

1. Unique identification code of the product types:

**Rigid flue liners and connecting flue pipes made of stainless steel
"MKS Power - Standard" system according to EN 1856-2: 2009**

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

System „MKS Power - Standard“ – flue liner

| | | |
|----|---------------------------------|---------------|
| 01 | T600 – H1 – W – V2 – L99050 – G | (DN80-DN250) |
| | T600 – H1 – W – V2 – L99060 – G | (DN300-DN400) |
| | T600 – H1 – W – V2 – L99080 – G | (DN450-DN600) |

System „MKS Power - Standard“ – connecting flue pipes

| | | |
|----|-------------------------------------|---------------|
| 02 | T600 – H1 – W – V2 – L99050 – G500M | (DN80-DN250) |
| | T600 – H1 – W – V2 – L99060 – G500M | (DN300-DN400) |
| | T600 – H1 – W – V2 – L99080 – G500M | (DN450-DN600) |
| 03 | T450 – H1 – W – V2 – L99050 – O250M | (DN80-DN250) |
| | T450 – H1 – W – V2 – L99060 – O250M | (DN300-DN400) |
| | T450 – H1 – W – V2 – L99080 – O250M | (DN450-DN600) |
| 04 | T200 – H1 – W – V2 – L99050 – O50M | (DN80-250) |
| | T200 – H1 – W – V2 – L99060 – O50M | (DN300-DN400) |
| | T200 – H1 – W – V2 – L99080 – O50M | (DN450-DN600) |

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 outside atmosphere for all kinds of applications (positive and 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.

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+

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 CRP 00095-140** 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 | <p>Nominal diameters: \varnothing: 80; 100; 130; 150; 180; 200; 250; 300; 350; 400; 500; 600</p> <p>Material: L99: 1.4521 (444)</p> <p>DN80-DN250 from 0,5 mm (minimum 0,45 mm) DN300-DN400 from 0,6 mm (minimum 0,54 mm) DN450-DN600 from 0,8 mm (minimum 0,72 mm)</p> | |
| Gaskets | No gaskets - metal to metal joint | |
| Mechanical strength | | |
| Compressive strength Segments of the chimney, fittings. | DN80-DN130: to 80 m DN300: to 40 m DN150: to 70 m DN350: to 30 m DN180-DN200: to 60 m DN400-DN600: to 20 m DN250: to 50 m | For more information, see the manual |
| Non-vertical installation | 4 m at 90° | The maximum distance between two supports – see the manual |
| Working conditions | | |
| Fire resistance | 01: T600 G 02: T600 G500*M 03: T450 O250*M 04: T200 O50*M | M – measured value *Distance to combustible materials [mm] |
| Tightness | H1 (leakage rate: 5000Pa: less than 0,006 [l s ⁻¹ m ⁻²]) | Working in positive 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 | T200 T450 T600 | Test temperature 250° C Test temperature 550° C Test temperature 700° C |
| Sootfire resistance | G designation: Yes O designation: No | In case G: tested at 1000°C (30 min.) |
| Durability | | |
| Water vapor diffusion and water resistance | Yes – designation W | |
| Condensate penetration resistance | Yes – designation W | |

| | | |
|---------------------------------------|---|--|
| 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 and any chemicals | |
| 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 25-11-2021

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) |
| | | – L50050 – G | DN(060- 250) |
| 05 | T450 – N1 – W – V2 | – L50050 – G | DN(060- 250) |
| | | – 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) |
| | | – L50050 – GXXXNM | DN(060- 250) |
| 05 | T450 – N1 – W – V2 | – L50050 – GXXXNM | DN(060- 250) |
| | | – 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.
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