

1 Single wall system chimney according EN 1856-1:2009 of type

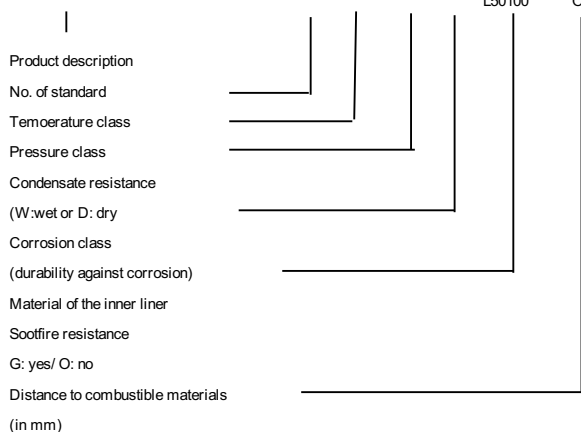
Product designation:

EW-ALKON

(Tradename)

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(50)	80-300	Single wall metal chimney	
		1856-1	200				L50060	O(75)	301-450	ventilated, without shaft
							L50100	O(100)	451-600	
0.2	Metal system chimney	EN	T	N1	D	V2	G(300)	80-300	Single wall metal chimney	
		1856-1	400				L50060	G(450)	301-450	ventilated, without shaft
							L50100	G(600)	451-600	
0.3	Metal system chimney	EN	T	N1	D	V3	G(60)	80-300	Single wall metal chimney with 30 mm insulation	
		1856-1	400				L50060	G(90)	301-450	ventilated, without shaft
							L50100	G(120)	451-600	
0.4	Metal system chimney	EN	T	N1	W	V2	O(80)	80-300	Single wall metal chimney	
		1856-1	400				L50060	O(120)	301-450	ventilated, without shaft
							L50100	O(160)	451-600	
0.5	Metal system chimney	EN	T	H1	D	V2	G(300)	80-300	Single wall metal chimney	
		1856-1	600				L50060	G(450)	301-450	ventilated, without shaft
							L50100	G(600)	451-600	
0.6	Metal system chimney	EN	T	H1	D	V3	G(60)	80-300	Single wall metal chimney with 30 mm insulation	
		1856-1	600				L50060	G(90)	301-450	ventilated, without shaft
							L50100	G(120)	451-600	
0.7	Metal system chimney	EN	T	H1	W	V2	O(150)	80-300	Single wall metal chimney	
		1856-1	600				L50060	O(225)	301-450	ventilated, without shaft
							L50100	O(300)	451-600	



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):

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 Gladbacher Feld 5, D-56566 Neuwied
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 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



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

Idf. Nr.	Essential characteristics	Performance according EN 1856-1	Values / Classes	harmonised technical specification/other informations
1.0	Compressive strength	Version 0.1-0.7 for Tubes, fittings and wall bands	L50060 DN80-300 up to 440 m DN301-450 up to 21 m DN451-600 up to 15 m L50100 DN80-300 up to 419 m DN301-450 up to 69 m DN451-600 up to 43 m	EN 1856-1 Consider anchor forces/ distance to the wall Height
2.1	Resistance to fire	Version 0.1 Distance to combustible materials with T200 and positive pressure P1	O(50) DN80-300 50mm, O(75) DN301-450 75mm, O(100) DN451-600 100mm, ventilated, without shaft	EN 1856-1
2.2	Resistance to fire	Version 0.2 Distance to combustible materials with T400, negative pressure N1 and soot fire resistance	G(300) DN80-300 300mm, G(450) DN301-450 450mm, G(600) DN451-600 600mm, ventilated, without shaft	EN 1856-1
2.3	Resistance to fire	Version 0.3 Distance to combustible materials with T400, negative pressure N1 and soot fire resistance	G(300) DN80-300 60mm, G(450) DN301-450 90mm, G(600) DN451-600 120mm, ventilated, without shaft	EN 1856-1
2.4	Resistance to fire	Version 0.4 Distance to combustible materials with T400, negative pressure N1	O(80) DN80-300 80mm, O(120) DN301-450 120mm, O(160) DN451-600 160mm, ventilated, without shaft	EN 1856-1
2.5	Resistance to fire	Version 0.5 Distance to combustible materials with T600, and positive pressure H1 and soot fire resistance	G(300) DN80-300 300mm, G(450) DN301-450 450mm, G(600) DN451-600 600mm, ventilated, without shaft	EN 1856-1
2.6	Resistance to fire	Version 0.6 Distance to combustible materials with T600, and positive pressure H1 and soot fire resistance	G(300) DN80-300 60mm, G(450) DN301-450 90mm, G(600) DN451-600 120mm, ventilated, without shaft	EN 1856-1
2.7	Resistance to fire	Version 0.7 Distance to combustible materials with T600, and positive pressure H1 and soot fire resistance	O(150) DN80-300 150mm, O(225) DN301-450 225mm, O(300) DN451-600 300mm, ventilated, without shaft	EN 1856-1
3.1	Gas tightness	Version 0.1 T200	O(50) DN80-300 P1 O(75) DN301-450 P1 O(100) DN451-600 P1	EN 1856-1
3.2	Gas tightness	Version 0.2 T400	G(300) DN80-300 N1 G(450) DN301-450 N1 G(600) DN451-600 N1	EN 1856-1
3.3	Gas tightness	Version 0.3 T400	G(60) DN80-300 N1 G(90) DN301-450 N1 G(120) DN451-600 N1	EN 1856-1
3.4	Gas tightness	Version 0.4 T400	O(80) DN80-300 N1 O(120) DN301-450 N1 O(160) DN451-600 N1	EN 1856-1
3.5	Gas tightness	Version 0.5 T600	G(300) DN80-300 H1 G(450) DN301-450 H1 G(600) DN351-600 H1	EN 1856-1
3.6	Gas tightness	Version 0.6 T600	G(60) DN80-300 H1 G(90) DN301-450 H1 G(120) DN451-600 H1	EN 1856-1
3.7	Gas tightness	Version 0.7 T600	O(150) DN80-300 H1 O(225) DN301-450 H1 O(300) DN451-600 H1	EN 1856-1
4.1	Flow resistance	Version 0.1-0.7 Tubes	according EN13384-1, R=1mm table B.4	EN 1856-1 normative value
4.2	Flow resistance	Version 0.1-0.7 Fittings	according EN13384-1 table B.8	EN 1856-1 normative value
4.3	Flow resistance	Version 0.1-0.7 Terminals	according EN13384-1 table B.8	EN 1856-1 declaration of the manufacturer
5.1	Thermal resistance	Version 0.3/0.6	0,41 m ² K/W with 200°C with 30 mm insulation	EN 1856-1
5.2	Thermal resistance	Version 0.1/0.2/0.4/0.5/0.7	0,0 m ² K/W with 70°C without insulation	EN 1856-1

8 Declared performance

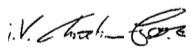
Id. Nr.	Essential characteristics	Performance according EN 1856-1	Values / Classes	harmonised technical specification/other informations
6.1	Thermal shock resistance	Version 0.1 Sootfire resistance Thermal performance under normal operating conditions	O(50) DN80-300 50mm, No O(75) DN301-450 75mm, No O(100) DN351-600 100mm, No No-because O O(50) DN80-300 T200 O(75) DN301-450 T200 O(100) DN351-600 T200	EN 1856-1
6.2	Thermal shock resistance	Version 0.2 Sootfire resistance Thermal performance under normal operating conditions	G(300) DN80-300 Yes G(450) DN301-450 Yes G(600) DN351-600 Yes G(300) DN80-300 T400 G(450) DN301-450 T400 G(600) DN351-600 T400	EN 1856-1
6.3	Thermal shock resistance	Version 0.3 Sootfire resistance Thermal performance under normal operating conditions	G(60) DN80-300 Yes G(90) DN301-450 Yes G(120) DN351-600 Yes G(60) DN80-300 T400 G(90) DN301-450 T400 G(120) DN351-600 T400	EN 1856-1
6.4	Thermal shock resistance	Version 0.4 Sootfire resistance Thermal performance under normal operating conditions	O(80) DN80-300 No O(120) DN301-450 No O(160) DN351-600 No No-because O O(80) DN80-300 T400 O(120) DN301-450 T400 O(160) DN351-600 T400	EN 1856-1
6.5	Thermal shock resistance	Version 0.5 Sootfire resistance Thermal performance under normal operating conditions	G(300) DN80-300 Yes G(450) DN301-450 Yes G(600) DN351-600 Yes G(300) DN80-300 T600 G(450) DN301-450 T600 G(600) DN351-600 T600	EN 1856-1
6.6	Thermal shock resistance	Version 0.6 Sootfire resistance Thermal performance under normal operating conditions	G(60) DN80-300 Yes G(90) DN301-450 Yes G(120) DN351-600 Yes G(60) DN80-300 T600 G(90) DN301-450 T600 G(120) DN351-600 T600	EN 1856-1
6.7	Thermal shock resistance	Version 0.7 Sootfire resistance Thermal performance under normal operating conditions	O(150) DN80-300 No O(225) DN301-450 No O(300) DN351-600 No No-because O O(150) DN80-300 T600 O(225) DN301-450 T600 O(300) DN351-600 T600	EN 1856-1
7.1	Flexural tensile strength	Version 0.1-0.7	NPD	EN 1856-1
8.1	Non vertical installation	Version 0.1-0.7 Maximum offset between supports	90°	EN 1856-1
8.2	Non vertical installation	Version 0.1-0.7 Maximum length between supports	3m	EN 1856-1
9	Components subject to wind load	Version 0.1-0.7 Wind load	free standing height above last support: 1,5 m Maximum spacing between lateral supports: 2 m	EN 1856-1
10.1	Durability	0.1/0.4/0.7 Water and vapour diffusion resistance 0.2/0.3/0.5/0.6	W (Yes) D (Yes)	EN 1856-1
10.2	Durability	0.1/0.4/0.7 Condensate penetration resistance 0.2/0.3/0.5/0.6	W (Yes) D (No)	EN 1856-1
10.3	Durability	corrosion resistance Version 0.1/0.2/0.4/0.5/0.7 Version 0.3/0.6	V2 V3	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. 
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(Signature)