DECLARATION OF PERFORMANCE

System Chimney with plastic flue liners | document number |
UCG-0168-DoP-9169503-a | 13.09.2022

1. **Unique identification code of the product type:**

   System chimney with plastic flue liners
   EN 14471:2013 + A1:2015

2. **Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11 (4):**

Model	**0.1**	**T120**	**H1**	**W2**	**O20**	**LI**	**D**	**U**
Single wall		Flue side: PP	Enclosure: none					
Model	**0.2**	**T120**	**H1**	**W2**	**O00**	**LI**	**D**	**U1**
Concentric		Flue side: PP	Enclosure: plastic					
Model	**0.3**	**T120**	**H1**	**W2**	**O00**	**LI**	**D**	**U0**
Concentric		Flue side: PP (use inside building)	Enclosure: metal					
Model	**0.4**	**T120**	**H1**	**W2**	**O00**	**LE**	**D**	**U0**
Concentric		Flue side: PP (external use)	Enclosure: metal/stainless steel					
Model	**0.5**	**T120**	**H1**	**W2**	**O00**	**LI**	**D**	**U0**
Concentric		Flue side: PP flexible	Enclosure: metallic/mineral					
Model	**0.6**	**T120**	**H1**	**W2**	**O00**	**LI**	**D**	**U0**
Concentric		Flue side: PP rigid	Enclosure: metallic/mineral					

3. **Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:**

   Convey products of combustion from appliances to the outside atmosphere, convey air for combustion where required.

4. **Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11 (5):**

   Centrotec SE
   Am Patbergschen Dorn 9
   D – 59929 Brilon

5. **Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12 (2):**

Centrotherm Systemtechnik GmbH
Am Patbergschen Dorn 9
D – 59929 Brilon
+49 29 61 / 96 70 - 0

Ubbink Nederland BV
Verhuellweg 9
NL – 6984 AA Doesburg
+31 313 480 200

6. **System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:**

System 2+, System 3, System 4

7. **In case of the declaration of performance concerning a construction product covered by a harmonised standard:**

Notified factory production control certification body No. 0036 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control.

8. **In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:**

Not relevant.

9. **Declared performance**

Essential characteristics	Performance	Harmonised technical speciffication
Compressive strength (maximum height)	0.1 (DN60 – DN400) 50 m 0.2 (DN60/100 – DN125/186) 50 m 0.3 (DN60/100 – DN200/300) 50 m 0.4 (DN60/100 – DN400/500) 50 m 0.5 (DN50 – DN160) 30 m 0.6 (DN60 – DN400) 50 m	EN 14471:2013+ A1:2015
Resistance to wind load (free standing height above last support)	0.1 n.p.d. 0.2 n.p.d. 0.3 (DN60/100 – DN200/300) 1,5 m 0.4 (DN60/100 – DN400/500) 1,5 m 0.5 n.p.d. 0.6 n.p.d.	EN 14471:2013+ A1:2015
Resistance to wind load (maximum length between supports)	0.1 n.p.d. 0.2 n.p.d. 0.3 (DN60/100 – DN200/300) 2,0 m	EN 14471:2013+ A1:2015

Essential characteristics	Performance	Harmonised technical speciffication
	0.4 (DN60/100 – DN400/500) 2,0 m 0.5 n.p.d. 0.6 n.p.d.	
Fire resistance (temperature class, sootfire resistance class, distance to combustibles, reaction to fire, outer wall class, way of testing)	0.1 T120 O20 D U (tested without enclosure, completely ventilated) 0.2 T120 O00 D U1 (tested in combustible enclosure with ventilated gap) 0.3 T120 O00 D U0 (tested in non-combustible enclosure with ventilated gap) 0.4 T120 O00 D U0 (tested in non-combustible enclosure with ventilated gap) 0.5 T120 O00 D U0 (tested in non-combustible enclosure with ventilated gap, tested with enclosure Di<2*Da) 0.6 T120 O00 D U0 (tested in non-combustible enclosure with ventilated gap)	EN 14471:2013+ A1:2015
Gas tightness (pressure class)	H1	EN 14471:2013+ A1:2015
Thermal performance (temperature class)	T120	EN 14471:2013+ A1:2015
Dimensioning	0.1 DN60, DN75, DN80, DN90, DN100, DN110, DN125, DN160, DN200, DN250, DN315, DN400 0.2 DN60/100, DN75/125, DN80/125, DN100/150, DN110/160 0.3 DN60/100, DN75/125, DN80/125, DN80/130, DN100/150, DN110/160, DN125/185, DN125/200, DN160/225, DN160/250, DN200/300 0.4 DN60/100, DN75/125, DN80/125, DN100/150, DN110/160, DN125/185, DN125/200, DN160/225, DN200/300,	EN 14471:2013+ A1:2015

Essential characteristics	Performance	Harmonised technical speciffication
	DN250/350, DN315/400, DN400/500 0.5 DN50, DN80, DN110, DN125, DN160 0.6 DN60, DN75, DN80, DN90, DN100, DN110, DN125, DN160, DN200,	
Thermal resistance (in m²K/W)	R00	EN 14471:2013+ A1:2015
Flow resistance of chimney sections (r= mean value of roughness of the inner wall)	0.1 (DN60 – DN400) 0,5 mm 0.2 (DN60/100 – DN125/186) 0,5 mm 0.3 (DN60/100 – DN200/300) 0,5 mm 0.4 (DN60/100 – DN400/500) 0,5 mm 0.5 (DN50) 0,5 mm (DN80) 1,0 mm (DN110) 1,3 mm (DN125) 5,0 mm (DN160) 5,0 mm 0.6 (DN60 – DN400) 0,5 mm	EN 14471:2013+ A1:2015
Flow resistance of chimney fittings (ζ= coefficient of flow resistance)	acc. EN 13384-1	EN 14471:2013+ A1:2015
Flow resistance of terminals (ζF= coefficient of flow resistance for the flue duct)(ζA= coefficient of flow resistance for the air duct)	Product specific specification	EN 14471:2013+ A1:2015
Flexural tensile strength (real length of the lateral displacement)	1,5 m	EN 14471:2013+ A1:2015
Flexural tensile strength (maximum inclination)	0.1 (DN60 – DN400) 87° 0.2 (DN60/100 – DN125/186) 87° 0.3 (DN60/100 – DN200/300) 87° 0.4 (DN60/100 – DN400/500) 87° 0.5 (DN50 – DN160) 45° 0.6 (DN60 – DN400) 87°	EN 14471:2013+ A1:2015
Durability against chemicals (condensate resistance class)	W	EN 14471:2013+ A1:2015
Durability against chemicals (corrsosion resistance class)	2	EN 14471:2013+ A1:2015
Durability against UV (location class)	0.1 (DN60 – DN400) LI 0.2 (DN60/100 – DN125/186) LI 0.3 (DN60/100 – DN200/300) LI 0.4 (DN60/100 – DN400/500) LE 0.5 (DN50 – DN160) LI	EN 14471:2013+ A1:2015

Essential characteristics	Performance	Harmonised technical speciffication
	0.6 (DN60 – DN400) LI	
Durability against thermal load	T120	EN 14471:2013+ A1:2015
Reaction to fire	D	EN 14471:2013+ A1:2015
Freeze thaw resistance	Yes	EN 14471:2013+ A1:2015
Dangerous substances	No	Relevant national regulations
Wind direction characteristics of terminals	Roof terminals: Typ III A45, Typ III A90 (acc. product specific specification) Chimney covers: Typ III A45 (acc. product specific specification)	EN 14471:2013+ A1:2015
Resistance to rain water ingress of terminals	Proved	EN 14471:2013+ A1:2015
Resistance to icing of terminals	Proved	EN 14471:2013+ A1:2015

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Brilon, 09.02.2021

Thomas Hohmann
Norms and Approval Officer
CENTROTEC SE