

Declaration of Performance CE No. 110-DoP-2021-05-05

1. Unique identification code of the product-type: **Twin walled stainless steel system with insulation Metaloterm[®] 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 (100–250) 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(xx)***
			Model 8	DN (80-200)	T600 N1 W V2 L50050 G(xx)***

* In free air

** 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 www.metaloterm.com	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 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 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 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 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 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 Model 7 DN (80-200) T400 – G(xx)* Model 8 DN (80-200) T600 – G(xx)* Tested without cover, with back ventilated ceiling duct	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
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 ² K/W tested at 200°C	EN 1856-1:2009

*The Dutch building regulations impose specific requirements on the fire safety of a flue gas discharge application via NEN6062, by limiting the property "distance to combustible materials" to 0mm (DtC = 0mm). Tested in a 12,5mm non-combustible shaft (Promafour or similar), 60mm distance between outer casing of chimney and inner liner of the shaft; solid firestops (model 7) or ventilated firestops (model 8) at the base, ventilated support plates through the first floor and ventilated fire-stop plates at the top of the shaft.

	Essential Characteristics	Performance	Harmonized technical specification
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

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

