Declaration of Performance (DOP)

No. 9174 043 DOP 2013-06-17

1. Unique identification code of the product-type:

Chimney systems with rigid or flexible inner liner and formed parts made of polypropylene plastics acc. EN 14471:2013 type jeremias-PP

2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):

Chimney system with rigid or flexible plastic inner pipes type jeremias-PP[1)]

Model 1 ew-pp-starr	**< DN200**	**T120 – H1 – O – W – 2 – O20 – I – E – L**
	≥ DN200	**T120 – P1 – O – W – 2 – O20 – I – E – L**
Model 2 twin-p	**< DN200**	**T120 – H1 – O – W – 2 – O00 – E - E – L0**
	≥ DN200	**T120 – P1 – O – W – 2 – O00 – E - E – L0**
Model 3 twin-pl	**< DN200**	**T120 – H1 – O – W – 2 – O00 – I – E – L0**
	≥ DN200	**T120 – P1 – O – W – 2 – O00 – I – E – L0**
Model 4 ew-pp-flex	**DN60 - ≤DN110**	**T120 – H1 – O – W – 2 – O00 – I – E – L0**
	> DN110 - DN160	**T120 – P1 – O – W – 2 – O00 – I – E – L0**

[1)] Manufacturer product identification jeremias-PP

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 he 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 3

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 043 of the factory production control.

8. Declared performance:

	Essential Characteristics	Performance	Harmonized technical specification
8.1	Compressive strength (max. installation height without intermediate support)	Sections and fittings: Model 1 to 4: **30 m**	EN 14471
8.2	Components subject to wind load (maximum spacing between lateral supports)	Model 1 ew-pp-starr DN (60 – 250): **n.p.d.** Model 2 twin-p DN (60 – 250): **≤ 3 m** Model 3 twin-pl DN (60 – 110): **n.p.d.** Model 4 ew-pp-flex DN (60 – 160): **n.p.d.**	EN 14471
8.3	Components subject to wind load (free standing height above last support)	Model 1 ew-pp-starr DN (60 – 250): **n.p.d.** Model 2 twin-p DN (60 – 250): **≤ 4 m** Model 3 twin-pl DN (60 – 110): **n.p.d.** Model 4 ew-pp-flex DN (60 – 160): **n.p.d.**	EN 14471
8.4	Fire prevention (Temperature level, distance from outer surface to combustible materials, class of outer wall)	Model 1 ew-pp-starr DN (60 – 250): **T120 – O20 – L** Model 2 twin-p DN (60 – 250): **T120 – O00 – L0** [1)] Model 3 twin-pl DN (60 – 110): **T120 – O00 – L0** [1)2)] Model 4 ew-pp-flex DN (60 – 160): **T120 – O00 – L0** [2)] Installed in metal tubes [1)] or non-combustible duct [2)] with permanent ventilation. The distances do not apply for wall, ceiling or roof penetrations. Please consider the respective federal firing regulations (MFeuVo and FeuVo).	EN 14471
8.5	Gas tightness / leakage (Pressure level)	Model 1 ew-pp-starr DN (60 – <200): **H1** Model 1 ew-pp-starr DN (≥200 – 250): **P1** Model 2 twin-p DN (60 – <200): **H1** Model 2 twin-p DN (≥200 – 250): **P1** Model 3 twin-pl DN (60 – <200): **H1** Model 3 twin-pl DN (≥200 – 250): **P1** Model 4 ew-pp-flex DN (60 – ≤110): **H1** Model 4 ew-pp-flex DN (>110 – 160): **P1**	EN 14471
8.6	Thermal performance (Temperature level)	Model 1 to 4: **T 120**	EN 14471
8.7	Dimensions in mm	Model 1 ew-pp-starr: **60; 80; 100; 110; 125; 160; 200; 250** Model 2 twin-p: **60/100; 80/125; 100/150; 110/160; 125/190; 160/230; 200/265; 250/315** Model 3 twin-pl: **60/100; 80/125; 100/150; 110/160** Model 4 ew-pp-flex: **60; 80; 100; 110; 125; 160**	EN 14471
8.8	Thermal resistance m²K/W	Model 1 to 4: **R 00**	EN 14471
8.9	Flow resistance of chimney sections (*r* = average roughness of inner liner)	Model 1 to 3: ***r* = 1,0 mm** Model 4: ***r* = 3,0 mm**	EN 13384.1
8.10	Flow resistance of chimney fittings (*ζ* = resistance coefficient)	*ζ* –values according to table B8 of EN 13384-1	EN 13384.1

8. Declared performance:

	Essential Characteristics	Performance	Harmonized technical specification
8.11	Flexural tensile strength (real length of lateral deflection)	Model 1 to 4: **1.500 mm**	EN 14471
8.12	Flexural tensile strength (max. inclination)	Model 1 to 3: **87°** Model 4: **0° - 45°**	EN 14471
8.13	Condensate resistance	Model 1 to 4: **W**	EN 14471
8.14	Corrosion resistance	Model 1 to 4: **2**	EN 14471
8.15	UV-resistance (installation class)	Model 1 to 4: **I**	EN 14471
8.16	Thermal resistance	Model 1 to 4: **T120** Also suitable for block heating stations if an exhaust gas temperature limiter with an acting point of max. 110° C is integrated. The exhaust gas temperature should not exceed 100°C during continuous operation.	EN 14471
8.17	Fire behaviour	Model 1 to 4: **E**	EN 13501-1

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

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Stefan Engelhardt CEO

Product information

"Chimneys – System chimneys with plastic flue liners – requirements and test methods" EN 14471

Manufacturer's identification:

jeremias GmbH
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Fax: +49 (0) 9832 / 68 68-68
Internet: www.jeremias.de
E-Mail: info@jeremias.de

Product trade name: **jeremias-PP** (chimney system made of polypropylene)
Product subcategory: **ew-pp-starr / twin-p / twin-pl / ew-pp-flex**

Certification office: TÜV SÜD Industrie Service GmbH

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

Identification of accompanying documents

0.1 ew-pp-starr	**EN 14471**	**T120** **T120**	**H1** **P1**	**O** **O**	**W** **W**	**2** **2**	**O20** **O20**	**I** **I**	**E** **E**	**L** **L**	**< DN200** **≥ DN200**	Single wall chimney system made of plastic, applicable for moisture resistant operation mode in positive pressure up to max. 5000Pa, ventilated throughout the whole length, for the installation inside buildings as indoor air independent connection piping or for the installation in non-combustible ductworks, that comply with the national fire protection regulations, in indoor air dependent / independent operation mode
0.2 twin-p	**EN 14471**	**T120** **T120**	**H1** **P1**	**O** **O**	**W** **W**	**2** **2**	**O00** **O00**	**E** **E**	**E** **E**	**LO** **LO**	**< DN200** **≥ DN200**	Multiple wall chimney system, inner pipe made of plastic, annular gap for ventilation, outer tube made of stainless steel, applicable for moisture resistant, indoor air dependent / independent operation mode in positive pressure up to max. 5000Pa., installation inside or outside buildings in non-combustible ductworks, that comply with the national fire protection regulations.
0.3 twin-pl	**EN 14471**	**T120** **T120**	**H1** **P1**	**O** **O**	**W** **W**	**2** **2**	**O00** **O00**	**I** **I**	**E** **E**	**LO** [1] **LO**	**< DN200** **≥ DN200**	Multiple wall chimney system, inner pipe made of plastic, annular gap for ventilation, outer pipe made of galvanized and powder coated sheet metal, applicable for moisture, indoor air dependent / independent operation mode in positive pressure up to max. 5000Pa. [1] Installation inside buildings as connection piping.
0.4 ew-pp-flex	**EN 14471**	**T120** **T120**	**H1** **P1**	**O** **O**	**W** **W**	**2** **2**	**O00** **O00**	**I** **I**	**E** **E**	**LO** **LO**	**DN60- ≤DN110** **>DN110-DN160**	Single wall chimney system, consisting of rigid and flexible plastic pipes, applicable for moisture resistant, indoor air dependent / independent operation mode in positive pressure up to max. 5000Pa, ventilated throughout the whole length, for installation in non-combustible ductworks, that comply with the national fire protection regulations.

Product description
Standard number
Temperature level
Pressure level
Soot fire resistance (G: yes / O: no)
Condensate resistance (W: wet / D: dry)
Corrosion resistance
Distance to combustible materials
Installation location: (I: inside building E: inside & outside of buildings)
Fire behavior
outer casings
Nominal diameters (Ø) in mm

EN 14471

Compressive strength: maximum load 30 m without intermediate support

Wind stress:
ew-pp-starr: n.p.d
twin-p: 4 m between two wall fixations, 3 m free standing
twin-pl: [1] Installation only inside buildings, as connection piping towards vertical chimney 3 m between two wall fixations
ew-pp-flex: n.p.d

Nominal diameters (Ø) inner pipes / outer pipes in mm:
ew-pp-starr: 60; 80; 100; 110; 125; 160; 200; 250
twin-p: 60/100; 80/125; 100/150; 110/160; 125/190; 160/230; 200/265; 250/315
twin-pl: 60/100; 80/125; 100/150; 110/160
ew-pp-flex: 60; 80; 100; 110; 125; 160

Thermal resistance: 0 m²K/W

Flow resistance: average roughness acc. DIN EN 13384-1

Bending tensile strength: Non-vertical installation between two supports:
ew-pp-starr: ≤ 2 m; ***twin-p:*** 4 m; ***twin-pl:*** 4 m; ***ew-pp-flex*:** not possible

Condensate resistance: given

Resistance against thermic exposure: T120

Reaction to fire acc. EN 13501-1: E

Raw material designation: pp = polypropylene

Recycling: EN ISO 14021

[1] Acc. DIN V 18160-1 components of chimney systems may also be used as connection pieces.