

## 47 D.o.P. - 01.07.2013 | Declaration of Performance (D.o.P.)

in accordance with Delegated Regulation (EU) No. 574/2014

Identifying logo

Certification body



CE Marking



Recycling



### 1. Unique identification code of the product-type:

Conical double-wall metal chimney system in steel 1,4404 (AISI 316L) lined in stainless steel insulated with high-density mineral wool.

STABILEHPPD	Diameter range: Ø80 - Ø1200	Diameter range: Ø60 - Ø250	EN 1856-1:2009   Without gasket
Designation 1	<b>T600 - H1 - W - V2 - L50040 - G50</b>	Diameter range: Ø300	EN 1856-1:2009   Without gasket
Designation 2	<b>T600 - H1 - W - V2 - L50050 - G50</b>	Diameter range: Ø350	EN 1856-1:2009   Without gasket
Designation 3	<b>T600 - H1 - W - V2 - L50050 - G75</b>	Diameter range: Ø400 - Ø450	EN 1856-1:2009   Without gasket
Designation 4	<b>T600 - H1 - W - V2 - L50060 - G75</b>	Diameter range: Ø500 - Ø550	EN 1856-1:2009   Without gasket
Designation 5	<b>T600 - H1 - W - V2 - L50060 - G100</b>	Diameter range: Ø600	EN 1856-1:2009   Without gasket
Designation 6	<b>T600 - H1 - W - V2 - L50080 - G100</b>	Diameter range: Ø700 - Ø900	EN 1856-1:2009   Without gasket
Designation 7	<b>T600 - H1 - W - V2 - L50080 - G200</b>	Diameter range: Ø1000 - Ø1200	EN 1856-1:2009   Without gasket
Designation 8	<b>T600 - P2 - W - V2 - L50100 - G200</b>		

### 2. Intended use:

Convey combustion gases from the appliance to the outside atmosphere.

### 3. Manufacturer:

**M&G Group Italy S.p.A.** Via Fratelli Kennedy, 1 - 21055 Gorla Minore (VA)  
 Tel.: ++39 0331.366.193  
 Fax: ++39 0331.366.021  
 @: info@stabile.it  
 Production site: CW/2018/006

### 4. Authorised representative:

Not applicable

### 5. AVCP system/s:

System 2+

### 6. Harmonised standard:

EN 1856-1:2009

Chimneys  
 Requirements for metal chimneys  
 Part 1: System chimney products

- Notified body/ies:

**0036 • TÜV SÜD**

Industrie Service Gmbh

- Certificate of conformity No.:

**0036 - CPR - 90218 001**

Date of first issue:

31/08/2018

### 7. Declared performance/s:

Essential characteristics	Performance			Harmonised technical specification	
Compressive strength	Designation 1 + 8	Pass	See table 1 of this D.o.P.	EN 1856-1: 2009	
Wind load resistance	Designation 1 + 8	Pass	See the provisions in the booklet		
Temperature resistance class	Designation 1 + 8	T600	600° C   Without gasket		
Thermal shock resistance	Designation 1 + 8	G-T600	Without gasket		
Gas tightness class	Designation 1 + 7	H1	5000 Pa		
	Designation 8	P2	200 Pa		
Dimensions and material	Designation 1	DN 60-250 mm	Thickness 0.4 mm		L50040
	Designation 2	DN 300 mm	Thickness 0.5 mm		L50050
	Designation 3	DN 350 mm	Thickness 0.5 mm		L50050
	Designation 4	DN 400-450 mm	Thickness 0.6 mm		L50060
	Designation 5	DN 500 - 550 mm	Thickness 0.6 mm		L50060
	Designation 6	DN 600 mm	Thickness 0.8 mm		L50080
	Designation 7	DN 700 - 900 mm	Thickness 0.8 mm*		L50080
	Designation 8	DN 1000 - 1200 mm	Thickness 1 mm		L50100
Vapour and/or condensation durability Corrosion resistance class	Designation 1 + 8	For weights and dimensions see Table 1 of D.o.P. no. 47			
	Designation 1 + 8	Pass	W		
Internal material specification	Designation 1 + 8	Pass	V2		
	Designation 1 + 8	Pass	V2		
Internal material specification	Designation 1 + 8	Steel AISI 316L (L50 - 1,4401) - polished finish (BA) with external longitudinal LASER or TIG welding in a protected atmosphere.			
Insulating material specification	Designation 1 + 8	High-density mineral wool (min. 90Kg/m3) with thickness 25 mm for diameters from 80 to 600 mm and with thickness 50 mm for diameters from 700 to 1200.			
External material specification	Designation 1 + 8	Steel AISI 304 (1,4301) - matt finish (2B) with external longitudinal LASER or TIG welding in a protected atmosphere.			
Clearance to combustible materials with temperature class 600° C [T600]	Designation 1 - 2	G50 - 50 mm	System tested in ventilated condition for entire length.		
	Designation 3 - 4	G75 - 75 mm			
	Designation 5 - 6	G100 - 100 mm			
	Designation 7 - 2	G200 - 200 mm			
Non-vertical installation	Designation 1 + 8	Pass	See the provisions in the booklet		
Roughness coefficient of linear elements	Designation 1 + 8	Pass	1 mm   Declared		
System flow resistance	Designation 1 + 8	Pass	See table 2 of this D.o.P.		
Heat resistance	Designation 1 + 8	Pass	See table 3 of this D.o.P.		
Corrosion durability	Designation 1 + 8	V2	L50-1,4404 - AISI 316L		
Freeze/thaw resistance	Designation 1 + 8	Pass			

The performance of the above product complies with the declared performance.

This declaration of performance is issued in accordance with Regulation (EU) 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

**Emanuele Grampa**

Place and date of first issue:  
 Gorla Minore, 29/09/2022

Signature



M&G Group Italy S.p.A. with Sole Shareholder

Via Fratelli Kennedy, 1 • 21055 Goda Minore (VA) • Italy • T: +39 0331 366 193 • F: +39 0331 366 021 • E: info@stabile.it

Tax code and VAT no.: 00774000129 • E&A Index no. 144406 of Chamber of C. of C. Varese • Italian Business Register of Varese no. 28682 • Court of Busto Arsizio • Share Cap. € 250,000 fully paid up.

## 47 D.o.P. - 01.07.2013 | CE Marking

in accordance with EN 1856-1: 2009 and EN 1856-2: 2009

Identifying logo

Certification body



CE Marking



Recycling



<b>M&amp;G Group Italy S.p.A.</b>	Via Fratelli Kennedy, 1 - 21055 Gorla Minore (VA)		
Tel.:	++39 0331.366.193		
Fax:	++39 0331.366.021		
@:	<a href="mailto:info@stabile.it">info@stabile.it</a>		
Production site:	CW/2018/006		
Dop:	47 - D.o.P. - 01.07.2018		
Identification code:	Conical double-wall metal chimney system in steel 1,4404 (AISI 316L) lined in stainless steel insulated with high-density mineral wool.		
Name:	<b>STABLEHPPD</b>		
Standard:	<b>EN 1856-1: 2009</b>		
	Chimneys		
	Requirements for metal chimneys Part 1 : System chimney products		
Certificate of conformity No.:	0036 - CPR - 90218 001		
Diameter range:	Ø80 - Ø1200		
Notified Body Code:	<b>0036 • TÜV SÜD   Industrie Service GmbH</b>		
Use:	Conveys combustion products from civil and industrial systems to the atmosphere.		
Ø60 - 250	Designation 1:	<b>T600 - H1 - W - V2 - L50040 - G50</b>	EN 1856-1: 2009   Without gasket
Ø300	Designation 2:	<b>T600 - H1 - W - V2 - L50050 - G50</b>	EN 1856-1: 2009   Without gasket
Ø350	Designation 3:	<b>T600 - H1 - W - V2 - L50050 - G75</b>	EN 1856-1: 2009   Without gasket
Ø400 - 450	Designation 4:	<b>T600 - H1 - W - V2 - L50060 - G75</b>	EN 1856-1: 2009   Without gasket
Ø500 - 550	Designation 5:	<b>T600 - H1 - W - V2 - L50060 - G100</b>	EN 1856-1: 2009   Without gasket
Ø600	Designation 6:	<b>T600 - H1 - W - V2 - L50080 - G100</b>	EN 1856-1: 2009   Without gasket
Ø700 - 900	Designation 7:	<b>T600 - H1 - W - V2 - L50080 - G200</b>	EN 1856-1: 2009   Without gasket
Ø1000 - 1200	Designation 8:	<b>T600 - P2 - W - V2 - L50100 - G200</b>	EN 1856-1: 2009   Without gasket
D.o.P. archive website:	<a href="https://www.stabile.it/dop/">https://www.stabile.it/dop/</a>		

Essential characteristics	Performance		
Compressive strength	Designation 1 + 8	Pass	See table 1 of this D.o.P.
Wind load resistance	Designation 1 + 8	Pass	See the provisions in the booklet
Temperature resistance class	Designation 1 + 8	<b>T600</b>	600° C   Without gasket
Thermal shock resistance	Designation 1 + 8	G-T600	Without gasket
Gas tightness class	Designation 1 + 7	<b>H1</b>	5000 Pa
	Designation 8	<b>P2</b>	200 Pa
Dimensions and material	Designation 1	DN 60-250 mm	Thickness 0.4 mm   <b>L50040</b>
	Designation 2	DN 300 mm	Thickness 0.5 mm   <b>L50050</b>
	Designation 3	DN 350 mm	Thickness 0.5 mm   <b>L50050</b>
	Designation 4	DN 400-450 mm	Thickness 0.6 mm   <b>L50060</b>
	Designation 5	DN 500 - 550 mm	Thickness 0.6 mm   <b>L50060</b>
	Designation 6	DN 600 mm	Thickness 0.8 mm   <b>L50080</b>
	Designation 7	DN 700 - 900 mm	Thickness 0.8 mm*   <b>L50080</b>
	Designation 8	DN 1000 -1200 mm	Thickness 1 mm   <b>L50100</b>
Vapour and/or condensation durability	Designation 1 + 8	Pass	<b>W</b>
	Designation 1 + 8	Pass	<b>V2</b>
Corrosion resistance class	Designation 1 + 8	Pass	<b>V2</b>
Clearance to combustible materials with temperature class 600° C [T600]	Designation 1 - 2	<b>G50 - 50 mm</b>	System tested in ventilated condition for entire length.
	Designation 3 - 4	<b>G75 - 75 mm</b>	
	Designation 5 - 6	<b>G100 - 100 mm</b>	
	Designation 7 - 2	<b>G200 - 200 mm</b>	
Non-vertical installation	Designation 1 + 8	Pass	See the provisions in the booklet
Roughness coefficient of linear elements	Designation 1 + 8	Pass	1 mm   Declared
System flow resistance	Designation 1 + 8	Pass	See table 2 of this D.o.P.
Heat resistance	Designation 1 + 8	Pass	See table 3 of this D.o.P.
Corrosion durability	Designation 1 + 8	<b>V2</b>	<b>L50-1,4404 - AISI 316L</b>
Freeze/thaw resistance		Pass	

Signed for and on behalf of the manufacturer by:

Emanuele Grampa  
 Place and date of first issue  
 Gorla Minore, 29/09/2022

Signature



M&G Group Italy S.p.A. with Sole Shareholder

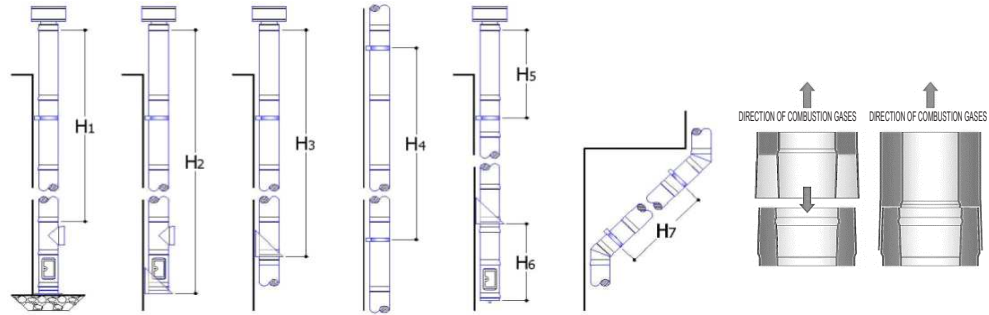
Via Fratelli Kennedy, 1 • 21055 Goda Minore (VA) • Italy • T: +39 0331 366 193 • F: +39 0331 366 021 • E: info@stabile.it

Tax code and VAT no.: 00774000129 • E&A Index no. 144406 of Chamber of C. of C. Varese • Italian Business Register of Varese no. 28682 • Court of Busto Arsizio • Share Cap. € 250,000 fully paid up.

## 47 D.o.P. - 01.07.2013 | Declaration of Performance (D.o.P.) - Annexes

in accordance with Delegated Regulation (EU) No. 574/2014

1. **Table 1 - Compressive strength**



Weights and dimensions			H <sub>1</sub> - Maximum height of section above connection		
DN = Øi	0e	Kg/m	DN	H <sub>1</sub> [mt] < 400°C	H <sub>1</sub> [mt] > 400°C
80	130	3.1	80	30	10
100	150	3.7	100	30	10
130	180	4.5	130	30	10
150	200	5.1	150	30	10
180	230	6.6	180	30	10
200	250	7.2	200	30	10
250	300	8.7	250	30	10
300	350	12	300	30	10
350	400	13.8	350	28	10
400	450	16.2	400	18	10
450	500	18.2	450	16	10
500	550	20	500	14	10
550	600	21.7	550	13	10
600	650	30.4	600	16	10
700	800	43.3	700	10	10
800	900	50.1	800	8	8
900	1000	53.4	900	7	7
1000	1100	56.7	1000	11	5
1100	1200	60.1	1100	10	5
1200	1300	66.1	1200	10	5

H <sub>2</sub> - Maximum height of section above base plate, installed with support brackets with or without reinforcement						
DN		H <sub>2</sub> [mt] < 400°C			H <sub>2</sub> [mt] > 400°C	
		Without reinforcement	With reinforcement		Without reinforcement	With reinforcement
80		30	10		30	10
100		27	10		30	10
130		22	10		30	10
150		20	10		30	10
180		30	10		30	10
200		29	10		30	10
250		23	10		30	10
300		19	10		30	10
350		17	10		30	10
400		/	/		30	10
450		/	/		30	10
500		/	/		28	10
550		/	/		32	10
600		/	/		22	10
700		/	/		19	8
800		/	/		15	7
900		/	/		13	6
1000		/	/		11	5
1100		/	/		10	5
1200		/	/		10	5

H <sub>3</sub> - Maximum height of section above base plate, installed with support brackets with or without reinforcement						
DN		H <sub>3</sub> [mt] < 400°C			H <sub>3</sub> [mt] > 400°C	
		Without reinforcement	With reinforcement		Without reinforcement	With reinforcement
80		28	10		30	10
100		28	10		30	10
130		22	10		30	10
150		20	10		30	10
180		20	10		30	10
200		18	10		30	10
250		15	10		30	10
300		14	10		30	10
350		12	10		30	10
400		/	/		30	10
450		/	/		30	10
500		/	/		29	10
550		/	/		26	10
600		/	/		18	10
700		/	/		19	8
800		/	/		15	7
900		/	/		13	6
1000		/	/		11	5
1100		/	/		10	5
1200		/	/		10	5

<b>H<sub>4</sub> - Maximum spacing between restraints on vertical section</b>	Ø80 + 450 3 mt	Ø500 + 550 2.5 mt	Ø600 2 mt	Ø700 + 900 1.5 mt	Ø1000 + 1200 1 mt
<b>H<sub>5</sub> - Maximum distance of cantilever section</b>	Ø80 + 350 2 mt	Ø400 + 900 2.5 mt		Ø1000 + 1200 1 mt	
<b>H<sub>6</sub> - Maximum distance of suspended section</b>	The distance is 1 metre for all diameters				
<b>H<sub>7</sub> - Maximum spacing between restraints on sloping section</b>	The distance is 4 metres for all diameters; from Ø400 use the clamp between elements				

## 47 D.o.P. - 01.07.2013 | Declaration of Performance (D.o.P.) - Annexes

in accordance with Delegated Regulation (EU) No. 574/2014

2. **Table 2** - Flow resistance of sections, components and terminals

Tee Fittings		Bends		Terminals	
90° Tee	$\zeta_{2,3} = 1.20$	3° Bend	$\zeta = 0.05$	Circular elements	$\zeta = 1.50$
45° Tee	$\zeta_{2,3} = 0.35$	15° Bend	$\zeta = 0.15$	Conical trunk	$\zeta = 0.00$
		30° Bend	$\zeta = 0.30$	Rainhat	$\zeta = 1.50$
		45° Bend	$\zeta_{2,3} = 0.40$	Wind deflector	$\zeta = 1.50$

3. **Table 3** - Heat resistance

Heat resistance			
DN = Øi	Øe	R (70°)	R (200°)
80	130	0.32	0.27
100	150	0.33	0.28
130	180	0.35	0.29
150	200	0.35	0.3
180	230	0.36	0.31
200	250	0.37	0.31
250	300	0.37	0.32
300	350	0.38	0.32
350	400	0.38	0.33
400	450	0.39	0.33
450	500	0.39	0.33
500	550	0.39	0.33
550	600	0.39	0.33
600	650	0.77	0.33
700	800	0.77	0.365
800	900	0.47	0.66
900	1000	0.47	0.66
1000	1100	0.78	0.66
1100	1200	0.79	0.7
1200	1300	0.79	0.67

The performance of the above product complies with the declared performance.

This declaration of performance is issued in accordance with Regulation (EU) 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Emanuele Grampa  
 Place and date of first issue:  
 Gorla Minore, 29/09/2022

Signature

