



**Declaration of Performance**

Certificate Number: DOP/F/FP/HV-Hollowcore/P100

The undersigned, representing the following:

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

Confirms that:

**Prestressed/Reinforced Hollow core slabs(for floors):- P100**

Manufacturing Plant: **Hoveringham**

**13**

FPC Certificate No.: 1333 - CPR - 00197

Conforms to harmonised European Standard: BS EN 1168:2005+A3 2011

Category I: 100 x 1200 concrete pre-stressed units

Provision to which the product conforms: Standard: Annex ZA of BS EN 1168:2005+A3 2011

Regulation (EU) No. 305 / 2011

**Concrete:**

Compressive strength.....  $f_{ck}$ : C50/60 N/mm<sup>2</sup>

**Prestressing steel:**

Ultimate tensile strength.....  $f_{pk}$ : 1770 kN/m<sup>2</sup>

Tensile 0.1% proof stress.....  $f_{p0.1k}$ : 1470 kN/m<sup>2</sup>

**Mechanical Resistance(design values):**

Bending moment capacity

(of middle section)..... 43.1 kNm

Shear capacity(of the end section)..... 186.2 kN

**Resistance to fire R**..... 60 minutes

For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation

**Technical documentation:** Product Handbook and Technical File\*

\* Available on request

Note information on Dangerous Substances will only be given when and where required in the appropriate form.

The performance of the product identified above is in conformity with the declared values, when installed in accordance with the manufacture's instructions.

Signed on behalf of the manufacture: *Matthew Clay* Full name: Matthew Clay

Position: Managing Director (Design Solution) Date: 06 June 2017

Version: 3



1333

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

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FPC Certificate No.: 1333 - CPR - 00197

**BS EN 1168:2005+A3 2011**

Precast concrete products - Hollow core slabs

**Product Name: P100**

Category I: Prestressed/Reinforced Hollow core slabs(for floors)

**Concrete:**

Compressive strength.....  $f_{ck}$ : C50/60 N/mm<sup>2</sup>

**Prestressing steel:**

Ultimate tensile strength.....  $f_{pk}$ : 1770 kN/m<sup>2</sup>

Tensile 0.1% proof stress.....  $f_{p0.1k}$ : 1470 kN/m<sup>2</sup>

**Mechanical Resistance(design values):**

Bending moment capacity

(of middle section)..... 43.1 kNm

Shear capacity(of the end section)..... 186.2 kN

**Resistance to fire R**..... 60 minutes

For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation

**Technical documentation:** Product Handbook and Technical File \*

\* Available on request

Version: 3



### Declaration of Performance

Certificate Number: DOP/F/FP/HV-Hollowcore/P150C

The undersigned, representing the following:

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

Confirms that:

#### Prestressed/Reinforced Hollow core slabs(for floors):- P150C

Manufacturing Plant: **Hoveringham**

**13**

FPC Certificate No.: 1333 - CPR - 00197

Conforms to harmonised European Standard: BS EN 1168:2005+A3 2011

Category I: 150 x 1200 concrete pre-stressed units

Provision to which the product conforms: Standard: Annex ZA of BS EN 1168:2005+A3 2011  
Regulation (EU) No. 305 / 2011

#### Concrete:

Compressive strength.....  $f_{ck}$ : C50/60 N/mm<sup>2</sup>

#### Prestressing steel:

Ultimate tensile strength.....  $f_{pk}$ : 1770 kN/m<sup>2</sup>

Tensile 0.1% proof stress.....  $f_{p0.1k}$ : 1470 kN/m<sup>2</sup>

#### Mechanical Resistance(design values):

Bending moment capacity

(of middle section)..... 103.3 kNm

Shear capacity(of the end section)..... 284.2 kN

Resistance to fire R..... 90 minutes

For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation

Technical documentation: Product Handbook and Technical File\*

\* Available on request

Note information on Dangerous Substances will only be given when and where required in the appropriate form.

The performance of the product identified above is in conformity with the declared values, when installed in accordance with the manufacturer's instructions.

Signed on behalf of the manufacture: *Matthew Clay* Full name: Matthew Clay

Position: Managing Director (Design Solution) Date: 06 June 2017

Version: 3



1333

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

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FPC Certificate No.: 1333 - CPR - 00197

#### BS EN 1168:2005+A3 2011

Precast concrete products - Hollow core slabs

#### Product Name: P150C

Category I: Prestressed/Reinforced Hollow core slabs(for floors)

#### Concrete:

Compressive strength.....  $f_{ck}$ : C50/60 N/mm<sup>2</sup>

#### Prestressing steel:

Ultimate tensile strength.....  $f_{pk}$ : 1770 kN/m<sup>2</sup>

Tensile 0.1% proof stress.....  $f_{p0.1k}$ : 1470 kN/m<sup>2</sup>

#### Mechanical Resistance(design values):

Bending moment capacity

(of middle section)..... 103.3 kNm

Shear capacity(of the end section)..... 284.2 kN

Resistance to fire R..... 90 minutes

For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation

Technical documentation: Product Handbook and Technical File \*

\* Available on request

Version: 3



**Declaration of Performance**

Certificate Number: DOP/F/FP/HV-Hollowcore/A150

The undersigned, representing the following:

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

Confirms that:

**Prestressed/Reinforced Hollow core slabs(for floors):- A150**

Manufacturing Plant: **Hoveringham**

**13**

FPC Certificate No.: 1333 - CPR - 00197

Conforms to harmonised European Standard: BS EN 1168:2005+A3 2011

Category I: 150 x 1200 concrete pre-stressed units

Provision to which the product conforms: Standard: Annex ZA of BS EN 1168:2005+A3 2011  
Regulation (EU) No. 305 / 2011

**Concrete:**

Compressive strength.....  $f_{ck}$ : C50/60 N/mm<sup>2</sup>

**Prestressing steel:**

Ultimate tensile strength.....  $f_{pk}$ : 1770 kN/m<sup>2</sup>

Tensile 0.1% proof stress.....  $f_{p0.1k}$ : 1470 kN/m<sup>2</sup>

**Mechanical Resistance**(design values):

Bending moment capacity

(of middle section)..... 100.7 kNm

Shear capacity(of the end section)..... 105.6 kN

**Resistance to fire R**..... 60 minutes

For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation

**Technical documentation:** Product Handbook and Technical File\*

\* Available on request

Note information on Dangerous Substances will only be given when and where required in the appropriate form.

The performance of the product identified above is in conformity with the declared values, when installed in accordance with the manufacturer's instructions.

Signed on behalf of the manufacture: *Matthew Clay* Full name: Matthew Clay

Position: Managing Director (Design Solution) Date: 06 June 2017

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

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FPC Certificate No.: 1333 - CPR - 00197

**BS EN 1168:2005+A3 2011**

Precast concrete products - Hollow core slabs

**Product Name: A150**

Category I: Prestressed/Reinforced Hollow core slabs(for floors)

**Concrete:**

Compressive strength.....  $f_{ck}$ : C50/60 N/mm<sup>2</sup>

**Prestressing steel:**

Ultimate tensile strength.....  $f_{pk}$ : 1770 kN/m<sup>2</sup>

Tensile 0.1% proof stress.....  $f_{p0.1k}$ : 1470 kN/m<sup>2</sup>

**Mechanical Resistance**(design values):

Bending moment capacity

(of middle section)..... 100.7 kNm

Shear capacity(of the end section)..... 105.6 kN

**Resistance to fire R**..... 60 minutes

For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation

**Technical documentation:** Product Handbook and Technical File \*

\* Available on request

Version: 3



**Declaration of Performance**

Certificate Number: DOP/F/FP/HV-Hollowcore/A159

The undersigned, representing the following:

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

Confirms that:

**Prestressed/Reinforced Hollow core slabs(for floors):- A159**

Manufacturing Plant: **Hoveringham**

**13**

FPC Certificate No.: 1333 - CPR - 00197

Conforms to harmonised European Standard: BS EN 1168:2005+A3 2011

Category I: 150 x 1200 concrete pre-stressed units

Provision to which the product conforms: Standard: Annex ZA of BS EN 1168:2005+A3 2011  
Regulation (EU) No. 305 / 2011

**Concrete:**

Compressive strength.....  $f_{ck}$ : C50/60 N/mm<sup>2</sup>

**Prestressing steel:**

Ultimate tensile strength.....  $f_{pk}$ : 1770 kN/m<sup>2</sup>

Tensile 0.1% proof stress.....  $f_{p0.1k}$ : 1470 kN/m<sup>2</sup>

**Mechanical Resistance**(design values):

Bending moment capacity

(of middle section)..... 64.9 kNm

Shear capacity(of the end section)..... 98.1 kN

**Resistance to fire R**..... 60 minutes

For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation

**Technical documentation:** Product Handbook and Technical File\*

\* Available on request

Note information on Dangerous Substances will only be given when and where required in the appropriate form.

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Signed on behalf of the manufacture: *Matthew Clay* Full name: Matthew Clay

Position: Managing Director (Design Solution) Date: 06 June 2017

Version: 3



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

13

FPC Certificate No.: 1333 - CPR - 00197

**BS EN 1168:2005+A3 2011**

Precast concrete products - Hollow core slabs

**Product Name: A159**

Category I: Prestressed/Reinforced Hollow core slabs(for floors)

**Concrete:**

Compressive strength.....  $f_{ck}$ : C50/60 N/mm<sup>2</sup>

**Prestressing steel:**

Ultimate tensile strength.....  $f_{pk}$ : 1770 kN/m<sup>2</sup>

Tensile 0.1% proof stress.....  $f_{p0.1k}$ : 1470 kN/m<sup>2</sup>

**Mechanical Resistance**(design values):

Bending moment capacity

(of middle section)..... 64.9 kNm

Shear capacity(of the end section)..... 98.1 kN

**Resistance to fire R**..... 60 minutes

For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation

**Technical documentation:** Product Handbook and Technical File \*

\* Available on request

Version: 3



**Declaration of Performance**

Certificate Number: DOP/F/FP/HV-Hollowcore/A150H

The undersigned, representing the following:

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

Confirms that:

**Prestressed/Reinforced Hollow core slabs(for floors):- A150H**

Manufacturing Plant: **Hoveringham**

**13**

FPC Certificate No.: 1333 - CPR - 00197

Conforms to harmonised European Standard: BS EN 1168:2005+A3 2011

Category I: 150 x 1200 concrete pre-stressed units

Provision to which the product conforms: Standard: Annex ZA of BS EN 1168:2005+A3 2011

Regulation (EU) No. 305 / 2011

**Concrete:**

Compressive strength.....  $f_{ck}$ : C50/60 N/mm<sup>2</sup>

**Prestressing steel:**

Ultimate tensile strength.....  $f_{pk}$ : 1770 kN/m<sup>2</sup>

Tensile 0.1% proof stress.....  $f_{p0.1k}$ : 1470 kN/m<sup>2</sup>

**Mechanical Resistance(design values):**

Bending moment capacity

(of middle section)..... 103.2 kNm

Shear capacity(of the end section)..... 144.7 kN

**Resistance to fire R**..... 60 minutes

For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation

**Technical documentation:** Product Handbook and Technical File\*

\* Available on request

Note information on Dangerous Substances will only be given when and where required in the appropriate form.

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Signed on behalf of the manufacture: *Matthew Clay* Full name: Matthew Clay

Position: Managing Director (Design Solution) Date: 06 June 2017

Version: 3



1333

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

13

FPC Certificate No.: 1333 - CPR - 00197

**BS EN 1168:2005+A3 2011**

Precast concrete products - Hollow core slabs

**Product Name: A150H**

Category I: Prestressed/Reinforced Hollow core slabs(for floors)

**Concrete:**

Compressive strength.....  $f_{ck}$ : C50/60 N/mm<sup>2</sup>

**Prestressing steel:**

Ultimate tensile strength.....  $f_{pk}$ : 1770 kN/m<sup>2</sup>

Tensile 0.1% proof stress.....  $f_{p0.1k}$ : 1470 kN/m<sup>2</sup>

**Mechanical Resistance(design values):**

Bending moment capacity

(of middle section)..... 103.2 kNm

Shear capacity(of the end section)..... 144.7 kN

**Resistance to fire R**..... 60 minutes

For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation

**Technical documentation:** Product Handbook and Technical File \*

\* Available on request

Version: 3



**Declaration of Performance**

Certificate Number: DOP/F/FP/IV-Hollowcore/A150HN

The undersigned, representing the following:

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

Confirms that:

**Prestressed/Reinforced Hollow core slabs(for floors):- A150HN**

Manufacturing Plant: **Hoveringham**

**13**

FPC Certificate No.: 1333 - CPR - 00197

Conforms to harmonised European Standard: BS EN 1168:2005+A3 2011

Category I: 150 x 520 concrete pre-stressed units

Provision to which the product conforms: Standard: Annex ZA of BS EN 1168:2005+A3 2011  
Regulation (EU) No. 305 / 2011

**Concrete:**

Compressive strength.....  $f_{ck}$ : C50/60 N/mm<sup>2</sup>

**Prestressing steel:**

Ultimate tensile strength.....  $f_{pk}$ : 1770 kN/m<sup>2</sup>

Tensile 0.1% proof stress.....  $f_{p0.1k}$ : 1470 kN/m<sup>2</sup>

**Mechanical Resistance**(design values):

Bending moment capacity

(of middle section)..... 47.9 kNm

Shear capacity(of the end section)..... 65.0 kN

**Resistance to fire R**..... 60 minutes

For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation

**Technical documentation:** Product Handbook and Technical File\*

\* Available on request

Note information on Dangerous Substances will only be given when and where required in the appropriate form.

The performance of the product identified above is in conformity with the declared values, when installed in accordance with the manufacturer's instructions.

Signed on behalf of the manufacture: *Matthew Clay* Full name: Matthew Clay

Position: Managing Director (Design Solution) Date: 06 June 2017

Version: 3



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

13

FPC Certificate No.: 1333 - CPR - 00197

**BS EN 1168:2005+A3 2011**

Precast concrete products - Hollow core slabs

**Product Name: A150HN**

Category I: Prestressed/Reinforced Hollow core slabs(for floors)

**Concrete:**

Compressive strength.....  $f_{ck}$ : C50/60 N/mm<sup>2</sup>

**Prestressing steel:**

Ultimate tensile strength.....  $f_{pk}$ : 1770 kN/m<sup>2</sup>

Tensile 0.1% proof stress.....  $f_{p0.1k}$ : 1470 kN/m<sup>2</sup>

**Mechanical Resistance**(design values):

Bending moment capacity

(of middle section)..... 47.9 kNm

Shear capacity(of the end section)..... 65.0 kN

**Resistance to fire R**..... 60 minutes

For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation

**Technical documentation:** Product Handbook and Technical File \*

\* Available on request

Version: 3



### Declaration of Performance

Certificate Number: DOP/F/FP/HV-Hollowcore/A159H

The undersigned, representing the following:

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

Confirms that:

#### Prestressed/Reinforced Hollow core slabs(for floors):- A159H

Manufacturing Plant: **Hoveringham**

**13**

FPC Certificate No.: 1333 - CPR - 00197

Conforms to harmonised European Standard: BS EN 1168:2005+A3 2011

Category I: 150 x 1200 concrete pre-stressed units

Provision to which the product conforms: Standard: Annex ZA of BS EN 1168:2005+A3 2011

Regulation (EU) No. 305 / 2011

#### Concrete:

Compressive strength.....  $f_{ck}$ : C50/60 N/mm<sup>2</sup>

#### Prestressing steel:

Ultimate tensile strength.....  $f_{pk}$ : 1770 kN/m<sup>2</sup>

Tensile 0.1% proof stress.....  $f_{p0.1k}$ : 1470 kN/m<sup>2</sup>

#### Mechanical Resistance(design values):

Bending moment capacity

(of middle section)..... 65.0 kNm

Shear capacity(of the end section)..... 130.7 kN

Resistance to fire R..... 60 minutes

For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation

Technical documentation: Product Handbook and Technical File\*

\* Available on request

Note information on Dangerous Substances will only be given when and where required in the appropriate form.

The performance of the product identified above is in conformity with the declared values, when installed in accordance with the manufacture's instructions.

Signed on behalf of the manufacture:  Full name: Matthew Clay

Position: Managing Director (Design Solution) Date: 06 June 2017

Version: 3



1333

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

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FPC Certificate No.: 1333 - CPR - 00197

#### BS EN 1168:2005+A3 2011

Precast concrete products - Hollow core slabs

#### Product Name: A159H

Category I: Prestressed/Reinforced Hollow core slabs(for floors)

#### Concrete:

Compressive strength.....  $f_{ck}$ : C50/60 N/mm<sup>2</sup>

#### Prestressing steel:

Ultimate tensile strength.....  $f_{pk}$ : 1770 kN/m<sup>2</sup>

Tensile 0.1% proof stress.....  $f_{p0.1k}$ : 1470 kN/m<sup>2</sup>

#### Mechanical Resistance(design values):

Bending moment capacity

(of middle section)..... 65.0 kNm

Shear capacity(of the end section)..... 130.7 kN

Resistance to fire R..... 60 minutes

For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation

Technical documentation: Product Handbook and Technical File \*

\* Available on request

Version: 3



**Declaration of Performance**

Certificate Number: DOP/F/FP/HV-Hollowcore/A200

The undersigned, representing the following:

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

Confirms that:

**Prestressed/Reinforced Hollow core slabs(for floors):- A200**

Manufacturing Plant: **Hoveringham**

**13**

FPC Certificate No.: 1333 - CPR - 00197

Conforms to harmonised European Standard: BS EN 1168:2005+A3 2011

Category I: 200 x 1200 concrete pre-stressed units

Provision to which the product conforms: Standard: Annex ZA of BS EN 1168:2005+A3 2011  
Regulation (EU) No. 305 / 2011

**Concrete:**

Compressive strength.....  $f_{ck}$ : C50/60 N/mm<sup>2</sup>

**Prestressing steel:**

Ultimate tensile strength.....  $f_{pk}$ : 1770 kN/m<sup>2</sup>

Tensile 0.1% proof stress.....  $f_{p0.1k}$ : 1470 kN/m<sup>2</sup>

**Mechanical Resistance**(design values):

Bending moment capacity

(of middle section)..... 140.0 kNm

Shear capacity(of the end section)..... 123.7 kN

**Resistance to fire R**..... 60 minutes

For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation

**Technical documentation:** Product Handbook and Technical File\*

\* Available on request

Note information on Dangerous Substances will only be given when and where required in the appropriate form.

The performance of the product identified above is in conformity with the declared values, when installed in accordance with the manufacturer's instructions.

Signed on behalf of the manufacture: *Matthew Clay* Full name: Matthew Clay

Position: Managing Director (Design Solution) Date: 06 June 2017

Version: 3



1333

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

13

FPC Certificate No.: 1333 - CPR - 00197

**BS EN 1168:2005+A3 2011**

Precast concrete products - Hollow core slabs

**Product Name: A200**

Category I: Prestressed/Reinforced Hollow core slabs(for floors)

**Concrete:**

Compressive strength.....  $f_{ck}$ : C50/60 N/mm<sup>2</sup>

**Prestressing steel:**

Ultimate tensile strength.....  $f_{pk}$ : 1770 kN/m<sup>2</sup>

Tensile 0.1% proof stress.....  $f_{p0.1k}$ : 1470 kN/m<sup>2</sup>

**Mechanical Resistance**(design values):

Bending moment capacity

(of middle section)..... 140.0 kNm

Shear capacity(of the end section)..... 123.7 kN

**Resistance to fire R**..... 60 minutes

For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation

**Technical documentation:** Product Handbook and Technical File \*

\* Available on request

Version: 3





**Declaration of Performance**

Certificate Number: DOP/F/FP/HV-Hollowcore/A209

The undersigned, representing the following:

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

Confirms that:

**Prestressed/Reinforced Hollow core slabs(for floors):- A209**

Manufacturing Plant: **Hoveringham**

**13**

FPC Certificate No.: 1333 - CPR - 00197

Conforms to harmonised European Standard: BS EN 1168:2005+A3 2011

Category I: 2000 x 1200 concrete pre-stressed units

Provision to which the product conforms: Standard: Annex ZA of BS EN 1168:2005+A3 2011

Regulation (EU) No. 305 / 2011

**Concrete:**

Compressive strength.....  $f_{ck}$ : C50/60 N/mm<sup>2</sup>

**Prestressing steel:**

Ultimate tensile strength.....  $f_{pk}$ : 1770 kN/m<sup>2</sup>

Tensile 0.1% proof stress.....  $f_{p0.1k}$ : 1470 kN/m<sup>2</sup>

**Mechanical Resistance**(design values):

Bending moment capacity

(of middle section)..... 93.0 kNm

Shear capacity(of the end section)..... 118.2 kN

**Resistance to fire R**..... 60 minutes

For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation

**Technical documentation:** Product Handbook and Technical File\*

\* Available on request

Note information on Dangerous Substances will only be given when and where required in the appropriate form.

The performance of the product identified above is in conformity with the declared values, when installed in accordance with the manufacturer's instructions.

Signed on behalf of the manufacture: *Matthew Clay* Full name: Matthew Clay

Position: Managing Director (Design Solution) Date: 06 June 2017

Version: 3



1333

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

13

FPC Certificate No.: 1333 - CPR - 00197

**BS EN 1168:2005+A3 2011**

Precast concrete products - Hollow core slabs

**Product Name: A209**

Category I: Prestressed/Reinforced Hollow core slabs(for floors)

**Concrete:**

Compressive strength.....  $f_{ck}$ : C50/60 N/mm<sup>2</sup>

**Prestressing steel:**

Ultimate tensile strength.....  $f_{pk}$ : 1770 kN/m<sup>2</sup>

Tensile 0.1% proof stress.....  $f_{p0.1k}$ : 1470 kN/m<sup>2</sup>

**Mechanical Resistance**(design values):

Bending moment capacity

(of middle section)..... 93.0 kNm

Shear capacity(of the end section)..... 118.2 kN

**Resistance to fire R**..... 60 minutes

For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation

**Technical documentation:** Product Handbook and Technical File \*

\* Available on request

Version: 3



**Declaration of Performance**

Certificate Number: DOP/F/FP/HV-Hollowcore/A200N

The undersigned, representing the following:

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

Confirms that:

**Prestressed/Reinforced Hollow core slabs(for floors):- A200N**

Manufacturing Plant: **Hoveringham**

**13**

FPC Certificate No.: 1333 - CPR - 00197

Conforms to harmonised European Standard: BS EN 1168:2005+A3 2011

Category I: 200 x 520 concrete pre-stressed units

Provision to which the product conforms: Standard: Annex ZA of BS EN 1168:2005+A3 2011  
Regulation (EU) No. 305 / 2011

**Concrete:**

Compressive strength.....  $f_{ck}$ : C50/60 N/mm<sup>2</sup>

**Prestressing steel:**

Ultimate tensile strength.....  $f_{pk}$ : 1770 kN/m<sup>2</sup>

Tensile 0.1% proof stress.....  $f_{p0.1k}$ : 1470 kN/m<sup>2</sup>

**Mechanical Resistance**(design values):

Bending moment capacity

(of middle section)..... 80.8 kNm

Shear capacity(of the end section)..... 62.3 kN

**Resistance to fire R**..... 60 minutes

For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation

**Technical documentation:** Product Handbook and Technical File\*

\* Available on request

Note information on Dangerous Substances will only be given when and where required in the appropriate form.

The performance of the product identified above is in conformity with the declared values, when installed in accordance with the manufacturer's instructions.

Signed on behalf of the manufacture: *Matthew Clay* Full name: Matthew Clay

Position: Managing Director (Design Solution) Date: 06 June 2017

Version: 3



1333

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

13

FPC Certificate No.: 1333 - CPR - 00197

**BS EN 1168:2005+A3 2011**

Precast concrete products - Hollow core slabs

**Product Name: A200N**

Category I: Prestressed/Reinforced Hollow core slabs(for floors)

**Concrete:**

Compressive strength.....  $f_{ck}$ : C50/60 N/mm<sup>2</sup>

**Prestressing steel:**

Ultimate tensile strength.....  $f_{pk}$ : 1770 kN/m<sup>2</sup>

Tensile 0.1% proof stress.....  $f_{p0.1k}$ : 1470 kN/m<sup>2</sup>

**Mechanical Resistance**(design values):

Bending moment capacity

(of middle section)..... 80.8 kNm

Shear capacity(of the end section)..... 62.3 kN

**Resistance to fire R**..... 60 minutes

For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation

**Technical documentation:** Product Handbook and Technical File \*

\* Available on request

Version: 3



**Declaration of Performance**

Certificate Number: DOP/F/FP/HV-Hollowcore/E200

The undersigned, representing the following:

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

Confirms that:

**Prestressed/Reinforced Hollow core slabs(for floors):- E200**

Manufacturing Plant: **Hoveringham**

**13**

FPC Certificate No.: 1333 - CPR - 00197

Conforms to harmonised European Standard: BS EN 1168:2005+A3 2011

Category I: 200 x 1200 concrete pre-stressed units

Provision to which the product conforms: Standard: Annex ZA of BS EN 1168:2005+A3 2011  
Regulation (EU) No. 305 / 2011

**Concrete:**

Compressive strength.....  $f_{ck}$ : C50/60 N/mm<sup>2</sup>

**Prestressing steel:**

Ultimate tensile strength.....  $f_{pk}$ : 1770 kN/m<sup>2</sup>

Tensile 0.1% proof stress.....  $f_{p0.1k}$ : 1470 kN/m<sup>2</sup>

**Mechanical Resistance**(design values):

Bending moment capacity

(of middle section)..... 151.5 kNm

Shear capacity(of the end section)..... 129.8 kN

**Resistance to fire R**..... 60 minutes

For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation

**Technical documentation:** Product Handbook and Technical File\*

\* Available on request

Note information on Dangerous Substances will only be given when and where required in the appropriate form.

The performance of the product identified above is in conformity with the declared values, when installed in accordance with the manufacturer's instructions.

Signed on behalf of the manufacture: *Matthew Clay* Full name: Matthew Clay

Position: Managing Director (Design Solution) Date: 06 June 2017

Version: 3



1333

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

13

FPC Certificate No.: 1333 - CPR - 00197

**BS EN 1168:2005+A3 2011**

Precast concrete products - Hollow core slabs

**Product Name: E200**

Category I: Prestressed/Reinforced Hollow core slabs(for floors)

**Concrete:**

Compressive strength.....  $f_{ck}$ : C50/60 N/mm<sup>2</sup>

**Prestressing steel:**

Ultimate tensile strength.....  $f_{pk}$ : 1770 kN/m<sup>2</sup>

Tensile 0.1% proof stress.....  $f_{p0.1k}$ : 1470 kN/m<sup>2</sup>

**Mechanical Resistance**(design values):

Bending moment capacity

(of middle section)..... 151.5 kNm

Shear capacity(of the end section)..... 129.8 kN

**Resistance to fire R**..... 60 minutes

For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation

**Technical documentation:** Product Handbook and Technical File \*

\* Available on request

Version: 3



**Declaration of Performance**

Certificate Number: DOP/F/FP/HV-Hollowcore/A250

The undersigned, representing the following:

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

Confirms that:

**Prestressed/Reinforced Hollow core slabs(for floors):- A250**

Manufacturing Plant: **Hoveringham**

**13**

FPC Certificate No.: 1333 - CPR - 00197

Conforms to harmonised European Standard: BS EN 1168:2005+A3 2011

Category I: 250 x 1200 concrete pre-stressed units

Provision to which the product conforms: Standard: Annex ZA of BS EN 1168:2005+A3 2011  
Regulation (EU) No. 305 / 2011

**Concrete:**

Compressive strength.....  $f_{ck}$ : C50/60 N/mm<sup>2</sup>

**Prestressing steel:**

Ultimate tensile strength.....  $f_{pk}$ : 1770 kN/m<sup>2</sup>

Tensile 0.1% proof stress.....  $f_{p0.1k}$ : 1470 kN/m<sup>2</sup>

**Mechanical Resistance**(design values):

Bending moment capacity

(of middle section)..... 203.2 kNm

Shear capacity(of the end section)..... 161.3 kN

**Resistance to fire R**..... 60 minutes

For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation

**Technical documentation:** Product Handbook and Technical File\*

\* Available on request

Note information on Dangerous Substances will only be given when and where required in the appropriate form.

The performance of the product identified above is in conformity with the declared values, when installed in accordance with the manufacturer's instructions.

Signed on behalf of the manufacture: *Matthew Clay* Full name: Matthew Clay

Position: Managing Director (Design Solution) Date: 06 June 2017

Version: 3



1333

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

13

FPC Certificate No.: 1333 - CPR - 00197

**BS EN 1168:2005+A3 2011**

Precast concrete products - Hollow core slabs

**Product Name: A250**

Category I: Prestressed/Reinforced Hollow core slabs(for floors)

**Concrete:**

Compressive strength.....  $f_{ck}$ : C50/60 N/mm<sup>2</sup>

**Prestressing steel:**

Ultimate tensile strength.....  $f_{pk}$ : 1770 kN/m<sup>2</sup>

Tensile 0.1% proof stress.....  $f_{p0.1k}$ : 1470 kN/m<sup>2</sup>

**Mechanical Resistance**(design values):

Bending moment capacity

(of middle section)..... 203.2 kNm

Shear capacity(of the end section)..... 161.3 kN

**Resistance to fire R**..... 60 minutes

For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation

**Technical documentation:** Product Handbook and Technical File \*

\* Available on request

Version: 3