

DECLARATION OF PERFORMANCE
no 2/2013



1. Unique identification code of the product-type: **Double-wall acid-proof isolated chimney systems, type SKD**
2. Intended usage of the construction product:
SKD type, double-wall acid-proof isolated chimneys, used to build chimneys exhausting wet fumes from oil or gas burning stoves.
3. Manufacturer:



DARCO Sp. z o. o.
39-206 Pustków Osiedle 48, Poland
Manufacturing plant location:
Dębica, ul. Metalowców 43, Poland

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

No.	Essential characteristics	Performance	Harmonised technical specification
1.	Sort of material	1.4404	PN-EN 1856-2:2009
2.	Thickness	0,5 [mm] (DN100/200÷DN150/250) 0,6 [mm] (DN160/260÷DN250/350) 0,8 [mm] (DN300/400÷DN350/450) 1,0 [mm] (DN400/500÷DN500/600)	Manufacturer's declaration
3.	Temperature level	T450	PN-EN 1856-2:2009
4.	Gas tightness (pressure class)	N1 (40[Pa])	PN-EN 1856-2:2009
5.	Condensate penetration resistance	W	PN-EN 1856-2:2009
6.	Water and vapour diffusion resistance	Resistant	PN-EN 1856-2:2009
7.	Durability against corrosion	Vm	PN-EN 1856-2:2009
8.	Sootfire resistance	G	PN-EN 1856-2:2009
9.	Minimum distance to combustible materials	50 [mm]	PN-EN 1856-2:2009
10.	Thermal resistance	0,41 [m²K/W] for 450°C (thermal resistance depends on flue diameter)	PN-EN 1856-2:2009
11.	Flow resistance of chimney [ç]	Tee 90° – 1,14 Tee 45° – 0,35 Elbow 90° – 0,40 Elbow 45° – 0,28 Elbow 30° – 0,20	PN-EN 1856-2:2009
12.	Mean value of roughness for chimney	R = 0,001 [m]	PN-EN 1856-2:2009
13.	Compressive strenght	Pass	PN-EN 1856-2:2009
14.	Freeze thaw resistance	Resistant	PN-EN 1856-2:2009
15.	Wind load resistance	1,5 kN/m² free standing end 1,5 m above the last fastening	
16.	Tensile strenght	NPD	PN-EN 1856-2:2009

7. Declaration of conformity no 03/2011 from 28.03.2011.
8. 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 the sole responsibility of the above identified manufacturer.

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

Dębica, 01.07.2013
(place and date of issue)

[Signature]
(signature) mgr **Lukasz Darlak**

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