

DOP-EI120+-057

1. Unique identification code of the product-type:

Multi Wall Metal System Chimney

2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):

DINAK EI120+

According to EN 1856-1			According to EN 12101-7
1.0 Model 1.4404 / 316L	Ø80-300	T600 N1 D V2 L50040 G10	EI 120 (ve-ho) S500 multi leakage rated
1.0 Model 1.4404 / 316L	Ø350-450	T600 N1 D V2 L50040 G15	
1.0 Model 1.4404 / 316L	Ø500-600	T600 N1 D V2 L50040 G20	
1.1 Model 1.4404 / 316L with seal	Ø80-600	T200 P1 W V2 L50040 O00	
1.2 Model 1.4404 / 316L with external seal	Ø80-300	T600 H1 D V2 L50040 O30	
1.2 Model 1.4404 / 316L with external seal	Ø350-450	T600 H1 D V2 L50040 O45	
1.2 Model 1.4404 / 316L with external seal	Ø500-600	T600 H1 D V2 L50040 O60	
2.0 Model 1.4521 / 444	Ø80-300	T600 N1 D V2 L99040 G10	
2.0 Model 1.4521 / 444	Ø350-450	T600 N1 D V2 L99040 G15	
2.0 Model 1.4521 / 444	Ø500-600	T600 N1 D V2 L99040 G20	
2.1 Model 1.4521 / 444 with seal	Ø80-600	T200 P1 W V2 L99040 O00	
2.2 Model 1.4521 / 444 with external seal	Ø80-300	T600 H1 D V2 L99040 O30	
2.2 Model 1.4521 / 444 with external seal	Ø350-450	T600 H1 D V2 L99040 O45	
2.2 Model 1.4521 / 444 with external seal	Ø500-600	T600 H1 D V2 L99040 O60	
3.0 Model 1.4301 / 304	Ø80-300	T600 N1 D Vm L20040 G10	
3.0 Model 1.4301 / 304	Ø350-450	T600 N1 D Vm L20040 G15	
3.0 Model 1.4301 / 304	Ø500-600	T600 N1 D Vm L20040 G20	
3.1 Model 1.4301 / 304 with seal	Ø80-600	T200 P1 W Vm L20040 O00	
3.2 Model 1.4301 / 304 with external seal	Ø80-300	T600 H1 D Vm L20040 O30	
3.2 Model 1.4301 / 304 with external seal	Ø350-450	T600 H1 D Vm L20040 O45	
3.2 Model 1.4301 / 304 with external seal	Ø500-600	T600 H1 D Vm L20040 O60	

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

According to EN 1856-1	According to EN 12101-7
Convey the products of combustion from heating appliances to the outside atmosphere	Smoke control duct sections are to be used in smoke control systems, either at 600°C or under fire conditions

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):

DINAK S.A.
 Camiño do Laranxo, 19
 36216, Vigo (SPAIN)
 dinak@dinak.com

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5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):

Not applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:

According to EN 1856-1	According to EN 12101-7
System 2+ System 4 (for terminals)	System 1

7. Notified factory production control certification body TÜV SÜD Industrie Service GmbH, 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

According to EN 1856-1	According to EN 12101-7
TÜV SÜD Industrie Service GmbH, No.0036	APPLUS, No. 0370

8. Declared performance

According to EN 1856-1			According to EN 12101-7		
Essential Characteristics	Performance	Harmonized technical specification	Essential Characteristics	Performance	Harmonized Technical Spec.
Compressive strength Chimney Sections, fittings and supports	Up to 8 m (See annex)	EN 1856-1:2009	Fire resistance	EI 120 (ve-ho) S500 multi leakage rated	EN 12101-7
Resistance to fire	Models 1.0. 2.0 and 3.0: Ø80-300: T600 – G10 Ø350-450: T600 – G15 Ø500-600: T600 – G20 Models 1.1. 2.1 and 3.1: Ø80-600: T200 – O00 Models 1.2. 2.2 and 3.2: Ø80-300: T600 – O30 Ø350-450: T600 – O45 Ø500-600: T600 – O60	EN 1856-1:2009			
Gas tightness/leakage	Models 1.0. 2.0 and 3.0: N1 Models 1.1. 2.1 and 3.1: P1 Models 1.2. 2.2 and 3.2: H1	EN 1856-1:2009			
Flow resistance of chimney sections, fittings and terminals	According to EN 13384-1	EN 1856-1:2009			
Thermal resistance	Ø80-175: 0,745 -0,904 m ² K/W tested at 200°C Ø200-250: 0,939-0,995 m ² K/W tested at 200°C Ø300-550: 1,037-1,154	EN 1856-1:2009			

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	m ² K/W tested at 200°C Ø600: 1,167-1,207 m ² K/W tested at 200°C	
Thermal shock resistance	Models 1.0, 2.0 and 3.0: Yes	EN 1856-1:2009
Soot fire resistance	Models 1.1, 1.2, 2.1, 2.2, 3.1 and 3.2: No	
Thermal performance under normal operating conditions	Models 1.0, 1.2, 2.0, 2.2, 3.0 and 3.2: T600 Models 1.1, 2.1 and 3.1: T200	
Flexural tensile strength (only for means of connection for chimney sections and fittings)	Up to 25 m (see annex)	EN 1856-1:2009
Non vertical installation	Only vertical installation	EN 1856-1:2009
Components subject to wind load	Maximum free standing height: 1 m above last support (see annex) Maximum spacing between lateral supports: 3 m (see annex)	EN 1856-1:2009
Durability		EN 1856-1:2009
Water and vapour diffusion resistance	Yes	
Condensate penetration resistance	Models 1.0, 1.2, 2.0, 2.2, 3.0 and 3.2: No Models 1.1, 2.1 and 3.1: Yes	
Against corrosion	Models 1.0, 1.1, 1.2, 2.0, 2.1 and 2.2: V2 Models 3.0, 3.1 and 3.2: Vm	
Freeze thaw resistance	Yes	EN 1856-1:2009

9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8.

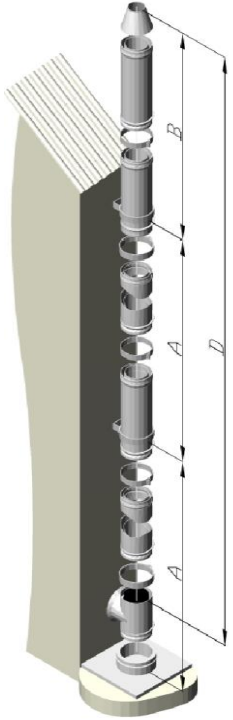
This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Íñigo A. Canoa (General Manager)

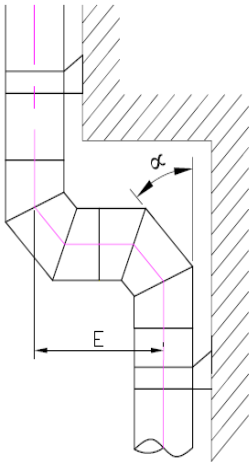
Vigo, 3th February 2020

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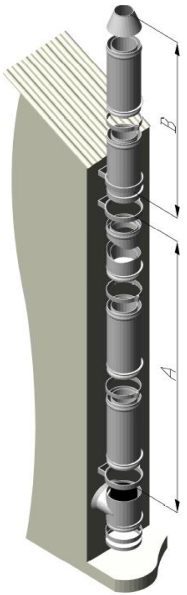
	COMPRESSION STRENGTH*		TENSION STRENGTH	
	MAX. LOAD – Size D (m)		MAX. LOAD (m)	
Outer material	1.4301 / 304 1.4404 / 316L 1.4512 / 409L		1.4301 / 304 1.4404 / 316L 1.4512 / 409L	
ND (mm)	80	7	24	
	100	7	22	
	125	6	20	
	150	6	19	
	175	5	17	
	200	6	15	
	250	5	13	
	300	4	11	
	350	4	10	
	400	4	9	
	450	3	8	
	500	5	6	
	550	5	6	
600	4	5		

* In case a higher resistance is required, check with Dinak the possibility of installing a reinforced Tee



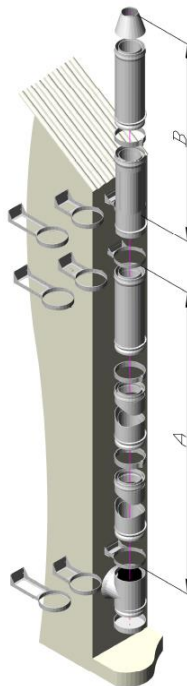
	COMPRESSION STRENGTH*		TENSION STRENGTH	
	MAX. DEFLECTION α (°)		MAX. LENGTH OF THE SLOPE – Size E (m)	
Outer material	1.4301 / 304 1.4404 / 316L 1.4512 / 409L		1.4301 / 304 1.4404 / 316L 1.4512 / 409L	
ND (mm)	80	90	3	
	100	90	3	
	125	90	3	
	150	90	3	
	175	90	3	
	200	90	3	
	250	90	3	
	300	90	3	
	350	90	3	
	400	90	3	
	450	90	3	
	500	90	1	
	550	90	1	
600	90	1		

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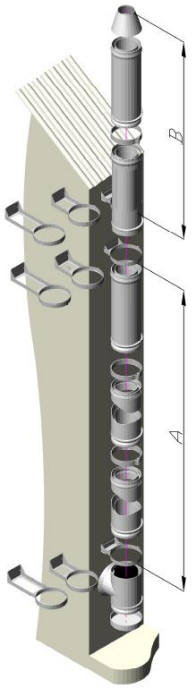
WIND LOAD RESISTANCE		
CONFIGURATION 1: WALL SUPPORTS 080 / FLAT WALL SUPPORT 086		
	Max number of straight elements between supports (Size A)	Max. Length from last support. (m) (Size B)
Outer material	1.4301 / 304 1.4404 / 316L 1.4512 / 409L	1.4301 / 304 1.4404 / 316L 1.4512 / 409L
ND (mm)	80	3
	100	3
	125	3
	150	3
	175	3
	200	3
	250	3
	300	2
	350	2
	400	2
	450	2
	500	2
	550	2
600	2	

* For higher lengths, please contact Dinak.

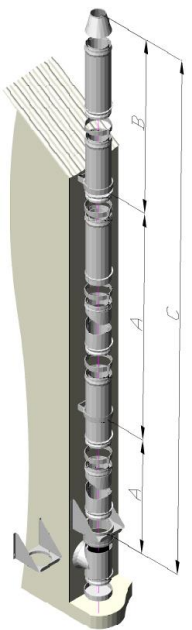


CONFIGURATION 2: SHORT CUTTABLE WALL SUPPORTS 835 / FLAT SHORT CUTTABLE WALL SUPPORTS 836		
Distance to wall (835/836) : 100-250 mm		
	Max number of straight elements between supports (Size A)	Max. Length from last support. (m) (Size B)
Outer material	1.4301 / 304 1.4404 / 316L 1.4512 / 409L	1.4301 / 304 1.4404 / 316L 1.4512 / 409L
ND (mm)	80	3
	100	3
	125	3
	150	3
	175	3
	200	3
	250	3
	300	3
	350	2
	400	2
	450	2
	500	
	550	
600		

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CONFIGURATION 3: LONG CUTTABLE WALL SUPPORTS 845 / FLAT LONG CUTTABLE WALL SUPPORTS 846		
Distance to wall (845/846) : 250-430 mm		
	Max number of straight elements between supports (Size A)	Max. Length from last support. (m) (Size B)
Outer material	1.4301 /304 1.4404 / 316L 1.4512 / 409L	1.4301 /304 1.4404 / 316L 1.4512 / 409L
ND (mm)	80	2
	100	2
	125	2
	150	2
	175	2
	200	2
	250	2
	300	2
	350	1
	400	1
	450	1
	500	
550		
600		



COMPRESSIVE STRENGTH OF THE SUPPORT		
MAX. LOAD (m)		
	Adjustable base support closed 085/853 Size (C)	Adjustable base support extended 085/853 Size (C)
Outer material	1.4301 /304 1.4404 / 316L 1.4512 / 409L	1.4301 /304 1.4404 / 316L 1.4512 / 409L
ND (mm)	80	31
	100	28
	125	25
	150	23
	175	21
	200	19
	250	16
	300	18
	350	16
	400	14
	450	13
	500	
550		
600		

*Please check maximum load in the compressive strength table, in case of installing a Tee section on top of our floor support