

## Declaration of Performance

No DOP: 0432-CPR-00095-270



1. Unique identification code of the product types:

**System chimneys and construction parts made of stainless steel with 30mm heat insulation - System ZEN according to EN 1856-1: 2009**

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

### **System ZEN**

01	T600 – N1 – D – V3 – L50060 – G50	DN(120- 200)
02	T600 – N1 – W – V2 – L50060 – O50	DN(120- 200)

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 for standard applications (negative pressure), for gaseous fuels, heating oil and solid fuels (dry)**

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+ and System 4**

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 No 0432-CPR-00095-270 for the factory production control.

8. Declared performance in accordance with EN 1856-1:2009, annex ZA


Essential characteristics	Performance	Comments
<b>Materials and sheet thicknesses</b>		
<b>Inner pipe</b>	1.4404; 1.4571 from 0,6 mm (minimum 0,54 mm)	
<b>Outer pipe</b>	1.4509, 1.4301 from 0,6 mm (minimum 0,54 mm)	
<b>Thermal insulation</b>	<b>30mm</b> pipe section insulation [density: 105+30% (kg/m <sup>3</sup> )] pressure-injected insulation: [density: 170-190 (kg/m <sup>3</sup> )]	
<b>Mechanical strength</b>		
<b>Compressive strength</b> Segments of the chimney, fittings and supports	DN (120-150): to 26 m DN (180): to 20 m DN (200): to 16 m	For more information, see the manual
<b>Non-vertical installation</b>	3 m at 45°	The maximum distance between two supports
<b>Wind load resistance</b>	DN (120-200): 4 m	The maximum distance between the two side fixings
	DN (80-500): 3 m	Free end above the last clamping
<b>Working conditions</b>		
<b>Fire resistance</b>	<b>01</b> DN (120-200): to T600 – G50  <b>02</b> DN (120-200): to T600 – O50	Tested in fully ventilated floor penetrations
<b>Tightness</b>	N1 [leakage rate for 40Pa: less than 2,0 (l s <sup>-1</sup> m <sup>-2</sup> )]	Working in negative pressure
<b>Flow resistance</b> Fittings and terminals	According to EN 13384-1, R = 1 mm	Normative value: see the method of calculation
<b>Thermal resistance</b>	0,56 m <sup>2</sup> K/W	Specified at 200 °C
<b>Resistance to thermal shock</b>		
<b>Heat load at nominal temperature</b>	T600	Test temperature 700° C
<b>Sootfire resistance</b>	<b>01:</b> Yes (designation G)	Tested at 1000°C (30 min.)
	<b>02:</b> Not (designation O)	Test temperature 700° C
<b>Durability</b>		
<b>Water vapor diffusion and water resistance</b>	<b>02</b> Yes (designation W) <b>01</b> Not (designation D)	
<b>Condensate penetration resistance</b>	<b>02</b> Yes (designation W) <b>01</b> Not (designation D)	

<b>Corrosion resistance</b>	01: V3	For gas, fuel oil and solid fuels (dry running)
	02: 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>	Labeling or spacers at temperatures $\geq 70$ °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 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 24-11-2021