

DOP-DP-008

1. Unique identification code of the product-type:

Multi 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 DP

1.0 Model 1.4404 / 316L	Ø125-300	T600 N1 D V2 L50040 G60
1.0 Model 1.4404 / 316L	Ø350-450	T600 N1 D V2 L50040 G90
1.0 Model 1.4404 / 316L	Ø500-600	T600 N1 D V2 L50040 G120
1.0 Model 1.4404 / 316L	Ø650-1200	T600 N1 D V2 L50060 G240
2.0 Model 1.4521 / 444	Ø125-300	T600 N1 D V2 L99040 G60
2.0 Model 1.4521 / 444	Ø350-450	T600 N1 D V2 L99040 G90
2.0 Model 1.4521 / 444	Ø500-600	T600 N1 D V2 L99040 G120
2.0 Model 1.4521 / 444	Ø650-1200	T600 N1 D V2 L99060 G240
3.0 Model 1.4162 / S32101	Ø125-600	T200 N1 D V2 L99050 O00
3.0 Model 1.4162 / S32101	Ø650-1200	T200 N1 D V2 L99060 O00
4.0 Model 1.4301 / 304	Ø125-300	T600 N1 D Vm L20040 G60
4.0 Model 1.4301 / 304	Ø350-450	T600 N1 D Vm L20040 G90
4.0 Model 1.4301 / 304	Ø500-600	T600 N1 D Vm L20040 G120
4.0 Model 1.4301 / 304	Ø650-1200	T600 N1 D Vm L20060 G240

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
tlf: +34 986 452 526

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 22 m (See annex) See annex	EN 1856-1:2009
Resistance to fire	Models 1.0, 2.0 and 4.0: Ø80-300: T600 – G60 Ø350-450: T600 – G90 Ø500-600: T600 – G120 Ø650-1200: T600 – G240 Model 3.0: Ø125-600: T200 – O00 Ø650-1200: T200 – O00	EN 1856-1:2009
Gas tightness/leakage	Models 1.0, 2.0, 3.0 and 4.0: N1	EN 1856-1:2009
Flow resistance of chimney sections, fittings and terminals	According to EN 13384-1	EN 1856-1:2009
Thermal resistance	Ø80-300: 0.288 - 0.351 m ² K/W tested at 200°C Ø350-600: 0.442 - 0.459 m ² K/W tested at 200°C Ø650-1200: 0.613 - 0.633 m ² K/W tested at 200°C	EN 1856-1:2009
Thermal shock resistance Soot fire resistance	Models 1.0, 2.0, and 4.0: Yes Model 3.0: No	EN 1856-1:2009
Thermal performance under normal operating conditions	Models 1.0, 2.0, 4.0: T600 Model 3.0: T200	
Flexural tensile strength (only for means of connection for chimney sections and fittings)	Up to 69 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: 2.5 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	Models 1.0, 2.0, 3.0 and 4.0: Yes	EN 1856-1:2009
Condensate penetration resistance	Models 1.0, 2.0, 3.0 and 4.0: No	
Against corrosion	Models 1.0, 2.0 and 3.0: V2 Model 4.0: 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.

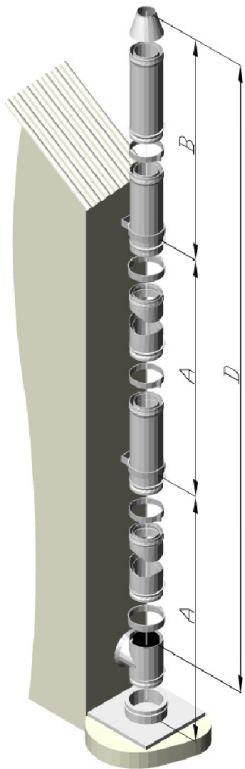
This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Íñigo A. Canoa (General Manager)

Vigo, 1th July 2013

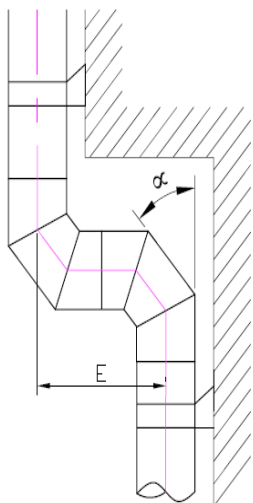
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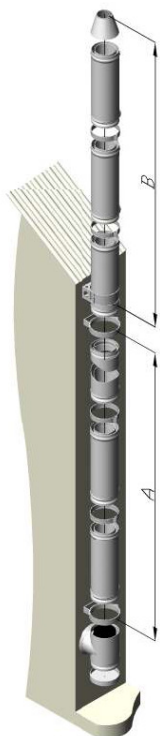
DINAK DP						
COMPRESSIVE STRENGTH*				TENSILE STRENGTH		
MAX. LOAD – Size D (m)				MAX. LOAD (m)		
Outer material	1.4301 / 304 1.4404 / 316L 1.4521 / 444 1.4509 / 441 1.4075 / 430	Galvanized steel	Copper	1.4301 / 304 1.4404 / 316L 1.4521 / 444 1.4509 / 441 1.4075 / 430	Galvanized steel	Copper
125	16	16	11	50	50	NPD**
150	14	14	9	44	44	NPD
175	12	12	8	38	38	NPD
200	11	11	7	34	34	NPD
225	10	10	7	31	31	NPD
250	9	9	6	28	28	NPD
300	7	7	5	24	24	NPD
350	7	7	7	17	17	NPD
400	6	6	6	15	15	NPD
450	5	5	6	14	14	NPD
500	5	5	5	12	12	NPD
550	4	4	5	11	11	NPD
600	4	4	4	10	10	NPD
650	4	X	X	7	X	X
700	4			6		
750	4			6		
800	4			6		
850	4			5		
900	3			5		
950	3			5		
1.000	3			4		
1.100	3			4		
1.200	3			4		

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

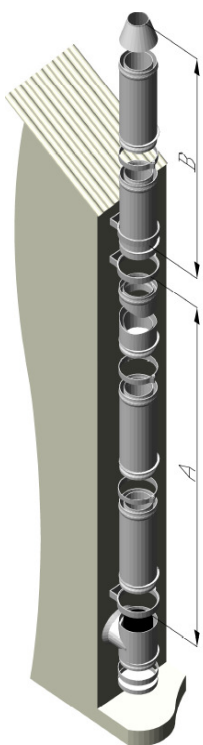
** NPD: No performance determined



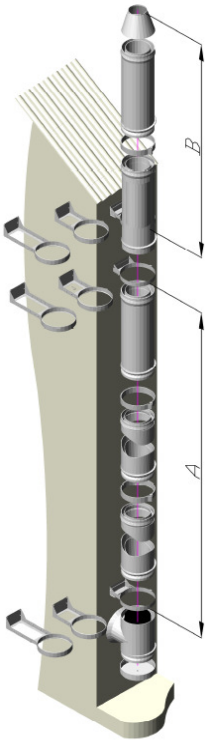
NON VERTICAL INSTALLATION						
MAX. DEFLECTION α (°)				MAX. LENGTH OF THE SLOPE – Size E (m)		
Outer material	1.4301 / 304 1.4404 / 316L 1.4521 / 444 1.4509 / 441 1.4075 / 430	Galvanized steel	Copper	1.4301 / 304 1.4404 / 316L 1.4521 / 444 1.4509 / 441 1.4075 / 430	Galvanized steel	Copper
125	90	90	90	3	3	1
150	90	90	90	3	3	1
175	90	90	90	3	3	1
200	90	90	90	3	3	1
225	90	90	90	3	3	1
250	90	90	90	3	3	1
300	90	90	90	3	3	1
350	90	90	90	3	3	1
400	90	90	90	3	3	1
450	90	90	90	3	3	1
500	90	90	90	3	3	1
550	90	90	90	3	3	1
600	90	90	90	3	3	1
650-1200	90	X	X	1	X	X



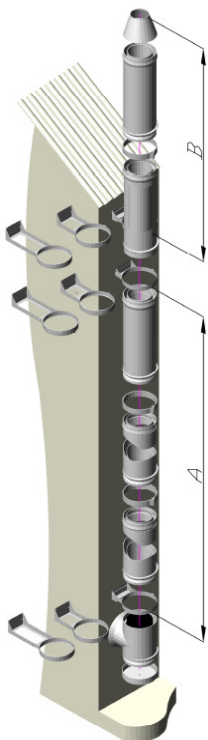
WIND LOAD RESISTANCE							
CONFIGURATION 1: WALL SUPPORTS 080 / SELF-STANDING SUPPORT 861							
	Outer material	Max number of straight elements (020) between supports (Size A)		Max. Length from last support. (m) (Size B)			
		1.4301 / 304 1.4404 / 316L 1.4521 / 444 1.4509 / 441	Galvanized steel 1.4075 / 430	Copper	1.4301 / 304 1.4404 / 316L 1.4521 / 444 1.4509 / 441	Galvanized steel 1.4075 / 430	Copper
ND (mm)	125	4			2,5		
	150	4			2,5		
	175	4			2,5		
	200	4			2,5		
	225	4			2,5		
	250	4			2,5		
	300	4			2,5		
	350	4			2,5		
	400	4			2,5		
	450	4			2,5		
	500	4			2,5		
	550	4			2,5		
	600	4			2,5		
	650	3			2,5		
	700	3			2,5		
	750	3			2,5		
	800	3			2,5		
	850	3			2,5		
	900	3			2,5		
	950	2			2,5		
	1.000	2			2,5		
	1.100	2			2,5		
	1.200	2			2,5		



CONFIGURATION 2: WALL SUPPORTS 080 / FLAT WALL SUPPORT 086							
	Outer material	Max number of straight elements (020) between supports (Size A)		Max. Length from last support. (m) (Size B)			
		1.4301 / 304 1.4404 / 316L 1.4521 / 444 1.4509 / 441	Galvanized steel 1.4075 / 430	Copper	1.4301 / 304 1.4404 / 316L 1.4521 / 444 1.4509 / 441	Galvanized steel 1.4075 / 430	Copper
ND (mm)	125	4		3	2,4		1,5
	150	4		3	2,4		1,5
	175	4		3	2,4		1,5
	200	4		3	2,4		1,5
	225	4		3	2,4		1,5
	250	4		3	2,4		1,5
	300	4		3	2,4		1,5
	350	4		3	1,5		1,5
	400	4		3	1,5		1,5
	450	4		3	1,5		1,5
	500	4		3	1,5		1,5
	550	4		3	1,5		1,5
	600	4		3	1,5		1,5
	650-900	3			1,5		
	950-1200	2			1,5		



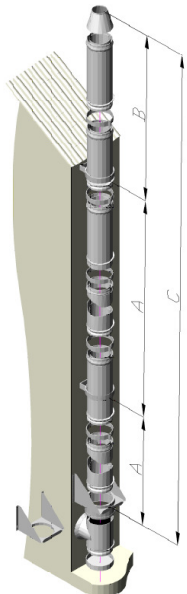
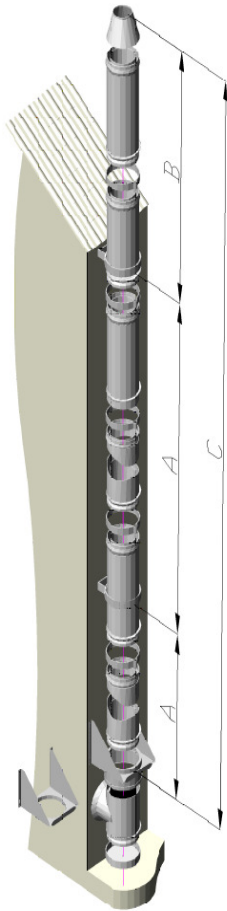
CONFIGURATION 3: ADJUSTABLE WALL SUPPORTS 083 / FLAT ADJ. WALL SUPPORTS 831							
Distance to wall (083/831) : 70-120 mm							
Max number of straight elements (020) between supports (Size A)				Max. Length from last support. (m) (Size B)			
Outer material	1.4301 / 304 1.4404 / 316L 1.4521 / 444 1.4509 / 441	Galvanized steel 1.4075 / 430	Copper	1.4301 / 304 1.4404 / 316L 1.4521 / 444 1.4509 / 441	Galvanized steel 1.4075 / 430	Copper	
ND (mm)	125	3		3	1,5		1,5
	150	3		3	1,5		1,5
	175	3		3	1,5		1,5
	200	3		3	1,5		1,5
	225	3		3	1,5		1,5
	250	3		3	1,5		1,5
	300	3		3	1,5		1,5
	350						
	400						
	450						
	500						
	550						
	600						
	650						
	700						
	750						
	800						
	850						
	900						
	950						
	1.000						
	1.100						
	1.200						



CONFIGURATION 4: SHORT CUTTABLE WALL SUPPORTS 835 / FLAT SHORT CUTTABLE WALL SUPPORTS 836							
Distance to wall (835/836) : 100-250 mm							
Max number of straight elements (020) between supports (Size A)				Max. Length from last support. (m) (Size B)			
Outer material	1.4301 / 304 1.4404 / 316L 1.4521 / 444 1.4509 / 441	Galvanized steel 1.4075 / 430	Copper	1.4301 / 304 1.4404 / 316L 1.4521 / 444 1.4509 / 441	Galvanized steel 1.4075 / 430	Copper	
ND (mm)	125	3		1,5		1,5	
	150	3		1,5		1,5	
	175	3		1,5		1,5	
	200	3		1,5		1,5	
	225	3		1,5		1,5	
	250	3		1,5		1,5	
	300	3		1,5		1,5	
	350	3		1,5		1,5	
	400	3		1,5		1,5	
	450	3		1,5		1,5	
	500	3		1,5		1,5	
	550	3		1,5		1,5	
	600	3		1,5		1,5	
	650-1200						

CONFIGURATION 5: LONG CUTTABLE WALL SUPPORTS 845 / FLAT LONG CUTTABLE WALL SUPPORTS 846						
Distance to wall (845/846) : 250-430 mm						
Max number of straight elements (020) between supports (Size A)				Max. Length from last support. (m) (Size B)		
Outer material	1.4301 /304 1.4404 / 316L 1.4521 / 444 1.4509 / 441	Galvanized steel 1.4075 / 430	Copper	1.4301 /304 1.4404 / 316L 1.4521 / 444 1.4509 / 441	Galvanized steel 1.4075 / 430	Copper
ND (mm)	125	2		1,5		1,5
	150	2		1,5		1,5
	175	2		1,5		1,5
	200	2		1,5		1,5
	225	2		1,5		1,5
	250	2		1,5		1,5
	300	2		1,5		1,5
	350	2		1,5		1,5
	400	2		1,5		1,5
	450	2		1,5		1,5
	500	2		1,5		1,5
	550	2		1,5		1,5
	600	2	1,5	1,5		
	650					
	700					
	750					
	800					
	850					
	900					
	950					
	1.000					
	1.100					
	1.200					

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		DINAK DP					
		COMPRESSIVE STRENGTH OF THE SUPPORT*					
		MAX. LOAD (m)					
Outer material	1.4301 / 304 ; 1.4404 / 316L 1.4521 / 444; 1.4509 / 441 1.4075 / 430; Galvanized steel						
Model	Adjustable base support closed 085/853 Size (C)	Adjustable base support extended 085/853 Size (C)	Adjustable floor support 856*	Roof support 082	Roof support 082 Galvanized	Joist floor support 903	
ND (mm)	125	63	34	33	25	18	30
	150	55	29	28	22	16	26
	175	48	26	25	19	14	23
	200	43	23	22	17	12	21
	225	39	21	20	15	11	19
	250	36	19	18	14	10	17
	300	30	16	16	12	8	14
	350	27	18	18			
	400	24	16	16			
	450	21	15	14			
	500	19	13	13			
	550	18	12	12			
	600	16	11	11			
	650						
	700						
	750						
	800						
	850						
	900						
	950						
1.000							
1.100							
1.200							

MAX. LOAD (m)		
Outer material	Copper	
Model	Adjustable base support closed 085/853 Size (C)	Adjustable base support extended 085/853 Size (C)
125	55	29
150	48	25
175	42	22
200	38	20
225	34	18
250	31	17
300	27	14
350	26	18
400	23	16
450	21	14
500	19	13
550	17	12
600	16	11

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