# **Declaration of Performance**

# DOP/BP/SC-Beam, Columns and Frame 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.

Туре	Descripation	
Beam	Element, usually horizontal, for carrying loads primarily by flexure	
Column	Vertical bearing elemt subject mainly to compression	
Frame	Frame Structure composed of two or more linear elements together to provide structural stability	

- 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 – Linear Structural Elements
- 3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: Construction of the buildings & other civil engineering works except bridges.
- 4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):

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

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

Essential Characteristics	Performance	Harmonised Technical Specification
Concrete Compressive Strength	C40/50 (N/mm <sup>2</sup> )	
Ultimate Tensile Strength	650 (N/mm²)	
Grade B500A: Ultimate tensile strength	525 (N/mm²)	
Grade B500B: Ultimate tensile strength	540 (N/mm²)	
Grade B500C: Ultimate tensile strength	575 (N/mm <sup>2</sup> ) min. 675 (N/mm <sup>2</sup> ) max	BS EN 13225:2013
Tensile yield strength(All grades)	500 (N/mm²)	
Wire / StrandUltimate Tensile Strength	1770 (N/mm²)	
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	Design Drawings and Specification	7
strength, acoustic insulation parameters and durability see design Specification	Related to Client Requirements	
Dangerous Substances	NPD	BS EN 13225:2013

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

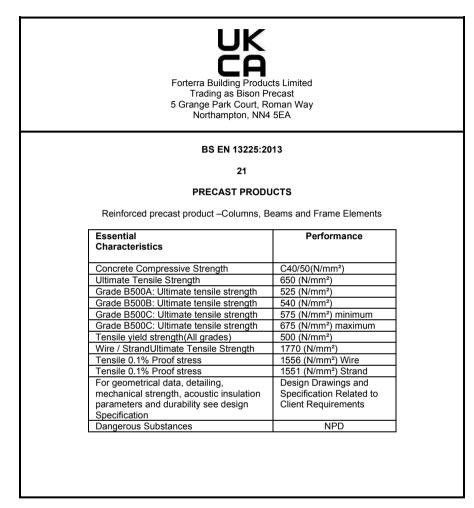
This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Dr John Cotton CEng MICE, Engineering Manager



Date: 22<sup>nd</sup> February 2021



See Also Declaration of Performance DOP/BP/SC- Columns, Beams and Frame Elements

# **Declaration of Performance**

# DOP/BP/SW-Beam, Columns and Frame 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.

Туре	Descripation	
Beam	Element, usually horizontal, for carrying loads primarily by flexure	
Column	Vertical bearing elemt subject mainly to compression	
Frame	Frame Structure composed of two or more linear elements together to provide structural stability	

- 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 Linear Structural Elements
- 3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: Construction of the buildings & other civil engineering works except bridges.
- 4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):

Forterra Building Products Limited Trading as Bison Precast 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 2+

## 1333-CPR-00222

6. Declared Performance	1	
Essential Characteristics	Performance	Harmonised Technical Specification
Concrete Compressive Strength	C40/50 (N/mm <sup>2</sup> )	
Ultimate Tensile Strength	650 (N/mm <sup>2</sup> )	
Grade B500A: Ultimate tensile strength	525 (N/mm²)	
Grade B500B: Ultimate tensile strength	540 (N/mm²)	
Grade B500C: Ultimate tensile strength	575 (N/mm <sup>2</sup> ) min. 675 (N/mm <sup>2</sup> ) max	BS EN 13225:2013
Tensile yield strength(All grades)	500 (N/mm²)	
Wire / StrandUltimate Tensile Strength	1770 (N/mm²)	
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	Design Drawings and Specification	
strength, acoustic insulation parameters	Related to Client Requirements	
and durability see design Specification		
Dangerous Substances	NPD	BS EN 13225:2013

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.

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Signed for and on behalf of the manufacturer by:

Dr John Cotton CEng MICE, Engineering Manager



### UK Forterra Building Products Limited Trading as Bison Precast 5 Grange Park Court, Roman Way Northampton, NN4 5EA BS EN 13225:2013 21 PRECAST PRODUCTS Reinforced precast product -Columns, Beams and Frame Elements Essential Performance Characteristics Concrete Compressive Strength C40/50(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>) 575 (N/mm<sup>2</sup>) minimum Grade B500C: Ultimate tensile strength Grade B500C: Ultimate tensile strength 675 (N/mm<sup>2</sup>) maximum Tensile yield strength(All grades) 500 (N/mm<sup>2</sup>) Wire / StrandUltimate 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, Design Drawings and mechanical strength, acoustic insulation Specification Related to parameters and durability see design Client Requirements Specification Dangerous Substances NPD

See Also Declaration of Performance DOP/BP/SW- Columns, Beams and Frame Elements