Forterra	
Declaration of Performance Certificate Number: DOP/F/FP/SC-Retaining Walls/RW 1x1	
The undersigned, representing the following: Forterra Building Products Ltd 5 Grange Park Court, Roman Way Northampton NN4 5EA	Forterra Building Products Ltd 5 Grange Park Court, Roman Way Northampton NN4 5EA 13
Confirms that:	FPC Certificate No.:1333-CPR-00198
Retaining Walls:- RW 1x1 Manufacturing Plant: Somercotes	BS EN 15258:2008 Retaining Wall Elements Precast element for gravity retaining wall
13	Product Name: RW 1x1
FPC Certificate No.:1333-CPR-00198	Category 1: Retaining Wall Elements
Conforms to harmonised European Standard: BS EN 15258:2008	Compressive strength $f_{ck} = C40/50$ N/mm ²
Category 1: 1000 x 1000 Retaining Wall Elements Provision to which the prodcut conforms: Standard: Annex ZA of BS EN 15258:2008 Regulation (EU) No. 305 / 2011	Reinforcing Steel:Ultimate tensile strength $f_{tk} = 650 \text{ N/mm}^2$ Tensile yield strength $f_{yk} = 500 \text{ N/mm}^2$
Concrete: Compressive strength	Mechanical Resistance (design values): Bending moment capacity (of the critical section)
(of the critical section)	Material safety factors applied in strength calculation: For concrete
For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation Technical documentation: Technical File*	For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistanc and other NDPs see the Technical documentation
	Technical documentation: Technical File *
* Available on request Note information on Dangerous Substances will only be given when and where required in the appropriate form.	* Available on request
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:	
Position: Managing Director (Design Solution) Date: 06 October 2015	
Version: 2	Version: 2

Forterra	
Declaration of Performance Certificate Number: DOP/F/FP/SC-Retaining Walls/RW 1.5x1	
The undersigned, representing the following: Forterra Building Products Ltd 5 Grange Park Court, Roman Way Northampton NN4 5EA	Forterra Building Products Ltd 5 Grange Park Court, Roman Way Northampton NN4 5EA 13
Confirms that:	FPC Certificate No.:1333-CPR-00198
Retaining Walls:- RW 1.5x1 Manufacturing Plant: Somercotes	BS EN 15258:2008 Retaining Wall Elements Precast element for gravity retaining wall
13	Product Name: RW 1.5x1
FPC Certificate No.:1333-CPR-00198	Category 1: Retaining Wall Elements
Conforms to harmonised European Standard: BS EN 15258:2008	Concrete: Compressive strength
Category 1: 1500 x 1000 Retaining Wall Elements Provision to which the prodcut conforms: Standard: Annex ZA of BS EN 15258:2008 Regulation (EU) No. 305 / 2011	Reinforcing Steel:Ultimate tensile strength f_{tk} =650 N/mm²Tensile yield strength f_{yk} =500 N/mm²
Concrete: Compressive strength	Mechanical Resistance (design values): Bending moment capacity (of the critical section)
(of the critical section)	Material safety factors applied in strength calculation: For concrete
For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation	For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation
Technical documentation: Technical File*	Technical documentation: Technical File *
* Available on request	
Note information on Dangerous Substances will only be given when and where required in the appropriate form.	* Available on request
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:	
Position: Managing Director (Design Solution) Date: 06 October 2015	
Version: 2	Version: 2

Forterra	
Declaration of Performance Certificate Number: DOP/F/FP/SC-Retaining Walls/RW 1.75x1	
The undersigned, representing the following: Forterra Building Products Ltd 5 Grange Park Court, Roman Way Northampton NN4 5EA	Forterra Building Products Ltd 5 Grange Park Court, Roman Way Northampton NN4 5EA 13
Confirms that:	FPC Certificate No.:1333-CPR-00198
Retaining Walls:- RW 1.75x1 Manufacturing Plant: Somercotes	BS EN 15258:2008 Retaining Wall Elements Precast element for gravity retaining wall
13	Product Name: RW 1.75x1
FPC Certificate No.:1333-CPR-00198	Category 1: Retaining Wall Elements Compressive strengthfrx = C40/50 N/mm ²
Conforms to harmonised European Standard: BS EN 15258:2008	$r_{ek} = C40/50$ N/mm ²
Category 1: 1750 x 1000 Retaining Wall Elements Provision to which the prodcut conforms: Standard: Annex ZA of BS EN 15258:2008 Regulation (EU) No. 305 / 2011	Reinforcing Steel:Ultimate tensile strength $f_{ik} = 650 \text{ N/mm}^2$ Tensile yield strength $f_{yk} = 500 \text{ N/mm}^2$
Concrete: Compressive strength	Mechanical Resistance (design values): Bending moment capacity (of the critical section)
(of the critical section)	Material safety factors applied in strength calculation: For concrete
For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation	For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation
Technical documentation: Technical File*	Technical documentation: Technical File *
* Available on request	
Note information on Dangerous Substances will only be given when and where required in the appropriate form.	* Available on request
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: half the second secon	
Position: Managing Director (Design Solution) Date: 06 October 2015	
Version: 2	Version: 2

Forterra	
Declaration of Performance Certificate Number: DOP/F/FP/SC-Retaining Walls/RW 2x1	CE
The undersigned, representing the following: Forterra Building Products Ltd 5 Grange Park Court, Roman Way Northampton NN4 5EA	Forterra Building Products Ltd 5 Grange Park Court, Roman Way Northampton NN4 5EA 13
Confirms that:	FPC Certificate No.:1333-CPR-00198
Retaining Walls:- RW 2x1 Manufacturing Plant: Somercotes	BS EN 15258:2008 Retaining Wall Elements Precast element for gravity retaining wall
13	Product Name: RW 2x1
FPC Certificate No.:1333-CPR-00198	Category 1: Retaining Wall Elements
Conforms to harmonised European Standard: BS EN 15258:2008	Compressive strength $f_{ck} = C40/50$ N/mm ²
Category 1: 2000 x 1000 Retaining Wall Elements Provision to which the prodcut conforms: Standard: Annex ZA of BS EN 15258:2008 Regulation (EU) No. 305 / 2011	Reinforcing Steel: Ultimate tensile strength $f_{tk} =$ $f_{yk} =$ 650 N/mm²Tensile yield strength $f_{yk} =$ 500 N/mm²
Concrete: Compressive strength	Mechanical Resistance (design values): Bending moment capacity (of the critical section)
(of the critical section)	Material safety factors applied in strength calculation: For concrete
other NDPs see the Technical documentation Technical documentation: Technical File*	For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation
	Technical documentation: Technical File *
* Available on request Note information on Dangerous Substances will only be given when and where required in the appropriate form.	* Available on request
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:	
Position: Managing Director (Design Solution) Date: 06 October 2015	
Version: 2	Version: 2

FORTERRA	
Declaration of Performance Certificate Number: DOP/F/FP/SC-Retaining Walls/RW 2.5x1	
The undersigned, representing the following: Forterra Building Products Ltd 5 Grange Park Court, Roman Way Northampton NN4 5EA	Forterra Building Products Ltd 5 Grange Park Court, Roman Way Northampton NN4 5EA 13
Confirms that:	FPC Certificate No.:1333-CPR-00198
Retaining Walls:- RW 2.5x1 Manufacturing Plant: Somercotes	BS EN 15258:2008 Retaining Wall Elements Precast element for gravity retaining wall
13	Product Name: RW 2.5x1
FPC Certificate No.:1333-CPR-00198	Category 1: Retaining Wall Elements
Conforms to harmonised European Standard: BS EN 15258:2008	Concrete: Compressive strength $f_{ck} = C40/50$ N/mm ²
Category 1: 2500 x 1000 Retaining Wall Elements Provision to which the prodcut conforms: Standard: Annex ZA of BS EN 15258:2008 Regulation (EU) No. 305 / 2011	$\label{eq:result} \begin{array}{llllllllllllllllllllllllllllllllllll$
Concrete: Compressive strength Compressive strength $f_{ck} = C40/50$ N/mm² Reinforcing Steel: Ultimate tensile strength fst. = 650 kN/m² Tensile yield strength	Mechanical Resistance (design values): Bending moment capacity (of the critical section)
(of the critical section)	Material safety factors applied in strength calculation: For concrete
other NDPs see the Technical documentation Technical documentation: Technical File*	For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation
* Available on request	Technical documentation: Technical File *
Note information on Dangerous Substances will only be given when and where required in the appropriate form.	* Available on request
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 Full name: Matthew Clay	
/	
Position: Managing Director (Design Solution) Date: 06 October 2015	
Version: 2	Version: 2

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FORTERRA	
Declaration of Performance Certificate Number: DOP/F/FP/SC-Retaining Walls/RW 3x1	CE
The undersigned, representing the following: Forterra Building Products Ltd 5 Grange Park Court, Roman Way Northampton NN4 5EA	Forterra Building Products Ltd Grange Park Court, Roman Way Northampton NN4 5EA 13
Confirms that: FPC	C Certificate No.:1333-CPR-00198
Retaining Walls:- RW 3x1 Manufacturing Plant: Somercotes Precase	BS EN 15258:2008 Retaining Wall Elements ast element for gravity retaining wall
13	Product Name: RW 3x1
FPC Certificate No.:1333-CPR-00198 Cat Concrete:	tegory 1: Retaining Wall Elements
Conforms to harmonised European Standard: BS EN 15258:2008 Compressive strength	$f_{ck} = C40/50$ N/mm ²
Category 1: 3000 x 1000 Retaining Wall Elements Provision to which the product conforms: Standard: Annex ZA of BS EN 15258:2008 Regulation (EU) No. 305 / 2011 Tensile yield strength	
Concrete: Mechanical Resistance (design values): Compressive strength	
(of the critical section)	γc = 1.50
For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation Technical documentation: Technical For geometrical set the Technical set t	, acoustic insulation index, possible complementary information on fire resistance mentation
* Available on request Technical documentation: Technical F	File *
Note information on Dangerous Substances will only be given when and where required in the appropriate form. * Available on request	
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:	
Position: Managing Director (Design Solution) Date: 06 October 2015	
Version: 2 Version: 2	

FORTERRA	
Declaration of Performance Certificate Number: DOP/F/FP/SC-Retaining Walls/RW 3.75x1	
The undersigned, representing the following: Forterra Building Products Ltd 5 Grange Park Court, Roman Way Northampton NN4 5EA	Forterra Building Products Ltd 5 Grange Park Court, Roman Way Northampton NN4 5EA 13
Confirms that:	FPC Certificate No.:1333-CPR-00198
Retaining Walls:- RW 3.75x1 Manufacturing Plant: Somercotes	BS EN 15258:2008 Retaining Wall Elements Precast element for gravity retaining wall
13	Product Name: RW 3.75x1
FPC Certificate No.:1333-CPR-00198 Conforms to harmonised European Standard: BS EN 15258:2008	Category 1: Retaining Wall Elements Concrete: Compressive strengthf _{ck} = C40/50 N/mm ²
Category 1: 3750 x 1000 Retaining Wall Elements Provision to which the prodcut conforms: Standard: Annex ZA of BS EN 15258:2008 Regulation (EU) No. 305 / 2011	Reinforcing Steel:Ultimate tensile strength $f_{tk} = 650 \text{ N/mm}^2$ Tensile yield strength $f_{yk} = 500 \text{ N/mm}^2$
Concrete: Compressive strength	Mechanical Resistance (design values): Bending moment capacity (of the critical section)
(of the critical section)	Material safety factors applied in strength calculation: For concrete
For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation Technical documentation: Technical File*	For geometrical data detailing, durability, acoustic insulation index, possible complementary information on fire resistance and other NDPs see the Technical documentation
* Available on request	Technical documentation: Technical File *
Note information on Dangerous Substances will only be given when and where required in the appropriate form.	* Available on request
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: head the second se	
Position: Managing Director (Design Solution) Date: 06 October 2015	
Version: 2	Version: 2