



# Declaration of Performance

No DOP: 0432-CPR-00095-510



0432

1. Unique identification code of the product types:

Double wall connecting flue pipes made of stainless steel with 30mm heat insulation -  
System MKD according to EN 1856-2: 2009

2. Identification of the construction product, in accordance with Article 11 § 4:

## **System MKD**

Version 1	T600 – N1 – D – V3 – L50060 – G100M
Version 2	T600 – N1 – D – V2 – L50050 – G100M
Version 3	T600 – N1 – W – V2 – L50050 – G100M
Version 4	T600 – N1 – D – V3 – L50060 – O70M
Version 5	T600 – N1 – W – V2 – L50050 – O70M
Version 6	T450 – N1 – D – V2 – L50050 – O40M
Version 7	T450 – N1 – W – V2 – L50050 – O40M
Version 8	T600 – N1 – D – V2 – L99050 – G100M
Version 9	T600 – N1 – W – V2 – L99050 – G100M
Version 10	T600 – N1 – D – V2 – L99050 – O70M
Version 11	T600 – N1 – W – V2 – L99050 – O70M
Version 12	T450 – N1 – D – V2 – L99050 – O40M
Version 13	T450 – N1 – W – V2 – L99050 – O40M

M – measured value

3. Use or intended use of the construction product in accordance with the relevant harmonized technical specification as provided by the manufacturer:

Evacuation of combustion products from the furnace to the vertical part of chimney for  
standard applications (negative pressure)

4. Name, company name or trademark and contact address of the manufacturer, in accordance with Article 11 § 5:

**MK Sp. z o.o.**

ul. Wiśniowa 24

PL 68-200 Żary

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e-mail: [sekretariat@mkzary.pl](mailto:sekretariat@mkzary.pl)

5. Name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12 §2:

not applicable

6. The system or systems of assessment and verification of constancy of performance of construction product in accordance with Annex V:

System 2+

7. Notified body certifying the factory production control No 0432

**Materialprüfungsamt Nordrhein-Westfalen**  
**Marsbruchstraße 186; D-44287 Dortmund**

has carried the initial inspection of the factory and control of factory production and performs the continuous surveillance, assessment and approval of factory production control and on the 17.08.2016 has issued the compliance certificate No 0432-CPR-00095-510 for the factory production control.

8. Declared performance in accordance with EN 1856-2:2009, annex ZA

Essential characteristics	Performance	Comments
<b>Materials and sheet thicknesses</b>		
Inner pipe	<b>Version 1</b> 1.4404; 1.4571 from 0,6 mm (minimum 0,54 mm) <b>Version 2 - 7</b> 1.4404; 1.4571 0,5 mm (minimum 0,45 mm) <b>Version 8 - 13</b> 1.4521 from 0,5 mm (minimum 0,45 mm)	
Outer pipe	1.4509, 1.4301 from 0,5 mm (minimum 0,45 mm)	
Thermal insulation	<b>30mm</b> pipe section insulation (density: 120±15 kg/m <sup>3</sup> ) pressure-injected insulation (density: 170-190 kg/m <sup>3</sup> )	
<b>Mechanical strength</b>		
Compressive strength	NPD	Not applicable - horizontal installation
Non-vertical installation	NPD	Not applicable - horizontal installation
<b>Working conditions</b>		
Fire resistance	<b>Version 1, 2, 3, 8, 9</b> T600 – G100M  <b>Version 4, 5, 10, 11</b> T600 – O70M  <b>Version 6, 7, 12, 13</b> T450 – O40M	M – measured value
Tightness	N1	Working in negative pressure
Flow resistance Fittings and terminals	According to EN 13384-1, R = 1 mm	Normative value: see the method of calculation
Thermal resistance	0,56 m <sup>2</sup> K/W	Specified at 200 °C
<b>Resistance to thermal shock</b>		
Heat load at nominal temperature	T600	Test temperature 700° C
	T450	Test temperature 550° C
Sootfire resistance	<b>Version 1, 2, 3, 8, 9:</b> Yes (designation G)	Tested at 1000°C (30 min.)
	<b>Version 4 - 7, 10-13:</b> Not (designation O)	
<b>Durability</b>		
Water vapor diffusion and water resistance	<b>Version 3, 5, 7, 9, 10, 13:</b> Yes <b>Version 1, 2, 4, 6, 8, 10, 12:</b> Not	
Condensate penetration resistance	<b>Version 3, 5, 7, 9, 10, 13:</b> Yes <b>Version 1, 2, 4, 6, 8, 10, 12:</b> Not	

Corrosion resistance	Version 1: V3	For gas, fuel oil and solid fuels (dry running)
	Version 2 - 13: V2	For gas, fuel oil and wood (open furnace)
Freeze-thaw resistance	Yes	
Additional information		
Carrying away of condensate	(D) M251 instruction of Sewage Disposal Methods Association	Necessary neutralization of sewage
Storage conditions	Do not store in corrosive environment	
Methods of cleaning	Do not use the tools of black steel	
Position of cleaning openings	(D): According to DIN 18 160	Observe the national regulations
Identification of flue systems	(D): According to DIN 18 160 Durable plate, mounted on installation, housing or casing	Observe the national regulations
Protection against contact	Labeling or spacers at temperatures $\geq 70$ °C	
Direction of flow	Core pipe female socket upwards	
Installation and assembly	Follow the instructions	

9. The performance of the product identified in points 1 and 2 is consistent with the declared performance in point 7.  
This declaration of performance is issued under the sole responsibility of the manufacturer mentioned in point 4.

On behalf of the manufacturer signed:

  
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Kinga Pachnik – Managing Director

  
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Ireneusz Koman – Plant Director

Żary 27-09-2016