

**DECLARATION OF PERFORMANCE**  
no 1/2024



- Unique identification code of the product-type: **SWK – single-wall chimney system.**
- Intended usage: **SWK – single-wall chimney system** – used to convey smoke from appliance to outside atmosphere. Made of acid-resistant steel sheet, used as a protection of inner walls of ceramic chimney duct exhausting wet fumes from burning devices fired with gas, fuel oil, wood or pellet.
- Manufacturer:

**DARCO** DARCO Sp. z o. o.  
39-200 Dębica,  
Metalowców 43, Poland

- System or systems of assessment and verification of constancy of performance of construction product: **2+**
- Harmonized norm: **EN 1856-2:2009 [PN-EN 1856-2:2009]**  
Notified body: **UE no: 1450**  
**Oil and Gas Institute, National Research Institute**  
**Lubicz 25a, 31-503 Kraków, Poland**

6. Declared performance:

No	Essential characteristics	Performance	Harmonised technical specification
1.	Compressive strength	<b>Pass</b>	EN 1856-2:2009
2.	Resistance to fire <sup>1</sup>	<b>T600</b>	EN 1856-2:2009
		<b>T450</b>	
		<b>DN 80 ÷ 160</b> <b>G (xxx [mm])<sup>2</sup> NM</b>	
		<b>DN 80 ÷ 500</b> <b>G (500 [mm]) M</b>	
3.	Gas tightness / leakage	<b>N1 (40 [Pa])</b>	EN 1856-2:2009
4.	Flow resistance	Tee 90° - 1,14	EN 1856-2:2009
		Tee 45° - 0,35	
		Elbow 90° - 0,40	
		Elbow 45° - 0,28	
		Elbow 30° - 0,20	
		R= 1 [mm]	
5.	Thermal resistance	<b>&gt; 0 [m<sup>2</sup>K/W] without insulation</b>	EN 1856-2:2009
6.	Thermal-shock resistance	<b>T600</b>	EN 1856-2:2009
		<b>T450</b>	
7.	Flexural tensile strenght	<b>1,5 [m] over last mount</b> <b>2 [m] for 45° non-vertical installation</b>	EN 1856-2:2009
8.	Durability of gas-tightness	<b>N1 (40 [Pa])</b>	EN 1856-2:2009
9.	Durability against chemicals	<b>Pass, W</b>	EN 1856-2:2009
10.	Durability against corrosion	<b>V2</b>	EN 1856-2:2009
		<b>1.4404</b> <b>thickness from. 0,5 to 1,0 [mm]</b>	
11.	Durability flexural strenght	<b>Pass</b>	EN 1856-2:2009
12.	Durability compressive strength	<b>20 [m]</b>	EN 1856-2:2009
13.	Freeze thaw	<b>Resistant</b>	EN 1856-2:2009

<sup>1)</sup> applies only to connecting flue pipes

<sup>2)</sup> 3xDN (not less than 375mm)

Performance of the product is in conformity with above declared values. This declaration of performance is issued in accordance with (EU) regulation no 305/2011, under sole responsibility of above identified manufacturer.

Signed for of the manufacturer by: **Lukasz Darlak – President of the Board**

Dębica 22.08.2024  
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(date and place of issue)



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PREZES ZARZĄDU  
*Lukasz Darlak*  
.....  
(signature)

**invent. build. enjoy.**