

Declaration of Performance (DOP)

No. 9174 013 DOP 2016-01-26

1. Unique identification code of the product-type:

Rigid and flexible flue liner type LINE-F 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 and flexible flue liner, type LINE-F¹⁾

Model 1	EW-Line Flex FU	flexible single-ply metal flue liner	T400 N1 W V2-L50008 G²⁾
Model 2	EW-Line Flex FU	flexible single-ply metal flue liner	T600 N1 W V2-L50008 G²⁾
Model 3	EW-Line Flex AL	flexible single-ply metal flue liner	T120 P1 W V2-L50008 O²⁾⁴⁾
Model 4	EW-Line Flex AL	flexible single-ply metal flue liner	T200 P1 W V2-L50008 O²⁾⁴⁾
Model 5	EW-Line Flex FU	flexible single-ply metal flue liner	T200 N1 W V2-L50008 O²⁾
Model 6	EW-Line Flex FU	flexible double-layered metal flue liner	T400 N1 W V2-L50008 G³⁾
Model 7	EW-Line Flex FU	flexible double-layered metal flue liner	T600 N1 W V2-L50008 G³⁾
Model 8	EW-Line Flex AL	flexible double-layered metal flue liner	T120 P1 W V2-L50008 O³⁾⁴⁾
Model 9	EW-Line Flex AL	flexible double-layered metal flue liner	T200 P1 W V2-L50008 O³⁾⁴⁾
Model 10	EW-Line Flex FU	flexible double-layered metal flue liner	T200 N1 W V2-L50008 O³⁾
Model 11	Line EW-FU	rigid metal flue liner	T400 N1 W V2-L50060 G
Model 12	Line EW-FU	rigid metal flue liner	T600 N1 W V2-L50060 G
Model 13	Line EW-ALBI	rigid metal flue liner	T120 P1 W V2-L50060 O⁵⁾
Model 14	Line EW-ALBI	rigid metal flue liner	T200 P1 W V2-L50060 O⁶⁾
Model 15	Line EW-FU	rigid metal flue liner	T200 N1 W V2-L50060 O

¹⁾ Manufacturer product identification LINE-F

²⁾ flexible single-ply flue liner 0.08 mm

³⁾ flexible double-layered flue liner 2 x 0.08 mm

⁴⁾ with sealant of silicone

⁵⁾ with EPDM gasket

⁶⁾ with silicone gasket

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 013 of the factory production control.

8. Declared performance:

	Essential Characteristics	Performance			Harmonized technical specification
8.1	Compressive strength of fittings and supports	Model 1 to 5 Model 6 to 10 Model 11 to 15 Model 11 to 15 Model 11 to 15	flexible single-ply flexible double-layered rigid flue liner rigid flue liner rigid flue liner	DN (80- 300): not applicable DN (80- 300): not applicable DN (80- 300): min. 27 m DN (350- 450): min. 21 m DN (500- 600): min. 15 m For further information see the installation instruction LINE-F	EN 1856-2:2009
8.2	Crushing resistance	Model 1 to 5 Model 6 to 10 Model 11 to 15	flexible single-ply flexible double-layered rigid flue liner	DN (80- 300): Passed DN (80- 300): Passed DN (80- 600): not applicable	
8.3	Flexibility	Model 1 to 5 Model 6 to 10 Model 11 to 15	flexible single-ply flexible double-layered rigid flue liner	DN (80- 300): Minimum bending radius 2 x NW DN (80- 300): Minimum bending radius 2 x NW DN (80- 600): not applicable	
8.4	Torsion strength	Model 1 to 5 Model 6 to 10 Model 11 to 15	flexible single-ply flexible double-layered rigid flue liner	DN (80- 300): Passed DN (80- 300): Passed DN (80- 600): not applicable	
8.5	Pulling force < 0,5 kN	Model 1 to 5 Model 6 to 10 Model 11 to 15	flexible single-ply flexible double-layered rigid flue liner	DN (80- 300): Passed DN (80- 300): Passed DN (80- 600): not applicable	
8.6	Resistance to fire	Model 1 Model 2 Model 3 Model 4 Model 5 Model 6 Model 7 Model 8 Model 9 Model 10 Model 11 Model 12 Model 13 Model 14 Model 15	flexible single-ply flexible single-ply flexible single-ply flexible single-ply flexible single-ply flexible double-layered flexible double-layered flexible double-layered flexible double-layered flexible double-layered rigid flue liner rigid flue liner rigid flue liner rigid flue liner rigid flue liner	DN (80- 300): G DN (80- 300): G DN (80- 300): O DN (80- 300): O DN (80- 300): O DN (80- 300): G DN (80- 300): G DN (80- 300): O DN (80- 300): O DN (80- 300): O DN (80- 600): G DN (80- 600): G DN (80- 600): O DN (80- 600): O DN (80- 600): O	EN 1856-2:2009
8.7	Gas tightness/ leakage	Model 1 Model 2 Model 3 Model 4 Model 5 Model 6 Model 7 Model 8 Model 9 Model 10 Model 11 Model 12 Model 13 Model 14 Model 15	flexible single-ply flexible single-ply flexible single-ply flexible single-ply flexible single-ply flexible double-layered flexible double-layered flexible double-layered flexible double-layered flexible double-layered rigid flue liner rigid flue liner rigid flue liner rigid flue liner rigid flue liner	DN (80- 300): N1 DN (80- 300): N1 DN (80- 300): P1 DN (80- 300): P1 DN (80- 300): N1 DN (80- 300): N1 DN (80- 300): N1 DN (80- 300): P1 DN (80- 300): P1 DN (80- 300): N1 DN (80- 600): N1 DN (80- 600): N1 DN (80- 600): P1 DN (80- 600): P1 DN (80- 600): N1	EN 1856-2:2009

8. Declared performance:

	Essential Characteristics	Performance			Harmonized technical specification
8.8	Flow resistance of chimney sections, fittings and terminals	ζ (Zeta-value) single resistance Average assembly: Model 1 to 5 flexible single-ply DN (80 – 300): 1.5 mm Model 6 to 10 flexible double-layered DN (80 – 300): 1.5 mm Model 11 to 15 rigid flue liner DN (80 – 600): 1.0 mm according to EN 13384			EN 1856-2:2009
8.9	Sootfire resistance	Model 1 and 2 flexible single-ply DN (80- 300): Yes Model 3 to 5 flexible single-ply DN (80- 300): No ²⁾ Model 6 and 7 flexible double-layered DN (80- 300): Yes Model 8 to 10 flexible double-layered DN (80- 300): No ²⁾ Model 11 and 12 rigid flue liner DN (80- 600): Yes Model 13 to 15 rigid flue liner DN (80- 600): No ²⁾ ²⁾ because designated O			EN 1856-2:2009
8.10	Thermal performance under normal operating conditions	Model 1 flexible single-ply DN (80- 300): T400 Model 2 flexible single-ply DN (80- 300): T600 Model 3 flexible single-ply DN (80- 300): T120 Model 4 flexible single-ply DN (80- 300): T200 Model 5 flexible single-ply DN (80- 300): T200 Model 6 flexible double-layered DN (80- 300): T400 Model 7 flexible double-layered DN (80- 300): T600 Model 8 flexible double-layered DN (80- 300): T120 Model 9 flexible double-layered DN (80- 300): T200 Model 10 flexible double-layered DN (80- 300): T200 Model 11 rigid flue liner DN (80- 600): T400 Model 12 rigid flue liner DN (80- 600): T600 Model 13 rigid flue liner DN (80- 600): T120 Model 14 rigid flue liner DN (80- 600): T200 Model 15 rigid flue liner DN (80- 600): T200			
8.11	Durability: Water and vapour diffusion resistance	Model 1 to 5 flexible single-ply DN (80- 300): Yes Model 6 to 10 flexible double-layered DN (80- 300): Yes Model 11 to 15 rigid flue liner DN (80- 600): Yes			EN 1856-2:2009
8.12	Condensate penetration resistance	Model 1 to 5 flexible single-ply DN (80- 300): Yes Model 6 to 10 flexible double-layered DN (80- 300): Yes Model 11 to 15 rigid flue liner DN (80- 600): Yes			
8.13	Against corrosion	Model 1 to 5 flexible single-ply DN (80- 300): V2 Model 6 to 10 flexible double-layered DN (80- 300): V2 Model 11 to 15 rigid flue liner DN (80- 600): V2			
8.14	Freeze thaw resistance	Model 1 to 15 flexible single-ply, flexible double-layered and rigid flue liner: 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, 26th January 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:

LINE-F (single wall, rigid and flexible flue liner, installation in stack)
 Product subgroup: EW-Line Flex FU / EW-Line Flex AL / Line EW-FU / Line EW-ALBI

Certification office:

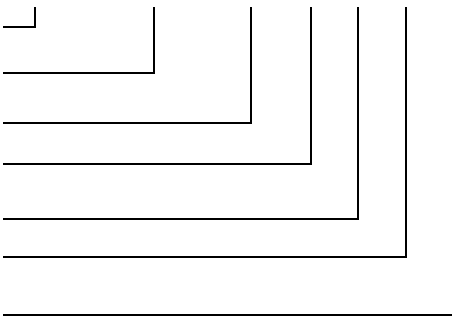
TÜV SÜD Industrie Service GmbH

Name and position of the responsible person:

Stefan Engelhardt CEO

Identification of accompanying documentation

0.1 EW-Line Flex FU	flexible metal flue liner	EN 1856-2	T400	N1	W	V2-L50008	G	Flexible single wall flue liner, sootfire resistant, installation in stacks / chimneys, which meet the requirements for fire protection. Operation mode in negative pressure.
0.2 EW-Line Flex FU	flexible metal flue liner	EN 1856-2	T600	N1	W	V2-L50008	G	Flexible single wall flue liner, sootfire resistant, installation in stacks / chimneys, which meet the requirements for fire protection. Operation mode in negative pressure.
0.3 EW-Line Flex AL	flexible metal flue liner	EN 1856-2	T120	P1	W	V2-L50008	O	Flexible single wall flue liner with sealant of silicone , moisture resistant, installation in stacks / chimneys, which meet the requirements for fire protection. Operation mode in positive pressure.
0.4 EW-Line Flex AL	flexible metal flue liner	EN 1856-2	T200	P1	W	V2-L50008	O	Flexible single wall flue liner with sealant of silicone , moisture resistant, installation in stacks / chimneys, which meet the requirements for fire protection. Operation mode in positive pressure.
0.5 EW-Line Flex FU	flexible metal flue liner	EN 1856-2	T200	N1	W	V2-L50008	O	Flexible single wall flue liner, moisture resistant, installation in stacks / chimneys, which meet the requirements for fire protection. Operation mode in negative pressure.
0.6 EW-Line Flex FU	flexible metal flue liner	EN 1856-2	T400	N1	W	V2-L50008	G	Flexible double wall (2 x 0.08 mm) flue liner, sootfire resistant, installation in stacks / chimneys, which meet the requirements for fire protection. Operation mode in negative pressure.
0.7 EW-Line Flex FU	flexible metal flue liner	EN 1856-2	T600	N1	W	V2-L50008	G	Flexible double wall (2 x 0.08 mm) flue liner, sootfire resistant, installation in stacks / chimneys, which meet the requirements for fire protection. Operation mode in negative pressure.
0.8 EW-Line Flex AL	flexible metal flue liner	EN 1856-2	T120	P1	W	V2-L50008	O	Flexible double wall (2 x 0.08 mm) flue liner with sealant of silicone , moisture resistant, installation in stacks / chimneys, which meet the requirements for fire protection. Operation mode in positive pressure.
0.9 EW-Line Flex AL	flexible metal flue liner	EN 1856-2	T200	P1	W	V2-L50008	O	Flexible double wall (2 x 0.08 mm) flue liner with sealant of silicone , moisture resistant, installation in stacks / chimneys, which meet the requirements for fire protection. Operation mode in positive pressure.
0.10 EW-Line Flex FU	flexible metal flue liner	EN 1856-2	T200	N1	W	V2-L50008	O	Flexible double wall (2 x 0.08 mm) flue liner, moisture resistant, installation in stacks / chimneys, which meet the requirements for fire protection. Operation mode in negative pressure.
0.11 Line EW-FU	rigid metal flue liner	EN 1856-2	T400	N1	W	V2-L50060	G	Rigid single wall flue liner, sootfire resistant, installation in stacks / chimneys, which meet the requirements for fire protection. Operation mode in negative pressure.
0.12 Line EW-FU	rigid metal flue liner	EN 1856-2	T600	N1	W	V2-L50060	G	Rigid single wall flue liner, sootfire resistant, installation in stacks / chimneys, which meet the requirements for fire protection. Operation mode in negative pressure.
0.13 Line EW-ALBI	rigid metal flue liner	EN 1856-2	T120	P1	W	V2-L50060	O	Rigid single wall flue liner with EPDM gasket , moisture resistant, installation in stacks / chimneys, which meet the requirements for fire protection. Operation mode in positive pressure.
0.14 Line EW-ALBI	rigid metal flue liner	EN 1856-2	T200	P1	W	V2-L50060	O	Rigid single wall flue liner with silicone gasket , moisture resistant, installation in stacks / chimneys, which meet the requirements for fire protection. Operation mode in positive pressure.
0.15 Line EW-FU	rigid metal flue liner	EN 1856-2	T200	N1	W	V2-L50060	O	Rigid single wall flue liner, moisture resistant, installation in stacks / chimneys, which meet the requirements for fire protection. Operation mode in negative pressure.

Product description	
Standard number	
Temperature level	
Pressure range level	
Condensate resistance (W: wet / D: dry)	
Corrosion resistance	
Flue liner material specification	
Sootfire resistance (G: yes / O: no)	

EN 1856-2 / EN 1856-1
 Properties of a flex. single wall, flex. multi-wall metal chimney system with rigid flue liner, for installation in stack

Compressive strength: flex. single wall & flex. double wall without, **rigid flue liner** >15 m

Flow resistance average roughness:
flex. single wall: 1.5 mm; **flex. double wall:** 1.5 mm; **rigid flue liner:** 1.0 mm
 Zeta-values acc. 13384-1

Thermal resistance: 0 m²/KW

Flexural fatigue strength: flex. single wall: min. bending radius 2 x NW
flex doppelagig: min. bending radius 2 x NW; **starre Innenrohre:** no

Flexural strength: Angular assembly: rigid flue liner
 Max. length between two supports: 4 m (Elbows max. 90°)

Fracture strength: given

Torsional stiffness: given

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.

Remarks: It will be explicitly referenced the use of appropriate fittings to ensure enough gas tightness, heat resistance and moisture resistance.