



# DECLARATION OF CONFORMITY AND PRODUCT DESCRIPTION

## EN 14471

### Chimneys - System chimneys with plastic flue liners - Requirements and test methods

Manufacturer: **DINAK**  
 Camiño do Laranxo, 19. 36216, VIGO (SPAIN)

Product commercial name: **DIFLUX POLYPOPRYLENE**

Product description: Double wall plastic chimney

Name and function of the responsible person: Íñigo A. Canoa (General Manager)

Notified Body: **TÜV Industrie Service GmbH TÜV SÜD Gruppe**  
**0036 CPD 90220 017**

Certificate number:



Designations according to EN 14471:

<b>0.1</b>	<b>Double wall plastic chimney (DN ≤ 160)</b>	EN 14471	T120	H1	O	W	2	O00	E	E	L0
	Product description										
	Standard number										
	Temperature class										
	Pressure class										
	Sootfire resistance										
	Condensate resistance class										
	Corrosion resistance class										
	Distance to combustible material										
	Location										
	Reaction to fire										
	Enclosures class										

**Mechanical resistance and stability**

Tensile strength: 30 m.

**Flow resistance**

Inner roughness: 1 mm (according to EN 13384-1 Standard)

Flow resistance coefficients ζ according to EN 13384-1 Standard

**Wet working conditions:** Yes



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Certificate number: **0036 CPD 90220 017**



Designations according to EN 14471:

0.1	<b>Double wall plastic chimney (DN &gt; 160)</b>	EN 14471	T120	P1	O	W	2	O00	E	E	LO
	Product description										
	Standard number										
	Temperature class										
	Pressure class										
	Sootfire resistance										
	Condensate resistance class										
	Corrosion resistance class										
	Distance to combustible material										
	Location										
	Reaction to fire										
	Enclosures class										

**Mechanical resistance and stability**

Tensile strength: 30 m.

**Flow resistance**

Inner roughness: 1 mm (according to EN 13384-1 Standard)

Flow resistance coefficients  $\zeta$  according to EN 13384-1 Standard

**Wet working conditions:** Yes

	Characteristics	Units	Ref. EN 14471	Values / Levels	Remarks
1	Nominal dimensions	mm	5	Inner: 60, 80, 100	
				Outer: 100, 125, 150	
2	Material inner wall				RP: TÜV-A 1650-00/07
	Quality			Polypropylene	
	Nominal thickness (minimum thickness)	mm		ND 60: 2,0 ND 80: 2,0 ND 100: 2,2	
3	Material outer wall		6	Steel ST 1203	
	Thickness			0,8 mm	
4	Thermal performance		6.2.1	According to EN 13216-1	RP: TÜV-A 1650-00/07
5	Mechanical behaviour and stability		6.2.2	30 m.	RP: TÜV-A 1650-00/07
6	Wind load resistance		6.3 7.3	Non applicable	RP: TÜV-A 1650-00/07
7	Fire resistance		6.4	None	
8	Gas tightness		6.5 7.5.1	Pressure level: DN ≤ 160: H1 (leakage rate <0.006 L/s/m <sup>2</sup> at 5000 Pa) DN > 160: P1 (leakage rate <0.006 L/s/m <sup>2</sup> at 200 Pa)	RP: TÜV-A 1650-00/07
9	Recycling		6.5.2		
10	Accidental human contact		6.6.1.2 7.6.1.2	Protection in the traffic area needed	RP: TÜV-A 1650-00/07
11	Adjacent combustible materials		6.6.1.3 7.6.1.2	None	
12	Thermal resistance		6.6.2 7.6.2	None	
13	Tightness against moisture and condensate		6.6.3	The chimney is resistant	
14	Flow resistance		6.6.5 7.6.6.1	According to EN 13384-1	
15	Long-term resistance to thermal load		6.7.3 7.7.3	Long-term resistance to thermal load fulfilled	RP: TÜV-A 1650-00/07
16	Long-term resistance to condensate exposure		6.7.4 7.7.4	Long-term resistance to condensate exposure fulfilled	RP: TÜV-A 1650-00/07
17	Resistance to wet/dry cycling		6.7.5 7.7.5	Resistance to wet/dry cycling fulfilled	RP: TÜV-A 1650-00/07
18	Resistance to ultraviolet radiation (UV)		6.7.6 7.7.6	Non applicable, because the free end of the plastic flue liner is not more than 0,4 m in length exposed to UV of the sun.	
19	Geometrical stability		6.7.7 7.7.7	Fulfilled	RP: TÜV-A 1650-00/07
20	Reaction to fire		6.7.8 4.10	Fulfilled according to EN 13501-1. Class E	RP: TÜV-A 1650-00/07
21	Seals and sealants		6.7.9	EPDM. Fulfilled according to EN 14241-1	RP: TÜV-A 1639-00/07
	Density	g/c m3		1,10	
	Hardness	ShA		52	
	Lengthening strength to 100%	MPa		1,45	

Rev.2

	<b>Characteristics</b>	<b>Unit s</b>	<b>Ref. EN 14471</b>	<b>Values / Levels</b>	<b>Remarks</b>
	Tensile strength	MPa		12,1	
	Lengthening to breakage	%		489	
	Permanent deformation	%		22	
	Dimensions			60, 80, 100	



# DECLARATION OF CONFORMITY AND PRODUCT DESCRIPTION

## EN 1856-1

### Chimneys – Requirements for metal chimneys. Part 1: System chimney products

Manufacturer: **DINAK**  
 Camiño do Laranxo, 19. 36216, VIGO (ESPAÑA)

Product commercial name: **DIFLUX INOX**

Product description: Concentric double wall metal chimney for room-sealed appliances providing the flue gas outlet through the inner wall and the air supply through the outer wall

Name and function of the responsible person: Íñigo A. Canoa (General Manager)

Notified Body: **TÜV Industrie Service GmbH TÜV SÜD Gruppe**

Certificate number: **0036 CPD 90220 024**



Designations according to EN 1856-1:

0.1	Metal chimney with seal 1.4404/316L	EN 1856-1	T200	P1	W	V2-L50040	O(50)
Product description							
Standard number							
Temperature level							
Pressure level							
Condensate resistance (W: wet; D: dry)							
Corrosion resistance and inner wall material							
Sootfire resistance (G: yes; O: no) and distance to combustible materials (in mm)							

**Compressive strength**  
Up to 27 m. See Annex

**Flow resistance**  
Inner roughness: 1 mm (according to EN 13384-1 Standard)  
Flow resistance coefficients  $\zeta$  according to EN 13384-1 Standard

**Thermal resistance**  
0 m<sup>2</sup> K / W at reference temperature

**Mechanical resistance and stability**  
Non vertical installation: maximum deflection 90° and maximum length of the slope 1 m.  
Wind load resistance:  
Maximum length between supports 3 m.  
Maximum length from the last support 1,5 m. See Annex

**Wet working conditions:** Yes



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### EN 1856-1

#### Chimneys – Requirements for metal chimneys. Part 1: System chimney products

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Camiño do Laranxo, 19. 36216, VIGO (ESPAÑA)

Product commercial name: **DIFLUX INOX**

Product description: Concentric double wall metal chimney for room-sealed appliances providing the flue gas outlet through the inner wall and the air supply through the outer wall

Name and function of the responsible person: Íñigo A. Canoa (General Manager)

Notified Body: **TÜV Industrie Service GmbH TÜV SÜD Gruppe**

Certificate number: **0036 CPD 90220 024**



Designations according to EN 1856-1:

0.1	Metal chimney with seal 1.452 /444	EN 1856-1	T200	P1	W	V2-L99040	O(50)
Product description							
Standard number							
Temperature level							
Pressure level							
Condensate resistance (W: wet; D: dry)							
Corrosion resistance and inner wall material							
Sootfire resistance (G: yes; O: no) and distance to combustible materials (in mm)							

**Compressive strength**  
Up to 27 m. See Annex

**Flow resistance**  
Inner roughness: 1 mm  
(according to EN 13384-1  
Standard)  
Flow resistance coefficients  $\zeta$   
according to EN 13384-1  
Standard

**Thermal resistance**  
0 m<sup>2</sup> K / W at reference  
temperature

**Mechanical resistance and stability**  
Non vertical installation: maximum  
deflection 90° and maximum  
length of the slope 1 m.  
Wind load resistance:  
Maximum length between  
supports 3 m.  
Maximum length from the last  
support 1,5 m. See Annex

**Wet working conditions:** Yes



# DECLARATION OF CONFORMITY AND PRODUCT DESCRIPTION

## EN 1856-1

### Chimneys – Requirements for metal chimneys. Part 1: System chimney products

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 Camiño do Laranxo, 19. 36216, VIGO (ESPAÑA)

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Designations according to EN 1856-1:

0.1	Metal chimney with seal 1.4162/S32101	EN 1856-1	T200	P1	W	V2-L99050	O(50)
Product description							
Standard number							
Temperature level							
Pressure level							
Condensate resistance (W: wet; D: dry)							
Corrosion resistance and inner wall material							
Sootfire resistance (G: yes; O: no) and distance to combustible materials (in mm)							

**Compressive strength**  
Up to 27 m. See Annex

**Flow resistance**  
Inner roughness: 1 mm (according to EN 13384-1 Standard)  
Flow resistance coefficients ζ according to EN 13384-1 Standard

**Thermal resistance**  
0 m<sup>2</sup> K / W at reference temperature

**Mechanical resistance and stability**  
Non vertical installation: maximum deflection 90° and maximum length of the slope 1 m.  
Wind load resistance:  
Maximum length between supports 3 m.  
Maximum length from the last support 1,5 m. See Annex

**Wet working conditions:** Yes



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## EN 1856-1

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 Camiño do Laranxo, 19. 36216, VIGO (ESPAÑA)

Product commercial name: **DIFLUX INOX**

Product description: Concentric double wall metal chimney for room-sealed appliances providing the flue gas outlet through the inner wall and the air supply through the outer wall

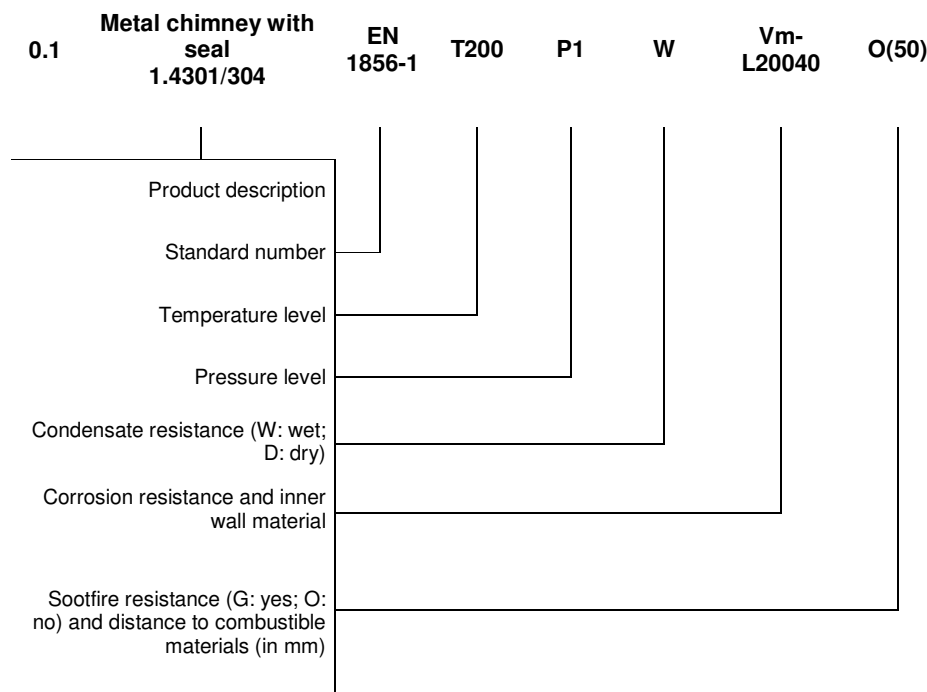


Name and function of the responsible person: Íñigo A. Canoa (General Manager)

Notified Body: **TÜV Industrie Service GmbH TÜV SÜD Gruppe**

Certificate number: **0036 CPD 90220 024**

Designations according to EN 1856-1:



**Compressive strength**  
Up to 27 m. See Annex

**Flow resistance**  
Inner roughness: 1 mm (according to EN 13384-1 Standard)  
Flow resistance coefficients ζ according to EN 13384-1 Standard

**Thermal resistance**  
0 m<sup>2</sup> K / W at reference temperature

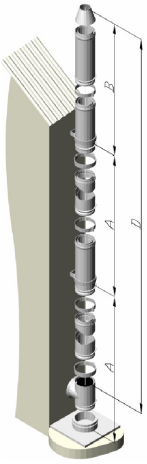
**Mechanical resistance and stability**  
Non vertical installation: maximum deflection 90° and maximum length of the slope 1 m.  
Wind load resistance:  
Maximum length between supports 3 m.  
Maximum length from the last support 1,5 m. See Annex

**Wet working conditions:** Yes

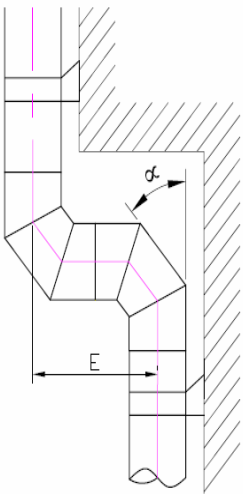


	Characteristics	Units	Ref. EN 1856-1	Values / Levels				Remarks
1.0	Nominal dimensions	mm	4, 5	80, 100, 130				See Annex
2.0	Inner/outer diameter			80/125, 100/150, 130/200				
3.0	Inner diameter (minimum)	mm	4, 5	78,4; 98,4; 128,4				
4.0	Inner wall material		4, 5, 6.5.2					
	Quality			1.4404 / 316L	1.4521 / 444	1.4162 / S32101	1.4301 / 304	
	Nominal thickness (minimum thickness)	mm		0,4 (0,34)	0,4 (0,34)	0,5 (0,44)	0,4 (0,34)	
	Description according to EN 1856-1			L50040	L99040	L99050	L20040	
5.0	Outer wall material		4, 5, 6.5.2					
	Quality			1.4301 / 304		1.4404 / 316L		
	Nominal thickness (minimum thickness)	mm		0,4 (0,34)		0,4 (0,34)		
	Description according to EN 1856-1			L20040		L50040		
	Quality			1.4521 / 444	1.4509 / 441	1.4075 / 430		
	Nominal thickness (minimum thickness)	mm		0,4 (0,34)	0,4 (0,34)	0,4 (0,34)		
	Description according to EN 1856-1			L99040	L99040	L99040		
6.0	Insulation		7.2	None				
7.0	Seals		7.2					<b>RP: IMQ-01SG00017</b>
	Designation according to EN 14241-1 standard			EN 14241-1 T200 W 2 K2 I				
	Density	g/c m <sup>3</sup>		1.20 ± 0.1				
	Hardness	ShA		55-60				
	Lengthening strength to 100%	N/m m <sup>2</sup>		≥ 1.2				
	Tensile strength	N/m m <sup>2</sup>		≥ 4.5				
	Permanent deformation	%		≤ 25				
	Nominal dimensions			80, 100, 130				
	<b>Mechanical resistance and stability</b>		6.1					
8.0	Compressive strength		6.1.1	Up to 27 m.				See Annex
9.0	Tensile strength		6.1.2	Up to 23 m.				See Annex
10.0	Wind load resistance		6.1.3.2	Maximum length from the last support: 1,5 m. Maximum length between supports: 3 m.				See Annex
	<b>Non vertical installation</b>		6.1.3.1					
11.0	Maximum deflection			90° (horizontal installation)				See Annex

	Characteristics	Units	Ref. EN 1856-1	Values / Levels				Remarks
12.0	Maximum length of the slope			1 m.				See Annex
13.0	Gas tightness		6.3	Pressure level: P1				
14.0	Distance to combustible materials at T200	mm	6.2	50 (O50)				
15.0	Accidental human contact at T200		6.4.2	Protection in the traffic area is not needed (back ventilated air gap between de inner wall and the outer wall)				
16.0	Thermal resistance	m <sup>2</sup> K / W	6.4.3	0				
17.0	Condensate resistance		6.4.4, 6.4.5	Designation: W (wet)				
18.0	Resistance against rainwater penetration		6.4.6	Not apply (not insulated)				
	<b>Flow resistance</b>		6.4.7					
19.0	Mean value of roughness	mm	6.4.7.1	1 (according to EN 13384-1 standard)				
20.0	Coefficients of flow resistance for fittings		6.4.7.2	Values according to EN 13384-1 standard				
	<b>Terminal</b>							
21.0	Coefficient of flow resistance		6.4.7.3	Values according to EN 13384-1 standard				
22.0	Protection against rainwater		6.4.8.1	N.P.D.				
23.0	Aerodynamic behavior		6.4.8.2	N.P.D.				
24.0	Corrosion resistance		6.5.1	1.4404 / 316L	1.4521 / 444	1.4162 / S32101	1.4301 / 304	<b>RP: TÜV-A 1439-00/05</b>
				V2	V2	V2	Vm	
25.0	Freeze / thaw resistance		6.5.3	Fulfilled according to EN 1856-1				
26.0	Dangerous substances		7.2	None				
27.0	Typical installation drawing		7.2					See Annex
28.0	Assembly instructions		7.2					See Annex
29.0	Flow direction		7.2	Installation with the outer Female at the top				
30.0	Storage instructions		7.2	No corrosive atmosphere				
31.0	Method of application of any sealant required		7.2	None				



		<b>COMPRESSIVE STRENGTH</b>	<b>TENSILE STRENGTH</b>
		Height – Size D (m)	Height (m)
	Outer material	1.4301 /304; 1.4404 / 316L; 1.4521 / 444; 1.4509 / 441; 1.4075 / 430	
ND (mm)	80	27	23
	100	22	19
	130	17	14



		<b>NON VERTICAL INSTALLATION</b>	
		Maximum deflection $\alpha$ (°)	Maximum length of the slope – Size E (m)
	Outer material	1.4301 /304; 1.4404 / 316L; 1.4521 / 444; 1.4509 / 441; 1.4075 / 430	
ND (mm)	80	90	1
	100	90	1
	130	90	1

		<b>COMPRESSIVE STRENGTH OF THE SUPPORT</b>	
		Height	
	Outer material	1.4301 /304; 1.4404 / 316L; 1.4521 / 444; 1.4509 / 441; 1.4075 / 430	
	Model	Wall support 080	Adjustable wall support 083
ND (mm)	80	6	6
	100	5	5
	130	4	4



# DECLARATION OF CONFORMITY AND PRODUCT DESCRIPTION

## EN 1856-2

### Chimneys – Requirements for metal chimneys. Part 2: Metal liners and connecting flue pipes

Manufacturer: **DINAK**  
 Camiño do Laranxo, 19. 36216, VIGO (ESPAÑA)

Product commercial name: **DIFLUX ALUMINIUM EVB/01**

Product description: Concentric metal chimney

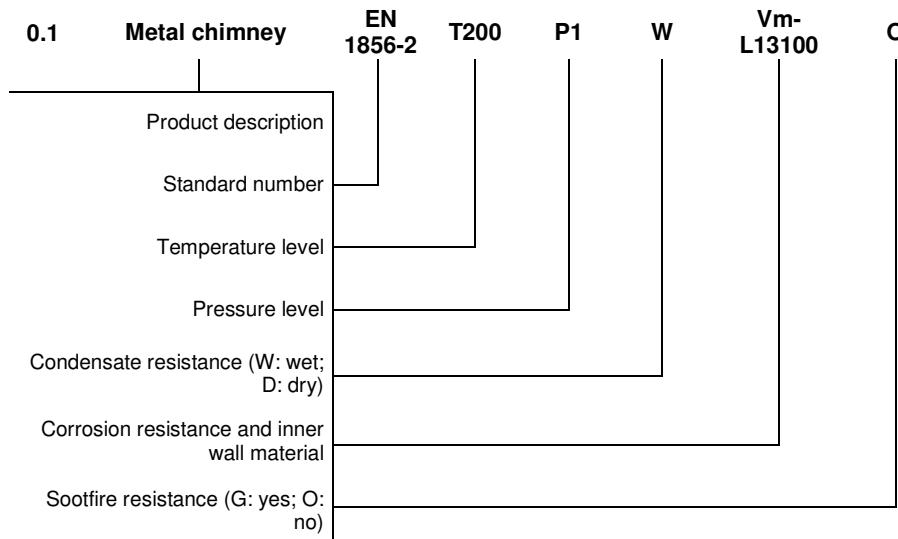
Name and function of the responsible person: Íñigo A. Canoa (General Manager)

Notified Body: **TÜV Industrie Service GmbH TÜV SÜD Gruppe**

Certificate number: **0036 CPD 90220 042**



Designations according to EN 1856-2 standard:



**Compressive strength**  
N.P.D.

**Flow resistance**  
 Inner roughness: 1 mm  
 (according to EN 13384-1 Standard)  
 Flow resistance coefficients  $\zeta$   
 according to EN 13384-1 Standard

**Thermal resistance**  
 0 m<sup>2</sup> K/W at reference temperature

**Mechanical resistance and stability**  
 Tensile strength: 0 m.  
 Non vertical installation: maximum deflection 90° and maximum length of the slope up to 1 m.

**Wet working conditions:** Yes

	Characteristics	Units	Ref. EN 1856-2	Values / Levels	Remarks
1.0	Nominal dimensions	mm	4, 5	60, 80	
2.0	Nominal/Outer dimension	mm		60/100, 80/125	
3.0	Inner wall material		4, 5, 6.5.2		
	Quality			Aluminium EN AW – 6060	EN 573-3
	Nominal thickness (minimum thickness)	mm		1,0	
	Description according to EN 1856-2			L13100	
4.0	Outer wall material		4, 5, 6.5.2		
	Quality			Aluminium EN AW – 6060	EN 573-3
	Nominal thickness (minimum thickness)	mm		1,0	
	Description according to EN 1856-2			L13100	
5.0	Insulation		7.2	None	
6.0	Seals		7.2		
	<b>Mechanical resistance and stability</b>		6.1		
7.0	Compressive strength		6.1.1	N.P.D.	
8.0	Tensile strength		6.1.2	0 m.	
	<b>Non vertical installation</b>		6.1.3.1		
9.0	Maximum deflection			90° (horizontal installation)	
10.0	Maximum length of the slope			Up to 1 m.	
11.0	Gas tightness		6.3	Pressure level: P1	RP: TÜV-A
12.0	Accidental human contact		6.4.2	Protection in the traffic area needed	RP: TÜV-A
13.0	Thermal resistance	m <sup>2</sup> K/ W	6.4.3	0	
14.0	Condensate resistance		6.4.4, 6.4.5	Designation: W (wet)	RP: TÜV-A
15.0	Resistance against rainwater penetration		6.4.6	Not apply (not insulated)	
	<b>Flow resistance</b>		6.4.7		
16.0	Mean value of roughness	mm	6.4.7.1	1 (according to EN 13384-1 standard)	
17.0	Coefficients of flow resistance for fittings		6.4.7.2	Values according to EN 13384-1 standard	
	<b>Terminal</b>				
18.0	Coefficient of flow resistance		6.4.7.3	Values according to EN 13384-1 standard	
19.0	Protection against rainwater		6.4.8.1	N.P.D.	
20.0	Aerodynamic behavior		6.4.8.2	N.P.D.	

	<b>Characteristics</b>	<b>Unit s</b>	<b>Ref. EN 1856-2</b>	<b>Values / Levels</b>	<b>Remarks</b>
21.0	Corrosion resistance		6.5.1	Vm	
22.0	Freeze / thaw resistance		6.5.3	Fulfilled according to EN 1856-1	
23.0	Dangerous substances		7.2	None	
24.0	Typical installation drawing		7.2		See product brochures
25.0	Assembly instructions		7.2		See product brochures
26.0	Flow direction		7.2	Installation with the Female at the top	
27.0	Storage instructions		7.2	No corrosive atmosphere	
28.0	Method of application of any sealant required		7.2	None	