

1. Unique identification code of the product-type:

Single Wall Metal System Chimney
EN 1856-1:2009

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

1.0 Modelo 1.4404 / 316L	Ø 80-300	T200 P1 W V2 L50040 O30
1.0 Modelo 1.4404 / 316L	Ø 350-450	T200 P1 W V2 L50050 O45
1.0 Modelo 1.4404 / 316L	Ø 500-600	T200 P1 W V2 L50060 O60
1.0 Modelo 1.4404 / 316L	Ø 650-800	T200 P1 W V2 L50080 O120
1.1 Modelo 1.4404 / 316L	Ø 80-300	T250 N1 W V2 L50040 O50
1.1 Modelo 1.4404 / 316L	Ø 350-450	T250 N1 W V2 L50050 O75
1.1 Modelo 1.4404 / 316L	Ø 500-600	T250 N1 W V2 L50060 O100
1.1 Modelo 1.4404 / 316L	Ø 650-800	T250 N1 W V2 L50080 O200
2.0 Model 1.4521 / 444	Ø 80-300	T200 P1 W V2 L99040 O30
2.0 Model 1.4521 / 444	Ø 350-450	T200 P1 W V2 L99050 O45
2.0 Model 1.4521 / 444	Ø 500-600	T200 P1 W V2 L99060 O60
2.0 Model 1.4521 / 444	Ø 650-800	T200 P1 W V2 L99080 O120
2.1 Model 1.4521 / 444	Ø 80-300	T250 N1 W V2 L99040 O50
2.1 Model 1.4521 / 444	Ø 350-450	T250 N1 W V2 L99050 O75
2.1 Model 1.4521 / 444	Ø 500-600	T250 N1 W V2 L99060 O100
2.1 Model 1.4521 / 444	Ø 650-800	T250 N1 W V2 L99080 O200
3.0 Model 1.4162 / S32101	Ø 80-300	T200 P1 W V2 L99050 O30
3.0 Model 1.4162 / S32101	Ø 350-450	T200 P1 W V2 L99050 O45
3.0 Model 1.4162 / S32101	Ø 500-600	T200 P1 W V2 L99060 O60
3.0 Model 1.4162 / S32101	Ø 650-800	T200 P1 W V2 L99080 O120
3.1 Model 1.4162 / S32101	Ø 80-300	T250 N1 W V2 L99050 O50
3.1 Model 1.4162 / S32101	Ø 350-450	T250 N1 W V2 L99050 O75
3.1 Model 1.4162 / S32101	Ø 500-600	T250 N1 W V2 L99060 O100
3.1 Model 1.4162 / S32101	Ø 650-800	T250 N1 W V2 L99080 O200
4.0 Model 1.4301 / 304	Ø 80-300	T200 P1 W Vm L20040 O30
4.0 Model 1.4301 / 304	Ø 350-450	T200 P1 W Vm L20050 O45
4.0 Model 1.4301 / 304	Ø 500-600	T200 P1 W Vm L20060 O60
4.0 Model 1.4301 / 304	Ø 650-800	T200 P1 W Vm L20080 O120
4.1 Model 1.4301 / 304	Ø 80-300	T250 N1 W Vm L20040 O50
4.1 Model 1.4301 / 304	Ø 350-450	T250 N1 W Vm L20050 O75
4.1 Model 1.4301 / 304	Ø 500-600	T250 N1 W Vm L20060 O100
4.1 Model 1.4301 / 304	Ø 650-800	T250 N1 W Vm L20080 O200

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

Convey the products of combustion from heating appliances to the outside atmosphere

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

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:

System 2+
System 4 (for terminals)

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

8. Declared performance

Essential Characteristics	Performance	Harmonized technical specification
Compressive strength Chimney Sections, fittings and supports	Up to 72 m (See annex) See annex	EN 1856-1:2009
Resistance to fire	Models 1.0, 2.0, 3.0 and 4.0: Ø80-300: T200 – O30 Ø350-450: T200 – O45 Ø500-600: T200 – O60 Ø650-800: T200 – O120 Models 1.1, 2.1, 3.1 and 4.1: Ø80-300: T250 – O50 Ø350-450: T250 – O75 Ø500-600: T250 – O100 Ø650-800: T250 – O200	EN 1856-1:2009
Gas tightness/leakage	Models 1.0, 2.0, 3.0 and 4.0: P1 Models 1.1, 2.1, 3.1 and 4.1: N1	EN 1856-1:2009
Flow resistance of chimney sections, fittings and terminals	According to EN 13384-1	EN 1856-1:2009
Thermal resistance	0 m ² K/W	EN 1856-1:2009
Thermal shock resistance Soot fire resistance Thermal performance under normal operating conditions	Models 1.0, 1.1, 2.0, 2.1, 3.0, 3.1, 4.0 and 4.1: No Models 1.0, 2.0, 3.0 and 4.0: T200 Models 1.1, 2.1, 3.1 and 4.1: T250	EN 1856-1:2009
Flexural tensile strength (only for means of connection for chimney sections and fittings)	Up to 138 m (see annex)	EN 1856-1:2009
Non vertical installation	Maximum offset between supports: 3 m at 90° (see annex)	EN 1856-1:2009
Components subject to wind load	Maximum free standing height: 1,5 m above last support (see annex) Maximum spacing between lateral supports: 4 m (see annex)	EN 1856-1:2009
Durability Water and vapour diffusion resistance Condensate penetration resistance	Models 1.0, 1.1, 2.0, 2.1, 3.0, 3.1, 4.0 and 4.1: Yes	EN 1856-1:2009

Against corrosion	Models 1.0, 1.1, 2.0, 2.1, 3.0, 3.1, 4.0 and 4.1: Yes Models 1.0 and 1.1: V2 Models 2.0 and 2.1: V2 Models 3.0 and 3.1: V2 Models 4.0 and 4.1: Vm	
Freeze thaw resistance	Yes	EN 1856-1:2009

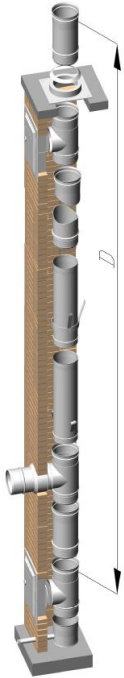
9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8.

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:

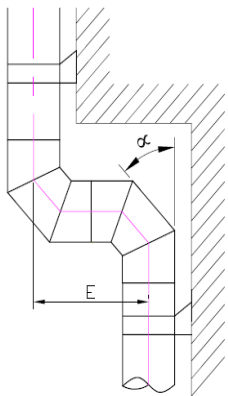
Íñigo A. Canoa (General Manager)

Vigo, 6th June 2013

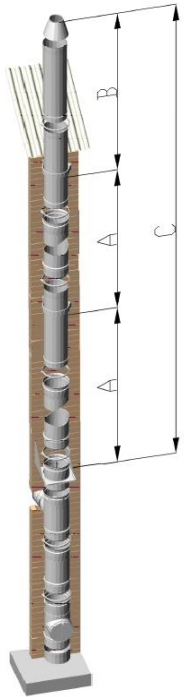


Material	COMPRESSIVE STRENGTH	TENSILE STRENGTH
	Height – Size D (m)	Height (m)
	AISI 304 / 1.4401 or AISI 316L / 1.4404	AISI 304 / 1.4401 or AISI 316L / 1.4404
80	72	138
83	70	133
97	60	114
100	58	111
110	53	101
111	52	100
120	48	92
125	46	88
130	45	85
139	42	79
140	41	79
150	39	74
153	38	72
160	36	69
167	35	66
175	33	63
180	32	61
200	29	55
230	25	48
250	23	44
280	20	39
300	19	37
350	17	55
400	15	48
450	13	43
500	10	32
550	9	29
600	8	26
650	9	18
700	9	17
750	8	16
800	7	15

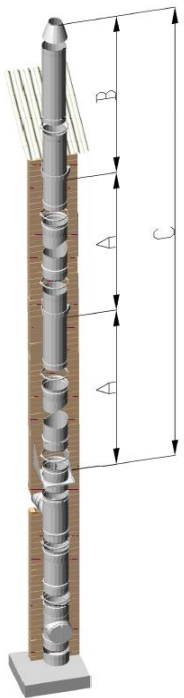
* In case a higher resistance is required, check with Dinak the possibility of installing a reinforced Tee



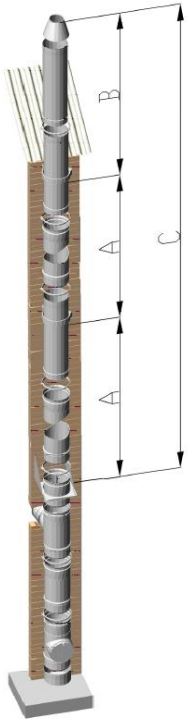
Material	NON VERTICAL INSTALLATION	
	Maximum deflection α (°)	Maximum length of the slope – Size E (m)
	AISI 304 / 1.4401 or AISI 316L / 1.4404	
80	90	3
83	90	3
97	90	3
100	90	3
110	90	3
111	90	3
120	90	3
125	90	3
130	90	3
139	90	3
140	90	3
150	90	3
153	90	3
160	90	3
167	90	3
175	90	3
180	90	3
200	90	3
230	90	3
250	90	3
280	90	3
300	90	3
350	90	3
400	90	3
450	90	3
500	90	3
550	90	3
600	90	3
650	90	3
700	90	3
750	90	3
800	90	3



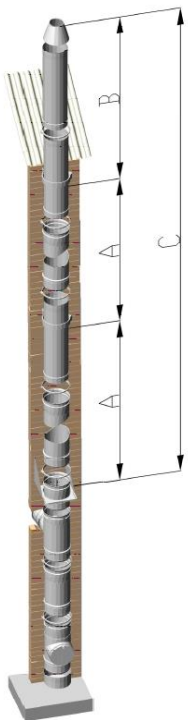
WIND LOAD RESISTANCE				
Configuration 1 (flat wall supports 086 with a self-standing support 861 at highest position)				
Max number of straight elements (020) between supports (Size A)			Max. Length from last support. (m) (Size B)	
Material	AISI 304 / 1.4401	AISI 316L / 1.4404	AISI 304 / 1.4401	AISI 316L / 1.4404
80- 180	X			
ND (mm)				
200	4		3	2.5
230	4		3	2.5
250	4		3	2.5
280	4		3	2.5
300	4		3	2.5
350	4		3	2.5
400	4		3	2.5
450	4		3	2.5
500	4		3	2.5
550	4		3	2.5
600	4		3	2.5
650	3		X	
700	3			
750	3			
800	3			



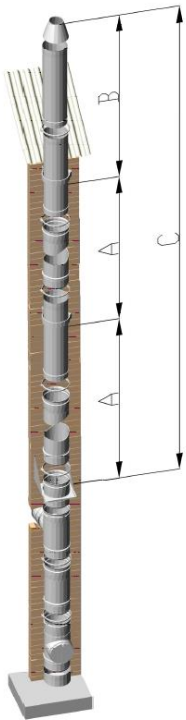
Configuration 2 (flat wall supports 086)		
Max number of straight elements (020) between supports (Size A)		Max. Length from last support. (m) (Size B)
Material	AISI 304 / 1.4401 or AISI 316L / 1.4404	
80	4	1.5
83	4	1.5
97	4	1.5
100	4	1.5
110	4	1.5
111	4	1.5
120	4	1.5
125	4	1.5
130	4	1.5
139	4	1.5
140	4	1.5
150	4	1.5
153	4	1.5
160	4	1.5
167	4	1.5
175	4	1.5
180	4	1.5
200	4	1.5
230	4	1.5
250	4	1.5
280	4	1.5
300	4	1.5
350	4	1.5
400	4	1.5
450	4	1.5
500	4	1.5
550	4	1.5
600	4	1.5
650	3	1.5
700	3	1.5
750	3	1.5
800	3	1.5



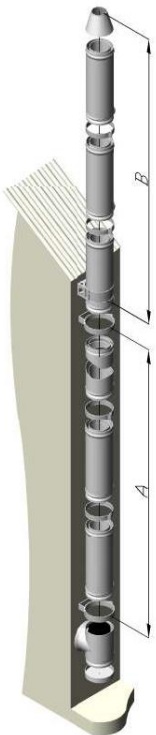
Configuration 3 (flat adjustable supports 831)		
Distance to wall: 70-120 mm		
	Max number of straight elements (020) between supports (Size A)	Max. Length from last support. (m) (Size B)
Material	AISI 304 / 1.4401 or AISI 316L / 1.4404	
80	3	1.5
83	3	1.5
97	3	1.5
100	3	1.5
110	3	1.5
111	3	1.5
120	3	1.5
125	3	1.5
130	3	1.5
139	3	1.5
140	3	1.5
150	3	1.5
153	3	1.5
160	3	1.5
167	3	1.5
175	3	1.5
180	3	1.5
200	3	1.5
230	3	1.5
250	3	1.5
280	3	1.5
300	3	1.5
350	3	1.5
400	3	1
450	3	1
500-800		



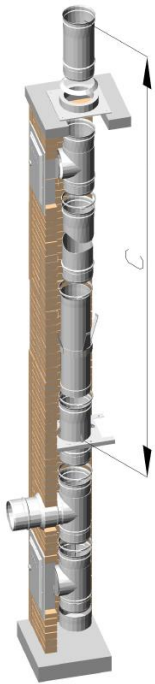
Configuration 4 (flat short cuttable supports 836)		
Distance to wall: 100-250 mm		
	Max number of straight elements (020) between supports (Size A)	Max. Length from last support. (m) (Size B)
Material	AISI 304 / 1.4401 or AISI 316L / 1.4404	
80	3	1.5
83	3	1.5
97	3	1.5
100	3	1.5
110	3	1.5
111	3	1.5
120	3	1.5
125	3	1.5
130	3	1.5
139	3	1.5
140	3	1.5
150	3	1.5
153	3	1.5
160	3	1.5
167	3	1.5
175	3	1.5
180	3	1.5
200	3	1.5
230	3	1.5
250	3	1.5
280	3	1.5
300	3	1.5
350	3	1.5
400	3	1.5
450	3	1.5
500	3	1.5
550	3	1.5
600	3	1.5
650-800		



Configuration 5 (flat long cuttable supports 846)		
Distance to wall: 250-430 mm		
	Max number of straight elements (020) between supports (Size A)	Max. Length from last support. (m) (Size B)
Material	AISI 304 / 1.4401 or AISI 316L / 1.4404	
ND (mm) 80	2	1.5
83	2	1.5
97	2	1.5
100	2	1.5
110	2	1.5
111	2	1.5
120	2	1.5
125	2	1.5
130	2	1.5
139	2	1.5
140	2	1.5
150	2	1.5
153	2	1.5
160	2	1.5
167	2	1.5
175	2	1.5
180	2	1.5
200	2	1.5
230	2	1.5
250	2	1.5
280	2	1.5
300	2	1.5
350	2	1.5
400	2	1.5
450	2	1.5
500	2	1.5
550	2	1.5
600	2	1.5
650-800	2	1.5



Configuration 6 (wall supports 080)		
	Max number of straight elements (020) between supports (Size A)	Max. Length from last support. (m) (Size B)
Material	AISI 304 / 1.4401 or AISI 316L / 1.4404	
ND (mm) 450	3	1.5
500	3	1.5
550	3	1.5
600	3	1.5



COMPRESSION STRENGTH OF THE SUPPORT				
Height (m)				
Model	Adjustable base support closed 853 Size (C)	Adjustable base support extended 853 Size (C)	Adjustable floor support 856	Roof support 082
80	377	203	197	X
83	363	195	190	
97	311	167	162	
100	302	162	157	
110	274	147	143	
111	272	146	142	
120	251	135	131	
125	241	130	126	
130	232	125	121	
139	217	117	113	
140	215	116	112	
150	201	108	105	
153	197	106	103	
160	188	101	98	
167	180	97	94	
175	172	92	90	
180	167	90	87	
200	151	81	78	87
230	131	70	68	81
250	120	65	63	79
280	107	58	56	76
300	100	54	52	73
350	84	58	56	69
400	74	51	49	67
450	66	45	44	61
500	49	34	33	53
550	45	30	30	48
600	41	28	27	43
650	28	19	19	40
700	26	18	17	X
750	24	17	16	
800	23	15	15	

ND (mm)