

# Declaration of Performance $\text{CE}$ No. 110-DoP-2021-05-05

1. Unique identification code of the product-type: **Twin walled stainless steel system with insulation Metaloterm<sup>®</sup> MF according to EN 1856-1:2009**

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

3. Product designations:

Model 1*	DN (100–300) DN (300) DN (350–400) DN (450) DN (500–600) DN (700) DN (800-1000)	T200 P1 W V2 L50040 O10* T200 P1 W V2 L50050 O10* T200 P1 W V2 L50050 O15* T200 P1 W V2 L50060 O15* T200 P1 W V2 L50060 O20* T200 P1 W V2 L50060 O40* T200 P1 W V2 L50080 O40*	Model 4*	DN (100–250) DN (300) DN (350–400) DN (450) DN (500–600) DN (700) DN (800-1000)	T450 N1 D V3 L50040 G50* T450 N1 D V3 L50050 G50* T450 N1 D V3 L50050 G75* T450 N1 D V3 L50060 G75* T450 N1 D V3 L50060 G100* T450 N1 D V3 L50060 G200* T450 N1 D V3 L50080 G200*
Model 2*	DN (100–250) DN (300) DN (350–400) DN (450) DN (500–600) DN (700) DN (800-1000)	T200 H1 W V2 L50040 O10* T200 H1 W V2 L50050 O10* T200 H1 W V2 L50050 O15* T200 H1 W V2 L50060 O15* T200 H1 W V2 L50060 O20* T200 H1 W V2 L50060 O40* T200 H1 W V2 L50080 O40*	Model 5*	DN (100–250) DN (300) DN (350–400) DN (450) DN (500–600) DN (700) DN (800-1000)	T600 N1 D V3 L50040 G70* T600 N1 D V3 L50050 G70* T600 N1 D V3 L50050 G105* T600 N1 D V3 L50060 G105* T600 N1 D V3 L50060 G140* T600 N1 D V3 L50060 G280* T600 N1 D V3 L50080 G280*
Model 3*	DN (100-250) DN (300) DN (350–400) DN (450) DN (500–600) DN (700) DN (800-1000)	T450 N1 W V2 L50040 O40* T450 N1 W V2 L50050 O40* T450 N1 W V2 L50050 O60* T450 N1 W V2 L50060 O60* T450 N1 W V2 L50060 O80* T450 N1 W V2 L50060 O160* T450 N1 W V2 L50080 O160*	Model 6**	DN (100–250) DN (300) DN (350–400) DN (450) DN (500–600) DN (700) DN (800-1000)	T450 N1 D V3 L50040 G60** T450 N1 D V3 L50050 G60** T450 N1 D V3 L50050 G90** T450 N1 D V3 L50060 G90** T450 N1 D V3 L50060 G120** T450 N1 D V3 L50060 G240** T450 N1 D V3 L50080 G240**
			Model 7	DN (80-200)	T400 N1 W V2 L50050 G(00)***
			Model 8	DN (80-200)	T600 N1 W V2 L50050 G(00)***

\* Free ventilated

\*\* In combustible shaft with ventilated fire stop, BS

\*\*\* See 8.2 resistance to fire

4. Manufacturer: **Schiedel Metaloterm B.V.  
Oude Veerseweg 23  
4332 SH Middelburg  
The Netherlands**

5. Authorised representative **N/A**

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

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

Notified body: **TÜV SÜD Industrie Service GmbH,  
Westendstrasse 199, 80686 Munich, Germany**

Notified certification body for factory production control No. **0036** performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control No. **0036-CPR-91418-110**.

**8. Declared performance**

	Essential Characteristics	Performance	Harmonized technical specification
8.1	Compressive strength  Chimney sections, fittings and supports	Sections and fittings: Model 1 to 6 DN (100- 300): up to 30 m Model 1 to 6 DN (350- 450): up to 15 m Model 1 to 6 DN (500- 600): up to 12 m Model 1 to 6 DN (700-1000): up to 9 m Supports: n.p.d. For further information see <a href="http://www.metaloterm.com">www.metaloterm.com</a>	EN 1856-1:2009
8.2	Resistance to fire	(Resistance to fire from inside to outside) Model 1 DN (100- 300): T200 – O10 Model 1 DN (350- 450): T200 – O15 Model 1 DN (500- 600): T200 – O20 Model 1 DN (700-1000): T200 – O40 Tested free ventilated Model 2 DN (100- 300): T400 – O10 Model 2 DN (350- 450): T400 – O15 Model 2 DN (500- 600): T400 – O20 Model 2 DN (700-1000): T400 – O40 Tested free ventilated Model 3 DN (100-250) T450 - O40 Model 3 DN (300) T450 - O40 Model 3 DN (350- 450): T450 – O60 Model 3 DN (500- 600): T450 – O80 Model 3 DN (700-1000): T450 – O160 Tested free ventilated Model 4 DN (100- 300): T450 – G50 Model 4 DN (350- 450): T450 – G75 Model 4 DN (500- 600): T450 – G100 Model 4 DN (700-1000): T450 – G200 Tested free ventilated Model 5 DN (100- 300): T600 – G70 Model 5 DN (350- 450): T600 – G105 Model 5 DN (500- 600): T600 – G140 Model 5 DN (700-1000): T600 – G280 Tested free ventilated Model 6 DN (100- 300): T450 – G60 Model 6 DN (350- 450): T450 – G90 Model 6 DN (500- 600): T450 – G120 Model 6 DN (700-1000): T450 – G240 Tested in combustible shaft with ventilated fire stop, BSEN  Model 7 DN (80-200) T400 – G(00)* 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 first floor and ventilated fire-stop plates at the top of the shaft.  Model 8 DN (80-200) T600 – G(00)* Tested in a 12,5mm non-combustible Promafour shaft, 60mm distance between outer casing of chimney and inner liner of the shaft; ventilated firestops at the base , ventilated support plates through the first floor and ventilated fire-stop plates at the top of the shaft.	EN 1856-1:2009
8.3	Gas tightness/leakage	Model 1 DN (100-1000): P1 Model 2 DN (100-1000): H1 Model 3 DN (100-1000): N1 Model 4 DN (100-1000): N1 Model 5 DN (100-1000): N1 Model 6 DN (100-1000): N1	EN 1856-1:2009

	Essential Characteristics	Performance	Harmonized technical specification
8.4	Flow resistance of chimney sections fittings and terminals	According to EN 13384-1	EN 1856-1:2009
8.5	Thermal resistance	Model 1 to 6 DN (100-1000): 0,51 m <sup>2</sup> K/W tested at 200°C	EN 1856-1:2009
8.6	Thermal shock resistance Sootfire resistance	Model 1 DN (100-1000): No* Model 2 DN (100-1000): No* Model 3 DN (100-1000): No* Model 4 DN (100-1000): Yes Model 5 DN (100-1000): Yes Model 6 DN (100-1000): Yes * because designated O	EN 1856-1:2009
8.7	Thermal performance under normal operating conditions	Model 1 DN (100-1000): T200 Model 2 DN (100-1000): T200 Model 3 DN (100-1000): T450 Model 4 DN (100-1000): T450 Model 5 DN (100-1000): T600 Model 6 DN (100-1000): T450	
8.8	Flexural tensile strength (only for means of connection for chimney sections and fittings)	Model 1 to 6 DN (100- 300): up to 10 m Model 1 to 6 DN (350- 450): up to 10 m Model 1 to 6 DN (500- 600): up to 10 m Model 1 to 6 DN (700-1000): n.p.d.	EN 1856-1:2009
8.9	Non vertical installation	Model 1 to 6 DN (100-1000): Maximum offset between supports 3 m at 90° (inclined run, maximum distance between two fixations, supports at non vertical installation)	EN 1856-1:2009
8.10	Components subject to wind load	Model 1 to 6 DN (100- 600): Free standing height 3 m above last support Maximum spacing between lateral supports: 4 m Model 1 to 6 DN (700-1000): Free standing height 1,5 m above last support Maximum spacing between lateral supports: 4 m	EN 1856-1:2009
8.11	Durability: Water and vapour diffusion resistance	Yes	EN 1856-1:2009
8.12	Condensate penetration resistance	Model 1 to 2 DN (100-1000): Yes Model 3 to 6 DN (100-1000): No	
8.13	Against corrosion	Model 1 to 3 DN (100-1000): V2 Model 4 to 6 DN (100-1000): V3	
8.14	Freeze thaw resistance	Model 1 to 6 DN (100-1000): Yes	

9. 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, 2020-01-25



Drs. Simon J. Ramaekers  
CEO Schiedel Benelux