

Declaration of Performance

No. 001/a-DOP-2024-03-25

1. Unique identification code of the product type: **Multi-wall Metal System Chimney (with 316L Liner)**
ICS 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 - 900) | 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 - 900) | 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 - 900) | 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 - 900) | 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 |
|---|---|------------------------------------|
| Compressive strength | 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 DN (750 - 900): NPD | 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): T450 G60 DN (350 - 450): T450 G90 DN (500 - 600): T450 G120 DN (650 - 900): 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 - 900): T450 G200 *Tested fully ventilated **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 ventilated 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 – 900): 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 – 900): 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 – 900): 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 – 900): T450 Model 5: DN (80 – 700): T200 Model (s) 6, 7: DN (80 – 300): T600 Model (s) 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 = 48 m DN 200 = 21 m DN 300 = 15 m DN 700 = 6 m DN 900 = NPD | 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° DN (750 - 900): NPD | EN 1856-1: 2009 |
| Components subject to wind load | Model(s) 1 to 9: | EN 1856-1: 2009 |

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|--|---|--|
| | DN (80 – 400): ≤ 3 m above last support ≤ 4 m between supports DN (450 - 900): ≤ 2 m above last support ≤ 3 m between supports | |
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| 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 – 900) : Yes Model(s) 2, 4, 7: DN (80 – 900) : No Model(s) 1, 3, 5, 6, 8, 9: DN (80 – 900) : Yes Model(s) 2, 4, 7: DN (80 – 900) : No Model(s) 1, 3, 5, 6, 8, 9: DN (80 – 900): V2 Model(s) 2, 4, 7: DN (80 – 900): V3 Model(s) 1 to 9: DN (80 – 900): 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