

Declaration of Performance

No. 9174 096 DOP 2016-11-30

1. Unique identification code of the product-type:

Multi-wall chimney system type SET-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):

**Double wall chimney system type SET-BIOMASS
with 25 mm heat insulation and additional outer tube ¹⁾**

Model 1 DN (80- 200) T450 – N1 – W – V2 – L50040 – G50

¹⁾ Manufacturer product identification SET-BIOMASS

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification as foreseen by the manufacturer:

Removal of combustion products 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 certification body for the factory production control no. 0036 performed the initial inspection of the manufacturing plant and of factory production control as well as continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity 0036 CPR 9174 096 for the factory production control.

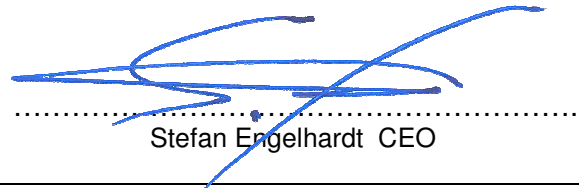
8. Declared performance:

	Essential Characteristics	Performance	Harmonized technical specification														
8.1	Compressive strength Chimney sections, fittings and supports	<u>Sections and fittings:</u> Model 1 DN (80- 200): up to 15 m <u>Stützen:</u> n.p.d. For further information see the installation instruction SET-BIOMASS.	EN 1856-1:2009														
8.2	Resistance to fire	(Resistance to fire from inside to outside) Model 1 DN (80- 200): T450 – G50 Tested without cover, with back ventilated ceiling duct.	EN 1856-1:2009														
8.3	Gas tightness/leakage	Model 1 DN (80- 200): N1	EN 1856-1:2009														
8.4	Flow resistance of chimney sections, fittings and terminals	According to EN 13384-1 <table border="1" data-bbox="564 757 1206 1016"> <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 DN (80- 200): >0,26 m²K/W measured at 200 °C	EN 1856-1:2009														
8.6	Thermal shock resistance Sootfire resistance	Model 1 DN (80- 200): Yes ²⁾ ²⁾ Because designated G	EN 1856-1:2009														
8.7	Thermal performance under normal operating conditions	Model 1 DN (80- 200): T450															
8.8	Flexural tensile strength (only for means of connection for chimney sections and fittings)	Model 1 DN (80- 200): n.p.d.	EN 1856-1:2009														
8.9	Non vertical installation	Model 1 DN (80- 200): Maximum offset between supports n.p.d. (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 (80- 200): Free standing height n.p.d. above last support. Maximum spacing between lateral supports: n.p.d.	EN 1856-1:2009														
8.11	Durability: Water and vapour diffusion resistance	Model 1 DN (80- 200): Yes	EN 1856-1:2009														
8.12	Condensate penetration resistance	Model 1 DN (80- 200): Yes															
8.13	Against corrosion	Model 1 DN (80- 200): V2															
8.14	Freeze thaw resistance	Model 1 DN (80- 200): 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, 30th November 2016



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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:

SET-BIOMASS
 (Double wall chimney system with 25 mm heat insulation and additional 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	T450	N1	W	V2-L50040	G50	80- 200	Sootfire resistant, multilayer exhaust system, double wall design of inner shell with 25 mm insulation, additional outer shell with air drain, ventilated throughout whole length, without covering. Operation 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)									
Nominal diameter (Ø) (inner tube) in mm									

Properties of a multi-wall metal chimney system

Compressive strength:

Maximum load ≤ 15 m

Flow resistance:

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

Terminals:

n.p.d.

Thermal resistance:

> 0,26 m²K/W

Bending strength:

only vertical installation

Tensile strength:

n.p.d.

Wind load: free standing end above last fixation:

n.p.d.

Maximum distance between vertical supports:

n.p.d.

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.