



1085-CPR-0221

Declaration of performance

According to article 4 of the regulation of the European Parliament and Council 09.March 2011

Nr.: 1457-2-01-012-2020-01-02

1. Precise identifying code of the product type:

Ceramic inner tubes (flue liners) 'for multilayered chimney systems according to EN 1457-2

- a) KLASSIK (circular with tongue and groove) EN 1457-2 – B4 N1 „WC“
- b) KLASSIK (circular with tongue and groove) EN 1457-2 – D4 N1 „WC“ (without insulation)
- c) KLASSIK (square with tongue and groove) EN 1457-2 – B4 N1 „WC“
- d) KLASSIK (square with tongue and groove) EN 1457-2 – D4 N1 „WC“ (without insulation)
- e) KLASSIK plus (circular with tongue and groove) EN 1457-2 – B4 N1 „WC“
- f) KLASSIK plus (circular with tongue and groove) EN 1457-2 – D4 N1 „WC“ (without insulation)
- g) KERASAN (circular with tongue and groove) EN 1457-2 – D4 P1 „WA“ (without insulation)
- h) MULTIKeram (circular with socket connection) EN 1457-2 – A3 N1 „WC“
- i) MULTIKeram (circular with socket connection) EN 1457-2 – A3 N1 „WC“ (without insulation)
- j) MULTIKeram (circular with socket connection) EN 1457-2 – D4 P1 „WC“ (without insulation)

2. Intended Purpose(s):

Ceramic flue liners for multilayered chimney systems for the release of 'wet' exhaust gases from fire places into the open air

3. Manufacturer:

Hart Keramik AG, Anton-Hart-Straße 1, D-95652 Waldsassen

Tel. Nr.: +49 (0) 9632 848-0, Fax Nr.: +49 (0) 9632 848-48, E-Mail: info@hart-keramik.de

Manufactured at production site:

Hart Keramik AG, Am Bergwerk 12, D-95706 Schirnding

4. Representative:

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5. System(s) for the evaluation and verification of constancy of declared performance:

Product	Intended use	Tier or class (reaction to fire)	Certificate of conformity
Inner tubes / flue liners (elements and blocks)	Exhaust systems	All	2+

System 2+: see BPR, attachment III.2 (ii). 1. Possibility, including certification of plant's own production control through an approved authority on the basis of an ongoing monitoring, assessment and recognition of the plant's own production control.

6. a) Harmonised Standard

DIN EN 1457-1:2012-04: exhaust systems – ceramic inner tubes (flue liners) – Part 2: Inner tubes for wet operations – requirements and verification;

Notified authorities:

The notified certification authority NB 1085, authority: OFI CERT OFI Technologie & Innovation GmbH Arsenal, Objekt 213, Franz-Grill-Straße 5, A-1030 Wien conducted on the 28.06.2013 an inspection of the manufacturer's factory, the company's own production control, as well as ongoing monitoring, assessment and evaluation of the company's own production control after conducting the 2+ procedure and issued the confirmation certificate 1085-CPR-0221 for the company's own production control.

Last WPK: 07.01.2020

6. b) European Assessment Document:
Y

European Technical Assessment:

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Technological Assessment Body:

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Notified Body:

7. Declared Performanc(es)

Essential Features (Performance characteristics)	Performance (class)	Harmonised Technical Specification
9.2.2 Gas density / leakage following soot fires	a) N1 ¹	
	b) N1	
	c) N1 ¹	
	d) N1	
	e) N1 ¹	
	f) N1	
	g) P1	
	h) N1 ¹	
	i) N1	
	j) P1	
9.2.3 Gas density / leakage after assessment of operating temperature	a) N1 ¹	EN 1457-2
	b) N1	
	c) N1 ¹	
	d) N1	
	e) N1 ¹	
	f) N1	
	g) P1	
	h) N1 ¹	
	i) N1	
	j) P1	
13.1 Condensate resistance (water vapour permeability)	a) WC 5 - 10 g h ⁻¹ m ⁻²	
	b) WC 5 - 10 g h ⁻¹ m ⁻²	
	c) WC 5 - 10 g h ⁻¹ m ⁻²	
	d) WC 5 - 10 g h ⁻¹ m ⁻²	
	e) WC 5 - 10 g h ⁻¹ m ⁻²	
	f) WC 5 - 10 g h ⁻¹ m ⁻²	
	g) WA ≤ 2 g h ⁻¹ m ⁻²	

	h) WC 5 - 10 g h ⁻¹ m ⁻²	
	i) WC 5 - 10 g h ⁻¹ m ⁻²	
	j) WC 5 - 10 g h ⁻¹ m ⁻²	
13.2 Flow resistance (meanroughness)	0,0015 m	EN 1457-2 EN 13384-1
14. Thermal resistance	≤ 0,02 m ² K/W bei 200 °C	
9.2.1, 9.2.2 Fire resistance (soot fire resistance)	a) No (O)	EN 1457-2
	b) No (O)	
	c) No (O)	
	d) No(O)	
	e) No (O)	
	f) No (O)	
	g) No (O)	
	h) Yes (G)	
	i) Yes (G)	
	j) No (O)	
9.2.3 Assessment of operatingtemperature	a) No (O)	EN 1457-2
	b) No (O)	
	c) No (O)	
	d) No (O)	
	e) No (O)	
	f) No (O)	
	g) No (O)	
	h) Yes (G)	
	i) Yes (G)	
	j) No (O)	
8.1 Pressure resistance of test load (straight inner liners)	≥ 10 MN/m ²	
8.2 Pressure resistance of test load (curved inner liners)	≥ 10 MN/m ²	
8.3 Pressure resistance minimum load (opening sections)	≥ 50 kN	
10.1 Acid durability / corrosion resistance	≤ 2 %	
10.2 Frost durability / thaw resistance	yes ²	
12. Durability abrasion / abrasion resistance	≤ 0,03 kg/m ²	
ZA.1 Dangerous substances	none ³	

8. Adequate technical documentation and/or specific technical documentation:

The additional information about the declaration of performance and set-up instructions contains specifications on essential characteristics.

The performance of the above product corresponds to the declared performance(s).

Only the above-named manufacturer is responsible for the preparation of the declaration of performance in accordance with Regulation (EU) no. 305/2011

Signed for the manufacturer and in the name of the manufacturer:

Michael J. Schwarz, executive board member

Waldsassen, 02.01.2020



(Signature and company stamp):

¹ testet with isolation thermal resistance 0,4 m²K/W ± 0,04 m²K/W

² test report BTI 17927/2007 and BTI 19373/2008

³ In the context of the EU-chemical ordinance (REACH), the list of „SVHC-substances“ (date 19.12.2012) with especial worrying substances are published by ECHA. In this product substances of the current list of „SVHC-substances“ are not included.