

# Declaration of Performance

DOP/BP/SC- Wall Elements



Forterra Building Products Limited  
Trading as Bison Precast  
5 Grange Park Court, Roman Way  
Northampton, NN4 5EA

BS EN 14992:2007 + A1:2012

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## PRECAST PRODUCTS

Reinforced precast Concrete with or without façade function

Essential Characteristics	Performance
Concrete Compressive Strength	C50/60 (N/mm <sup>2</sup> )
Ultimate Tensile Strength	650 (N/mm <sup>2</sup> )
Grade B500A: Ultimate tensile strength	525 (N/mm <sup>2</sup> )
Grade B500B: Ultimate tensile strength	540 (N/mm <sup>2</sup> )
Grade B500C: Ultimate tensile strength	575 (N/mm <sup>2</sup> ) minimum
Grade B500C: Ultimate tensile strength	675 (N/mm <sup>2</sup> ) maximum
Tensile yield strength(All grades)	500 (N/mm <sup>2</sup> )
Wire / Strand Ultimate Tensile Strength	1770 (N/mm <sup>2</sup> )
Tensile 0.1% Proof stress	1556 (N/mm <sup>2</sup> ) Wire
Tensile 0.1% Proof stress	1551 (N/mm <sup>2</sup> ) Strand
For geometrical data, detailing, mechanical strength, acoustic insulation parameters and durability see design Specification	Design Drawings and Specification Related to Client Requirements
Dangerous Substances	NPD

See Also Declaration of Performance DOP/BP/SC- Wall Elements

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.

1. Unique identification code of the product type.

Type	Description
Solid Walls	Precast wall of any shape produced as solid unit including reinforcement and/or prestress strand/wire and fixtures
Composite Walls	Two precast reinforced layers which are joined together with a gap by means of a lattice girder system
Sandwich Walls	Comprised of a base panel, a thermal insulation layer, a possible air space and facing panel
Cladings	Non loadbearing panel fixed to the structure by means of a connecting system.

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4): Precast Concrete product – Wall Elements
3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: Structural – Solid, cladings, composite and sandwich walls.
4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):

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5. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

**System 2+**  
**1333-CPR-00198**

6. Declared Performance

Essential Characteristics	Performance	Harmonised Technical Specification
Concrete Compressive Strength	C50/60 (N/mm <sup>2</sup> )	BS EN 14992:2007 + A1:2012
Ultimate Tensile Strength	650 (N/mm <sup>2</sup> )	
Grade B500A: Ultimate tensile strength	525 (N/mm <sup>2</sup> )	
Grade B500B: Ultimate tensile strength	540 (N/mm <sup>2</sup> )	
Grade B500C: Ultimate tensile strength	575 (N/mm <sup>2</sup> ) min. 675 (N/mm <sup>2</sup> ) max	
Tensile yield strength(All grades)	500 (N/mm <sup>2</sup> )	
Wire / Strand Ultimate Tensile Strength	1770 (N/mm <sup>2</sup> )	
Tensile 0.1% Proof stress	1556 (N/mm <sup>2</sup> ) Wire	
Tensile 0.1% Proof stress	1551 (N/mm <sup>2</sup> ) Strand	
For geometrical data, detailing, mechanical strength, acoustic insulation parameters and durability see design Specification	Design Drawings and Specification Related to Client Requirements	
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:

Dr John Cotton CEng MICE,  
Engineering Manager

Date: 26<sup>th</sup> Novemeber 2018