

Declaration of Performance

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

1. Unique identification code of the product-type: **Multi-wall Metal System Chimney (with 316L 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 L50050 G60 |
| | DN (350 - 450) | T450 N1 W V2 L50050 G90 |
| | DN (500 - 600) | T450 N1 W V2 L50050 G120 |
| | DN (650 - 700) | T450 N1 W V2 L50050 G240 |
| Model 2 | DN (80 – 300) | T450 N1 D V3 L50050 G60 |
| | DN (350 - 450) | T450 N1 D V3 L50050 G90 |
| | DN (500 - 600) | T450 N1 D V3 L50050 G120 |
| | DN (650 - 700) | T450 N1 D V3 L50050 G240 |
| Model 3 | DN (80 – 300) | T450 N1 W V2 L50050 G50 |
| | DN (350 - 450) | T450 N1 W V2 L50050 G75 |
| | DN (500 - 600) | T450 N1 W V2 L50050 G100 |
| | DN (650 - 700) | T450 N1 W V2 L50050 G200 |
| Model 4 | DN (80 – 300) | T450 N1 D V3 L50050 G50 |
| | DN (350 - 450) | T450 N1 D V3 L50050 G75 |
| | DN (500 - 600) | T450 N1 D V3 L50050 G100 |
| | DN (650 - 700) | T450 N1 D V3 L50050 G200 |
| Model 5 | DN (80 - 700) | T200 P1 W V2 L50050 O00 |
| Model 6 | DN (80 - 300) | T600 N1 W V2 L50050 G75 |
| Model 7 | DN (80 - 300) | T600 N1 D V3 L50050 G75 |
| Model 8 | DN (80 - 200) | T600 N1 W V2 L50050 G00 |
| Model 9 | DN (80 - 200) | T400 N1 W V2 L50050 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
<p>Compressive strength</p> <p>Chimney sections, fittings and supports</p>	<p>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</p> <p>For further information see installation instructions</p>	<p>EN 1856-1: 2009</p>
<p>Resistance to fire</p>	<p>Model(s) 1, 2: DN (80 – 300): T450 G60 DN (350 - 450): T450 G90 DN (500 - 600): T450 G120 DN (650 - 700): T450 G240</p> <p>*Tested fully enclosed in a combustible shaft; floor penetration fully ventilated with ventilated fire-stop plates.</p> <p>Model(s) 3, 4: DN (80 – 300): T450 G50 DN (350 - 450): T450 G75 DN (500 - 600): T450 G100 DN (650 - 700): T450 G200</p> <p>*Tested fully ventilated</p> <p>**Tested fully enclosed in a non-combustible shaft; floor penetration fully insulated with solid fire-stop plates.</p> <p>Model 5: DN (80 – 700): T200 O00</p> <p>*Tested non enclosed; floor penetration fully ventilated with ventilated fire stop plates.</p> <p>** Can also be installed fully enclosed in a non-combustible shaft; floor penetration fully insulated with solid fire-stop plates.</p> <p>Model(s) 6, 7: DN (80 – 300): T600 G75</p> <p>*Tested fully ventilated</p> <p>Model 8: DN (80 – 200): T600 G00</p> <p>*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.</p> <p>Model 9: DN (80 – 200): T400 G00</p> <p>*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.</p>	<p>EN 1856-1: 2009</p>

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	Model(s) 1 to 9: DN (80 – 900): 1,0 mm	EN 1856-1: 2009
Flow resistance of chimney fittings	Zeta = 0.3 according EN 13384-1	EN 13384-1: 2014
Flow resistance of terminals	Zeta = 0.5 according EN 13384-1	
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: DN (80 – 300): T600 Model 8: DN (80 – 200): 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 = 4 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 Condensate penetration resistance Durability against corrosion Freeze-thaw resistance	Model(s) 1, 3, 5, 6, 8, 9: DN (80 – 700) : Yes Model(s) 2, 4, 7: DN (80 – 700) : No Model(s) 1, 3, 5, 6, 8, 9: DN (80 – 700) : Yes Model(s) 2, 4, 7: DN (80 – 700) : No Model(s) 1, 3, 5, 6, 8, 9: DN (80 – 700): V2 Model(s) 2, 4, 7: DN (80 – 700): V3 Model(s) 1 to 9: DN (80 – 700): Yes	EN 1856-1: 2009

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
 CEO Schiedel Benelux