


1. Unique identification code of the product-type: **Metal negative pressure flue liner type OWAL**
2. Intended usage of the construction product: Metal negative pressure flue liner type **OWAL** - used as connectors and metal flues protecting against destructive impact of flue gas components on the ceramic surfaces of chimneys draining dry or wet waste gases from heating devices fired with gas, oil and energy solid fuels, wood, pellets.
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 1856-2: 2009
1.	Compressive strength	1,4 [kN]	PN-EN 1856-2: 2009 item 6
2.	Fire resistance Distance from flammable materials	G (resistant) 500 [mm]	PN-EN 1856-2: 2009 item 6
3.	Gas tightness Method of operation of the chimney	N1 40 [Pa] negative pressure	PN-EN 1856-2: 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 1856-2: 2009 item 6 PN-EN 1856-2: 2009 item 6
5.	Heat penetration resistance	0 [m²K/W]	PN-EN 1856-2: 2009 item 6
6.	Resistance to soot fire Nominal Temp. work sys. chimney	G (resistant) T450	PN-EN 1856-2: 2009 item 6
7.	Bending strength	NPD	NPD
8.	Tightness after heat tests	N1 40 [Pa]	PN-EN 1856-2: 2009 item 6
9.	Resistance to water and steam diffusion Resistance to the effects of condensate	resistant W	PN-EN 1856-2: 2009 item 6
10.	Material type Resistance to corrosion Material thickness	1.4404, 1.4301, 1.4307, 1.4521, 1.4828* Vm, V1, V2 0,4 to 1,0 [mm]	PN-EN 1856-2: 2009 item 6
11.	Resistance to freezing and thawing	resistant	PN-EN 1856-2: 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:

Paweł Jerszyński – President

Pszczyna, 18 May 2023