

# Declaration of Performance according regulation (EU) Nr. 305/2011 for building products (CPR-Construction Products Regulation) 0432

DOP-No. CE 0432 CPR 00117-23/DOP\_DW-STREAM/February 2017

## 1 Multiwall system chimney according DIN EN 1856-1:2009 of type

Product designation:  
(Tradename)

**DW-STREAM**

## 2 Type-, charge or serial no. or other mark for identification of the building product according article 11 paragraph 4:

Product information of the manufacturer

DN

0.1	Metal system chimney	EN	T	P1	W	V2	O(00)	multiwall chimney with 25 mm insulation and EPDM sealing ventilated, without shaft
		1856-1	120			L50050		
0.2	Metal system chimney	EN	T	N1	W	V2	O(50)	multiwall chimney with 25 mm insulation ventilated, without shaft
		1856-1	400			L50050		
0.3	Metal system chimney	EN	T	N1	W	V2	O(60)	multiwall chimney with 25 mm insulation ventilated, without shaft
		1856-1	600			L50050		
0.4	Metal system chimney	EN	T	N1	D	V2	G(80)	multiwall chimney with 25 mm insulation ventilated, without shaft
		1856-1	600			L50050		
0.5	Metal system chimney	EN	T	N1	W	V2	G(50)	multiwall chimney with 25 mm insulation ventilated, with shaft and fire stops
		1856-1	600			L50050		

Product description	
No. of standard	
Pressure class	
Condensate resistance (W:wet or D: dry)	
Corrosion class (durability against corrosion)	
Material of the inner liner	
Sootfire resistance G: yes/ O: no	
Distance to combustible materials (in mm)	

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

### Convey the products of combustion from heating appliances to the outside atmosphere

## 4 Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11 (5):

**Joseph Raab GmbH & Cie. KG**  
 Gladbacher Feld 5, D-56566 Neuwied  
 Tel.: +49(0) 2631 913-0 Fax: +49(0) 2631 913-145  
 E-Mail: info@raab-gruppe.de  
 Internet: www.raab-gruppe.de

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

**Not applicable**

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

**System 2+**

## 7 Notified factory production control certification body



**Marsbruchstraße 186**  
**D-44287 Dortmund**

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 Declared performance

lfd. Nr.	Essential characteristics	Performance according EN 1856-1	Values / Classes	harmonised technical specification/other informations
1.0	Compressive strength	Version 0.1-0.5 for Tubes, fittings and wall bands	L50050 DN80-200 up to 56 m	DIN 1856-1 Consider anchor forces/ distance to the wall
2.1	Resistance to fire	Version 0.1 Distance to combustible materials with T120 and positive pressure P1	O(00) DN80-200 0mm, ventilated, without shaft	EN 1856-1 With EPDM sealing
2.2	Resistance to fire	Version 0.2 Distance to combustible materials with T400 and negative pressure N1	O(50) DN80-200 50mm, ventilated, without shaft	EN 1856-1
2.3	Resistance to fire	Version 0.3 Distance to combustible materials with T600 and negative pressure N1	O(60) DN80-200 60mm, ventilated, without shaft	EN 1856-1
2.4	Resistance to fire	Version 0.4 Distance to combustible materials with T600 and negative pressure N1	G(80) DN80-200 80mm, ventilated, without shaft	EN 1856-1
2.5	Resistance to fire	Version 0.5 Distance to combustible materials with T600 and negative pressure N1	G(50) DN80-200 50mm, ventilated, with shaft	EN 1856-1
3.1	Gas tightness	Version 0.1 T120	O(00) DN80-200 P1	EN 1856-1 With EPDM sealing
3.2	Gas tightness	Version 0.2 T400	O(50) DN80-200 N1	EN 1856-1
3.3	Gas tightness	Version 0.3 T600	O(80) DN80-200 N1	EN 1856-1
3.4	Gas tightness	Version 0.4 T600	G(80) DN80-200 N1	EN 1856-1
3.5	Gas tightness	Version 0.5 T600	G(50) DN80-200 N1	EN 1856-1
4.1	Flow resistance	Version 0.1-0.5 Tubes	according EN13384-1, R=1mm Table B.4	EN 1856-1 Normative value
4.2	Flow resistance	Version 0.1-0.5 Fittings	according EN13384-1 Table B.8	EN 1856-1 Normativer Wert
4.3	Flow resistance	Version 0.1-0.5 Terminals	according EN13384-1 Table B.8	EN 1856-1 Herstellerangabe
5.1	Thermal resistance	Version 0.1-0.5	0,43 m <sup>2</sup> K/W bei 70°C 0,28 m <sup>2</sup> K/W bei 200°C with 25 mm thickness of insulation	Calculation according EN 1859 Annex F
6.1	Thermal shock resistance	Version 0.1 Sootfire resistance Thermal performance under normal operating conditions	O(00) DN80-200 No  No-because O O(00) DN80-200 T120	EN 1856-1 With EPDM sealing
6.2	Thermal shock resistance	Version 0.2 Sootfire resistance Thermal performance under normal operating conditions	O(50) DN80-200 No  No-because O O(50) DN80-200 T400	EN 1856-1
6.3	Thermal shock resistance	Version 0.3 Sootfire resistance Thermal performance under normal operating conditions	O(60) DN80-200 No  No-because O O(60) DN80-200 T600	EN 1856-1
6.4	Thermal shock resistance	Version 0.4 Sootfire resistance Thermal performance under normal operating conditions	G(80) DN80-200 Yes  Yes-because G G(80) DN80-200 T600	EN 1856-1
6.5	Thermal shock resistance	Version 0.5 Sootfire resistance Thermal performance under normal operating conditions	G(50) DN80-200 Yes  Yes-because G G(50) DN80-200 T600	EN 1856-1

8 Declared performance

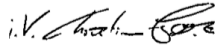
lfd. Nr.	Essential characteristics	Performance according EN 1856-1	Values / Classes	harmonised technical specification/other informations
7.1	Flexural tensile strength	Version 0.1-0.5	NPD	EN 1856-1
8.1	Non vertical installation	Version 0.1-0.5 Maximum offset between supports	90°	EN 1856-1
8.2	Non vertical installation	Version 0.1-0.5 Maximum length between supports	2m	EN 1856-1
9	Components subject to wind load	Version 0.1-0.5 Wind load	free standing height above last support: 2 m Maximum spacing between lateral supports: 3 m	EN 1856-1
10.1	Durability	Water and vapour diffusion resistance Version 0.1-0.3/0.5 Version 0.4	W (Yes) D (No)	EN 1856-1
10.2	Durability	Condensate penetration resistance Version 0.1-0.3/0.5 Version 0.4	W (Yes) D (No)	EN 1856-1
10.3	Durability	Against corrosion Version 0.1-0.5	V2	EN 1856-1

- 9 The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. 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:

Christian Freis, Technical director Raab-Group

Neuwied,  
01. February 2017

  
i.V. ....  
(Signature)