Declaration of Performance (DOP)

No. 9174 012 DOP 2015-08-05

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 stack[1)]

Model 1	**DN (60- 600)**	**T120 – P1 – W – V2 – L50060 – O00** **(with EPDM gasket)**
Model 2	**DN (60- 600)**	**T120 – N1 – W – V2 – L50060 – O00** **(with EPDM gasket)**
Model 3	**DN (60- 600)**	**T200 – P1 – W – V2 – L50060 – O00** **(with silicone gasket)**
Model 4	**DN (60- 600)**	**T200 – N1 – W – V2 – L50060 – O00** **(with silicone gasket)**

   [1)] Manufacturer product identification EW-ALBI

3. Intended use or uses of the construction product, in accordance with the applicable harmonized 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 authorized 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 CPR 9174 012 of the factory production control.

8. Declared performance:

<table>
<tr><th></th><th>Essential Characteristics</th><th>Performance</th><th>Harmonized technical specification</th></tr>
<tr><td>8.1</td><td>Compressive strength

Chimney sections, fittings and supports</td><td><u>Sections and fittings:</u>
Model 1 to 4 DN (60- 300): up to 27 m
Model 1 to 4 DN (350- 450): up to 21 m
Model 1 to 4 DN (500- 600): up to 15 m
For further information see the installation instruction EW-ALBI</td><td>EN 1856-1:2009</td></tr>
<tr><td>8.2</td><td>Resistance to fire</td><td>(Resistance to fire from inside to outside)
Model 1 to 2 DN (60- 600): T120 – O00
Model 3 to 4 DN (60- 600): T200 – O00
Tested without cover, with back ventilated ceiling duct</td><td>EN 1856-1:2009</td></tr>
<tr><td>8.3</td><td>Gas tightness/ leakage</td><td>Model 1 DN (60- 600): P1
Model 2 DN (60- 600): N1
Model 3 DN (60- 600): P1
Model 4 DN (60- 600): N1</td><td>EN 1856-1:2009</td></tr>
<tr><td>8.4</td><td>Flow resistance of chimney sections, fittings and terminals</td><td>According to EN 13384-1
<table><tr><th>component:</th><th>ζ (Zeta-value)
single resistances</th></tr><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>hurrican:</td><td>0.1</td></tr></table></td><td>EN 1856-1:2009</td></tr>
<tr><td>8.5</td><td>Thermal resistance</td><td>Model 1 to 4 DN (60- 600): 0 m²K/W without insulation
optional with insulation, values see below
Model 1 to 4 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</td><td>EN 1856-1:2009</td></tr>
<tr><td>8.6

8.7</td><td>Thermal shock resistance

Sootfire resistance

Thermal performance under normal operating conditions</td><td>Model 1 to 4 DN (60- 600): No [2)]
[2)] Because designated O

Model 1 to 2 DN (60- 600): T120
Model 3 to 4 DN (60- 600): T200</td><td>EN 1856-1:2009</td></tr>
<tr><td>8.8</td><td>Flexural tensile strength

(only for means of connection for chimney sections and fittings)</td><td>Model 1 to 4 DN (60- 600): n.p.d.</td><td>EN 1856-1:2009</td></tr>
<tr><td>8.9</td><td>Non vertical installation</td><td>Model 1 to 4 DN (60- 600):
Maximum offset between supports 4 m at 90°
(inclined run: maximum distance between two fixations, supports at non vertical installation)</td><td>EN 1856-1:2009</td></tr>
</table>

8. Declared performance:

	Essential Characteristics	Performance	Harmonized technical specification
8.10	Components subject to wind load	Model 1 to 4 **DN (60- 350):** Free standing height **1.5 m** above last support. Model 1 to 4 **DN (400- 600):** Free standing height above last support **n.p.d.**	EN 1856-1:2009
	Durability:		
8.11	Water and vapour diffusion resistance	Model 1 to 4 DN (60- 600): **Yes**	
8.12	Condensate penetration resistance	Model 1 to 4 DN (60- 600): **Yes**	EN 1856-1:2009
8.13	Against corrosion	Model 1 to 4 DN (60- 600): **V2**	
8.14	Freeze thaw resistance	Model 1 to 4 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, 05th August 2015

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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

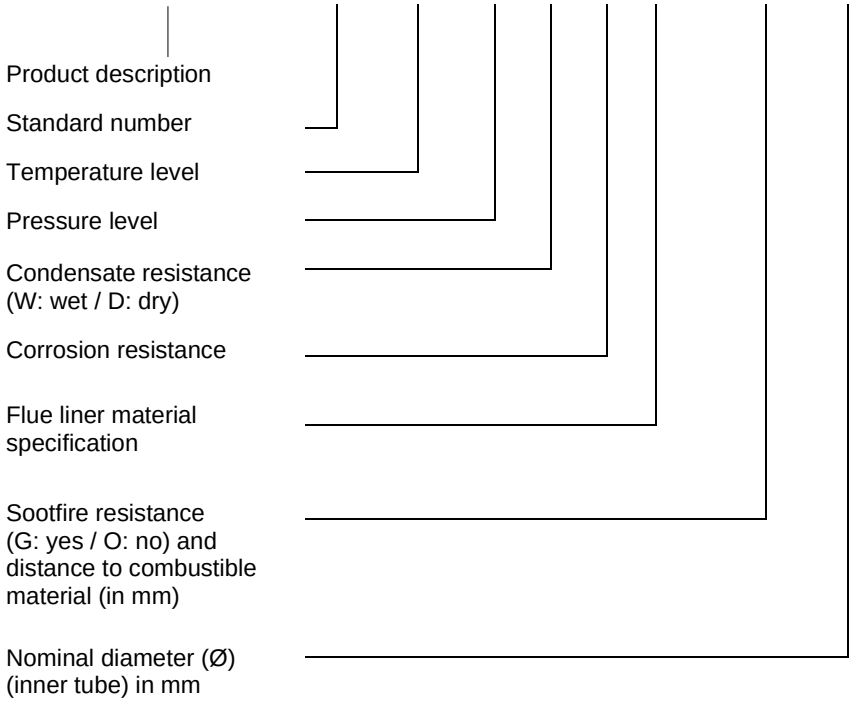
Product trade name: **EW-ALBI** (Single wall chimney system, installation in stack)

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**	**T120**	**P1**	**W**	**V2-L50060**	**O00**	**60 - 600**	Single wall chimney system, moisture resistant, **with EPDM gasket**, for installation in stacks / chimneys, which meet the requirements for fire protection. Installation with ventilated annular gap. Operation mode in positive pressure up to 200 Pa (oil, gas).
0.2	**Metal chimney**	**EN 1856-1**	**T120**	**N1**	**W**	**V2-L50060**	**O00**	**60 - 600**	Single wall chimney system, moisture resistant, **with EPDM gasket**, for installation in stacks / chimneys, which meet the requirements for fire protection. For operation mode in negative pressure (oil, gas) a gasket isn't necessary.
0.3	**Metal chimney**	**EN 1856-1**	**T200**	**P1**	**W**	**V2-L50060**	**O00**	**60 - 600**	Single wall chimney system, moisture resistant, **with silicone gasket**, for installation in stacks / chimneys, which meet the requirements for fire protection. Installation with ventilated annular gap. Operation mode in positive pressure up to 200 Pa (oil, gas).
0.4	**Metal chimney**	**EN 1856-1**	**T200**	**N1**	**W**	**V2-L50060**	**O00**	**60 - 600**	Single wall chimney system, moisture resistant, **with silicone gasket**, for installation in stacks / chimneys, which meet the requirements for fire protection. For operation mode in negative pressure (oil, gas) a gasket isn't necessary.



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 2015-08-05

1. Unique identification code of the product-type:

   Rigid metal connecting pipe type EW-ALBI 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 with gasket for positive pressure[1)]

Model 1	**DN (60- 600)**	**T120 – P1 – W – V2 – L50060 – O50 M [3)] (with EPDM gasket)**
Model 2	**DN (60- 600)**	**T120 – N1 – W – V2 – L50060 – O50 M [3)] (with EPDM gasket)**
Model 3	**DN (60- 600)**	**T200 – P1 – W – V2 – L50060 – O50 M [3)] (with silicone gasket)**
Model 4	**DN (60- 600)**	**T200 – N1 – W – V2 – L50060 – O50 M [3)] (with silicone gasket)**

   [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 harmonized 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 authorized 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 CPR 9174 052 of the factory production control.

8. Declared performance:

	Essential Characteristics	Performance	Harmonized technical specification
8.1	Compressive strength	Model 1 to 4 DN (60- 600): **up to 15 m**	EN 1856-2:2009
8.2	Tensile strength	Model 1 to 4 DN (60- 600): **n.p.d.**	
8.3	Non vertical installation	Model 1 to 4 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 4 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** Model 3 DN (60- 600): **P1** Model 4 DN (60- 600): **N1**	EN 1856-2:2009
8.6	Flow resistance of chimney sections and fittings	According to EN 13384-1 **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
8.7	Sootfire resistance	Model 1 to 4 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): **T120*** Model 3 to 4 DN (60- 600): **T200*** *(Heating strain at nominal operating temperature)	
	Durability:		EN 1856-2:2009
8.9	Water and vapour diffusion resistance	Model 1 to 4 DN (60- 600): **Yes**	
8.10	Condensate penetration resistance	Model 1 to 4 DN (60- 600): **Yes**	
8.11	Against corrosion	Model 1 to 4 DN (60- 600): **V2**	
8.12	Freeze thaw resistance	Model 1 to 4 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, 05th August 2015

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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:

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

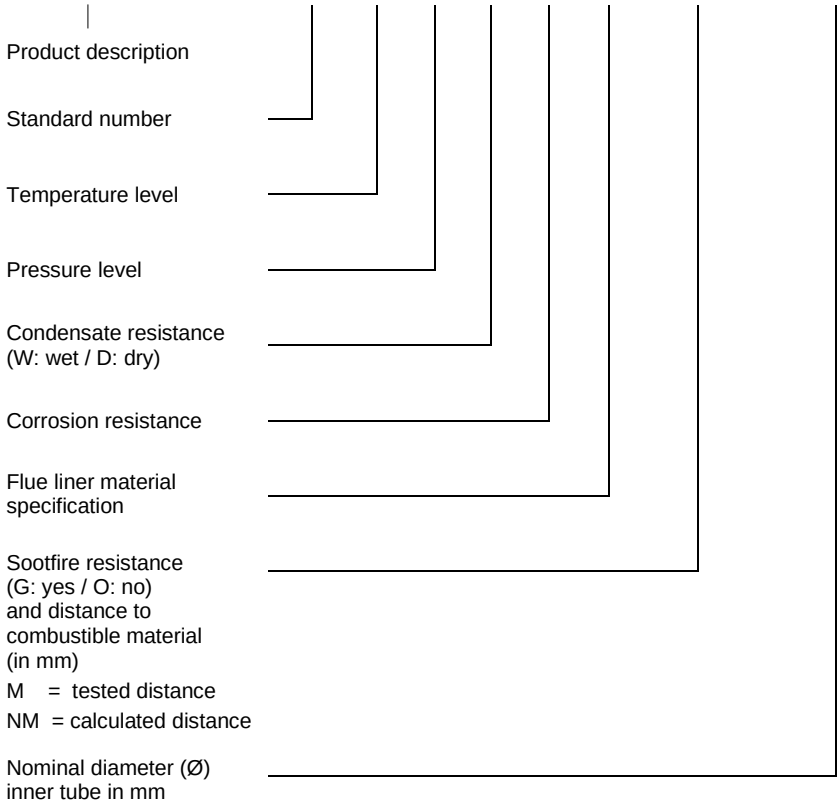
Product trade name: **EW-ALBI Connecting pipe**
(single wall connecting pipe for positive pressure with joint seals)

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	**0.1**	**EN 1856-2**	**T120**	**P1**	**W**	**V2-L50060**	**O50 M**	**60 - 600**	Single wall, moisture resistant connecting pipe, composed of rigid pipes and elements, **with EPDM gasket**, 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**	**T120**	**N1**	**W**	**V2-L50060**	**O50 M**	**60 - 600**	Single wall, moisture resistant connecting pipe, composed of rigid pipes and elements, **with EPDM gasket**, ventilated along the whole length, without covering. Locking band necessary. For operation mode in negative pressure (oil, gas) a gasket isn't necessary.
	0.3	**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 silicone gasket**, ventilated along the whole length, without covering. Locking band necessary. Operation mode in positive pressure up to 200 Pa (oil, gas).
	0.4	**EN 1856-2**	**T200**	**N1**	**W**	**V2-L50060**	**O50 M**	**60 - 600**	Single wall, moisture resistant connecting pipe, composed of rigid pipes and elements, **with silicone gasket**, ventilated along the whole length, without covering. Locking band necessary. For operation mode in negative pressure (oil, gas) a gasket isn't necessary.



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.