

# **Declaration of Performance (DOP)**

No. 9174 016 DOP 2013-06-17

1. Unique identification code of the product-type:

Single wall chimney system type EW-ALB 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-ALB, installation in stack<sup>1)</sup>

Model 1 DN (80- 600) T200 - P1 - W - V2 - L50060 - O00 Model 2 DN (80- 600) T200 - N1 - W - V2 - L50060 - O00

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 11(5):

#### not applicable

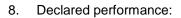
6. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:

### 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:

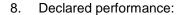
Notified factory production control certification body no. 0036 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance assessment and evaluation of factory production control and issued the certificate of conformity 0036 CPD 9174 016 of the factory production control.

<sup>1)</sup> Manufacturer product identification EW-ALB





	Essential Characteristics	Performance	Harmonized technical specification
8.1	Compressive strength Chimney sections, fittings and supports	Sections and fittings:  Model 1 to 2 DN ( 80- 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-ALB	EN 1856-1:2009
8.2	Resistance to fire	(Resistance to fire from inside to outside)  Model 1 DN (80- 600): T200 – <b>000</b> Model 2 DN (80- 600): T200 – <b>000</b> Tested without cover, with back ventilated ceiling duct.	EN 1856-1:2009
8.3	Gas tightness/ leakage	Model 1 DN (80- 600): <b>P1</b> Model 2 DN (80- 600): <b>N1</b>	EN 1856-1:2009
8.4	Flow resistance of chimney sections fittings and terminals	According to EN 13384-1  component: $\zeta$ (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": $\leq \emptyset$ 140 mm 0.1/ $\geq \emptyset$ 150 mm 0.2  wind deflector: $\leq \emptyset$ 140 mm 0.1/ $\geq \emptyset$ 150 mm 0.2  hurrican: 0.1	EN 1856-1:2009
8.5	Thermal resistance	Model 1 to 2 DN (80- 600): <b>0</b> m²K/W without insulation Model 1 to 2 DN (80- 600): <b>&gt;0,26</b> m²K/W calculated for <b>200°C</b> with <b>25</b> mm insulation*  * The calculated values of thermal resistance is dependent on the nominal diameters of inner tubes see product information and mounting instruction EW-ALB	EN 1856-1:2009
8.6	Thermal shock resistance Sootfire resistance Thermal performance under normal operating conditions	Model 1 DN (80- 600): <b>No</b> <sup>2)</sup> Model 2 DN (80- 600): <b>No</b> <sup>2)</sup> <sup>2)</sup> because designated O  Model 1 DN (80- 600): <b>T200</b> Model 2 DN (80- 600): <b>T200</b>	EN 1856-1:2009
8.8	Flexural tensile strength  (only for means of connection for chimney sections and fittings)	Model 1 to 2 DN (80- 600): <b>n.p.d.</b>	EN 1856-1:2009
8.9	Non vertical installation	Model 1 to 2 DN (80- 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





	Essential Characteristics	Performance	Harmonized technical specification
8.10	Components subject to wind load	Model 1 to 2 DN ( 80- 350): Free standing height above last support <b>1.5 m.</b> Model 1 to 2 DN (400- 600): Free standing height above last support <b>n.p.d.</b>	EN 1856-1:2009
	Durability:		
8.11	Water and vapour diffusion resistance	Model 1 DN (80- 600): <b>Yes</b> Model 2 DN (80- 600): <b>Yes</b>	
8.12	Condensate penetration resistance	Model 1 DN (80- 600): <b>Yes</b> Model 2 DN (80- 600): <b>Yes</b>	EN 1856-1:2009
8.13	Against corrosion	Model 1 DN (80- 600): <b>V2</b> Model 2 DN (80- 600): <b>V2</b>	
8.14	Freeze thaw resistance	Model 1 to 2 DN (80- 600): <b>Yes</b>	

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, 17<sup>th</sup> June 2013

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-ALB (Single wall chimney system, in stack)

TÜV SÜD Industrie Service GmbH Certification office:

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 - 600	Single wall chimney system with outer gasket, moisture resistant, for installation in stack / chimneys, which meet the requirements for fire protection. Locking band necessary. Operation mode in positive pressure up to 200 Pa (oil, gas).
0.2	Metal chimney	EN 1856-1	T200	N1	W	V2-L50060	000	80 - 600	Single wall chimney system, moisture resistant, for installation in stack / chimneys, which meet the requirements for fire protection. 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) Nominal diameter (Ø) (inner tube) in mm

Properties of a single 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 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 rustresistant stainless steel.

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