

N° DOP: 0432-CPR-00095-320

1. Unique identification code of the product types:

**Triple wall system chimneys and chimney components made of stainless steel  
with 30mm heat insulation and 30mm air supply duct - System "MK TRIO"  
according to EN 1856-1: 2009**

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

## **System „MK TRIO“**

01	T450 – N1 – D – V3 – L50060 – G50
02	T450 – N1 – W – V2 – L50060 – G50
03	T450 – N1 – D – V2 – L50050 – G50
04	T450 – N1 – W – V2 – L50050 – G50
05	T450 – N1 – D – V2 – L99050 – G50
06	T450 – N1 – W – V2 – L99050 – G50

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 outside atmosphere and air supply for room sealed applications (negative pressure) for gaseous fuels, heating oil, wood and solid fuels**

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

**MK Sp. z o.o.**  
Kadłubia, ul. Kominowa 5  
PL 68-200 Żary  
Tel: +48684581919; Fax: +48684581914  
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 has issued the compliance certificate **N° 0432-CPR-00095-320** for the factory production control.

8. Declared performance in accordance with EN 1856-1:2009 and EN 14989-2:2007 annex ZA

Essential characteristics	Performance	Comments
<b>Materials and sheet thicknesses</b>		
<b>Diameters</b>	DN1 / DN2 / DN3 80/140/200; 100/160/220; 130/190/250; 150/210/270; 180/240/300	
<b>Inner pipe</b>	<b>01, 02:</b> L50: 1.4404; 1.4571 0,6 mm (minimum 0,54 mm) <b>03, 04:</b> L50: 1.4404; 1.4571 0,5 mm (minimum 0,45 mm) <b>05, 06:</b> L99: 1.4521 0,5 mm (minimum 0,45 mm)	
<b>Middle pipe</b>	1.4509; 1.4301 0,50 mm (minimum 0,45 mm)	
<b>Outer pipe</b>	1.4509; 1.4301 0,60 mm (minimum 0,54 mm) painted or not	
<b>Thermal insulation</b>	prefabricated shell insulation made of mineral wool; nominal density [105+30% (kg/m <sup>3</sup> )]	
<b>Outer pipe sealing</b>	silicone gasket type RAU SIK 8508	A 1472-01/07
<b>Mechanical strength</b>		
<b>Compressive strength</b> Segments of the chimney, fittings and supports	to 20 m - mounting directly on the oven to 10 m – mounting on the console	For more information see the manual
<b>Non-vertical installation</b>	3 m at 45°	The maximum distance between two supports. Locking band on each joint.
<b>Wind load resistance</b>	4 m	The maximum distance between the two side fixings
	2,5m	Free end above the last clamping
<b>Working conditions</b>		
<b>Fire resistance</b>	to T450 – G50 (minimum distance to combustibles – 50mm)	Tested in fully insulated floor penetrations (250 mm high insulation), without lining and Tested in fully ventilated floor penetrations, with lining
<b>Tightness of flue duct</b>	N1 (leakage < 2,0 l·s <sup>-1</sup> ·m <sup>-2</sup> at 40Pa)	Working in negative pressure
<b>Tightness of air duct</b>	checked (leakage < 0,28 l·s <sup>-1</sup> ·m <sup>-2</sup> at 40Pa)	
<b>Flow resistance</b> Fittings and terminals	coefficients of flow resistance according to EN 13384-1, mean value of roughness R = 1 mm	Normative value: see the method of calculation
<b>Flue duct Thermal resistance</b>	0,211 m <sup>2</sup> K/W	The thermal resistance of the air duct is declared as 0.
<b>Flow resistance of air supply duct - Friction factor ζ</b>	1m straight element: 0,13 / 0,87	DN1=80 / DN1=180
	30° elbow: 0,09 / 0,59	
	45° elbow: 0,10 / 0,90	
	Tee - straight flow: 0,13 / 1,35	
	Tee - 90° flow: 0,23 / 2,08	
	Air inlet adapter: 5,6 / 22,2	

<b>Resistance to thermal shock</b>		
<b>Heat load at nominal temperature</b>	T450	Test temperature 550° C
<b>Sootfire resistance</b>	Yes - designation G	Tested at 1000°C (30 min.)
<b>Durability</b>		
<b>Water vapor diffusion and water resistance</b>	Yes – designation W	
<b>Condensate penetration resistance</b>	Yes – designation W	
<b>Corrosion resistance</b>	01: V3	For gas, oil and solid fuels (dry running)
	02, 03, 04, 05, 06: V2	For gas, fuel oil and wood (according to EN 1443:2019)
<b>Freeze-thaw resistance</b>	Yes	
<b>Additional information</b>		
<b>Carrying away of condensate</b>	(D) M251 instruction of Sewage Disposal Methods Association	Necessary neutralization of sewage
<b>Storage conditions</b>	Do not store in corrosive environment	
<b>Methods of cleaning</b>	Do not use the tools of black steel	
<b>Position of cleaning openings</b>	(D): According to DIN 18 160	Observe the national regulations
<b>Identification of flue systems</b>	(D): According to DIN 18 160 Durable plate, mounted on installation, housing or casing	Observe the national regulations
<b>Protection against contact</b>	Chimney doesn't require any additional safety precautions; the maximum temperature for the surface of the chimney at the T450 <80° C	Painted surface. Test temperature 550° C
<b>Direction of flow</b>	Core pipe female socket upwards	
<b>Installation and assembly</b>	Follow the instructions	

9. The performance of the product identified in points 1 and 2 is consistent with the declared performance in point 8.  
This declaration of performance is issued under the sole responsibility of the manufacturer mentioned in point 4.

On behalf of the manufacturer signed:



Kinga Pachnik – Managing Director



Ireneusz Koman – Plant Director

Żary 29-11-2021