DECLARATION OF PERFORMANCE

BSF 10-2024

1. Unique identification code of the product-type:
BSF225, BSF300, BSF450, BSF700 BSF1100 Beam to column and beam to beam connectors

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):
Invisible Connections Beam and column and beam to beam connectors type BSF

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Generic type and use	BSF inserts are a mechanical beam support. Four different BSF units are available, with various capacities according to their size. The system consists of 3 main parts. a) A beam box. This is cast into the beam which is being supported. It works in conjunction with purpose-bent reinforcing bars and threaded rods to transfer loads into the body of the concrete. b) A column box. This is cast into the column. c) A sliding 'knife'. This solid steel member actually carries the load from one member to another. It is placed within the beam box, and then partially slid out when in position, to bear on the bottom of the column box.
Product size covered	BSF225, BSF300, BSF450, BSF700, BSF1100
Base material / base material strength	Concrete minimum C35/45 in accordance with EN 206-1:2000-12
Base material condition	Cracked and non-cracked concrete
Insert material	Steel grade S355 J2H in accordance with EN 10219-1 Finished as plain or as hot dipped galvanized according to ISO 1461

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4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

Invisible Connections is a trademark of Invisible Connections AS, Øran Vest, 6300 Andalsnes, Norway

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2): ----

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:
System 2+

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard: ---
EN 1090-1:2009+A1:2011 No: 1071 – CPR – 1797

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

Essential Characteristics	Performance of the product
Loading capacity	Vertical load capacity BSF225 225 kN Vertical load capacity BSF300 300 kN Vertical load capacity BSF450 450 kN Vertical load capacity BSF700 700 kN Vertical load capacity BSF1100 1100 kN
Characteristic resistance for shear (with reinforcement)	EN 1090-2
Fire exposure	NPD
Fatigue loading	NPD
Minimum beam and column size and concrete thickness	See Invisible Connections guidelines 502 BSF MAIN DIMESIONS
Insert material	Steel grade S355 J2H in accordance with EN 10219-1 according to ISO 1461
Weldability	Steel S355J2
Execution class	EXC 2 according to EN 1090
Manufacturing	According to EN 1090
Insert Material	Steel grade S355 J2H in accordance with EN 10219-1 according to ISO 1461

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9. Certificate of conformity of the factory production control according to the DIN EN 1090

Name and address of the notified body: SINTEF, P-O.Box 124 Blindern, NO 0314 Oslo
Identification number of notified body: 1071
Number of certificates: 1071– CPR – 1797

10. Appropriate Technical Documentation and/or Specific Technical Documentation

See www.invisibleconnections.no The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 7.
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:

Aandalsnes , August 13th , 2024

Nils Magne Dale
CEO
Invisible Connections AS

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