

Declaration of Performance

No. 005-DOP-2024-03-25

1. Unique identification code of the product-type: **Multi-wall Metal System Chimney (with 316L Liner)**
- PERMETER 50**
2. Intended use: **Convey the products of combustion from heating appliances to the outside atmosphere**
3. Product designations:
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|---------|----------------|----------------------------------|
| Model 1 | DN (80 – 300) | T600 N1 W V2 L50050 G25 |
| | DN (350 - 450) | T600 N1 W V2 L50050 G37,5 |
| | DN (500 - 600) | T600 N1 W V2 L50050 G50 |
| | DN (650 - 700) | T600 N1 W V2 L50050 G100 |
| Model 2 | DN (80 – 300) | T600 N1 D V3 L50050 G25 |
| | DN (350 - 450) | T600 N1 D V3 L50050 G37,5 |
| | DN (500 - 600) | T600 N1 D V3 L50050 G50 |
| | DN (650 - 700) | T600 N1 D V3 L50050 G100 |
| Model 3 | DN (80 – 300) | T400 N1 W V2 L50050 G25 |
| | DN (350 - 450) | T400 N1 W V2 L50050 G37,5 |
| | DN (500 - 600) | T400 N1 W V2 L50050 G50 |
| | DN (650 - 700) | T400 N1 W V2 L50050 G100 |
| Model 4 | DN (80 – 300) | T400 N1 D V3 L50050 G25 |
| | DN (350 - 450) | T400 N1 D V3 L50050 G37,5 |
| | DN (500 - 600) | T400 N1 D V3 L50050 G50 |
| | DN (650 - 700) | T400 N1 D V3 L50050 G100 |
| Model 5 | DN (80 - 700) | T200 P1 W V2 L50050 O00 |
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	Model(s) 1 to 5: DN (80 – 300): 15 m DN (350 - 700): 10 m	EN 1856-1: 2009
Chimney sections, fittings and supports	For further information see installation instructions	
Resistance to fire	Model(s) 1, 2: DN (80 – 300): T600 G25 DN (350 - 450): T600 G37,5 DN (500 - 600): T600 G50 DN (650 - 700): T600 G100 Model(s) 3, 4: DN (80 – 300): T400 G25 DN (350 - 450): T400 G37,5 DN (500 - 600): T400 G50 DN (650 - 700): T400 G100 Model 5: DN (80 – 700): T200 O00 *Tested non-enclosed; floor penetration fully insulated with solid fire-stop plates.	EN 1856-1: 2009
Gas tightness /leakage	Model(s) 1, 2, 3, 4: DN (80 – 700): N1 Model 5: DN (80 – 700): P1	EN 1856-1: 2009
Flow resistance of chimney sections	Model(s) 1 to 5: DN (80 – 700): 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 5: DN (80 – 700): 0.56 m² K/W tested at 200°C	EN 1856-1: 2009
Thermal shock resistance		
Sootfire Resistance:	Model(s) 1, 2, 3, 4: DN (80 – 700): Yes Model 5: DN (80 – 700): No	EN 1856-1: 2009
Thermal performance under normal operating conditions:	Model(s) 1, 2: DN (80 – 700): T600 Model(s) 3, 4: DN (80 – 700): T400 Model 5: DN (80 – 700): T200	EN 1856-1: 2009

Essential characteristics	Performance	Harmonized technical specification
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Flexural tensile strength (only for means of connection for chimney sections and fittings)	Designation(s) 1 to 5: DN 80 = 33 m DN 300 = 12 m DN 700 = 3 m	EN 1856-1: 2009
Non-vertical installation	Designation(s) 1 to 5: 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	Designation(s) 1 to 5: 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
Durability Water and vapour diffusion resistance Condensate penetration resistance Durability against corrosion Freeze-thaw resistance	Model(s) 1, 3, 5: DN (80 – 700): Yes Model(s) 2 & 4: DN (80 – 700): No Model(s) 1, 3, 5: DN (80 – 700): Yes Model(s) 2, 4: DN (80 – 700): No Model(s) 1, 3, 5: DN (80 – 700): V2 Model(s) 2, 4: DN (80 – 700): V3 Model(s) 1 to 5: 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
PDG Schiedel Benelux

Plant manager