

Declaration of Performance (DOP)

No. 9174 001 DOP 2013-06-17

1. Unique identification code of the product-type:

Multi-wall chimney system type DW-FU 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 chimney system type DW-FU with 32 mm heat insulation¹⁾

Model 1	DN (80- 300) T400 – N1 – D – V3 – L50060 – G50
Model 1	DN (350- 450) T400 – N1 – D – V3 – L50060 – G75
Model 1	DN (500- 600) T400 - N1 - D - V3 - L50060 - G100
Model 1	DN (650-1000) T400 – N1 – D – V3 – L50060 – G200
Model 2	DN (80- 300) T400 – N1 – W – V2 – L50060 – O20
Model 2	DN (350- 450) T400 - N1 - W - V2 - L50060 - O30
Model 2	DN (500- 600) T400 – N1 – W – V2 – L50060 – O40
Model 2	DN (650-1000) T400 – N1 – W – V2 – L50060 – O80
Model 3	DN (80- 300) T600 – N1 – D – V3 – L50060 – G50
Model 3	DN (350- 450) T600 – N1 – D – V3 – L50060 – G75
Model 3	DN (500- 600) T600 - N1 - D - V3 - L50060 - G100
Model 3	DN (650-1000) T600 – N1 – D – V3 – L50060 – G200
Model 4	DN (80- 300) T600 – N1 – W – V2 – L50060 – O50
Model 4	DN (350- 450) T600 - N1 - W - V2 - L50060 - 075
Model 4	DN (500- 600) T600 - N1 - W - V2 - L50060 - O100
Model 4	DN (650-1000) T600 – N1 – W – V2 – L50060 – O200
¹⁾ Manufacturer pro	duct identification DW-FU

¹⁾ Manufacturer product identification DW-FU

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):



Opfenrieder Straße 11-14 DE-91717 Wassertrüdingen Phone: +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 001 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 4 DN (80- 300): up to 38 m Model 1 to 4 DN (350- 450): up to 32 m Model 1 to 4 DN (500- 600): up to 21 m Model 1 to 4 DN (650-1000): up to 9 m Supports: n.p.d For further information see the installation instruction DW-FU.	EN 1856-1:2009
8.2	Resistance to fire	(Resistance to fire from inside to outside) Model 1 DN (80- 300): T400 - G50 Model 1 DN (350- 450): T400 - G75 Model 1 DN (500- 600): T400 - G100 Model 1 DN (650-1000): T400 - G200 Model 2 DN (80- 300): T400 - O20 Model 2 DN (350- 450): T400 - O30 Model 2 DN (500- 600): T400 - O40 Model 2 DN (500- 600): T400 - O40 Model 3 DN (650-1000): T400 - O40 Model 3 DN (80- 300): T600 - G50 Model 3 DN (80- 300): T600 - G75 Model 3 DN (500- 600): T600 - G100 Model 3 DN (500- 600): T600 - G50 Model 3 DN (500- 600): T600 - G75 Model 4 DN (500- 600): T600 - O75 Model 4 DN (80- 300): T600 - O75 Model 4 DN (500- 600): T600 - O100 Model 4 DN (500- 600): T600 - O200 Tested without cover, with back ventilated ceiling duct.	EN 1856-1:2009
8.3	Gas tightness/leakage	Model 1 to 4 DN (80-1000): 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": $\leq Ø$ 140 mm 0.1/ $\geq Ø$ 150 mm 0.2 wind deflector: $\leq Ø$ 140 mm 0.1/ $\geq Ø$ 150 mm 0.2	EN 1856-1:2009
		hurrican: 0.1	
8.5	Thermal resistance	Model 1 to 4 DN (80-1000): 0.501 m²K/W tested at 200°C	EN 1856-1:2009
8.6	Thermal shock resistance Sootfire resistance	Model 1 DN (80-1000): Yes Model 2 DN (80-1000): No ²⁾ Model 3 DN (80-1000): Yes Model 4 DN (80-1000): No ²⁾ ²⁾ Because designated O	EN 1856-1:2009

8. Declared performance:



	Essential Characteristics	Performance	Harmonized technical specification
8.7	Thermal performance under normal operating conditions	Model 1 DN (80-1000): T400 Model 2 DN (80-1000): T400 Model 3 DN (80-1000): T600 Model 4 DN (80-1000): T600	
8.8	Flexural tensile strength (only for means of connection for chimney sections and fittings)	Model 1 to 4 DN (80- 300): up to 16 m Model 1 to 4 DN (350- 450): up to 13 m Model 1 to 4 DN (500- 600): up to 13 m Model 1 to 4 DN (650-1000): n.p.d.	EN 1856-1:2009
8.9	Non vertical installation	Model 1 to 4 DN (80-1000): Maximum offset between supports 3 m at 90° (inclined run: maximum distance between two fixations, supports at non vertical installation)	EN 1856-1:2009
8.10	Components subject to wind load	Model 1 to 4 DN (80- 600): Free standing height 3 m above last support. Maximum spacing between lateral supports: 4 m . Model 1 to 4 DN (650-1000): Free standing height 1.5 m above last support. Maximum spacing between lateral supports: 4 m .	EN 1856-1:2009
	Durability:		
8.11	Water and vapour diffusion resistance	Model 1 DN (80-1000): No Model 2 DN (80-1000): Yes Model 3 DN (80-1000): No Model 4 DN (80-1000): Yes	
8.12	Condensate penetration resistance	Model 1 DN (80-1000): No Model 2 DN (80-1000): Yes Model 3 DN (80-1000): No Model 4 DN (80-1000): Yes	EN 1856-1:2009
8.13	Against corrosion	Model 1 DN (80-1000): V3 Model 2 DN (80-1000): V2 Model 3 DN (80-1000): V3 Model 4 DN (80-1000): V2	
8.14	Freeze thaw resistance	Model 1 to 4 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

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	
	Phone.: +49 (0) 9832 / 68 68-50	
	Fax: +49 (0) 9832 / 68 68-68	
	Internet: www.jeremias.de	
	Email: info@jeremias.de	

Product trade name:

DW-FU (Double wall chimney system with 32 mm heat insulation)

Certification office:

TÜV SÜD Industrie Service GmbH Stefan Engelhardt CEO

Name and position of the responsible person:

Identification of accompanying documentation

0.1	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 throughout the whole length, without covering. Operation mode in negative pressure.
0.2	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 throughout the whole length, without covering. Operation mode in negative pressure.
0.3	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 throughout the whole length, without covering. Operation mode in negative pressure.
0.4	Metal chimney	EN 1856-1	T600	N1	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 throughout the whole length, without covering. Operation mode in negative pressure.
Produ	ct description								Properties of a multi-wall metal chimney system
	· · · · · · · ·								ompressive strength:
Standa	ard number	Maximum load (see installing instructions)							· · · · · ·
									ow resistance:
Tempe	Temperature level Average roughness: 1.0 mm, Zeta-values according to DIN EN 13384-1 (see installing instructions)				ta-values according to DIN EN 13384-1				
Pross	ure level							Th	ermal resistance: 0.501 m²K/W
110000								<u>Fle</u>	exural strength:
	ensate resistance et / D: dry)								igular assembly: aximum length between two supports: 3 m at 90°
	.,							Te	nsile strength:
Corros	sion resistance							Se	e installing instructions
Flue li specifi	ner material cation							≤ 3	ind load: free standing end above last fixation: 3 m up to Ø600 mm (see installing instructions) 1.5 m Ø650 – Ø1000mm (see installing instructions)
	re resistance s / O: no) and								aximum distance between vertical supports: 4 m
	ce to combustible al (in mm)								eeze-thaw resistance: Yes
	al diameter (Ø)							Cl	eaning:
(inner	tube) in mm								e chimney system is only allowed to be cleaned th cleaning devices made of plastic or

rust-resistant stainless steel.



Declaration of Performance (DOP) No. 9174 047 DOP 2013-06-17 1. Unique identification code of the product-type: Double wall connecting pipe type DW-FU 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-FU with 32 mm heat insulation¹⁾ DN (80- 600) T450 – N1 – W – V2 – L50060 – O50M³⁾ Model 1 DN (80- 600) T600 - N1 - D - V3 - L50060 - G100M³⁾ Model 2 Model 3 DN (80- 600) T600 – N1 – W – V2 – L50060 – O100M³⁾ ^{1]} Manufacturer product identification DW-FU connecting pipe ²¹ 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): eremias 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 047 of the factory production control.

8. Declared performance:



	Essential Characteristics	Performance	Harmonized technical specification
8.1	Compressive strength	Model 1 to 3 DN (80- 600): up to 9 m	
8.2	Tensile strength	Model 1 to 3 DN (80- 600): up to 13 m	EN 1856-2:2009
8.3	Non vertical installation	Model 1 to 3 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.	LN 1050-2.2009
8.4	Resistance to fire	Model 1 DN (80- 600): O50 M Model 2 DN (80- 600): G100 M Model 3 DN (80- 600): O100 M	EN 1856-2:2009
8.5	Gas tightness/ leakage	Model 1 to 3 DN (80- 600): N1	EN 1856-2:2009
8.6	Flow resistance of chimney	According to EN 13384-1	
	sections and fittings	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 8.8	Sootfire resistance Thermal performance under normal operating conditions	Model 1 DN (80- 600): No ²⁾ Model 2 DN (80- 600): Yes Model 3 DN (80- 600): No ²⁾ ²⁾ because designated O Model 1 DN (80- 600): T450 * Model 2 DN (80- 600): T600 *	EN 1856-2:2009
		Model 3 DN (80- 600): T600 * *(Heating strain at nominal operating temperature)	
8.9	Durability: Water and vapour diffusion resistance	Model 1 DN (80- 600): Yes Model 2 DN (80- 600): No Model 3 DN (80- 600): Yes	
8.10	Condensate penetration resistance	Model 1 DN (80- 600): Yes Model 2 DN (80- 600): No Model 3 DN (80- 600): Yes	EN 1856-2:2009
8.11	Against corrosion	Model 1 DN (80- 600): V2 Model 2 DN (80- 600): V3 Model 3 DN (80- 600): V2	
8.12	Freeze thaw resistance	Model 1 to 3 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-FU Connecting pipe

TÜV SÜD Industrie Service GmbH

(rigid connecting pipe, double wall with 32 mm insulation)

Certification office:

Name and position of the responsible person: Identification of accompanying documentation Stefan Engelhardt CEO

Rigid double wall connecting pipe DW-FU	0.1	EN 1856-2 EN 1856-2	T450 T600	N1	W	V2-L50060 V3-L50060	O50 M G100 M	80 - 600 80 - 600	Double wall moisture resistant connecting pipe composed of rigid pipes and elements, ventilated along the whole length, without covering. Operation mode in negative pressure (oil, gas). Double wall sootfire resistant connecting pipe composed of rigid pipes and elements, ventilated
ole wall DW									along the whole length, without covering. Operation mode in negative pressure (solid fuels).
Rigid douk	0.3	EN 1856-2	Т600	N1	w	V2-L50060	O100 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 negative pressure (oil, gas).
		1	ĺ						Rigid connecting pipe of metal
Product de	escripti	on							<u>Compressive strength:</u> >21 m over the connections of the elements
Standard number					Flexural strength:				
Temperature level							No vertical installation: ≤ 3 m between two fixations or supports.		
Pressure level							Maximal distance between vertical supports:		
Condensa		stance —							≤ 4 m between two fixations
(W: wet / I	D: dry)								Coefficient for flow resistance: Average roughness: 1.0 mm,
Corrosion	resista	ince							Zeta-values according to EN 13384-1
Flue liner		al ——							Thermal resistance:
specificati	on								0.501 m²K/W
Sootfire re	esistanc	ce							Sootfire resistance:
(G: yes / C	,								Yes
distance to combustible material (in mm)								Freeze-thaw resistance:	
M = tested distance NM = calculated distance								Yes	
NVI = Calc	ulated	aistance							<u>Cleaning:</u>
Nominal diameter (Ø)								The connecting pipe is only allowed to be cleaned with cleaning devices made of plastic or rust- resistant stainless steel.	