

1. Unique identification code of the product types:

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

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

System MKS „Standard“ – Rigid liners

01	T450 – N1 – D – V2	– L99050 – G	DN(060- 250)
		– L99060 – G	DN(300- 400)
		– L99080 – G	DN(450- 500)
		– L99100 – G	DN(600- 1000)
02	T450 – N1 – W – V2	– L99050 – G	DN(060- 250)
		– L99060 – G	DN(300- 400)
		– L99080 – G	DN(450- 500)
		– L99100 – G	DN(600- 1000)

System MKS „Standard“ – Connecting flue pipes

01	T450 – N1 – D – V2	– L99050 – GXXXNM	DN(060- 250)
		– L99060 – GXXXNM	DN(300- 400)
		– L99080 – GXXXNM	DN(450- 500)
		– L99100 – GXXXNM	DN(600- 1000)
02	T450 – N1 – W – V2	– L99050 – GXXXNM	DN(060- 250)
		– L99060 – GXXXNM	DN(300- 400)
		– L99080 – GXXXNM	DN(450- 500)
		– L99100 – GXXXNM	DN(600- 1000)

XXX – distance to combustibles: 3 x nominal diameter at least 375 mm

NM – not 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 outside atmosphere for standard applications (negative pressure), for gaseous fuels, heating oil and wood

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-00095-110** 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	L99 1.4521 DN (60-250) from 0,5 mm (minimum 0,45 mm) DN (300-400) from 0,6 mm (minimum 0,54 mm) DN (450 – 500) from 0,8 mm (minimum 0,72 mm) DN (600 – 1000) from 1,0 mm (minimum 0,90 mm)	
Mechanical strength		
Compressive strength Segments of the chimney, fittings and supports	DN (60-250): to 30 m DN (300-500): to 20 m DN (600-1000): to 15 m	For more information, see the manual
Non-vertical installation	3 m at 45°	The maximum distance between two supports
Working conditions		
Fire resistance	Yes Rigid liner: to T450 – G Connecting flue pipe: to T450 - GXXXNM 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	According to EN 13384-1, R = 1 mm	Normative value: see the method of calculation
Resistance to thermal shock		
Heat load at nominal temperature	T450	Test temperature 550°C
Sootfire resistance	YES (designation G)	Tested at 1000°C (30 min.)
Durability		
Water vapor diffusion and water resistance	02: YES (designation W) 01: Not (designation D)	
Condensate penetration resistance	02: YES (designation W) 01: Not (designation D)	

Corrosion resistance	V2	For gas, fuel oil and wood (according to EN 1443:2019)
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:


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Kinga Pachnik – Managing Director


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Ireneusz Koman – Plant Director

Żary 24-11-2021

1. Unique identification code of the product types:

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

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

System MKS „Premium“ – Rigid liners

01	T450 – N1 – D – V2	– L50060 – G	DN(060- 400)
		– L50080 – G	DN(450- 500)
		– L50100 – G	DN(600- 1000)
02	T450 – N1 – W – V2	– L50060 – G	DN(060- 400)
		– L50080 – G	DN(450- 500)
		– L50100 – G	DN(600- 1000)
03	T450 – N1 – D – V3*	– L50060 – G	DN(060- 400)
		– L50080 – G	DN(450- 500)
		– L50100 – G	DN(600- 1000)
04	T450 – N1 – D – V2	– L50050 – G	DN(060- 250)
05	T450 – N1 – W – V2	– L50050 – G	DN(060- 250)

System MKS „Premium“ – Connecting flue pipes

01	T450 – N1 – D – V2	– L50060 – GXXXNM	DN(060- 400)
		– L50080 – GXXXNM	DN(450- 500)
		– L50100 – GXXXNM	DN(600- 1000)
02	T450 – N1 – W – V2	– L50060 – GXXXNM	DN(060- 400)
		– L50080 – GXXXNM	DN(450- 500)
		– L50100 – GXXXNM	DN(600- 1000)
03	T450 – N1 – D – V3*	– L50060 – GXXXNM	DN(060- 400)
		– L50080 – GXXXNM	DN(450- 500)
		– L50100 – GXXXNM	DN(600- 1000)
04	T450 – N1 – D – V2	– L50050 – GXXXNM	DN(060- 250)
05	T450 – N1 – W – V2	– L50050 – GXXXNM	DN(060- 250)

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 Zary

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-00095-110** 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	01, 02, 3 DN (60-400) 1.4404; 1.4571 from 0,6 mm (minimum 0,54 mm) DN (450 – 500) 1.4404; 1.4571 from 0,8 mm (minimum 0,72 mm) DN (600 – 1000) 1.4404; 1.4571 from 1,0 mm (minimum 0,90 mm) 04 and 05, DN (60-250) 1.4404; 1.4571 0,5 mm (minimum 0,45 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	DN (60-250): to 30 m DN (300-500): to 20 m DN (600-1000): to 15 m	For more information, see the manual
Non-vertical installation	3 m at 45°	The maximum distance between two supports
Working conditions		
Fire resistance	Yes Rigid liner: to T450 – G Connecting flue pipe: to T450 - GXXXNM 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	According to EN 13384-1, R = 1 mm	Normative value: see the method of calculation
Thermal resistance	03 0,56 m ² K/W	Specified at 200 °C
Resistance to thermal shock		
Heat load at nominal temperature	T450	Test temperature 550°C

Sootfire resistance	YES (designation G)	Tested at 1000°C (30 min.)
Durability		
Water vapor diffusion and water resistance	02, 05: YES (designation W) 01, 03, 04: Not (designation D)	
Condensate penetration resistance	02, 05: YES (designation W) 01, 03, 04: Not (designation D)	
Corrosion resistance	03: V3	For gas, fuel oil and solid fuels (dry running)
	01, 02, 04: V2	For gas, fuel oil and wood (according to EN 1443:2019)
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.
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Kinga Pachnik – Managing Director


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Ireneusz Koman – Plant Director

Żary 24-11-2021