

EC - Declaration of Conformity

Chimney Systems

Issued in accordance with the Construction Products Directive 89/106/EEC

**Requirements on Metal Chimneys****Part 1 Products for System Chimneys according to EN 1856-1**

produced by

Schiedel s.r.o.
Horoušanská 286, CZ-250 81 Nehvizdy

in the factory

Schiedel s.r.o.
Modlanská 1, CZ-415 02 Teplice

Product description (trade name)

Permeter Smooth Air (PMSA)

Name and function of responsible person:

Thomas Muehl, Director Business Line Steel

Certification Body:

TÜV Süd Industrie Service GmbH
Ridlerstraße 65
D-80339 München

Certification nr. / year

0036 CPD 9195 034 – 2012

Test Report(s):

Permeter Smooth Air Certificate No. 0036 CPD 9195 34 - 2012

Designation of accompanying documents according to EN 1856 – 1 Annex ZA figure ZA 2

0.1	Metal system chimney	EN 1856-1	T400	N1	D	V3-L50050	G75	Double wall chimney with 25mm insulation capable of supplying combustible air to the appliance, for applications inside a building. Installed with closed insulated floors (200mm standard floor installation) with no further enclosure. Dry flue gas, negative pressure.
0.2	Metal system chimney	EN 1856-1	T400	N1	D	V2-L99050	G75	Double wall chimney with 25mm insulation capable of supplying combustible air to the appliance, for applications inside a building. Installed with closed insulated floors (200mm standard floor installation) with no further enclosure. Dry flue gas, negative pressure.
0.3	Metal system chimney	EN 1856-1	T400	N1	D	V3-L50050	G50	Double wall chimney with 50mm insulation capable of supplying combustible air to the appliance, for applications inside a building. Installed with closed insulated floors (200mm standard floor installation) with no further enclosure. Dry flue gas, negative pressure.
0.4	Metal system chimney	EN 1856-1	T400	N1	D	V2-L99050	G50	Double wall chimney with 50mm insulation capable of supplying combustible air to the appliance, for applications inside a building. Installed with closed insulated floors (200mm standard floor installation) with no further enclosure. Dry flue gas, negative pressure.

Product Description

Standard Number

Temperature Class

Pressure Class

(N: Negative / P: Pressure / H: High Pressure)

Condensate Resistance

(W: wet or D: dry)

Corrosion Resistance (according test)

Liner material description

Soot Fire Resistance G: yes / O: no

at distance to combustible material (in mm)

Section of metal system chimney

Compression strength

Max. load: - See table installation heights

Flow resistance

Medium roughness: 1 mm

Thermal resistance

PMSA-25 ≥ TR_{xx}

PMSA-50 ≥ TR_{xx}

Lateral

Tensile strength: NPD

Slope installation: Max. distance between supports: ??

Wind load resistance

Max. freestanding end:

NPD

Max. distance between supports:

Freeze thaw resistance

Yes



Declaration of Conformity and Product Description

NR	Characteristics and clauses to EN 1856-1	Results / Class	Documentation	Additional Information
1.0	Dimensions (Nominal diameters) <i>Models 01 & 02</i> <i>Clause 4 and 5</i>	130, 150, 180 & 200mm	Manufacturer's declaration	See Annex A See product catalogue.
1.1	Dimensions (Nominal diameters) <i>Models 03 & 04</i> <i>Clause 4 and 5</i>	130 & 150mm	Manufacturer's declaration	See Annex A See product catalogue.
2.0	Inner liner material (quality, thickness) <i>Models 01 & 03</i> <i>Clause 4 and 5</i> <i>Clause 6.7.2</i>	L50: AISI 316L 2B (1.4404) Nominal thickness 0.5mm (minimum thickness 0.45mm)	Manufacturer's declaration Material to EN 10088:2009	
2.1	Inner liner material (quality, thickness) <i>Models 02 & 04</i> <i>Clause 4 and 5</i> <i>Clause 6.7.2</i>	L99: AISI 444 2B (1.4521) Nominal thickness 0.5mm (minimum thickness 0.45mm)	Manufacturer's declaration Material to EN 10088:2009	
3.0	Outer liner material (quality, thickness) <i>Clause 4 and 5</i> <i>Clause 6.7.2</i>	AISI 304 BA (1.4301) Nominal thickness 0.5mm (minimum thickness 0.45mm)	Manufacturer's declaration Material to EN 10088:2009	
3.1	Outer liner material (quality, thickness) <i>Clause 4 and 5</i> <i>Clause 6.7.2</i>	Galvanised DX51D+Z200MAC Nominal thickness 0.6mm (minimum thickness 0.55mm)	Manufacturer's declaration Material to EN 10088:2009	
3.2	Outer liner Coating	Powder Coated. Corro-Coat PE 1023311 Jotun.	Manufacturer's declaration	
4.0	Insulation PMSA 25 & 50 (Foil installed facing air cavity)	Rockwool Nr. 000725300 with Alu foil. density 125 kg/m ³ , thickness 25 mm, thermal conductivity xx W/mK	Manufacturer's declaration / Installation Instructions. TUV Test Report Axxxx	
5.0	Pipes and fitting	All components in product catalogues	Manufacturer's declaration	See Product Catalogue
6.0	Intended use	Family houses serving one heat appliance. Stoves burning Wood & pellets up to 10 kW being operated as a room sealed appliance.	National regulations for use have to be applied	

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NR	Characteristics and clauses to EN 1856-1	Results / Class	Documentation	Additional Information
	Mechanical Resistance and Stability <i>Clause 6.2</i>			
7.0	Compressive strength <i>Clause 6.2.1.1.</i>		TUV Test Report A	See load bearing data
7.1	Compression strength of supports <i>Clause 6.2.1.2.</i>		TUV Test Report A	See load bearing data
8.0	Tensile strength <i>Clause 6.2.2.</i>		TUV Test Report A	
9.0	Windload resistance <i>Clause 6.2.3.2.</i>			See Installation Guidelines
10.0	Non vertical installation, angle <i>Clause 6.2.3.1.</i>	Pass	TUV Test Report A	See Installation Guidelines
11.0	Gas tightness Models <i>Clause 6.5</i>	N1	TÜV Test Report Number A	All diameters See annex D
12.0	Distance to combustible Models 01 & 02: <i>Clause 6.6.1.</i>	G75	TÜV Test Report Number A	See installation guidelines
12.1	Distance to combustible Models 03 & 04: <i>Clause 6.6.1.</i>	G50	TÜV Test Report Number A	See installation guidelines
13.0	Accidental human contact <i>Clause 6.6.2.</i>	Shield to accidental human contact where appropriate	Manufacturer's declaration	See annex E
14.0	Thermal resistance <i>Clause 6.6.3.</i>	≥ TR _{xxx}	TÜV Test Report Number A	
15.0	Condensate resistance and vapour resistance <i>Clause 6.6.4.</i>	D	TÜV Test Report Number A	See installation guidelines
16.0	Resistance to rain from outside <i>Clause 6.6.6.</i>		TÜV Test Report Number A	Including inspection opening
17.0	Flow resistance for section <i>Clause 6.6.7.1.</i>	R = 1 mm according to EN 13384-1	Normative	
18.0	Flow resistance for fittings <i>Clause 6.6.7.2</i>	according to EN 13384-1	Normative	
19.0	Flow resistance of terminal <i>Clause 6.6.7.3</i>	according to EN 13384-1	Normative	
20.0	Resistance to rain for the terminal <i>Clause 6.6.8.1.</i>			

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NR	Characteristics and clauses to EN 1856-1	Results / Class	Documentation	Additional Information
21.0	Aerodynamic behaviour for terminals <i>Clause 6.6.8.2</i>	NPD		
22.0	Durability – Corrosion resistance (L50) Models 01/03/05/ <i>Clause 6.7.1.</i>	V3	TÜV Test Report Number A	
22.1	Durability – Corrosion resistance (L99) Models 06/07/08 <i>Clause 6.7.1.</i>	V3	TÜV Test Report Number A	
23.0	Freeze thaw resistance <i>Clause 6.7.3.</i>	Proved according to EN 1856-1	Normative	
24.0	Dangerous substances <i>Clause 7.2.</i>	None	Manufacturer's declaration	
25.0	Installation <i>Clause 7.2.</i>		See installation guidelines	
	Additional Information <i>Clause 7.2</i>			
26.0	Storage Instructions	No Corrosive atmosphere. Dry environment to prevent insulation becoming wet.	See installation guidelines	
27.0	Method of joining / installing components		See installation guidelines	
28.0	Method of applying seals		See installation guidelines	
29.0	Minimum distance from the chimney outer to the inner surface of the enclosure		National regulations for use have to be applied	
30.0	Positioning of clean-out and inspection openings		National regulations for use have to be applied	
31.0	Enclosure/cladding specifications		See installation guidelines	
32.0	Cleaning methods or instruments	No cleaning instruments made of black steel.	See installation guidelines	
33.0	Recommendations on condensate drainage		See installation guidelines	
34.0	Installation of Chimney Plate		See installation guidelines	