fire | Class A1 | |
| Water Absorption | 7 % (external elements) | EN 771-1: 2011 + A1:2015 |
| Water Vapour Permeability | 50/100 | |
| Direct Airborne Sound Insulation | Gross Dry Density 1650 kg/m ³ Configuration as above | |
| Equivalent Thermal Conductivity | 0.69 W/m.K [$\lambda_{10,dry}$] | |
| Durability Against Freeze Thaw | F2 | |
| Dangerous Substances | NPD | |

7. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 6.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

A C Cuthbert,
Quality Control Manager
Place of Signing: Northampton, UK

28 July 2021