Declaration of Performance

No. 9174 065 DOP 2016-07-20

1. Unique identification code of the product-type:

Multi-wall chimney system type TWIN-BIOMASS 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-BIOMASS
with ventilated annular gap and stainless steel outer tube [1)]

Model 1	**DN (60- 100)**	**T200 – P1 – W – V2 – L50040 – O00**
Model 2	**DN (60- 100)**	**T200 – N1 – W – V2 – L50040 – O00**
Model 3	**DN (80- 150)**	**T450 – N1 – W – V2 – L50040 – G100**
Model 4	**DN (80- 150)**	**T450 – N1 – W – V2 – L50040 – O50**
Model 5	**DN (80- 150)**	**T600 – N1 – W – V2 – L50040 – G100**
Model 6	**DN (80- 150)**	**T600 – N1 – W – V2 – L50040 – O50**

[1)] Manufacturer product identification TWIN-BIOMASS

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 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 065 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 2 DN (60- 100)*: **up to 20 m** Model 3 to 6 DN (80- 150)*: **up to 20 m** * nominal diameter inner tube Stützen: n.p.d. For further information see the installation instruction TWIN-BIOMASS.	EN 1856-1:2009
8.2	Resistance to fire	(Resistance to fire from inside to outside) Model 1 DN (60- 100): T200 – **O00** Model 2 DN (60- 100): T200 – **O00** Model 3 DN (80- 150): T450 – **G100** Model 4 DN (80- 150): T450 – **O50** Model 5 DN (80- 150): T600 – **G100** Model 6 DN (80- 150): T600 – **O50** Tested without cover, with back ventillated ceiling duct.	EN 1856-1:2009
8.3	Gas tightness/leakage	Model 1 DN (60- 100): **P1** Model 2 DN (60- 100): **N1** Model 3 to 6 DN (80- 150): **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“: ≤ Ø 140 mm 0.1/ ≥ Ø 150 mm 0.2 wind deflector: ≤ Ø 140 mm 0.1/ ≥ Ø 150 mm 0.2 hurrican: 0.1	EN 1856-1:2009
8.5	Thermal resistance	Model 1 to 2 DN (60- 100): **0 m²K/W** (with 30 mm back ventilation) Model 3 to 6 DN (80- 150): **0 m²K/W** (with 25 mm back ventilation)	EN 1856-1:2009
8.6	Thermal shock resistance Sootfire resistance	Model 1 DN (60- 100): **No** [2)] Model 2 DN (60- 100): **No** [2)] Model 3 DN (80- 150): **Yes** Model 4 DN (80- 150): **No** [2)] Model 5 DN (80- 150): **Yes** Model 6 DN (80- 150): **No** [2)] [2)] Because designated O	EN 1856-1:2009
8.7	Thermal performance under normal operating conditions	Model 1 to 2 DN (60- 100): **T200** Model 3 to 4 DN (80- 150): **T450** Model 5 to 6 DN (80- 150): **T600**	
8.8	Flexural tensile strength (only for means of connection for chimney sections and fittings)	Model 1 to 2 DN (60- 100): **n.p.d.** Model 3 to 6 DN (80- 150): **n.p.d.**	EN 1856-1:2009

8. Declared performance:

	Essential Characteristics	Performance	Harmonized technical specification
8.9	Non vertical installation	Model 1 to 2 DN (60- 100): Maximum offset between supports **3 m at 90°** Modell 3 to 6 DN (80- 150): Maximum offset between supports **3 m at 90°** Declined run 2 x 45° with LE500 (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 2 DN (60- 100): Free standing height **1.5 m** above last support. Maximum spacing between lateral supports: **4 m** Model 3 to 6 DN (80- 150): Free standing height **1.5 m** above last support. Maximum spacing between lateral supports: **4 m**	EN 1856-1:2009
	Durability:		EN 1856-1:2009
8.11	Water and vapour diffusion resistance	Model 1 DN (60- 100): **Yes** Model 2 DN (60- 100): **Yes** Model 3 DN (80- 150): **Yes** Model 4 DN (80- 150): **Yes** Model 5 DN (80- 150): **Yes** Model 6 DN (80- 150): **Yes**	
8.12	Condensate penetration resistance	Model 1 DN (60- 100): **Yes** Model 2 DN (60- 100): **Yes** Model 3 DN (80- 150): **Yes** Model 4 DN (80- 150): **Yes** Model 5 DN (80- 150): **Yes** Model 6 DN (80- 150): **Yes**	
8.13	Korrosionsbeständigkeit	Model 1 to 2 DN (60- 100): **V2** Model 3 to 6 DN (80- 150): **V2**	
8.14	Freeze thaw resistance	Model 1 to 2 DN (60- 100): **Yes** Model 3 to 6 DN (80- 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, 20th July 2014

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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
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: **TWIN-BIOMASS**

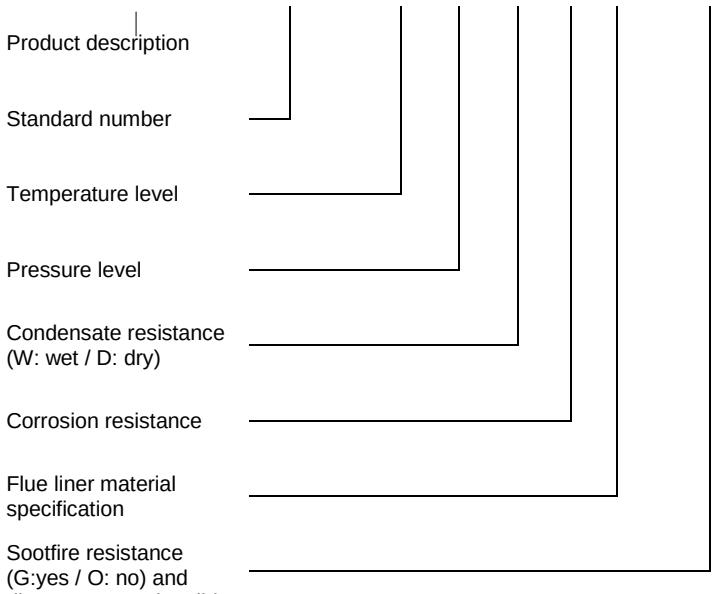
(Double wall chimney system with ventilated annular gap and stainless steel outer tube)

Certification office: TÜV SÜD Industrie Service GmbH

Name and position of the responsible person: **Stefan Engelhardt** CEO

Identification of accompanying documentation

0.1	**Metal chimney**	**EN 1856-1**	**T200**	**P1**	**W**	**V2-L50040**	**O00**	Multi-wall chimney system, concentric model with gasket, moisture resistant, without heat insulation, with O-ring and SS outer wall. Locking band necessary. Operation mode in positive pressure up to 200 Pa.
0.2	**Metal chimney**	**EN 1856-1**	**T200**	**N1**	**W**	**V2-L50040**	**O00**	Multi-wall chimney system, concentric model, moisture resistant, without heat insulation, with O-ring and SS outer wall. No gasket necessary. Locking band necessary. Operation mode in negative pressure.
0.3	**Metal chimney**	**EN 1856-1**	**T450**	**N1**	**W**	**V2-L50040**	**G100**	Multi-wall chimney system, concentric model, sootfire resistant or moisture resistant, without heat insulation, with O-ring and SS outer wall. Ventilated throughout the whole length, without covering. No gasket necessary. Locking band necessary. Operation mode in negative pressure.
0.4	**Metal chimney**	**EN 1856-1**	**T450**	**N1**	**W**	**V2-L50040**	**O50**	Multi-wall chimney system, concentric model, moisture resistant, without heat insulation, with O-ring and SS outer wall. Ventilated throughout the whole length, without covering. No gasket necessary. Locking band necessary. Operation mode in negative pressure.
0.5	**Metal chimney**	**EN 1856-1**	**T600**	**N1**	**W**	**V2-L50040**	**G100**	Multi-wall chimney system, concentric model, sootfire resistant or moisture resistant, without heat insulation, with O-ring and SS outer wall. Ventilated throughout the whole length, without covering. No gasket necessary. Locking band necessary. Operation mode in negative pressure.
0.6	**Metal chimney**	**EN 1856-1**	**T600**	**N1**	**W**	**V2-L50040**	**O50**	Multi-wall chimney system, concentric model, moisture resistant, without heat insulation, with O-ring and SS outer wall. Ventilated throughout the whole length, without covering. No gasket necessary. Locking band necessary. Operation mode in negative pressure.



Properties of a multi-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: 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: ≤ 1.5 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.