



## DECLARATION OF PERFORMANCE

Issued in accordance with the Construction Products Directive 89/106/EEC

Product: Twin walled stainless steel system chimney products with insulation  
Metaloterm® MF

Manufacturer: Ontop B.V.  
Oude Veerseweg 23  
4332 SH Middelburg  
The Netherlands

Place of production: Middelburg - The Netherlands

We declare that for the product mentioned above all provisions concerning EN 1856-1 and EN 1856-2 have been applied and that it carries the respective CE marking conform Annex ZA.

For the evaluation of conformity the tasks mentioned in table ZA.4 have been accomplished.

The certification of the factory production control is performed by:

**MPA NRW**

Materialprüfungsamt Nordrhein-Westfalen

Marsbruchstraße 186

D-44287 Dortmund

(Kenn-Nr. 0432)

The factory production control certificate number:

**0432-CPD-21999110**

is issued on 2007-03-29,

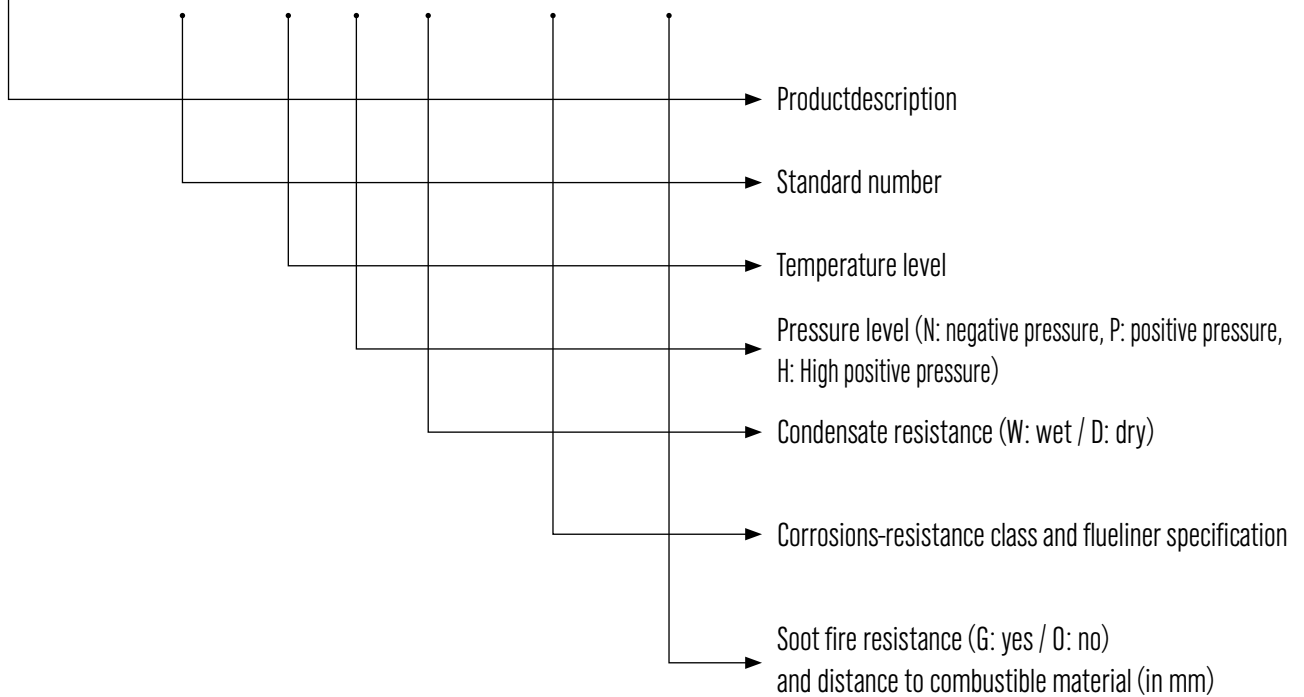
Middelburg, 2013-01-01

Marco Blaeke  
Managing Director



Marking of accompanying documents to EN 1856-1 and EN 1856-2, annex ZA tabel ZA.2

Metal system	EN 1856-1	T200	P1	W	V2 L50040	010	Twin wall insulated chimney system with insulation thickness of 25 or 37,5 mm
chimney section	EN 1856-1	T200	H1	W	V2 L50040	010	
	EN 1856-1	T450	N1	W	V2 L50040	040	
	EN 1856-1	T450	N1	D	V3 L50040	G50	
	EN 1856-2	T200	P1	W	V2 L50040	010	
	EN 1856-2	T200	H1	W	V2 L50040	010	
	EN 1856-2	T450	N1	W	V2 L50040	040	
	EN 1856-2	T450	N1	D	V3 L50040	G70	



**Flow resistance**

Mean value of roughness: 1 mm

**Thermal resistance**

ø100-400 mm: 0,55 m²K/W

ø450-700 mm: 0,51 m²K/W

at designation temperature

**Flexural strength**

Tensile strength: 10 m

Non-vertical installation: see website

Wind load: free standing height above last support: see website

Maximum spacing of lateral supports: see website

**Freeze-thaw resistance:** Yes



No.	Paragraph according to EN 1856-1	Characteristics and prestations according to EN 1856-1	Results / Class	Document	Additional information
1.0	Par. 5.2	Nominal dimensions (mm):	100, 130, 150, 180, 200, 250, 300, 350, 400, 450, 500, 600, 700 mm	Manufacturers declaration	Sizes see Product Catalogue
2.0	Par. 4 and 5 Par. 6.7.2	Material inner liner Quality: Nominal thickness (min. thickness)	L50040 1.4404 (316L) Ø100-250 mm: 0,40 mm (0,36 mm) Ø300-400 mm: 0,50 mm (0,45 mm) Ø450-700 mm: 0,60 mm (0,54 mm) Tolerances to EN-10259	Manufacturers declaration	
3.0	Par. 4 and 5 Par. 6.7.2	Material outer wall Quality: Nominal thickness (min. thickness)	L20040 1.4301 (304) Ø100-400 mm: 0,50 mm (0,45 mm) Ø450-700 mm: 0,60 mm (0,54 mm) Tolerances to EN-10259	Manufacturers declaration	
4.0	Par. 4 and 5	Insulation: Density: Thickness (min.):	Mineral wol 150 kg/m <sup>3</sup> Ø100-400 mm: 25 mm Ø450-700 mm: 37,5 mm	Z-23.2.1-127	
5.0	Par. 6.7.4	Sealant	T200 P1 W: Shore 55	Tüv: A-1472-00/05	
6.0	Par. 6.2.1	Compressive strength	Chimney height, dimensions and weight support: See website	Manufacturers declaration 07-D01-080206 07-D02-040610	See website
7.0	Par. 6.2.2	Tensile strength	10 m	Manufacturers declaration 07-D03-150206	See website
8.0	Par. 6.2.3.2	Wind load	Chimney height, dimensions and weight support: See website	MPA NRW 31 000 2344 31 000 2183 Manufacturers declaration 07-D05-150206	Productcatalog and website
9.0	Par. 6.2.3.1	Maximum deflection: Maximum length of the slope:	90° Ø100-400 mm: 2,5 m Ø450-700 mm: 3,5 m	Manufacturers declaration 07-D04-150206	See website



No.	Paragraph according to EN 1856-1	Characteristics and prestations according to EN 1856-1	Results / Class	Document	Additional information																									
10.0	Par. 6.5	Gas tightness	P1 N1	Tüv: P1: A 1383-00/05 N1: A 1384-00/05 Chimney lab: N1: Chimneylab-088																										
11.0	Par. 6.3 and 6.4	Distance to combustible materials, class T200/T450 and soot fire resistance	<table border="1"> <thead> <tr> <th></th> <th>T200 EN1856-1/2</th> <th>T450 EN1856-1/2</th> <th colspan="2">G EN1856-1   EN1856-2</th> </tr> </thead> <tbody> <tr> <td>∅ 100-300</td> <td>10</td> <td>40</td> <td>50</td> <td>70</td> </tr> <tr> <td>∅ 350-450</td> <td>15</td> <td>60</td> <td>75</td> <td>105</td> </tr> <tr> <td>∅ 500-600</td> <td>20</td> <td>80</td> <td>100</td> <td>140</td> </tr> <tr> <td>&gt;∅ 600</td> <td>40</td> <td>160</td> <td>200</td> <td>280</td> </tr> </tbody> </table>		T200 EN1856-1/2	T450 EN1856-1/2	G EN1856-1   EN1856-2		∅ 100-300	10	40	50	70	∅ 350-450	15	60	75	105	∅ 500-600	20	80	100	140	>∅ 600	40	160	200	280	T200: A 1383-00/05 (Tüv) T200: 07-N34-010307 (Ontop) T450: Chimneylab-088 (Chimney lab) T450: 07-N34-190307 (Ontop)	EN 1856-1
	T200 EN1856-1/2	T450 EN1856-1/2	G EN1856-1   EN1856-2																											
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∅ 500-600	20	80	100	140																										
>∅ 600	40	160	200	280																										
12.0	Par. 6.6.2	Accidental human contact	Protection against accidental human contact in public areas to be fitted, in case outer skin temperature > 70°	T200: A 1383-00/05 (Tüv) T200: 07-N34-010307 (Ontop) T450: Chimneylab-088 (Chimney lab) T450: 07-N34-190307 (Ontop)																										
13.0	Par. 6.6.3	Thermal resistance	∅100-400 mm: 0,55 m <sup>2</sup> K/W ∅450-700 mm: 0,51 m <sup>2</sup> K/W	PZ MPA 31 0719 8971																										
14.0	Par. 6.6.5 and 6.6.4	Condensate resistance	Yes if W	Tüv: A 1383-00/05 A 1384-00/05																										
15.0	Par. 6.6.6	Resistance against rainwater penetration	Yes	LNE 7010147																										
16.0	Par. 6.6.7.1	Mean value of roughness	R = 1 mm	EN 13384-1 (table 4)																										
17.0	Par. 6.6.7.2	Resistance of chimney fittings		EN 13384-1 (table 8)																										
18.0	Par. 6.7.1	Corrosion resistance	V2: Tüv V3: MPA	Tüv: A 1383-00/05 A 1384-00/05 141.2280 / 1.4.2015.8 MPA: 310719897-03 Manufacturers declaration 06-N19-011204A																										
19.0	Par. 6.7.3	Freeze-thaw resistance	Yes	EN 1856-1																										



No.	Paragraph according to EN 1856-1	Characteristics and prestations according to EN 1856-1	Results / Class	Document	Additional information
20.0		Typical installation drawings		Manufacturers declaration	Productcatalogus, see website
21.0		Method of joining the components		Manufacturers declaration	Mounting instructions
22.0		Method of installing sections or fittings, included supports and accessories		Manufacturers declaration	Mounting instructions, see website
23.0		Direction of flow		Manufacturers declaration	Mounting instructions
24.0		Storage instructions	No corrosive atmosphere	Manufacturers declaration	
25.0		Method of application of any required sealant		Manufacturers declaration	
26.0		Minimum distance from the chimney outer surface to the inner surface of the enclosure		National standards	
27.0		Positioning of clean-out and inspection openings		National standards	
28.0		Installation of chimney plate to the chimney, cladding or enclosure	Yes	to EN 1856-1	
29.0		Enclosure/cladding specifications	Combustible when to prevent accidental human contact and to avoid combustible material being placed too close to the chimney. Only non-combustible when to create full fire protection, combined with an approved fire stop in each lead-through.	Manufacturers declaration	
30.0		Cleaning methods or -instruments	No cleaning instruments made of black steel, only stainless steel or plastic	Manufacturers declaration	
31.0		Recommendations on condensate drainage	-		



CE-marking on the packaging (Annex ZA 3)

Example of sticker which will be put on each packaging:

<b>METALOTERM</b> ONTOP	Ø      cm
 8 2682 8 78	Quantity: Stückzahl: Nombre: Quantita: Aantal:
<b>Total Solutions In Flue Systems</b> <small>http://www.metaloterm.com</small>	<b>LOT: 00000 0</b>

The following chimney plate shall be put on the chimney or the enclosure:

**METALOTERM**  
ONTOP  
e-mail: info@metaloterm.com

CE

## System Metaloterm \_ \_

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Section reserved to the installer

Designation acc. to (please tick)

Nominal diameter Ø

Minimum distance to combustible material

Date of installation

Installer

\_\_\_\_\_ mm

\_\_\_\_\_ mm

\_\_\_\_\_

**WARNING ! Don't remove or modify this plate**