

1. Unique identification code of the product-type: **Metal positive pressure flue liner type SPS**
2. Intended usage of the construction product: Metal positive pressure flue liner type **SPS** is intended for carrying away waste gas from heating devices with a closed combustion chamber and condensation heating devices fired with gas and fuel oil, the element of systems of KASKADA and LAS type

3. Manufacturer:



"Komin-Flex" sp. z o.o.
43-200 Pszczyna
ul. Górnośląska 1

4. Authorized representative: not applicable

5. System of assessment and verification of constancy of performance of the construction product: **2+**

6a. Harmonized norm: PN EN 1856-1(2) 2009

Technický a Zkušební Ústav Stavební Praha, s.p. (Technical and Test Institute for Construction Prague, State Facility)
Notified Body EU No 1020, Number of certificate: 1020-CPD-070038635

7. Declared operational properties:

No.	Basic characteristics	Declared Technical Parameters	Harmonized technical specification PN-EN 1856-1: 2009
1.	Compressive strength	1,4 [kN]	PN-EN 1856-1: 2009 item 6
2.	Fire resistance Distance from flammable materials	O (not resistant) 500 [mm]	PN-EN 1856-1: 2009 item 6
3.	Gas tightness Method of operation of the chimney	P1 200 [Pa] positive pressure	PN-EN 1856-1: 2009 item 6
4.	Flow resistance -average roughness -coefficient of flow resistances of local fittings	Average roughness 0.1 R [mm] Elbow 45° - $\xi = 0.4$; Elbow 90° - $\xi = 0.45$; Pipe tee 90° - $\xi = 1.2$; Conical reduction 60° - $\xi = 0.08$	PN-EN 1856-1: 2009 item 6 PN-EN 1856-1: 2009 item 6
5.	Heat penetration resistance	Λ [m²K/W] 0	PN-EN 1856-1: 2009 item 6
6.	Resistance to soot fire Nominal Temp. work sys. chimney	O (not resistant) T200	PN-EN 1856-1: 2009 item 6
7.	Bending strength	NPD	NPD
8.	Tightness after heat tests	P1 200 [Pa]	PN-EN 1856-1: 2009 item 6
9.	Resistance to water and steam diffusion Resistance to the effects of condensate	resistant W	PN-EN 1856-1: 2009 item 6
10.	Material type Resistance to corrosion Material thickness	1.4301, 1.4307* Vm, V1, V2 0,4 to 0,6 [mm]	PN-EN 1856-1: 2009 item 6
11.	Resistance to freezing and thawing	resistant	PN-EN 1856-1: 2009 item 6

*NOTE: Manufacturer's declaration of the type of the applied steel

Operational properties of the product defined above are consistent with operational properties declared in item.
This declaration of commercial properties is released under the sole responsibility of the manufacturer specified in item 3.

Signed on behalf of the manufacturer by:

Piotr Cembala – Proxy

Pszczyna, 15 January 2018

