

Declaration of Performance (DOP)

No. 9174 002 DOP 2013-06-17

1. Unique identification code of the product-type:

Multi-wall chimney system type DW-KL according to EN 1856-1:2009

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

Double wall "conical" chimney system type DW-KL with 32 mm heat insulation¹⁾

Model 1 DN (80-1000)	T200 – P1 – W – V2 – L50060 – O00
Model 2 DN (80- 300)	T200 – H1 – W – V2 – L50060 – O20
Model 2 DN (350- 450)	T200 – H1 – W – V2 – L50060 – O30
Model 2 DN (500- 600)	T200 – H1 – W – V2 – L50060 – O40
Model 2 DN (650-1000)	T200 – H1 – W – V2 – L50060 – O80
Model 3 DN (80- 300)	T400 – N1 – D – V3 – L50060 – G50
Model 3 DN (350- 450)	T400 – N1 – D – V3 – L50060 – G75
Model 3 DN (500- 600)	T400 – N1 – D – V3 – L50060 – G100
Model 3 DN (650-1000)	T400 – N1 – D – V3 – L50060 – G200
Model 4 DN (80- 300)	T400 – N1 – W – V2 – L50060 – O20
Model 4 DN (350- 450)	T400 – N1 – W – V2 – L50060 – O30
Model 4 DN (500- 600)	T400 – N1 – W – V2 – L50060 – O40
Model 4 DN (650-1000)	T400 – N1 – W – V2 – L50060 – O80
Model 5 DN (80- 300)	T400 – P1 – W – V2 – L50060 – O20
Model 5 DN (350- 450)	T400 – P1 – W – V2 – L50060 – O30
Model 5 DN (500- 600)	T400 – P1 – W – V2 – L50060 – O40
Model 5 DN (650-1000)	T400 – P1 – W – V2 – L50060 – O80
Model 6 DN (80- 300)	T450 – H1 – W – V2 – L50060 – O50
Model 6 DN (350- 450)	T450 – H1 – W – V2 – L50060 – O75
Model 6 DN (500- 600)	T450 – H1 – W – V2 – L50060 – O100
Model 6 DN (650-1000)	T450 – H1 – W – V2 – L50060 – O200
Model 7 DN (80- 300)	T600 – N1 – D – V3 – L50060 – G50
Model 7 DN (350- 450)	T600 – N1 – D – V3 – L50060 – G75
Model 7 DN (500- 600)	T600 – N1 – D – V3 – L50060 – G100
Model 7 DN (650-1000)	T600 – N1 – D – V3 – L50060 – G200
Model 8 DN (80- 300)	T600 – H1 – W – V2 – L50060 – G50
Model 8 DN (350- 450)	T600 – H1 – W – V2 – L50060 – G75
Model 8 DN (500- 600)	T600 – H1 – W – V2 – L50060 – G100
Model 8 DN (650-1000)	T600 – H1 – W – V2 – L50060 – G200

¹⁾ Manufacturer product identification DW-KL

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):

Jeremias GmbH
Opfenrieder Straße 11-14
DE-91717 Wassertrüdingen
Tel.: +49 9832 68 68 0
Fax: +49 9832 68 68 68
Email: info@jeremias.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+ and System 4

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

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 0036 CPD 9174 002 of the factory production control.

8. Declared performance:

	Essential Characteristics	Performance	Harmonized technical specification
8.1	Compressive strength Chimney sections, fittings and supports	<u>Sections and fittings:</u> Model 1 to 8 DN (80- 300): up to 38 m Model 1 to 8 DN (350- 450): up to 32 m Model 1 to 8 DN (500- 600): up to 21 m Model 1 to 8 DN (650-1000): up to 9 m <u>Supports:</u> n.p.d. For further information see the installation instruction DW-KL	EN 1856-1:2009
8.2	Resistance to fire	(Resistance to fire from inside to outside) Model 1 DN (80-1000): T200 – O00 Model 2 DN (80- 300): T200 – O20 Model 2 DN (350- 450): T200 – O30 Model 2 DN (500- 600): T200 – O40 Model 2 DN (650-1000): T200 – O80 Model 3 DN (80- 300): T400 – G50 Model 3 DN (350- 450): T400 – G75 Model 3 DN (500- 600): T400 – G100 Model 3 DN (650-1000): T400 – G200 Model 4 DN (80- 300): T400 – O20 Model 4 DN (350- 450): T400 – O30 Model 4 DN (500- 600): T400 – O40 Model 4 DN (650-1000): T400 – O80 Model 5 DN (80- 300): T400 – O20 Model 5 DN (350- 450): T400 – O30 Model 5 DN (500- 600): T400 – O40 Model 5 DN (650-1000): T400 – O80 Model 6 DN (80- 300): T450 – O50 Model 6 DN (350- 450): T450 – O75 Model 6 DN (500- 600): T450 – O100 Model 6 DN (650-1000): T450 – O200 Model 7 DN (80- 300): T600 – G50 Model 7 DN (350- 450): T600 – G75 Model 7 DN (500- 600): T600 – G100 Model 7 DN (650-1000): T600 – G200 Model 8 DN (80- 300): T600 – G50 Model 8 DN (350- 450): T600 – G75 Model 8 DN (500- 600): T600 – G100 Model 8 DN (650-1000): T600 – G200 Tested without cover, with back ventilated ceiling duct	EN 1856-1:2009
8.3	Gas tightness/leakage	Model 1 DN (80-1000): P1 Model 2 DN (80-1000): H1 Model 3 DN (80-1000): N1 Model 4 DN (80-1000): N1 Model 5 DN (80-1000): P1 Model 6 DN (80-1000): H1 Model 7 DN (80-1000): N1 Model 8 DN (80-1000): H1	EN 1856-1:2009

8. Declared performance:

	Essential Characteristics	Performance	Harmonized technical specification																								
8.4	Flow resistance of chimney sections fittings and terminals	<p>According to EN 13384-1</p> <table border="1"> <thead> <tr> <th>component:</th> <th>ζ (Zeta-value) single resistances</th> </tr> </thead> <tbody> <tr> <td>pipe tee 87°:</td> <td>1.14</td> </tr> <tr> <td>pipe tee 45°:</td> <td>0.35</td> </tr> <tr> <td>pipe bend 87°:</td> <td>0.40</td> </tr> <tr> <td>pipe bend 45°:</td> <td>0.28</td> </tr> <tr> <td>pipe bend 30°:</td> <td>0.20</td> </tr> <tr> <td>pipe bend 15°:</td> <td>0.10</td> </tr> <tr> <td colspan="2">Terminals: (only for operation in negative pressure)</td> </tr> <tr> <td>rain cap:</td> <td>1.0</td> </tr> <tr> <td>fin cap type „Hubo“:</td> <td>≤ Ø 140 mm 0.1/ ≥ Ø 150 mm 0.2</td> </tr> <tr> <td>wind deflector:</td> <td>≤ Ø 140 mm 0.1/ ≥ Ø 150 mm 0.2</td> </tr> <tr> <td>hurricane:</td> <td>0.1</td> </tr> </tbody> </table>	component:	ζ (Zeta-value) single resistances	pipe tee 87°:	1.14	pipe tee 45°:	0.35	pipe bend 87°:	0.40	pipe bend 45°:	0.28	pipe bend 30°:	0.20	pipe bend 15°:	0.10	Terminals: (only for operation in negative pressure)		rain cap:	1.0	fin cap type „Hubo“:	≤ Ø 140 mm 0.1/ ≥ Ø 150 mm 0.2	wind deflector:	≤ Ø 140 mm 0.1/ ≥ Ø 150 mm 0.2	hurricane:	0.1	EN 1856-1:2009
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hurricane:	0.1																										
8.5	Thermal resistance	Model 1 to 8 DN (80-1000): 0.501 m²K/W tested at 200°C	EN 1856-1:2009																								
8.6	Thermal shock resistance	<p>Model 1 DN (80-1000): No ²⁾</p> <p>Model 2 DN (80-1000): No ²⁾</p> <p>Model 3 DN (80-1000): Yes</p> <p>Model 4 DN (80-1000): No ²⁾</p> <p>Model 5 DN (80-1000): No ²⁾</p> <p>Model 6 DN (80-1000): No ²⁾</p> <p>Model 7 DN (80-1000): Yes</p> <p>Model 8 DN (80-1000): Yes</p> <p>²⁾ because designated O</p>	EN 1856-1:2009																								
8.7	Sootfire resistance																										
8.7	Thermal performance under normal operating conditions	<p>Model 1 DN (80-1000): T200</p> <p>Model 2 DN (80-1000): T200</p> <p>Model 3 DN (80-1000): T400</p> <p>Model 4 DN (80-1000): T400</p> <p>Model 5 DN (80-1000): T400</p> <p>Model 6 DN (80-1000): T450</p> <p>Model 7 DN (80-1000): T600</p> <p>Model 8 DN (80-1000): T600</p>																									
8.8	Flexural tensile strength (only for means of connection for chimney sections and fittings)	<p>Model 1 to 8 DN (80- 300): up to 16 m</p> <p>Model 1 to 8 DN (350- 450): up to 13 m</p> <p>Model 1 to 8 DN (500- 600): up to 13 m</p> <p>Model 1 to 8 DN (650-1000): n.p.d.</p>	EN 1856-1:2009																								
8.9	Non vertical installation	<p>Model 1 to 8 DN (80-1000):</p> <p>Maximum offset between supports 3 m at 90°</p> <p>(inclined run: maximum distance between two fixations, supports at non vertical installation)</p>	EN 1856-1:2009																								
8.10	Components subject to wind load	<p>Model 1 to 8 DN (80- 600):</p> <p>Free standing height 3 m above last support.</p> <p>Maximum spacing between lateral supports: 4 m.</p> <p>Model 1 to 8 DN (650-1000):</p> <p>Free standing height 1.5 m above last support.</p> <p>Maximum spacing between lateral supports: 4 m.</p>	EN 1856-1:2009																								

8. Declared performance:

	Essential Characteristics	Performance	Harmonized technical specification
8.11	Durability: Water and vapour diffusion resistance	Model 1 DN (80-1000): Yes Model 2 DN (80-1000): Yes Model 3 DN (80-1000): No Model 4 DN (80-1000): Yes Model 5 DN (80-1000): Yes Model 6 DN (80-1000): Yes Model 7 DN (80-1000): No Model 8 DN (80-1000): Yes	EN 1856-1:2009
8.12	Condensate penetration resistance	Model 1 DN (80-1000): Yes Model 2 DN (80-1000): Yes Model 3 DN (80-1000): No Model 4 DN (80-1000): Yes Model 5 DN (80-1000): Yes Model 6 DN (80-1000): Yes Model 7 DN (80-1000): No Model 8 DN (80-1000): Yes	
8.13	Against corrosion	Model 1 DN (80-1000): V2 Model 2 DN (80-1000): V2 Model 3 DN (80-1000): V3 Model 4 DN (80-1000): V2 Model 5 DN (80-1000): V2 Model 6 DN (80-1000): V2 Model 7 DN (80-1000): V3 Model 8 DN (80-1000): V2	
8.14	Freeze thaw resistance	Model 1 to 8 DN (80-1000): Yes	

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:

Wassertrüdingen, 17th June 2013



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Stefan Engelhardt, Geschäftsführer / CEO

Product information

“Chimneys - Requirements for metal chimneys – Part 1:
System chimney products” DIN EN 1856-1:2009

Manufacturer’s identification:

jeremias GmbH
Opfenrieder Str. 11-14
91717 Wassertrüdingen
 Tel.: +49 (0) 9832 / 68 68-50
 Fax: +49 (0) 9832 / 68 68-68
 Internet: www.jeremias.de
 E-Mail: info@jeremias.de

Product trade name:

DW-KL (Double wall “conical” chimney system with 32 mm heat insulation)

Certification office:

TÜV SÜD Industrie Service GmbH

Name and position of the responsible person:

Stefan Engelhardt CEO 

Identification of accompanying documentation

0.1	Metal chimney	EN 1856-1	T200	P1	W	V2-L50060	O00	80 - 1000	Double wall chimney system, moisture resistant, with 32 mm heat insulation, ventilated through the whole length, without covering. Operation mode in positive pressure up to 200 Pa.
0.2	Metal chimney	EN 1856-1	T200	H1	W	V2-L50060	O20 O30 O40 O80	80 - 300 350 - 450 500 - 600 650 - 1000	Double wall chimney system, moisture resistant, with 32 mm heat insulation, ventilated through the whole length, without covering. Operation mode in positive pressure / high pressure up to 5000 Pa.
0.3	Metal chimney	EN 1856-1	T400	N1	D	V3-L50060	G50 G75 G100 G200	80 - 300 350 - 450 500 - 600 650 - 1000	Double wall chimney system, sootfire resistant, with 32 mm heat insulation, ventilated through the whole length, without covering. Operation mode in negative pressure.
0.4	Metal chimney	EN 1856-1	T400	N1	W	V2-L50060	O20 O30 O40 O80	80 - 300 350 - 450 500 - 600 650 - 1000	Double wall chimney system, moisture resistant, with 32 mm heat insulation, ventilated through the whole length, without covering. Operation mode in negative pressure.
0.5	Metal chimney	EN 1856-1	T400	P1	W	V2-L50060	O20 O30 O40 O80	80 - 300 350 - 450 500 - 600 650 - 1000	Double wall chimney system, moisture resistant, with 32 mm heat insulation, ventilated through the whole length, without covering. Operation mode in positive pressure up to 200 Pa.
0.6	Metal chimney	EN 1856-1	T450	H1	W	V2-L50060	O50 O75 O100 O200	80 - 300 350 - 450 500 - 600 650 - 1000	Double wall chimney system, moisture resistant, with 32 mm heat insulation, ventilated through the whole length, without covering. Operation mode in positive pressure / high pressure up to 5000 Pa.
0.7	Metal chimney	EN 1856-1	T600	N1	D	V3-L50060	G50 G75 G100 G200	80 - 300 350 - 450 500 - 600 650 - 1000	Double wall chimney system, sootfire resistant, with 32 mm heat insulation, ventilated through the whole length, without covering. Operation mode in negative pressure.
0.8	Metal chimney	EN 1856-1	T600	H1	W	V2-L50060	G50 G75 G100 G200	80 - 300 350 - 450 500 - 600 650 - 1000	Double wall chimney system, moisture resistant or sootfire resistant, with 32 mm heat insulation, ventilated through the whole length, without covering. Operation mode in positive pressure / high pressure up to 5000 Pa.

Product description	
Standard number	EN 1856-1
Temperature level	T200
Pressure level	P1
Condensate resistance (W: wet / D: dry)	W
Corrosion resistance	
Flue liner material specification	V2-L50060
Sootfire resistance (G: yes / O: no) and distance to combustible material (in mm)	
Nominal diameter (Ø) (inner tube) in mm	80 - 1000

Properties of a multi-wall metal chimney system

Compressive strength:

Maximum load (see installing instructions)

Flow resistance:

Average roughness: 1.0 mm,
Zeta-values according to DIN EN 13384-1
(see installing instructions)

Thermal resistance: 0.501 m²K/W

Flexural strength:

Angular assembly:
Maximum length between two supports: 3 m at 90°

Tensile strength: See installing instructions

Wind load: free standing end above last fixation:

≤ 3 m up to Ø600 mm (see installing instructions)
≤ 1.5 m Ø650 – Ø1000mm (see installing instructions)

Maximum distance between vertical supports: 4 m

Freeze-thaw resistance: Yes

Cleaning:

The chimney system is only allowed to be cleaned with cleaning devices made of plastic or rust-resistant stainless steel.

Declaration of Performance (DOP)

No. 9174 041 DOP 2013-06-17

1. Unique identification code of the product-type:

Rigid connecting pipe type DW-KL according to EN 1856-2:2009

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

Rigid “conical” metal connecting pipe type DW-KL¹⁾

Model 1 DN (80- 600) T200 – P1 – W – V2 – L50060 – O00 M³⁾

Model 2 DN (80- 600) T200 – H1 – W – V2 – L50060 – O20 M³⁾

Model 3 DN (80- 600) T450 – H1 – W – V2 – L50060 – O50 M³⁾

Model 4 DN (80- 600) T600 – N1 – D – V3 – L50060 – G100 M³⁾

Model 5 DN (80- 600) T600 – H1 – W – V2 – L50060 – G100 M³⁾

¹⁾ Manufacturer product identification

²⁾ Not Measured (NM) means 3 times the Nominal Diameter with a minimum of 375 mm

³⁾ Measured (M)

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 chimney

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

**Jeremias GmbH**

Opfenrieder Straße 11-14

DE-91717 Wassertrüdingen

Tel.: +49 9832 68 68 0

Fax: +49 9832 68 68 68

Email: info@jeremias.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. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

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 0036 CPD 9174 041 of the factory production control

8. Declared performance:

	Essential Characteristics	Performance	Harmonized technical specification														
8.1	Compressive strength	Model 1 to 5 DN (80- 300): up to 38 m Model 1 to 5 DN (350- 450): up to 32 m Model 1 to 5 DN (500- 600): up to 21 m	EN 1856-2:2009														
8.2	Tensile strength	Model 1 to 5 DN (80- 600): n.p.d.															
8.3	Non vertical installation	Model 1 to 5: Horizontal 4 m between supports* * Please pay attention to the mounting instructions, an incline, all incline has to be arranged for where applicable.															
8.4	Resistance to fire	(Resistance to fire from inside to outside) Model 1 DN (80- 600): O00 M Model 2 DN (80- 600): O20 M Model 3 DN (80- 600): O50 M Model 4 DN (80- 600): G100 M Model 5 DN (80- 600): G100 M	EN 1856-2:2009														
8.5	Gas tightness/ leakage	Model 1 DN (80- 600): P1 Model 2 DN (80- 600): H1 Model 3 DN (80- 600): H1 Model 4 DN (80- 600): N1 Model 5 DN (80- 600): H1	EN 1856-2:2009														
8.6	Flow resistance of chimney sections and fittings	According to EN 13384-1 <table border="1" data-bbox="592 1077 1201 1337"> <thead> <tr> <th>component:</th> <th>ζ (Zeta-value) single resistances</th> </tr> </thead> <tbody> <tr> <td>pipe tee 87°:</td> <td>1.14</td> </tr> <tr> <td>pipe tee 45°:</td> <td>0.35</td> </tr> <tr> <td>pipe bend 87°:</td> <td>0.40</td> </tr> <tr> <td>pipe bend 45°:</td> <td>0.28</td> </tr> <tr> <td>pipe bend 30°:</td> <td>0.20</td> </tr> <tr> <td>pipe bend 15°:</td> <td>0.10</td> </tr> </tbody> </table>	component:	ζ (Zeta-value) single resistances	pipe tee 87°:	1.14	pipe tee 45°:	0.35	pipe bend 87°:	0.40	pipe bend 45°:	0.28	pipe bend 30°:	0.20	pipe bend 15°:	0.10	EN 1856-2:2009
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8.7	Sootfire resistance	Model 1 DN (80- 600): No ²⁾ Model 2 DN (80- 600): No ²⁾ Model 3 DN (80- 600): No ²⁾ Model 4 DN (80- 600): Yes Model 5 DN (80- 600): Yes ²⁾ because designated O	EN 1856-2:2009														
8.8	Thermal performance under normal operating conditions	Model 1 DN (80- 600): T200* Model 2 DN (80- 600): T200* Model 3 DN (80- 600): T450* Model 4 DN (80- 600): T600* Model 5 DN (80- 600): T600* *(Heating strain at nominal operating temperature)															

8. Declared performance:

	Essential Characteristics	Performance	Harmonized technical specification
8.9	Durability: Water and vapour diffusion resistance	Model 1 DN (80- 600): Yes Model 2 DN (80- 600): Yes Model 3 DN (80- 600): Yes Model 4 DN (80- 600): No Model 5 DN (80- 600): Yes	EN 1856-2:2009
8.10	Condensate penetration resistance	Model 1 DN (80- 600): Yes Model 2 DN (80- 600): Yes Model 3 DN (80- 600): Yes Model 4 DN (80- 600): No Model 5 DN (80- 600): Yes	
8.11	Against corrosion	Model 1 DN (80- 600): V2 Model 2 DN (80- 600): V2 Model 3 DN (80- 600): V2 Model 4 DN (80- 600): V3 Model 5 DN (80- 600): V2	
8.12	Freeze thaw resistance	Model 1 to 5 DN (80- 600): Yes	

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:

Wassertrüdingen, 17th June 2013



Stefan Engelhardt CEO

Product information

“Chimneys - Requirements for metal chimneys - Part 2:
Metal flue liners and connecting flue pipes” DIN EN 1856-2:2009

Manufacturer’s identification:

jeremias GmbH
Opfenrieder Str. 11-14
91717 Wassertrüdingen
 Tel.: +49 (0) 9832 / 68 68-50
 Fax: +49 (0) 9832 / 68 68-68
 Internet: www.jeremias.de
 E-Mail: info@jeremias.de

Product trade name:

DW-KL connecting pipe
 (rigid double wall “conical sealed” connecting pipe with 32 mm insulation)

Certification office:

TÜV SÜD Industrie Service GmbH

Name and position of the responsible person:

Stefan Engelhardt CEO 

Identification of accompanying documentation

Double wall rigid connecting pipe DW-KL	0.1	EN 1856-2	T200	P1	W	V2-L50060	O00 M	80 - 600	Double wall, moisture resistant connecting pipe, composed of rigid pipes and elements, ventilated along the whole length, without covering. Operation mode in positive pressure up to 200 Pa. (oil, gas).
	0.2	EN 1856-2	T200	H1	W	V2-L50060	O20 M	80 - 600	Double wall, moisture resistant connecting pipe, composed of rigid pipes and elements, ventilated along the whole length, without covering. Operation mode in high pressure up to 5000 Pa. (oil, gas).
	0.3	EN 1856-2	T450	H1	W	V2-L50060	O50 M	80 - 600	Double wall, moisture resistant connecting pipe, composed of rigid pipes and elements, ventilated along the whole length, without covering. Operation mode in high pressure up to 5000 Pa. (oil, gas).
	0.4	EN 1856-2	T600	N1	D	V3-L50060	G100 M	80 - 600	Double wall, sootfire resistant connecting pipe, composed of rigid pipes and elements, ventilated along the whole length, without covering. Operation mode in negative pressure (solid fuels).
	0.5	EN 1856-2	T600	H1	W	V2-L50060	G100 M	80 - 600	Double wall, sootfire resistant connecting piece or moisture resistant connecting pipe, composed of rigid pipes and elements, ventilated along the whole length, without covering. Operation mode in high pressure up to 5000Pa. (oil, gas or solid fuels).

Product description	
Standard number	
Temperature level	
Pressure level	
Condensate resistance (W: wet / D: dry)	
Corrosion resistance	
Flue liner material specification	
Sootfire resistance (G: yes / O: no) and distance to combustible material (in mm) without radiation protection M = tested distance NM = calculated distance	
Nominal diameter (Ø) inner tube in mm	

Rigid connecting pipe of metal

Compressive strength:

>21 m above the connections of the elements

Flexural strength:

No vertical installation:

≤ 3 m between two fixations or supports.

Maximum distance between vertical supports:

≤ 4 m between two supports

Flow resistance:

Average roughness: 1.0 mm,
Zeta-values according to DIN EN 13384-1

Thermal resistance:

0.501 m²K/W

Sootfire resistance: Yes

Freeze-thaw resistance: Yes

Cleaning:

The connecting pipe is only allowed to be cleaned with cleaning devices made of plastic or rust-resistant stainless steel.