MK
A Sphering Company

Declaration of Performance

DOP Nº 0432-CPR-00095-111

CE
0432

1. Unique identification code of the product types:

Rigid liners and connecting flue pipes made of stainless steel for standard applications "System MKS OVAL" EN 1856-2: 2009

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

System MKS OVAL - Rigid liners

01	T450 – N1 – D – V2 – L50060 / L50080 / L50100 – G
02	T450 – N1 – W – V2 – L50060 / L50080 / L50100 – O
03	T450 – N1 – D – V3*– L50060 / L50080 / L50100 – G
04	T450 – N1 – D – V2 – L50050 – G
05	T450 – N1 – W – V2 – L50050 – O
06	T450 – N1 – D – V2 – L99050 / L99060 / L99080 / L99100 – G
07	T450 – N1 – W – V2 – L99050 / L99060 / L99080 / L99100 – O
08	T450 – N1 – D – Vm – L20050 / L20060 / L20080 / L20100 – G
09	T450 – N1 – W – Vm – L20050 / L20060 / L20080 / L20100 – O

System MKS OVAL - Connecting flue pipes

01	T450 – N1 – D – V2 – L50060 / L50080 / L50100 – GXXXNM
02	T450 – N1 – W – V2 – L50060 / L50080 / L50100 – OXXXNM
03	T450 – N1 – D – V3*– L50060 / L50080 / L50100 – GXXXNM
04	T450 – N1 – D – V2 – L50050 – GXXXNM
05	T450 – N1 – W – V2 – L50050 – OXXXNM
06	T450 – N1 – D – V2 – L99050 / L99060 / L99080 / L99100 – GXXXNM
07	T450 – N1 – W – V2 – L99050 / L99060 / L99080 / L99100 – OXXXNM
08	T450 – N1 – D – Vm – L20050 / L20060 / L20080 / L20100 – GXXXNM
09	T450 – N1 – W – Vm – L20050 / L20060 / L20080 / L20100 – OXXXNM

XXX – distance to combustibles: 3 x nominal diameter at least 375 mm
NM – not measured value
** with 30mm insulation*

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

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 **N° 0432-CPR-00095-111** for the factory production control.

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

Essential characteristics	Performance	Comments
Materials and sheet thicknesses		
Exhaust pipe	**DN oval from (110x140) to (130x240)** **01, 02 and 03:** 1.4404; 1.4571 060: 0,6 mm (minimum 0,54 mm) 080: 0,8 mm (minimum 0,72 mm) 100: 1,0 mm (minimum 0,90 mm) **04 and 05:** 1.4404; 1.4571 0,5 mm (minimum 0,45 mm) **06 and 07:** 1.4521 050: 0,5 mm (minimum 0,45 mm) 060: 0,6 mm (minimum 0,54 mm) 080: 0,8 mm (minimum 0,72 mm) 100: 1,0 mm (minimum 0,90 mm) **08 and 09:** 1.4301 050: 0,5 mm (minimum 0,45 mm) 060: 0,6 mm (minimum 0,54 mm) 080: 0,8 mm (minimum 0,72 mm) 100: 1,0 mm (minimum 0,90 mm)	
Thermal insulation	**03: 30 mm** pipe section insulation [density: 105+30% (kg/m^3)]	
Mechanical strength		
Compressive strength Segments of the chimney, fittings and supports	up to 20 m	For more information, see the manual
Non-vertical installation	3 m at 45°	The maximum distance between two supports
Working conditions		
Fire resistance	**01, 03, 04, 06, 08: YES** Rigid liners: up to T450 – G Connecting flue pipes: up to T450 - GXXXNM XXX=3 x DN , at least 375 mm **02, 05, 07, 09: NOT** Rigid liners: up to T450 – O Connecting flue pipes: up to T450 - OXXXNM XXX=3 x DN , at least 375 mm	NM – not measured XXX - distance to combustibles (mm)
Tightness	N1 [leakage rate for 40Pa: less than 2,0 ($l\ s^{-1}\ m^{-2}$)]	Working in negative pressure

Flow resistance Fittings and terminals; Roughness	According to EN 13384-1, R = 1 mm	Normative value: see the method of calculation
Thermal resistance	**03:** 0,56 m²K/W	Specified at 200 °C
Resistance to thermal shock		
Heat load at nominal temperature	T450	Test temperature 550°C
Sootfire resistance	**01, 03, 04, 06, 08:** YES (designation G)	Tested at 1000°C (30 min.)
	02, 05, 07, 09: NOT (designation O)	Test temperature 550°C
Durability		
Water vapor diffusion and water resistance	**02, 05, 07, 09:** YES (designation W) **01, 03, 04, 06, 08:** NOT (designation D)	
Condensate penetration resistance	**02, 05, 07,09:** YES (designation W) **01, 03, 04, 06, 08:** NOT (designation D)	
Corrosion resistance	**03:** V3	For gas, fuel oil and solid fuels (dry running)
	01, 02, 04 , 05, 06, 07: V2	For gas, fuel oil and wood (according to EN 1443:2019)
	08, 09: Vm	For gas
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 ≥ 70 °C	EN 1856-1
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 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 24-11-2021