


1. Unique identification code of the product-type: **Insulated negative pressure chimney type SLIM EKO**
2. Intended usage of the construction product: Insulated negative pressure chimney type **SLIM EKO** - is intended for carrying away waste gas from heating devices fired with solid power fuels.
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	<b>6,8 [kN]</b>	<b>PN-EN 1856-1: 2009 item 6</b>
2.	Fire resistance Distance from flammable materials	<b>G (resistant)</b> <b>100 [mm]</b>	<b>PN-EN 1856-1: 2009 item 6</b>
3.	Gas tightness Method of operation of the chimney	<b>N1 40 [Pa]</b> <b>negative pressure</b>	<b>PN-EN 1856-1: 2009 item 6</b>
4.	Flow resistance -average roughness -coefficient of flow resistances of local fittings	<b>Average roughness 0.1 R [mm]</b>  <b>Elbow 45° - <math>\xi = 0.4</math>; Elbow 90° - <math>\xi = 0.45</math>;</b> <b>Pipe tee 90° - <math>\xi = 1.2</math>; Conical reduction 60° - <math>\xi = 0.08</math></b>	<b>PN-EN 1856-1: 2009 item 6</b>  <b>PN-EN 1856-1: 2009 item 6</b>
5.	Heat penetration resistance	<b>0.4 [m<sup>2</sup>K/W]</b>	<b>PN-EN 1856-1: 2009 item 6</b>
6.	Resistance to soot fire Nominal Temp. work sys. chimney	<b>G (resistant)</b> <b>T450</b>	<b>PN-EN 1856-1: 2009 item 6</b>
7.	Bending strength	<b>NPD</b>	<b>NPD</b>
8.	Tightness after heat tests	<b>N1 40 [Pa]</b>	<b>PN-EN 1856-1: 2009 item 6</b>
9.	Resistance to water and steam diffusion Resistance to the effects of condensate	<b>resistant</b> <b>W</b>	<b>PN-EN 1856-1: 2009 item 6</b>
10.	Material type Resistance to corrosion Material thickness	<b>1.4404</b> <b>Vm</b> <b>0,8 [mm]</b>	<b>PN-EN 1856-1: 2009 item 6</b>
11.	Resistance to freezing and thawing	<b>resistant</b>	<b>PN-EN 1856-1: 2009 item 6</b>

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**

