Declaration of Performance

No. 004/b-DOP-2024-03-25

1. Unique identification code of the product-type: **Multi-wall Metal System Chimney (with 444 Liner)**

   PERMETER 25

2. Intended use: **Convey the products of combustion from heating appliances to the outside atmosphere**

3. Product designations:

Model 1	DN (80 – 300)	**T450 N1 W V2 L99050 G60**
	DN (350 - 450)	**T450 N1 W V2 L99050 G90**
	DN (500 - 600)	**T450 N1 W V2 L99050 G120**
	DN (650 - 700)	**T450 N1 W V2 L99050 G240**
Model 2	DN (80 – 300)	**T450 N1 D V2 L99050 G60**
	DN (350 - 450)	**T450 N1 D V2 L99050 G90**
	DN (500 - 600)	**T450 N1 D V2 L99050 G120**
	DN (650 - 700)	**T450 N1 D V2 L99050 G240**
Model 3	DN (80 – 300)	**T450 N1 W V2 L99050 G50**
	DN (350 - 450)	**T450 N1 W V2 L99050 G75**
	DN (500 - 600)	**T450 N1 W V2 L99050 G100**
	DN (650 - 700)	**T450 N1 W V2 L99050 G200**
Model 4	DN (80 – 300)	**T450 N1 D V2 L99050 G50**
	DN (350 - 450)	**T450 N1 D V2 L99050 G75**
	DN (500 - 600)	**T450 N1 D V2 L99050 G100**
	DN (650 - 700)	**T450 N1 D V2 L99050 G200**
Model 5	DN (80 - 700)	**T200 P1 W V2 L99050 O00**
Model 6	DN (80 - 300)	**T600 N1 W V2 L99050 G75**
Model 7	DN (80 - 300)	**T600 N1 D V2 L99050 G75**
Model 8	DN (80 - 200)	**T600 N1 W V2 – L99050 G00**
Model 9	DN (80 - 200)	**T400 N1 W V2 – L99050 G00**

4. Manufacturer: **Schiedel s.r.o.,**
   Horoušanská 286,
   CZ-250 81 Nehvizdy

5. Authorized representative: **Schiedel B.V.**
   Oudeveerseweg 23
   4332 SH Middelburg NL

6. System(s) of AVCP: **System 2+** (and System 4 for terminals)

7. Harmonized standard: **EN 1856-1:2009**

   Notified body: **0036**

8. Declared performance:

Essential characteristics	Performance	Harmonized technical specification
Compressive strength Chimney sections, fittings and supports	Model(s) 1 to 9: DN (80 – 130): **22 m** DN (150 - 180): **18 m** DN (200 - 300): **18 m** DN (350 - 450): **12 m** DN (500 - 550): **12 m** DN (600 - 700): **10 m** For further information see installation instructions	EN 1856-1: 2009
Resistance to fire	Model(s) 1, 2: DN (80 – 300): **T450 G60** DN (350 - 450): **T450 G90** DN (500 - 600): **T450 G120** DN (650 - 700): **T450 G240** *Tested fully enclosed in a combustible shaft; floor penetration fully ventilated with ventilated fire-stop plates. Model(s) 3, 4: DN (80 – 300): **T450 G50** DN (350 - 450): **T450 G75** DN (500 - 600): **T450 G100** DN (650 - 700): **T450 G200** *Tested fully enclosed in a non-combustible shaft; floor penetration fully insulated with solid fire-stop plates. Model 5: DN (80 – 700): **T200 O00** *Tested non enclosed; floor penetration fully venti-lated with ventilated fire stop plates. ** Can also be installed fully enclosed in a non-combustible shaft; floor penetration fully insulated with solid fire-stop plates. Model(s) 6, 7: DN (80 – 300): **T600 G75** *Tested fully ventilated Model 8: DN (80 – 200): **T600 G00** *Tested in a 12.5mm non-combustible Promafour shaft (60 mm distance between outer casing of chimney and inner liner of the shaft); ventilated firestops at the base, ventilated support plates through the 1.floor and ventilated fire-stop plates at the top of the shaft. Model 9: DN (80 – 200): **T400 G00** *Tested in a 12.5mm non-combustible Promafour shaft (60mm distance between outer casing of chimney and inner liner of the shaft); solid firestops at the base, ventilated support plates through the 1.floor and ventilated fire-stop plates at the top of the shaft.	EN 1856-1: 2009

Essential characteristics	Performance	Harmonized technical specification
Gas tightness /leakage	Model(s) 1, 2, 3, 4, 6, 7, 8, 9 DN (80 – 700): **N1** Model 5: DN (80 – 700): **P1**	EN 1856-1: 2009
Flow resistance of chimney sections Flow resistance of chimney fittings Flow resistance of terminals	Model(s) 1 to 9: DN (80 – 700): **1,0 mm** Zeta = **0.3** according EN 13384-1 Zeta = **0.5** according EN 13384-1	EN 1856-1: 2009 EN 13384-1: 2014
Thermal resistance	Model(s) 1 to 9: DN (80 – 700): **0.37 m² K/W** tested at 200°C	EN 1856-1: 2009
Thermal shock resistance Sootfire Resistance:	Model(s) 1, 2, 3, 4, 6, 7, 8, 9 DN (80 – 700): **Yes** Model 5: DN (80 – 700): **No**	EN 1856-1: 2009
Thermal performance under normal operating conditions:	Model(s) 1, 2, 3 & 4: DN (80 – 700): **T450** Model 5: DN (80 – 700): **T200** Model(s) 6, 7 & 8: DN (80 – 300): **T600** Model 9: DN (80 – 200): **T400**	EN 1856-1: 2009
Flexural tensile strength (only for means of connection for chimney sections and fittings)	Model(s) 1 to 9: DN 80 = **48 m** DN 200 = **21 m** DN 300 = **15** m DN 700 = **6 m**	EN 1856-1: 2009
Non-vertical installation	Model(s) 1 to 9: DN (80 – 500): between supports **≤ 3 m at 90°** DN (550 - 700): between supports **≤ 4 m at 90°**	EN 1856-1: 2009
Components subject to wind load	Model(s) 1 to 9: DN (80 – 400): **≤ 3 m** above last support **≤ 4 m** between supports DN (450 - 700): **≤ 2 m** above last support **≤ 3 m** between supports	EN 1856-1: 2009

Essential characteristics	Performance	Harmonized technical specification
Durability Water and vapour diffusion resistance	Model(s) 1, 3, 5, 6, 8, 9: DN (80 – 700): **Yes** Model(s) 2, 4, 7: DN (80 – 700): **No**	EN 1856-1: 2009
Condensate penetration resistance	Model(s) 1, 3, 5, 6, 8, 9: DN (80 – 700): **Yes** Model(s) 2, 4, 7: DN (80 – 700): **No**	
Durability against corrosion	Model(s) 1 to 9: DN (80 – 700): **V2**	
Freeze-thaw resistance	Model(s) 1 to 9: DN (80 – 700): **Yes**	

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Middelburg, 01.08.2024
Simon J. Ramaekers
PDG Schiedel Benelux

Plant manager