

Declaration of Performance (DOP)

No. 9174 012 DOP 2013-06-17

1. Unique identification code of the product-type:

Single wall chimney system type EW-ALBI 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):

Single wall chimney system type EW-ALBI, installation in stack¹⁾

Model 1 DN (60- 600) T200 – P1 – W – V2 – L50060 – O00

Model 2 DN (60- 600) T200 – N1 – W – V2 – L50060 – O00

¹⁾ Manufacturer product identification EW-ALBI

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 012 of the factory production control.

8. Declared performance:

	Essential Characteristics	Performance	Harmonized technical specification																								
8.1	Compressive strength Chimney sections, fittings and supports	Sections and fittings: Model 1 to 2 DN (60- 300): up to 27 m Model 1 to 2 DN (350- 450): up to 21 m Model 1 to 2 DN (500- 600): up to 15 m Supports: n.p.d. For further information see the installation instruction EW-ALBI	EN 1856-1:2009																								
8.2	Resistance to fire	(Resistance to fire from inside to outside) Model 1 DN (60- 600): T200 – O00 Model 2 DN (60- 600): T200 – O00 Tested without cover, with back ventilated ceiling duct	EN 1856-1:2009																								
8.3	Gas tightness/ leakage	Model 1 DN (60- 600): P1 Model 2 DN (60- 600): N1	EN 1856-1:2009																								
8.4	Flow resistance of chimney sections, fittings and terminals	According to EN 13384-1 <table border="1" data-bbox="564 815 1174 1227"> <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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8.5	Thermal resistance	Model 1 to 2 DN (60- 600): 0 m²K/W without insulation optional with insulation, values see below Model 1 to 2 DN (60- 600) >0.26 m²K/W calculated for 200°C with 25 mm insulation * *The thermal resistance is dependent on the nominal diameters of inner tubes see product information and mounting instruction EW-ALBI	EN 1856-1:2009																								
8.6	Thermal shock resistance Sootfire resistance	Model 1 DN (60- 600): No ²⁾ Model 2 DN (60- 600): No ²⁾ ²⁾ Because designated O	EN 1856-1:2009																								
8.7	Thermal performance under normal operating conditions	Model 1 DN (60- 600): T200 Model 2 DN (60- 600): T200																									
8.8	Flexural tensile strength (only for means of connection for chimney sections and fittings)	Model 1 to 2 DN (60- 600): n.p.d.	EN 1856-1:2009																								
8.9	Non vertical installation	Model 1 to 2 DN (60- 600): Maximum offset between supports 4 m at 90° (inclined run, maximum distance between two fixations, supports at non vertical installation)	EN 1856-1:2009																								

8. Declared performance:

	Essential Characteristics	Performance	Harmonized technical specification
8.10	Components subject to wind load	Model 1 to 2 DN (60- 350) : Free standing height 1.5 m above last support. Model 1 to 2 DN (400- 600) : Free standing height n.p.d. above last support.	EN 1856-1:2009
8.11	Durability: Water and vapour diffusion resistance	Model 1 DN (60- 600): Yes Model 2 DN (60- 600): Yes	EN 1856-1:2009
8.12	Condensate penetration resistance	Model 1 DN (60- 600): Yes Model 2 DN (60- 600): Yes	
8.13	Against corrosion	Model 1 DN (60- 600): V2 Model 2 DN (60- 600): V2	
8.14	Freeze thaw resistance	Model 1 bis 2 DN (60- 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



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Stefan Engelhardt 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:

EW-ALBI (Single wall chimney system, installation in stack)

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	60 - 600	Single wall chimney system with inner gasket, moisture resistant, for installation in stacks / chimneys, which meet the requirements for fire protection. Construction with rear ventilation. Operation mode in positive pressure up to 200 Pa (oil, gas).
0.2	Metal chimney	EN 1856-1	T200	N1	W	V2-L50060	O00	60 - 600	Single wall chimney system, moisture resistant, for installation in stacks / chimneys, which meet the requirements for fire protection. No gasket necessary. Operation mode in negative pressure (oil, gas).

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)	O00
Nominal diameter (Ø) (inner tube) in mm	60 - 600

Properties of a single wall metal chimney system

Pressure resistance:

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 in stack

Without insulation 0 m²K/W
Optional with 25 mm insulation >0.26m²K/W

Flexural strength:

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

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 052 DOP 2013-06-17

1. Unique identification code of the product-type:

Rigid metal connecting pipe type EW-ALBI & EW-ALB according to EN 1856-2:2009

2. Type, batch or serial number or any other element allowing identification of the construction product:

Single wall connecting pipe type EW-ALBI & EW-ALB with gasket for positive pressure¹⁾

Model 1 DN (60- 600) T200 – P1 – W – V2 – L50060 – O50 M³⁾

Model 2 DN (60- 600) T200 – N1 – W – V2 – L50060 – O50 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 052 of the factory production control.

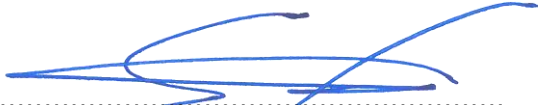
8. Declared performance:

	Essential Characteristics	Performance	Harmonized technical specification														
8.1	Compressive strength	Model 1 to 2 DN (60- 600): up to 15 m	EN 1856-2:2009														
8.2	Tensile strength	Model 1 to 2 DN (60- 600): n.p.d.															
8.3	Non vertical installation	Model 1 to 2 DN (60- 600): Horizontal 3 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	Model 1 to 2 DN (60- 600): O50 M	EN 1856-2:2009														
8.5	Gas tightness/ leakage	Model 1 DN (60- 600): P1 Model 2 DN (60- 600): N1	EN 1856-2:2009														
8.6	Flow resistance of chimney sections and fittings	According to EN 13384-1 <table border="1" data-bbox="571 719 1179 969"> <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 to 2 DN (60- 600): No ²⁾ ²⁾ because designated O	EN 1856-2:2009														
8.8	Thermal performance under normal operating conditions	Model 1 to 2 DN (60- 600): T200* *(Heating strain at nominal operating temperature)															
8.9	Durability: Water and vapour diffusion resistance	Model 1 to 2 DN (60- 600): Yes	EN 1856-2:2009														
8.10	Condensate penetration resistance	Model 1 to 2 DN (60- 600): Yes															
8.11	Against corrosion	Model 1 to 2 DN (60- 600): V2															
8.12	Freeze thaw resistance	Model 1 to 2 DN (60- 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



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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:

Firma 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:

EW-ALBI & EW-ALB Connecting pipe
(single wall connecting pipe for positive pressure with joint seals)

Certification office:

TÜV SÜD Industrie Service GmbH

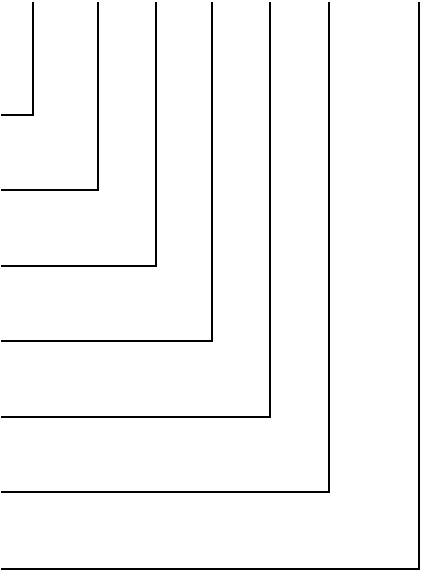
Name and position of the responsible person:

Stefan Engelhardt CEO



Identification of accompanying documentation

rigid single wall connecting pipe EW-ALBI / EW-ALB	0.1	EN 1856-2	T200	P1	W	V2-L50060	O50 M	60 - 600	Single wall, moisture resistant connecting pipe, composed of rigid pipes and elements with inner gasket (albi) or outer gasket (alb), ventilated along the whole length, without covering. Locking band necessary. Operation mode in positive pressure up to 200 Pa (oil, gas).
	0.2	EN 1856-2	T200	N1	W	V2-L50060	O50 M	60 - 600	Single wall, moisture resistant connecting pipe, composed of rigid pipes and elements, ventilated along the whole length, without covering. No gasket necessary. Locking band necessary. Operation mode in negative pressure (oil, gas).

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) M = tested distance NM = calculated distance	
Nominal diameter (Ø) inner tube in mm	

Rigid connecting pipe of metal

Compressive strength:

>10 m over the modules and the connections of the elements

Flow resistance:

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

Thermal resistance:

0 m²K/W without insulation

Flexural strength:

No vertical installation:
≤ 3 m between two brackets, supports or fixations.

Tensile strength:

n.p.d.

Maximal distance between vertical supports:

≤ 4 m

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.