

DECLARATION OF PERFORMANCE

Nr: DoP 6/2019

1. Unique identification code of product-type:

INTU FR BOARD A

2. Intended uses:

Reinstante the fire resistance performance of flexible wall, rigid wall or rigid floor constructions, where they are penetrated by metal pipes, single cables or cable bundles.

3. Manufacturer:

**INTUSEAL 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-19/0038 of 29/03/2019,

Technical Assessment Body:

ITB, ul. Filtrowa 1, 00-611 Warszawa

Notified body or bodies:

Nr 1488

7. Declared performance:

Basic requirements	Performance characteristics
BWR 2 Safety in case to fire	
Reaction to fire	NPD
Resistance to fire	Tabels

Resistance to fire classification of metal pipes penetration seals – in rigid wall**Steel pipes with local, sustained mineral wool insulation, length of 250 mm, width of 30 mm**

Pipe material	Pipe diameter, D [mm]	Pipe wall thickness, t [mm]	INTU FR COAT A, length x thickness [mm]		Fire resistance class
			on pipe insulation	on supporting construction	
Steel	$D \leq 42,4$	$2,0 - 14,2$	$50 \times 0,6$	$50 \times 0,6$	EI 120 – C/U EI 120 – C/C

Steel pipes with local, sustained mineral wool insulation, length of 250 mm, width of 50 mm

Pipe material	Pipe diameter, D [mm]	Pipe wall thickness, t [mm]	INTU FR COAT A, length x thickness [mm]		Fire resistance class
			on pipe insulation	on supporting construction	
Steel	$42,4 < D \leq 48,3$	$2,2 - 14,2$	$50 \times 0,6$	$50 \times 0,6$	EI 120 – C/U EI 120 – C/C
	$48,3 < D \leq 60,3$	$2,6 - 14,2$	$50 \times 0,6$	$50 \times 0,6$	EI 120 – C/U EI 120 – C/C
	$60,3 < D \leq 76,1$	$3,1 - 14,2$	$50 \times 0,6$	$50 \times 0,6$	EI 120 – C/U EI 120 – C/C
	$76,1 < D \leq 88,9$	$3,5 - 14,2$	$50 \times 0,6$	$50 \times 0,6$	EI 120 – C/U EI 120 – C/C
	$88,9 < D \leq 108,0$	$4,0 - 14,2$	$50 \times 0,6$	$50 \times 0,6$	EI 120 – C/U EI 120 – C/C

Steel pipes with local, sustained mineral wool insulation, length of 650 mm, width of 50 mm

Pipe material	Pipe diameter, D [mm]	Pipe wall thickness, t [mm]	INTU FR COAT A, length x thickness [mm]		Fire resistance class
			on pipe insulation	on supporting construction	
Steel	$108,0 < D \leq 139,7$	$4,0 - 14,2$	$50 \times 0,6$	$50 \times 0,6$	EI 120 – C/U EI 120 – C/C
	$139,7 < D \leq 159,0$	$4,0 - 14,2$	$50 \times 0,6$	$50 \times 0,6$	EI 120 – C/U EI 120 – C/C
	$159,0 < D \leq 219,0$	$4,5 - 14,2$	$50 \times 0,6$	$50 \times 0,6$	EI 120 – C/U EI 120 – C/C

Copper pipes with local, sustained mineral wool insulation, length of 500 mm, width of 30 mm

Pipe material	Pipe diameter, D [mm]	Pipe wall thickness, t [mm]	INTU FR COAT A, length x thickness [mm]		Fire resistance class
			on pipe insulation	on supporting construction	
Copper	$D \leq 6,0$	$\geq 0,8$	$50 \times 0,6$	$50 \times 0,6$	EI 120 – C/U EI 120 – C/C

Copper pipes with local, sustained mineral wool insulation, length of 700 mm, width of 50 mm

Pipe material	Pipe diameter, D [mm]	Pipe wall thickness, t [mm]	INTU FR COAT A, length x thickness [mm]		Fire resistance class
			on pipe insulation	on supporting construction	
Copper	$6,0 < D \leq 15,0$	$\geq 1,0$	$50 \times 0,6$	$50 \times 0,6$	EI 60 – C/U EI 60 – C/C
	$15,0 < D \leq 18,0$	$\geq 1,0$	$50 \times 0,6$	$50 \times 0,6$	EI 60 – C/U EI 60 – C/C
	$18,0 < D \leq 22,0$	$\geq 1,1$	$50 \times 0,6$	$50 \times 0,6$	EI 60 – C/U EI 60 – C/C
	$22,0 < D \leq 35,0$	$1,3 - 14,2$	$50 \times 0,6$	$50 \times 0,6$	EI 60 – C/U EI 60 – C/C

Pipe material	Pipe diameter, D [mm]	Pipe wall thickness, t [mm]	INTU FR COAT A, length x thickness [mm]		Fire resistance class
			on pipe insulation	on supporting construction	
	35,0 < D ≤ 42,0	1,5 – 14,2	50 x 0,6	50 x 0,6	EI 60 – C/U EI 60 – C/C
	42,0 < D ≤ 54,0	1,7 – 14,2	50 x 0,6	50 x 0,6	EI 60 – C/U EI 60 – C/C
	54,0 < D ≤ 88,9	2,2 – 14,2	50 x 0,6	50 x 0,6	EI 60 – C/U EI 60 – C/C

Steel pipes with local, interrupted mineral wool insulation, length of 250 mm, width of 30 mm

Pipe material	Pipe diameter, D [mm]	Pipe wall thickness, t [mm]	INTU FR COAT A, length x thickness [mm]		Fire resistance class
			on pipe insulation	on supporting construction	
Steel	D ≤ 42,4	2,0 – 14,2	50 x 0,6	50 x 0,6	EI 120 – C/U EI 120 – C/C

Steel pipes with local, interrupted mineral wool insulation, length of 250 mm, width of 50 mm

Pipe material	Pipe diameter, D [mm]	Pipe wall thickness, t [mm]	INTU FR COAT A, length x thickness [mm]		Fire resistance class
			on pipe insulation	on supporting construction	
Steel	42,4 < D ≤ 48,3	2,2 – 14,2	50 x 0,6	50 x 0,6	EI 120 – C/U EI 120 – C/C
	48,3 < D ≤ 60,3	2,6 – 14,2	50 x 0,6	50 x 0,6	EI 120 – C/U EI 120 – C/C
	60,3 < D ≤ 76,1	3,1 – 14,2	50 x 0,6	50 x 0,6	EI 120 – C/U EI 120 – C/C
	76,1 < D ≤ 88,9	3,5 – 14,2	50 x 0,6	50 x 0,6	EI 120 – C/U EI 120 – C/C
	88,9 < D ≤ 108,0	4,0 – 14,2	50 x 0,6	50 x 0,6	EI 120 – C/U EI 120 – C/C

Steel pipes with local, interrupted mineral wool insulation, length of 650 mm, width of 50 mm

Pipe material	Pipe diameter, D [mm]	Pipe wall thickness, t [mm]	INTU FR COAT A, length x thickness [mm]		Fire resistance class
			on pipe insulation	on supporting construction	
Steel	108,0 < D ≤ 139,7	4,2 – 14,2	50 x 0,6	50 x 0,6	EI 120 – C/U EI 120 – C/C
	139,7 < D ≤ 159,0	4,3 – 14,2	50 x 0,6	50 x 0,6	EI 120 – C/U EI 120 – C/C
	159,0 < D ≤ 219,0	4,5 – 14,2	50 x 0,6	50 x 0,6	EI 120 – C/U EI 120 – C/C

Copper pipes with local, interrupted mineral wool insulation, length of 500 mm, width of 30 mm

Pipe material	Pipe diameter, D [mm]	Pipe wall thickness, t [mm]	INTU FR COAT A, length x thickness [mm]		Fire resistance class
			on pipe insulation	on supporting construction	
Copper	D ≤ 6,0	≥ 0,8	50 x 0,6	50 x 0,6	EI 120 – C/U EI 120 – C/C

Resistance to fire classification of metal pipes penetration seals – in rigid floor**Steel pipes with local, sustained mineral wool insulation, length of 250 mm, width of 30 mm**

Pipe material	Pipe diameter, D [mm]	Pipe wall thickness, t [mm]	INTU FR COAT A, length x thickness [mm]		Fire resistance class
			on pipe insulation	on supporting construction	
Steel	$D \leq 42,4$	2,0 – 14,2	50 x 0,6	50 x 0,6	EI 180 – C/U EI 180 – C/C

Steel pipes with local, sustained mineral wool insulation, length of 250 mm, width of 50 mm

Pipe material	Pipe diameter, D [mm]	Pipe wall thickness, t [mm]	INTU FR COAT A, length x thickness [mm]		Fire resistance class
			on pipe insulation	on supporting construction	
Steel	$42,4 < D \leq 48,3$	2,2 – 14,2	50 x 0,6	50 x 0,6	EI 120 – C/U EI 120 – C/C
	$48,3 < D \leq 60,3$	2,6 – 14,2	50 x 0,6	50 x 0,6	EI 120 – C/U EI 120 – C/C
	$60,3 < D \leq 76,1$	3,1 – 14,2	50 x 0,6	50 x 0,6	EI 120 – C/U EI 120 – C/C
	$76,1 < D \leq 88,9$	3,5 – 14,2	50 x 0,6	50 x 0,6	EI 120 – C/U EI 120 – C/C
	$88,9 < D \leq 108,0$	4,0 – 14,2	50 x 0,6	50 x 0,6	EI 120 – C/U EI 120 – C/C

Steel pipes with local, sustained mineral wool insulation, length of 650 mm, width of 50 mm

Pipe material	Pipe diameter, D [mm]	Pipe wall thickness, t [mm]	INTU FR COAT A, length x thickness [mm]		Fire resistance class
			on pipe insulation	on supporting construction	
Steel	$108,0 < D \leq 139,7$	4,0 – 14,2	50 x 0,6	50 x 0,6	EI 120 – C/U EI 120 – C/C
	$139,7 < D \leq 159,0$	4,0 – 14,2	50 x 0,6	50 x 0,6	EI 120 – C/U EI 120 – C/C

Copper pipes with local, sustained mineral wool insulation, length of 500 mm, width of 30 mm

Pipe material	Pipe diameter, D [mm]	Pipe wall thickness, t [mm]	INTU FR COAT A, length x thickness [mm]		Fire resistance class
			on pipe insulation	on supporting construction	
Copper	$D \leq 6,0$	$\geq 0,8$	50 x 0,6	50 x 0,6	EI 240 – C/U EI 240 – C/C
	$6,0 < D \leq 15,0$	$\geq 1,0$	50 x 0,6	50 x 0,6	EI 180 – C/U EI 180 – C/C
Copper	$15,0 < D \leq 18,0$	$\geq 1,1$	50 x 0,6	50 x 0,6	EI 180 – C/U EI 180 – C/C
	$18,0 < D \leq 22,0$	$\geq 1,1$	50 x 0,6	50 x 0,6	EI 180 – C/U EI 180 – C/C
	$22,0 < D \leq 35,0$	1,4 – 14,2	50 x 0,6	50 x 0,6	EI 180 – C/U EI 180 – C/C
	$35,0 < D \leq 42,0$	1,5 – 14,2	50 x 0,6	50 x 0,6	EI 180 – C/U EI 180 – C/C
	$42,0 < D \leq 54,0$	1,7 – 14,2	50 x 0,6	50 x 0,6	EI 180 – C/U EI 180 – C/C

Copper pipes with local, sustained mineral wool insulation, length of 700 mm, width of 50 mm

Pipe material	Pipe diameter, D [mm]	Pipe wall thickness, t [mm]	INTU FR COAT A, length x thickness [mm]		Fire resistance class
			on pipe insulation	on supporting construction	
Copper	54,0 < D ≤ 88,9	2,2 – 14,2	50 x 0,6	50 x 0,6	EI 90 – C/U EI 90 – C/C

Steel pipes with local, interrupted mineral wool insulation, length of 250 mm, width of 30 mm

Pipe material	Pipe diameter, D [mm]	Pipe wall thickness, t [mm]	INTU FR COAT A, length x thickness [mm]		Fire resistance class
			on pipe insulation	on supporting construction	
Steel	D ≤ 42,4	2,0 – 14,2	50 x 0,6	50 x 0,6	EI 240 – C/U *) EI 240 – C/C *) EI 90 – C/U **) EI 90 – C/C **)

*) penetration sealed using two mineral wool boards installed on both sides of the floor

**) penetration sealed using one mineral wool board installed on the bottom of the floor

Steel pipes with local, interrupted mineral wool insulation, length of 250 mm, width of 50 mm

Pipe material	Pipe diameter, D [mm]	Pipe wall thickness, t [mm]	INTU FR COAT A, length x thickness [mm]		Fire resistance class
			on pipe insulation	on supporting construction	
Steel	42,4 < D ≤ 48,3	2,2 – 14,2	50 x 0,6	50 x 0,6	EI 120 – C/U *) EI 120 – C/C *) EI 60 – C/U **) EI 60 – C/C **)
	48,3 < D ≤ 60,3	2,6 – 14,2	50 x 0,6	50 x 0,6	EI 120 – C/U *) EI 120 – C/C *) EI 60 – C/U **) EI 60 – C/C **)
	60,3 < D ≤ 76,1	3,1 – 14,2	50 x 0,6	50 x 0,6	EI 120 – C/U *) EI 120 – C/C *) EI 60 – C/U **) EI 60 – C/C **)
Stal	76,1 < D ≤ 88,9	3,5 – 14,2	50 x 0,6	50 x 0,6	EI 120 – C/U *) EI 120 – C/C *) EI 60 – C/U **) EI 60 – C/C **)
	88,9 < D ≤ 108,0	4,0 – 14,2	50 x 0,6	50 x 0,6	EI 120 – C/U *) EI 120 – C/C *) EI 60 – C/U **) EI 60 – C/C **)

*) penetration sealed using two mineral wool boards installed on both sides of the floor

**) penetration sealed using one mineral wool board installed on the bottom of the floor

Steel pipes with local, interrupted mineral wool insulation, length of 650 mm, width of 50 mm

Pipe material	Pipe diameter, D [mm]	Pipe wall thickness, t [mm]	INTU FR COAT A, length x thickness [mm]		Fire resistance class
			on pipe insulation	on supporting construction	
Stal	108,0 < D ≤ 139,7	4,2 – 14,2	50 x 0,6	50 x 0,6	EI 120 – C/U EI 120 – C/C
	139,7 < D ≤ 159,0	4,3 – 14,2	50 x 0,6	50 x 0,6	EI 120 – C/U EI 120 – C/C
	159,0 < D ≤ 219,0	4,5 – 14,2	50 x 0,6	50 x 0,6	EI 120 – C/U EI 120 – C/C

Copper pipes with local, interrupted mineral wool insulation, length of 500 mm, width of 30 mm

Pipe material	Pipe diameter, D [mm]	Pipe wall thickness, t [mm]	INTU FR COAT A, length x thickness [mm]		Fire resistance class
			on pipe insulation	on supporting construction	
Copper	$D \leq 6,0$	$\geq 0,8$	50 x 0,6	50 x 0,6	EI 240 – C/U EI 240 – C/C
	$6,0 < D \leq 15,0$	$\geq 1,0$	50 x 0,6	50 x 0,6	EI 60 – C/U EI 60 – C/C
	$15,0 < D \leq 18,0$	$\geq 1,1$	50 x 0,6	50 x 0,6	EI 60 – C/U EI 60 – C/C
	$18,0 < D \leq 22,0$	$\geq 1,1$	50 x 0,6	50 x 0,6	EI 60 – C/U EI 60 – C/C
	$22,0 < D \leq 35,0$	1,4 – 14,2	50 x 0,6	50 x 0,6	EI 60 – C/U EI 60 – C/C
	$35,0 < D \leq 42,0$	1,5 – 14,2	50 x 0,6	50 x 0,6	EI 60 – C/U EI 60 – C/C
	$42,0 < D \leq 54,0$	1,7 – 14,2	50 x 0,6	50 x 0,6	EI 60 – C/U EI 60 – C/C

Copper pipes with local, interrupted mineral wool insulation, length of 700 mm, width of 50 mm

Pipe material	Pipe diameter, D [mm]	Pipe wall thickness, t [mm]	INTU FR COAT A, length x thickness [mm]		Fire resistance class
			on pipe insulation	on supporting construction	
Copper	$54,0 < D \leq 88,9$	2,2 – 14,2	50 x 0,6	50 x 0,6	EI 90 – C/U EI 90 – C/C

BWR 3 Hygiene, health 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 Szykowski

Position: Vice-President of the Management Board

Piaseczno, 15.03.2023

Place, date

INTUSEAL Sp. z o.o.
V-ce Prezes Zarządu

Michał Szykowski

Signature