Declaration of Performance

No. DOP: 0432-CPR-00095-115ST_EN

0432

1. Unique identification code of the product types:

Rigid flue liners and connecting flue pipes made of stainless steel
System MKKS „Standard" EN 1856-2: 2009

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

System MKKS – „Standard" – flue liners

Version 1	T200 – P1 – W – V2	– L99050 – O	DN(080- 250)
		– L99060 – O	DN(300- 400)
		– L99080 – O	DN(450- 500)
Version 1A	T120 – P1 – W – V2	– L99050 – O	DN(080- 100)
Version 2	T200 – P1 – W – Vm	– L20050 – O	DN(060)
Version 2A	T120 – P1 – W – Vm	– L20050 – O	DN(060)
Version 3	T450 – N1 – W – V2	– L99050 – G	DN(080- 250)
		– L99060 – G	DN(300- 400)
		– L99080 – G	DN(450- 500)

System MKKS – „Standard" – connecting flue pipes

Version 1	T200 – P1 – W – V2	– L99050 – OXXXNM	DN(080- 250)
		– L99060 – OXXXNM	DN(300- 400)
		– L99080 – OXXXNM	DN(450- 500)
Version 1A	T120 – P1 – W – V2	– L99050 – O375NM	DN(080- 100)
Version 2	T200 – P1 – W – Vm	– L20050 – O375NM	DN(060)
Version 2A	T120 – P1 – W – Vm	– L20050 – O375NM	DN(080- 100)
Version 3	T450 – N1 – W – V2	– L99050 – GXXXNM	DN(080- 250)
		– L99060 – GXXXNM	DN(300- 400)
		– L99080 – GXXXNM	DN(450- 500)

XXX – distance to combustible: 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 (positive and negative pressure)

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

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ul. Wiśniowa 24 / Kadłubia 79
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 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	**Version 1, 3:** DN (80-250) 1.4521 od 0,5 mm (minimum 0,45 mm) DN (300-400) 1.4521 od 0,6 mm (minimum 0,54 mm) DN (450-500) 1.4521 od 0,8 mm (minimum 0,72 mm) **Version 2** DN (60) 1.4301 0,5 mm (minimum 0,45 mm)	Version „A" type DN: 60, 80, 100
Thermal insulation	Not applicable	
Sealing	Seals according to EN 14241-1	For T120 - EPDM gaskets For T200 - Silicone gaskets
Mechanical strength		
Compressive strength Segments of the chimney, fittings and supports	DN (60-250) : to 30 m DN (300-500) : 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	**Version 1, 2:** NOT **Flue liner:** T200 - O **Connecting pipes:** T200 - OXXXNM XXX=3 x DN , at least 375 mm **Version "A" type:** NOT **Flue liner:** T120 - O **Connecting pipes:** T120 – O375NM **Version 3:** YES **Flue liner:** T450 – G **Connecting pipes:** T450 - GXXXNM XXX=3 x DN , at least 375 mm	NM – not measured XXX – distance to combustible (mm)
Tightness	**Version 1, 2: P1** (leakage rate for 200Pa: less than 0,006 [l s^{-1} m^{-2}] **Version 3: N1** (leakage rate for 40Pa: less than 2,0 [l s^{-1} m^{-2}]	Working in positive pressure 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	0 m^2K/W	Specified at 200 °C

Resistance to thermal shock		
Heat load at nominal temperature	**Version 1, 2:** T200 **Version „A" type:** T120 **Version 3:** T450	Test temperature 250°C Test temperature 150°C Test temperature 550°C
Sootfire resistance	**Version 3:** YES (designation G)	Tested at 1000°C (30 min.)
	Version 1, 2: NOT (designation O)	Tested at nominal temperature
Durability		
Water vapor diffusion and water resistance	YES (designation W)	
Condensate penetration resistance	YES (designation W)	
Corrosion resistance	**Version 1 - 3:** V2	For gas, fuel oil and wood (open furnace)
	Version 2: 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 15-12-2017