DECLARATION OF PERFORMANCE
No: DoP 3/2024

1. Unique identification code of product-type:

INTU FR GRAPHITE

2. Intended uses:

The intended use of INTU FR GRAPHITE is to reinstate the fire resistance performance of flexible wall, rigid wall and rigid floor constructions, where they are penetrated by pipes, cables, conduits and bundles

3. Manufacturer:

ALFASEAL GROUP Sp. z o.o.
ul. Kineskopowa 1, 05-500 Piaseczno

4. Authorized representative:

Not applicable

5. System or systems of Assessment and Verification of Constancy of Performance (AVCP):

System 1

6a. Harmonised standard: **Not applicable**
Notified body or bodies: **Not applicable**
6b. European Assessment Document: **EAD 350454-00-1104**
European Technical Assessment: **ETA-24/0152 of 22/12/2025**
Technical Assessment Body: **ITB, ul. Filtrowa 1, 00-611**
Notified body or bodies: **No. 1488**

7. Declared performance:

Basic requirements	Performance characteristics
BWR 2 Safety in case to fire	
Reaction to fire	NPD
Resistance to fire	Tabels B1. ÷ B11.

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Table B1. Resistance to fire classification of plastic, MLC and composite pipes (without insulation) penetration seals in flexible or rigid wall, made with use of INTU FR GRAPHITE placed on both sides of the wall on the depth of 25,0 mm, without backfilling material

Pipe material	Pipe diameter [mm]	Pipe wall thickness [mm]	Number x depth x width of INTU FR GRAPHITE [mm]	Fire resistance class
PE-HD / PE / PE-X / ABS / SAN+PVC	D ≤ 32	1,8 ÷ 6,8	2 x 25,0 x 10,0 ÷ 20,0	**EI 120-U/C; EI 120-C/C**
	32 < D ≤ 50	2,3 ÷ 6,8	2 x 25,0 x 10,0 ÷ 20,0	
	50 < D ≤ 75	3,0 ÷ 6,8	2 x 25,0 x 10,0 ÷ 20,0	
	D ≤ 75	6,9 ÷ 10,0	2 x 25,0 x 10,0 ÷ 20,0	**EI 90-U/C; EI 90-C/C**
	75 < D ≤ 110	4,2 ÷ 9,9	2 x 25,0 x 10,0 ÷ 20,0	**EI 60-U/C; EI 60-C/C**
		10,0	2 x 25,0 x 10,0 ÷ 20,0	**EI 90-U/C; EI 90-C/C**
PP	D ≤ 50	1,8 ÷ 18,3	2 x 25,0 x 10,0 ÷ 20,0	**EI 120-U/C EI 120-C/C**
	50 < D ≤ 75	1.9 ÷ 18,3	2 x 25,0 x 10,0 ÷ 20,0	
	75 < D ≤ 90	2,3 ÷ 18,3	2 x 25,0 x 10,0 ÷ 20,0	
	90 < D ≤ 110	2,7 ÷ 18,3	2 x 25,0 x 10,0 ÷ 20,0	
PVC-U / PVC-C	D ≤ 32	1,5 ÷ 8,1	2 x 25,0 x 10,0 ÷ 20,0	**EI 120-U/C EI 120-C/C**
	32 < D ≤ 50	1,6 ÷ 8,1	2 x 25,0 x 10,0 ÷ 20,0	
	50 < D ≤ 75	1,8 ÷ 8,1	2 x 25,0 x 10,0 ÷ 20,0	
	75 < D ≤ 110	2,0 ÷ 8,0	2 x 25,0 x 10,0 ÷ 20,0	**EI 90-U/C; EI 90-C/C**
		8,1	2 x 25,0 x 10,0 ÷ 20,0	**EI 120-U/C; EI 120-C/C**
PE-RT/AL/PE-RT (MLC)	D ≤ 20	2,0 ÷ 6,0	2 x 25,0 x 10,0 ÷ 20,0	**EI 120-U/C; EI 120-C/C**
		6,1 ÷ 7,5	2 x 25,0 x 10,0 ÷ 20,0	**EI 60 / E 120-U/C EI 60 / E 120-C/C**
	20 < D ≤ 32	3,1	2 x 25,0 x 10,0 ÷ 20,0	**EI 120-U/C EI 120-C/C**
	32 < D ≤ 40	3,9	2 x 25,0 x 10,0 ÷ 20,0	
	40 < D ≤ 50	4,8	2 x 25,0 x 10,0 ÷ 20,0	
	50 < D ≤ 63	6,0	2 x 25,0 x 10,0 ÷ 20,0	
	63 < D ≤ 75	7,5	2 x 25,0 x 10,0 ÷ 20,0	**EI 60 / E 120-U/C EI 60 / E 120-C/C**
PE-X/AL/PE-X (MLC)	D ≤ 20	2,0 ÷ 6,0	2 x 25,0 x 10,0 ÷ 20,0	**EI 120-U/C EI 120-C/C**
	20 < D ≤ 32	3,1	2 x 25,0 x 10,0 ÷ 20,0	
	32 < D ≤ 40	3,9	2 x 25,0 x 10,0 ÷ 20,0	
	40 < D ≤ 50	4,8	2 x 25,0 x 10,0 ÷ 20,0	
	50 < D ≤ 63	6,0	2 x 25,0 x 10,0 ÷ 20,0	
PE-Xa	D ≤ 20	2,0 ÷ 5,8	2 x 25,0 x 10,0 ÷ 20,0	**EI 120-U/C EI 120-C/C**
	20 < D ≤ 32	3,0	2 x 25,0 x 10,0 ÷ 20,0	
	32 < D ≤ 40	3,8	2 x 25,0 x 10,0 ÷ 20,0	
	40 < D ≤ 50	4,6	2 x 25,0 x 10,0 ÷ 20,0	
	50 < D ≤ 63	5,8	2 x 25,0 x 10,0 ÷ 20,0	
wall thickness ≥ 100 mm				

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Table B2 (cont. Table B1). Resistance to fire classification of plastic, MLC and composite pipes (without insulation) penetration seals in flexible or rigid wall, made with use of INTU FR GRAPHITE placed on both sides of the wall on the depth of 25,0 mm, without backfilling material

Pipe material	Pipe diameter [mm]	Pipe wall thickness [mm]	Number x depth x width of INTU FR GRAPHITE [mm]	Fire resistance class
PP-R	D ≤ 20	2,3 ÷ 10,0	2 x 25,0 x 10,0 ÷ 20,0	**EI 120-U/C EI 120-C/C**
	20 < D ≤ 32	3,3 ÷ 12,5	2 x 25,0 x 10,0 ÷ 20,0	
	32 < D ≤ 50	4,8 ÷ 12,5	2 x 25,0 x 10,0 ÷ 20,0	
	50 < D ≤ 63	5,8 ÷ 12,5	2 x 25,0 x 10,0 ÷ 20,0	
	63 < D ≤ 75	6,8 ÷ 12,5	2 x 25,0 x 10,0 ÷ 20,0	
	20 < D ≤ 32	12,6 ÷ 16,0	2 x 25,0 x 10,0 ÷ 20,0	**EI 90-U/C EI 90-C/C**
	32 < D ≤ 75	12,6 ÷ 18,3	2 x 25,0 x 10,0 ÷ 20,0	
	75 < D ≤ 90	8,2 ÷ 10,0	2 x 25,0 x 10,0 ÷ 20,0	**EI 120-U/C EI 120-C/C**
	90 < D ≤ 110	10,0	2 x 25,0 x 10,0 ÷ 20,0	
	75 < D ≤ 110	10,1 ÷ 18,3	2 x 25,0 x 10,0 ÷ 20,0	**EI 90-U/C EI 90-C/C**
PP-R/AL/PP-R (MLC)	D ≤ 20	2,8 ÷ 10,0	2 x 25,0 x 10,0 ÷ 20,0	**EI 120-U/C EI 120-C/C**
	20 < D ≤ 32	4,4 ÷ 16,0	2 x 25,0 x 10,0 ÷ 20,0	
	32 < D ≤ 50	6,9 ÷ 18,3	2 x 25,0 x 10,0 ÷ 20,0	
	50 < D ≤ 63	8,6 ÷ 18,3	2 x 25,0 x 10,0 ÷ 20,0	
	63 < D ≤ 75	10,3 ÷ 18,3	2 x 25,0 x 10,0 ÷ 20,0	
	75 < D ≤ 90	12,3 ÷ 14,9	2 x 25,0 x 10,0 ÷ 20,0	**EI 90-U/C EI 90-C/C**
		15,0 ÷ 18,3	2 x 25,0 x 10,0 ÷ 20,0	**EI 120-U/C EI 120-C/C**
	90 < D ≤ 110	15,1 ÷ 18,2	2 x 25,0 x 10,0 ÷ 20,0	**EI 90-U/C EI 90-C/C**
		18,3	2 x 25,0 x 10,0 ÷ 20,0	**EI 120-U/C EI 120-C/C**
PP-R/PP-R-GF/PP-R (composite)	D ≤ 20	2,8 ÷ 10,0	2 x 25,0 x 10,0 ÷ 20,0	**EI 120-U/C EI 120-C/C**
	20 < D ≤ 32	4,4 ÷ 16,0	2 x 25,0 x 10,0 ÷ 20,0	
	32 < D ≤ 50	6,9 ÷ 18,3	2 x 25,0 x 10,0 ÷ 20,0	
	50 < D ≤ 63	8,6 ÷ 18,3	2 x 25,0 x 10,0 ÷ 20,0	
	63 < D ≤ 75	10,3 ÷ 18,3	2 x 25,0 x 10,0 ÷ 20,0	
	75 < D ≤ 90	12,3 ÷ 18,3	2 x 25,0 x 10,0 ÷ 20,0	
	90 < D ≤ 110	15,1 ÷ 18,3	2 x 25,0 x 10,0 ÷ 20,0	
BlazeMaster CPVC	D ≤ 19,0	2,24 ÷ 3,38	2 x 25,0 x 10,0 ÷ 20,0	**EI 120-U/C EI 120-C/C**
	19,0 < D ≤ 25,4	2,71 ÷ 3,38	2 x 25,0 x 10,0 ÷ 20,0	
	25,4 < D ≤ 31,8	3,38	2 x 25,0 x 10,0 ÷ 20,0	
	D ≤ 31,8	3,39 ÷ 3,84	2 x 25,0 x 10,0 ÷ 20,0	**EI 90-U/C EI 90-C/C**
	31,8 < D ≤ 38,1	3,84	2 x 25,0 x 10,0 ÷ 20,0	
wall thickness ≥ 100 mm				

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Table B3. Resistance to fire classification of following types of cables penetration seals in flexible or rigid wall:

- **type F cable: A-2Y(L)2Y 20x2x0,6,**
- **single coaxial wireless cable type AVA5-50FX (øcable ≤ 22,23 mm),**

made with use of INTU FR GRAPHITE placed on both sides of the wall on the depth of 25,0 mm, without backfilling material

Fire resistance class: EI 120
wall thickness ≥ 100 mm

Table B4. Resistance to fire classification of following types of cables penetration seals in flexible or rigid wall:

- **small cable (øcable ≤ 21 mm), including optical fiber cable,**
- **cable bundle (øbundle ≤ 100 mm, øcable ≤ 21 mm),**

made with use of INTU FR GRAPHITE placed on both sides of the wall on the depth of 25,0 mm, with mineral wool Paroc Hvac Lamella Mat backfilling material

Fire resistance class: EI 120
wall thickness ≥ 100 mm

Table B5. Resistance to fire classification of penetration seals in flexible or rigid wall, of following mixed bundle:

- **max. 2 x copper / steel pipe (C/U, C/C pipe end configuration) diameter of D ≤ 12,7 mm and pipe wall thickness ≥ 0,8 mm, with flexible elastomeric foam (FEF) continuous insulation (case CS) type Kaiflex ST, thickness of 13 mm,**
- **max. 1 x copper / steel pipe (C/U, C/C pipe end configuration) diameter of D ≤ 28,6 mm and pipe wall thickness ≥ 1,0 mm, with flexible elastomeric foam (FEF) continuous insulation (case CS) type Kaiflex ST, thickness of 13 mm,**
- **max. 1 x PVC-U pipe (U/U, U/C, C/U, C/C pipe end configuration) without insulation, diameter of: D ≤ 25 mm and pipe wall thickness 1,0 mm,**
- **max. 1 x single cable 4 x 1,5 mm2,**

made with use of INTU FR GRAPHITE placed on both sides of the wall on the depth of 25,0 mm, without backfilling material

Fire resistance class: EI 120
wall thickness ≥ 100 mm

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Table B6. Resistance to fire classification of penetration seals in flexible or rigid wall, of following mixed bundle:

- **max. 4 x copper / steel pipe (C/U, C/C pipe end configuration) diameter of D ≤ 12,7 mm and pipe wall thickness ≥ 0,8 mm, with polyethylene foam (PE) continuous insulation (case CS) type Tubolit DG PLUS, thickness of 9 mm**
- **max. 2 x copper / steel pipe (C/U, C/C pipe end configuration) diameter of D ≤ 22,3 mm and pipe wall thickness ≥ 1,0 mm, with polyethylene foam (PE) continuous insulation (case CS) type Tubolit DG PLUS, thickness of 9 mm,**
- **max. 2 x copper / steel pipe (C/U, C/C pipe end configuration) diameter of D ≤ 28,6 mm and pipe wall thickness ≥ 1,0 mm, with polyethylene foam (PE) continuous insulation (case CS) type Tubolit DG PLUS, thickness of 13 mm,**
- **max. 2 x PVC-U pipe (U/U, U/C, C/U, C/C pipe end configuration) without insulation, diameter of: D ≤ 25 mm and pipe wall thickness 1,0 mm,**
- **max. 2 x single cable 4 x 1,5 mm2,**

made with use of INTU FR GRAPHITE placed on both sides of the wall on the depth of 25,0 mm, without backfilling material

Fire resistance class: EI 60 / E 120
wall thickness ≥ 100 mm

Table B7. Resistance to fire classification of steel conduits ($ø_{conduit}$ ≤ 16,0 mm) penetration seals in flexible or rigid wall, made with use of INTU FR GRAPHITE (outside the conduit) placed on both sides of the wall on the depth of 25,0 mm, with mineral wool Paroc Hvac Lamella Mat backfilling material

Fire resistance class: EI 120-C/U EI 120-C/C
wall thickness ≥ 100 mm

Table B9. Resistance to fire classification of AROT DVK conduits with or without cables ($ø_{cable}$ ≤ 21 mm) or cable bundle ($ø_{bundle}$ ≤ conduit inner diameter, $ø_{cable}$ ≤ 21 mm) penetration seals in flexible or rigid wall, made with use of INTU FR GRAPHITE (inside the conduit) placed on one side of the wall on the depth of 25,0 mm, with mineral wool Paroc Hvac Lamella Mat backfilling material on the depth of 25,0 mm

Conduit diameter [mm]	Conduit wave height [mm]	Service inside	Depth of INTU FR GRAPHITE [mm]	Fire resistance class
D ≤ 100	3,0	empty	2 x 25,0	**EI 90 / E 120-U/C EI 90 / E 120-C/C**
		small cable: $ø_{cable}$ ≤ 21 mm	2 x 25,0	**EI 90 / E 120-U/C EI 90 / E 120-C/C**
		cable bundle: $ø_{bundle}$ ≤ D_{in} [1)]	2 x 25,0	**EI 90 / E 120-U/C EI 90 / E 120-C/C**
[1)] D_{in} – conduit inner diameter, wall thickness ≥ 100 mm				

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Table B8. Resistance to fire classification of PVC conduits with or without small cables ($ø_{cable}$ ≤ 21 mm) or cable bundle ($ø_{bundle}$ ≤ conduit inner diameter, $ø_{cable}$ ≤ 21 mm) penetration seals in flexible or rigid wall, made with use of INTU FR GRAPHITE (outside the conduit) placed on both sides of the wall on the depth of 25,0 mm, with mineral wool Paroc Hvac Lamella Mat backfilling material

Conduit diameter [mm]	Conduit wall thickness [mm]	Service inside	Depth of INTU FR GRAPHITE [mm]	Fire resistance class
D ≤ 16	0,85 ÷ 1,50	empty	2 x 25,0	**EI 120-U/U EI 120-U/C EI 120-C/U EI 120-C/C**
		small cable: $ø_{cable}$ ≤ D_{in}[1)]	2 x 25,0	
		cable bundle: $ø_{bundle}$ ≤ D_{in}[1)] $ø_{cable}$ ≤ D_{in}[1)]	2 x 25,0	
16 < D ≤ 25	1,05 ÷ 1,50	empty	2 x 25,0	**EI 120-U/U EI 120-U/C EI 120-C/U EI 120-C/C**
		small cable: $ø_{cable}$ ≤ 21 mm	2 x 25,0	
		cable bundle: $ø_{bundle}$ ≤ D_{in}[1)] $ø_{cable}$ ≤ 21 mm	2 x 25,0	
25 < D ≤ 37	1,50	empty	2 x 25,0	**EI 120-U/U EI 120-U/C EI 120-C/U EI 120-C/C**
		small cable: $ø_{cable}$ ≤ 21 mm	2 x 25,0	
		cable bundle: $ø_{bundle}$ ≤ D_{in}[1)] $ø_{cable}$ ≤ 21 mm	2 x 25,0	
[1)] D_{in} – conduit inner diameter, wall thickness ≥ 100 mm				

Table B10. Resistance to fire classification of plastic pipes (without insulation) penetration seals in rigid floor

Pipe material	Pipe diameter [mm]	Pipe wall thickness [mm]	Number x depth x width of INTU FR GRAPHITE [mm]	Fire resistance class
PE-HD / PE / PE-X / ABS / SAN+PVC	D ≤ 32	1,8 ÷ 10,0	2 x 25,0 x 10,0 ÷ 20,0	**EI 120-U/C EI 120-C/C**
	32 < D ≤ 50	2,3 ÷ 10,0	2 x 25,0 x 10,0 ÷ 20,0	
	50 < D ≤ 75	3,0 ÷ 10,0	2 x 25,0 x 10,0 ÷ 20,0	
	75 < D ≤ 90	3,5 ÷ 10,0	2 x 25,0 x 10,0 ÷ 20,0	
	90 < D ≤ 110	4,2 ÷ 10,0	2 x 25,0 x 10,0 ÷ 20,0	
PP	D ≤ 50	1,8 ÷ 18,3	2 x 25,0 x 10,0 ÷ 20,0	**EI 120-U/C EI 120-C/C**
	50 < D ≤ 75	1,9 ÷ 18,3	2 x 25,0 x 10,0 ÷ 20,0	
	75 < D ≤ 110	2,7 ÷ 18,3	2 x 25,0 x 10,0 ÷ 20,0	
PVC-U / PVC-C	D ≤ 32	1,5 ÷ 8,1	2 x 25,0 x 10,0 ÷ 20,0	**EI 120-U/C EI 120-C/C**
	32 < D ≤ 50	1,6 ÷ 8,1	2 x 25,0 x 10,0 ÷ 20,0	
	50 < D ≤ 75	1,8 ÷ 8,1	2 x 25,0 x 10,0 ÷ 20,0	
	75 < D ≤ 110	2,0 ÷ 8,1	2 x 25,0 x 10,0 ÷ 20,0	
floor thickness ≥ 150 mm, density ≥ 1700 kg/m^3				

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Table B11. Resistance to fire classification of plastic, MLC and composite pipes (without insulation) penetration seals in rigid floor

Pipe material	Pipe diameter [mm]	Pipe wall thickness [mm]	Number x depth x width of INTU FR GRAPHITE [mm]	Fire resistance class
PE-RT/AL/PE-RT (MLC)	D ≤ 20	2,0 – 7,5	2 x 25,0 x 10,0 – 20,0	**EI 120-U/C EI 120-C/C**
	20 < D ≤ 32	3,1	2 x 25,0 x 10,0 – 20,0	
	32 < D ≤ 40	3,9	2 x 25,0 x 10,0 – 20,0	
	40 < D ≤ 50	4,8	2 x 25,0 x 10,0 – 20,0	
	50 < D ≤ 63	6,0	2 x 25,0 x 10,0 – 20,0	
	63 < D ≤ 75	7,5	2 x 25,0 x 10,0 – 20,0	
PE-X/AL/PE-X (MLC)	D ≤ 20	2,0 – 6,0	2 x 25,0 x 10,0 – 20,0	**EI 120-U/C EI 120-C/C**
	20 < D ≤ 32	3,1	2 x 25,0 x 10,0 – 20,0	
	32 < D ≤ 40	3,9	2 x 25,0 x 10,0 – 20,0	
	40 < D ≤ 50	4,8	2 x 25,0 x 10,0 – 20,0	
	50 < D ≤ 63	6,0	2 x 25,0 x 10,0 – 20,0	
PE-Xa	D ≤ 20	2,0 – 5,8	2 x 25,0 x 10,0 – 20,0	**EI 120-U/C EI 120-C/C**
	20 < D ≤ 32	3,1	2 x 25,0 x 10,0 – 20,0	
	32 < D ≤ 40	3,9	2 x 25,0 x 10,0 – 20,0	
	40 < D ≤ 50	4,8	2 x 25,0 x 10,0 – 20,0	
	50 < D ≤ 63	5,8	2 x 25,0 x 10,0 – 20,0	
PP-R	D ≤ 20	2,3 – 10,0	2 x 25,0 x 10,0 – 20,0	**EI 120-U/C EI 120-C/C**
	20 < D ≤ 32	3,3 – 16,0	2 x 25,0 x 10,0 – 20,0	
	32 < D ≤ 50	4,8 – 18,3	2 x 25,0 x 10,0 – 20,0	
	50 < D ≤ 63	5,8 – 18,3	2 x 25,0 x 10,0 – 20,0	
	63 < D ≤ 75	6,8 – 18,3	2 x 25,0 x 10,0 – 20,0	
	75 < D ≤ 90	8,3 – 18,3	2 x 25,0 x 10,0 – 20,0	
	90 < D ≤ 110	10,0 – 18,3	2 x 25,0 x 10,0 – 20,0	
PP-R/AL/PP-R (MLC)	D ≤ 20	2,3 – 10,0	2 x 25,0 x 10,0 – 20,0	**EI 120-U/C EI 120-C/C**
	20 < D ≤ 32	4,0 – 16,0	2 x 25,0 x 10,0 – 20,0	
	32 < D ≤ 50	6,7 – 18,3	2 x 25,0 x 10,0 – 20,0	
	50 < D ≤ 63	8,6 – 18,3	2 x 25,0 x 10,0 – 20,0	
	63 < D ≤ 75	10,3 – 18,3	2 x 25,0 x 10,0 – 20,0	
	75 < D ≤ 90	12,3 – 18,3	2 x 25,0 x 10,0 – 20,0	
	90 < D ≤ 110	15,1 – 18,3	2 x 25,0 x 10,0 – 20,0	
PP-R/PP-R-GF/PP-R (composite)	D ≤ 20	2,8 – 10,0	2 x 25,0 x 10,0 – 20,0	**EI 120-U/C EI 120-C/C**
	20 < D ≤ 32	4,4 – 16,0	2 x 25,0 x 10,0 – 20,0	
	32 < D ≤ 50	6,9 – 18,3	2 x 25,0 x 10,0 – 20,0	
	50 < D ≤ 63	8,6 – 18,3	2 x 25,0 x 10,0 – 20,0	
	63 < D ≤ 75	10,3 – 18,3	2 x 25,0 x 10,0 – 20,0	
	75 < D ≤ 90	12,3 – 18,3	2 x 25,0 x 10,0 – 20,0	
	90 < D ≤ 110	15,1 – 18,3	2 x 25,0 x 10,0 – 20,0	
floor thickness ≥ 150 mm, density ≥ 550 kg/m^3				

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BWR 3 Hygiene, heath and the environment	
Air permeability	NPD
Water permeability	NPD
Content, emission, release of dangerous substances	NPD
BWR 4 Safety and accessibility in use	
Mechanical resistance and stability	NPD
Resistance to impact/movement	NPD
Adhesion	NPD
Durability	Z_2
BWR 5 Protection against noise	
Aireborne sound insulation	NPD
BWR 6 Energy economy and heat retention	
Thermal properties	NPD
Water vapour permeability	NPD

8. Appropriate technical documentation or special technical documentation:
Not applicable

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:
Name: Michał Szyjkowski
Position: President of the Management Board

Piaseczno, 06.02.2026
Place, date

.....
Signature

Edition 2

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