

Declaration of Performance (DOP)

No. 9174 045 DOP 2018-01-08

1. Unique identification code of the product-type:

Multi-wall metal chimney system type DW-ECO-AL 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, positive pressure chimney system type DW-ECO-AL with 25 mm heat insulation¹⁾

Model 1	DN (80- 600)	T120 - P1 - W - V2 - L50050 - O00 (with EPDM gasket)
Model 2	DN (80- 600)	T120 - N1 - W - V2 - L50050 - O00 (with EPDM gasket)
Model 3	DN (80- 600)	T200 - P1 - W - V2 - L50050 - O00 (with silicone gasket)
Model 4	DN (80- 600)	T200 - N1 - W - V2 - L50050 - O00 (with silicone gasket)
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¹⁾ Manufacturer product identification DW-ECO-AL

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):

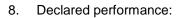
not applicable

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 045 of the factory production control.





	Essential Characteristics	Performance	Harmonized technical specification
8.1	Compressive strength Chimney sections, fittings and supports	Sections and fittings: Model 1 to 4 DN (80- 300): up to 15 m Model 1 to 4 DN (350- 450): up to 10 m Model 1 to 4 DN (500- 600): up to 10 m Supports: n.p.d. For further information see the installation instruction DW-ECO-AL	EN 1856-1:2009
8.2	Resistance to fire	(Resistance to fire from inside to outside) Model 1 to 2 DN (80- 600): T120 – 000 Model 3 to 4 DN (80- 600): T200 – 000 Tested without cover, with back ventilated ceiling duct	EN 1856-1:2009
8.3	Gas tightness/ leakage	Model 1 DN (80- 600): P1 Model 2 DN (80- 600): N1 Model 3 DN (80- 600): P1 Model 4 DN (80- 600): N1	EN 1856-1:2009
8.4	Flow resistance of chimney sections fittings and terminals	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 Terminals: (only for operation in negative pressure) rain cap: 1.0 fin cap type "Hubo": $\leq \varnothing$ 140 mm 0.1/ $\geq \varnothing$ 150 mm 0.2 wind deflector: $\leq \varnothing$ 140 mm 0.1/ $\geq \varnothing$ 150 mm 0.2 hurrican: 0.1	EN 1856-1:2009
8.5	Thermal resistance	Model 1 to 4 DN (80- 600): >0.26 m²K/W calculated for 200°C* * The thermal resistance is dependent on the nominal diameters of inner tubes see product information and mounting instruction.	EN 1856-1:2009
8.6	Thermal shock resistance Sootfire resistance Thermal performance under normal operating conditions	Model 1 to 4 DN (80- 600): No ²⁾ ²⁾ because designated O Model 1 to 2 DN (80- 600): T120 Model 3 to 4 DN (80- 600): T200	EN 1856-1:2009
8.8	Flexural tensile strength (only for means of connection for chimney sections and fittings)	Model 1 to 4 DN (80- 300): up to 9 m Model 1 to 4 DN (350- 450): n.p.d. Model 1 to 4 DN (500- 600): n.p.d.	EN 1856-1:2009
8.9	Non vertical installation	Model 1 to 4 DN (80- 600): Maximum offset between supports 3 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	Free standing height above last support: DN (80- 300): 3 m (in wall thickness 0.5 mm) DN (350- 400): 2.5 m (in wall thickness 0.5 mm) DN (450): 2.0 m (in wall thickness 0.5 mm) DN (500- 600): 1.6 m (in wall thickness 0.6 mm) Maximum spacing between lateral supports: DN (80- 600): 4 m	EN 1856-1:2009
	Durability:	,	
8.11	Water and vapour diffusion resistance	Model 1 to 4 DN (80- 600): Yes	
8.12	Condensate penetration resistance	Model 1 to 4 DN (80- 600): Yes	EN 1856-1:2009
8.13	Against corrosion	Model 1 to 4 DN (80- 600): V2	
8.14	Freeze thaw resistance	Model 1 to 4 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, 08th January 2018

Stefan Engelhardt CEO



Product information

"Chimneys - Requirements for metal chimneys – Part 1: System chimney products" 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-ECO-AL

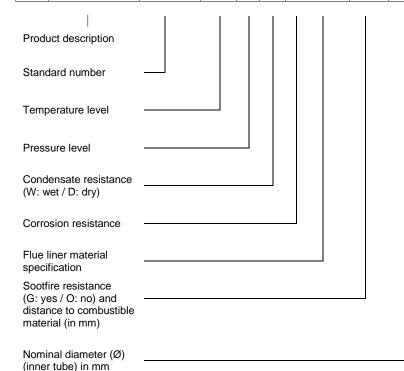
(Double wall positive pressure chimney system with 25 mm heat insulation)

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	T120	P1	w	V2-L50050	000	80 - 600	Double wall chimney system with EPDM gasket, moisture resistant, with 25 mm heat insulation, ventilated throughout the whole length, without covering. Locking band necessary. Operation mode in positive pressure up to 200 Pa.
0.2	Metal chimney	EN 1856-1	T120	N1	w	V2-L50050	000	80 - 600	Double wall chimney system with EPDM gasket, moisture resistant, with 25 mm heat insulation, ventilated throughout the whole length, without covering. Locking band necessary. For operation mode in negative pressure isn't a gasket necessary.
0.3	Metal chimney	EN 1856-1	T200	P1	w	V2-L50050	000	80 - 600	Double wall chimney system with silicone gasket, moisture resistant, with 25 mm heat insulation, ventilated throughout the whole length, without covering. Locking band necessary. Operation mode in positive pressure up to 200 Pa.
0.4	Metal chimney	EN 1856-1	T200	N1	w	V2-L50050	O00	80 - 600	Double wall chimney system with silicone gasket, moisture resistant, with 25 mm heat insulation, ventilated throughout the whole length, without covering. Locking band necessary. For operation mode in negative pressure isn't a gasket necessary.



Properties of multi-wall metal chimney system

Compressive strength:

Maximum load (see installing instructions)

Flow resistance:

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

Thermal resistance:

>0.26 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:

 $\begin{array}{ll} \leq 3 \text{ m} & \leq \varnothing 300 \text{ mm (0.5 mm wall thickness)} \\ \leq 2.5 \text{ m} & \varnothing 350 - \leq \varnothing 400 \text{ mm (0.5 mm wall thickness)} \\ \leq 2.0 \text{ m} & \leq \varnothing 450 \text{ mm (0.5 mm wall thickness)} \\ \leq 1.6 \text{ m} & \varnothing 500 - \leq \varnothing 600 \text{ mm (0.6 mm wall thickness)} \\ \end{array}$

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

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Declaration of Performance (DOP)

No. 9174 055 DOP 2015-08-05

1. Unique identification code of the product-type:

Rigid metal connecting pipe type DW-ECO-AL 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, double wall connecting pipe type DW-ECO-AL with 25 mm heat insulation¹⁾

Model 1	DN (80- 600)	T120 - P1 - W - V2 - L50050 - O00 M ³⁾ (with EPDM gasket)
Model 2	DN (80- 600)	T120 - N1 - W - V2 - L50050 - O00 M ³⁾ (with EPDM gasket)
Model 3	DN (80- 600)	T200 – P1 – W – V2 – L50050 – O00 M ³⁾ (with silicone gasket)
Model 4	DN (80- 600)	T200 - N1 - W - V2 - L50050 - O00 M ³⁾ (with silicone gasket)

^{1]} Manufacturer product identification

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):

Cremias 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 055 of the factory production control.

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

^{3]} Measured (M)



8. Declared performance:

	Essential Characteristics	Performance	Harmonized technical specification				
8.1	Compressive strength	Model 1 to 4 DN (80- 600): up to 10 m					
8.2	Tensile strength	Model 1 to 4 DN (80- 300): up to 9 m Model 1 to 4 DN (350- 600): n.p.d.	EN 1856-2:2009				
8.3	Non vertical installation	Model 1 to 4 DN (80- 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 (80- 600): O00 M	EN 1856-2:2009				
8.5	Gas tightness/ leakage	Model 1 DN (80- 600): P1 Model 2 DN (80- 600): N1 Model 3 DN (80- 600): P1 Model 4 DN (80- 600): N1	EN 1856-2:2009				
8.6	Flow resistance of	According to EN 13384-1					
	chimney sections and fittings	nney sections and (Zeta-value)					
		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 (80- 600): No ²⁾ ²⁾ because designated O					
8.8	Thermal performance under normal operating conditions	Model 1 to 2 DN (80- 600): T120* Model 3 to 4 DN (80- 600): T200* *(Heating strain at nominal operating temperature)	EN 1856-2:2009				
	Durability:						
8.9	Water and vapour diffusion resistance	Model 1 to 4 DN (80- 600): Yes					
8.10	Condensate penetration resistance	Model 1 to 4 DN (80- 600): Yes	EN 1856-2:2009				
8.11	Against corrosion	Model 1 to 4 DN (80- 600): V2					
8.12	Freeze thaw resistance	Model 1 to 4 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, 5th August 2015

Stefan Engelhardt CEO



Product information

"Chimneys - Requirements for metal chimneys - Part 2: Metal flue liners and connecting flue pipes" 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-ECO-AL Connecting pipe

(rigid, double wall connecting pipe with 25 mm insulation)

Certification office: TÜV SÜD Industrie Service GmbH

Name and position of the responsible person: Stefan Engelhardt CEO

Identification of accompanying documentation

	0.1	EN 1856-2	T120	P1	w	V2-L50050	O00 M	80 - 600	Double 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).
double wall ecting pipe -ECO-AL	0.2	EN 1856-2	T120	N1	w	V2-L50050	O00 M	80 - 600	Double 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) isn't a gasket necessary.
Rigid double connecting DW-ECO-	0.3	EN 1856-2	T200	P1	w	V2-L50050	O00 M	80 - 600	Double 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-L50050	O00 M	80 - 600	Double 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) isn't a gasket necessary.

Product de	escripti	on				
Standard r	numbe	r				
Temperatu	ire lev	el				
Pressure le	evel		 			
Condensat (W: wet / D		stance				
Corrosion	resista	nce				
Flue liner r specification		al				
Sootfire re (G: yes / O and distan- combustibl (in mm) M = teste NM = calc	o: no) ce to le mat	erial ance				
Nominal di inner tube						

Rigid connecting pipe of metal

Compressive strength:

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

Flexural strength:

No vertical installation:

≤ 3 m between two brackets, supports or fixations.

Coefficient for flow resistance:

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

Maximal distance between vertical supports:

≤ 4 m between two supports

Thermal resistance:

 $> 0.26 \text{ m}^2\text{K/W}$

Sootfire resistance:

No

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.

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