

Declaration of Performance (DOP)

No. 9174 078 DOP 2016-09-16

1. Unique identification code of the product-type:

Multi-wall chimney system type TWIN-GAS 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):

**Multi-wall chimney system type TWIN-G
with ventilated annular gap and stainless steel outer tube incl. gasket ¹⁾
Model 1 TWIN-G DN (100- 150) T600 – N1 – W – V2 – L50040 – O50**

¹⁾ TWIN-G is a concentric system chimney with an annular gap for combustion air supply

**Multi-wall chimney system type Fumo-LUX TWG
with ventilated annular clearance in a mineral shaft
Model 2 FUMO-LUX-TWG DN (100- 150) T600 – N1 – W – V2 – L50040 – O50 ³⁾**

³⁾ FUMO-LUX-TWG is a concentric system chimney with annular gap for combustion air supply in a mineral shaft type FUMO-LUX

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 decorative gas 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 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 078 of the factory production control.

8. Declared performance:

	Essential Characteristics	Performance	Harmonized technical specification														
8.1	Compressive strength Chimney sections, fittings and supports	<u>Sections and fittings:</u> Model 1 DN (100- 150)*: up to 25 m ¹⁾ Model 2 DN (100- 150)*: up to 25 m ¹⁾ *nominal diameter inner tube ¹⁾ dependent on function bigger heights are possible <u>Supports:</u> n.p.d. For further information see the installation instruction TWIN-GAS	EN 1856-1:2009														
8.2	Resistance to fire	(Resistance to fire from inside to outside) Model 1 DN (100- 150)*: T600 – O50 ¹⁾ Model 2 DN (100- 150)*: T600 – O50 ²⁾ *nominal diameter inner tube ¹⁾ Tested without cover, with back ventilated ceiling ducts ²⁾ Tested with lightweight construction without additional cladding between the floor ceilings. No gaps between the ceiling feedthrough and ceiling.	EN 1856-1:2009														
8.3	Gas tightness/ leakage	Model 1 to 2 DN (100- 150): N1	EN 1856-1:2009														
8.4	Flow resistance of chimney sections, fittings	According to EN 13384-1 <table border="1" data-bbox="564 922 1174 1182"> <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 1856-1:2009
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8.5	Thermal resistance	Model 1 to 2 DN (100- 150): 0 m²K/W	EN 1856-1:2009														
8.6	Thermal shock resistance Sootfire resistance	Model 1 to 2 DN (100- 150): No ²⁾ ²⁾ because designated O	EN 1856-1:2009														
8.7	Thermal performance under normal operating conditions	Model 1 to 2 DN (100- 150): T600															
8.8	Flexural tensile strength (only for means of connection for chimney sections and fittings)	Tensile strength: Model 1 DN (100- 150): up to 6 m Model 2 DN (100- 150): n.p.d.	EN 1856-1:2009														
8.9	Non vertical installation	Model 1 to 2 DN (100- 150): 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 DN (100- 150): Free standing height 3 m above last support. Maximum spacing between lateral supports 4 m . Model 2 DN (100- 150): Free standing height 2 m above last support. Maximum spacing between lateral supports 3 m .	EN 1856-1:2009														

8. Declared performance:

	Essential Characteristics	Performance	Harmonized technical specification
8.11	Durability: Water and vapour diffusion resistance	Model 1 to 2 DN (100- 150): Yes	EN 1856-1:2009
8.12	Condensate penetration resistance	Model 1 to 2 DN (100- 150): Yes	
8.13	Against corrosion	Model 1 to 2 DN (100- 150): V2	
8.14	Freeze thaw resistance	Model 1 to 2 DN (100- 150): 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, 16th September 2016



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Stefan Engelhardt CEO

Other characteristics:

Resistance to fire from outside to outside:
Model 2 with shaft FUMO-LUX: 90 minutes (L_A90) according to DIN V 18160-60:2014-02

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:

TWIN-GAS (Multi-wall chimney system with ventilated annular gap and stainless steel outer tube)

Certification office:

TÜV SÜD Industrie Service GmbH

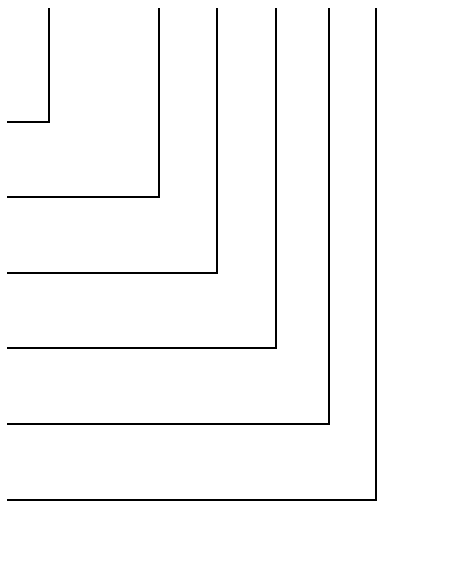
Name and position of the responsible person:

Stefan Engelhardt CEO



Identification of accompanying documentation

0.1	metal-system chimney Model TWIN-G	EN 1856-1	T600	N1	W	V2-L50040	O50	TWIN-G is a multi-wall chimney system, concentric model with gasket in outer shell, moisture resistant, without insulation, with ventilated annular gap and stainless steel outer tube. Ventilated throughout the whole length, without covering. Locking band necessary. Operation mode in negative pressure.
0.2	metal-system chimney Model FUMO-LUX-TWG	EN 1856-1	T600	N1	W	V2-L50040	O50	FUMO-LUX-TWG is a concentric chimney system with annular gap for combustion air supply in a mineral shaft type FUMO-LUX. Ventilated or closed/ insulated ceiling duct, ventilated between ceilings. Operation mode in negative pressure.

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)	

Properties of a multi-wall metal chimney system

Compressive strength:

Maximum load (see installation instructions)

Flow resistance:

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

Thermal resistance:

0 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:

≤ 3 m

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 steel.

Declaration of Performance (DOP)

No. 9174 090 DOP 2016-09-16

1. Unique identification code of the product-type:

Concentric connection pipe type TWIN-GAS 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):

**Concentric connection pipe type TWIN-GAS
with ventilated annular gap and stainless steel outer tube incl. gasket ¹⁾
Model 1 DN (100- 150) T600 – N1 – W – V2 – L50040 – O100M ³⁾**

¹⁾ Manufacturer product identification TWIN-GAS connecting pipe

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 decorative gas 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 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 090 of the factory production control.

8. Declared performance:

	Essential Characteristics	Performance	Harmonized technical specification
8.1	Compressive strength	Model 1 DN (100- 150): 25 m	EN 1856-2:2009
8.2	Tensile strength	Model 1 DN (100- 150): <6m	
8.3	Non vertical installation	Model 1 DN (100- 150): Horizontal 3 m between supports	
8.4	Resistance to fire	Model 1 DN (100- 150): O100M	EN 1856-2:2009
8.5	Gas tightness/ leakage	Model 1 DN (100- 150): N1	EN 1856-2:2009
8.6	Flow resistance of chimney sections and fittings	According to EN 13384-1	EN 1856-2:2009
8.7	Sootfire resistance	Model 1 DN (100- 150): No ²⁾ ²⁾ because designated O	EN 1856-2:2009
8.8	Thermal performance under normal operating conditions	Model 1 DN (100- 150): T600* *(Heating strain at nominal operating temperature)	
8.9	Durability: Water and vapour diffusion resistance	Model 1 DN (100- 150): Yes	EN 1856-2:2009
8.10	Condensate penetration resistance	Model 1 DN (100- 150): Yes	
8.11	Against corrosion	Model 1 DN (100- 150): V2	
8.12	Freeze thaw resistance	Model 1 DN (100- 150): 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, 16th September 2016



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:

TWIN-GAS connecting pipe (multi-wall rigid connecting pipe with ventilated annular gap and stainless steel outer tube)

Certification office:

TÜV SÜD Industrie Service GmbH

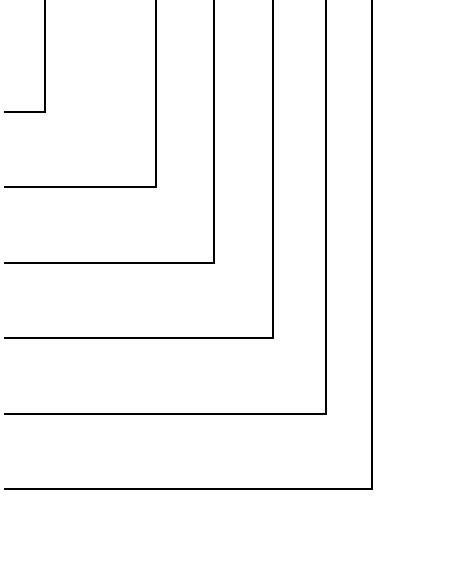
Name and position of the responsible person:

Stefan Engelhardt CEO



Identification of accompanying documentation

0.1	Concentric connection pipe	EN 1856-2	T600	N1	W	V2-L50040	O100	TWIN-GAS is a multi-wall, moisture resistant, concentric connection pipe with gasket in outer tube, without insulation, with ventilated annular gap and stainless steel outer tube. Locking band necessary. Operation mode in negative pressure.
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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)	

Rigid connecting pipe of metal

Compressive strength:

min. 25m

Flexural strength:

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

Maximal distance between vertical supports:

≤ 4 m between two fixations

Coefficient for flow resistance:

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

Thermal resistance:

0 m²K/W

Tensile strength:

<6m

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.