

DOP-DW-001

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 DW

1.0 Model 1.4404 / 316L	Ø 80-300	T600 N1 D V2 L50040 G60
1.0 Model 1.4404 / 316L	Ø 350-450	T600 N1 D V2 L50040 G90
1.0 Model 1.4404 / 316L	Ø 500-600	T600 N1 D V2 L50040 G120
1.0 Model 1.4404 / 316L	Ø 650-1200	T600 N1 D V2 L50060 G240
1.1 Model 1.4404 / 316L with Fireshield	Ø 80-300	T450 N1 D V2 L50040 G60
1.1 Model 1.4404 / 316L with Fireshield	Ø 350-450	T450 N1 D V2 L50040 G90
1.1 Model 1.4404 / 316L with Fireshield	Ø 500-600	T450 N1 D V2 L50040 G120
1.1 Model 1.4404 / 316L with Fireshield	Ø 650-1200	T450 N1 D V2 L50060 G240
1.2 Model 1.4404 / 316L with seal	Ø 80-300	T200 P1 W V2 L50040 O00
1.2 Model 1.4404 / 316L with seal	Ø 350-600	T200 P1 W V2 L50040 O00
1.2 Model 1.4404 / 316L with seal	Ø 650-1200	T200 N1 W V2 L50060 O00
2.0 Model 1.4521 / 444	Ø 80-300	T600 N1 D V2 L99040 G60
2.0 Model 1.4521 / 444	Ø 350-450	T600 N1 D V2 L99040 G90
2.0 Model 1.4521 / 444	Ø 500-600	T600 N1 D V2 L99040 G120
2.0 Model 1.4521 / 444	Ø 650-1200	T600 N1 D V2 L99060 G240
2.1 Model 1.4521 / 444 with Fireshield	Ø 80-300	T450 N1 D V2 L99040 G60
2.1 Model 1.4521 / 444 with Fireshield	Ø 350-450	T450 N1 D V2 L99040 G90
2.1 Model 1.4521 / 444 with Fireshield	Ø 500-600	T450 N1 D V2 L99040 G120
2.1 Model 1.4521 / 444 with Fireshield	Ø 650-1200	T450 N1 D V2 L99060 G240
2.2 Model 1.4521 / 444 with seal	Ø 80-300	T200 P1 W V2 L99040 O00
2.2 Model 1.4521 / 444 with seal	Ø 350-600	T200 P1 W V2 L99040 O00
2.2 Model 1.4521 / 444 with seal	Ø 650-1200	T200 N1 W V2 L99060 O00
3.0 Model 1.4162 / S32101	Ø 80-600	T200 P1 W V2 L99050 O00
3.0 Model 1.4162 / S32101	Ø 650-1200	T200 N1 W V2 L99060 O00
4.0 Model 1.4301 / 304	Ø 80-300	T600 N1 D Vm L20040 G60
4.0 Model 1.4301 / 304	Ø 350-450	T600 N1 D Vm L20040 G90
4.0 Model 1.4301 / 304	Ø 500-600	T600 N1 D Vm L20040 G120
4.0 Model 1.4301 / 304	Ø 650-1200	T600 N1 D Vm L20060 G240
4.1 Model 1.4301 / 304 with Fireshield	Ø 80-300	T450 N1 D Vm L20040 G60
4.1 Model 1.4301 / 304 with Fireshield	Ø 350-450	T450 N1 D Vm L20040 G90
4.1 Model 1.4301 / 304 with Fireshield	Ø 500-600	T450 N1 D Vm L20040 G120
4.1 Model 1.4301 / 304 with Fireshield	Ø 650-1200	T450 N1 D Vm L20060 G240
4.2 Model 1.4301 / 304 with seal	Ø 80-300	T200 P1 W Vm L20040 O00
4.2 Model 1.4301 / 304 with seal	Ø 350-600	T200 P1 W Vm L20040 O00
4.2 Model 1.4301 / 304 with seal	Ø 650-1200	T200 N1 W Vm L20060 O00

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

DOP-DW-001

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 21 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 Models 1.1, 2.1 and 4.1: Ø80-300: T450 – G60 Ø350-450: T450 – G90 Ø500-600: T450 – G120 Ø650-1200: T450 – G240 Models 1.2, 2.2, 3.0 and 4.2: T200 – O00	EN 1856-1:2009
Gas tightness/leakage	Models 1.0, 1.1, 2.0, 2.1, 4.0, 4.1: N1 Models 1.2, 2.2, 3.0, 4.2: Ø80-300: P1 Ø350-600: P1 Ø650-1200: 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: 0.286 - 0.351 m ² K/W tested at 200°C Ø350-600: 0.360 - 0.372 m ² K/W tested at 200°C Ø650-1200: 0.373 - 0.381 m ² K/W tested at 200°C	EN 1856-1:2009
Thermal shock resistance Soot fire resistance	Models 1.0, 1.1, 2.0, 2.1, 4.0, 4.1: Yes Models 1.2, 2.2, 3.0, 4.2: No	EN 1856-1:2009

DOP-DW-001

Thermal performance under normal operating conditions	Models 1.0, 2.0, 4.0: T600 Models 1.1, 2.1, 4.1: T450 Models 1.2, 2.2, 3.0, 4.2: T200	
Flexural tensile strength (only for means of connection for chimney sections and fittings)	Up to 68 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		EN 1856-1:2009
Water and vapour diffusion resistance	Models 1.0, 1.1, 2.0, 2.1, 4.0, 4.1: Yes Models 1.2, 2.2, 3.0, 4.2: Yes	
Condensate penetration resistance	Models 1.0, 1.1, 2.0, 2.1, 4.0, 4.1: No Models 1.2, 2.2, 3.0, 4.2: Yes	
Against corrosion	Models 1.0, 1.1, 1.2: V2 Models 2.0, 2.1, 2.2; V2 Model 3.0: V2 Models 4.0, 4.1, 4.2: 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.

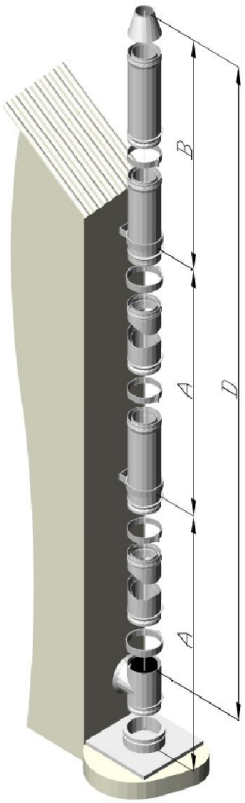
This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Íñigo A. Canoa (General Manager)

Vigo, 1st October 2015

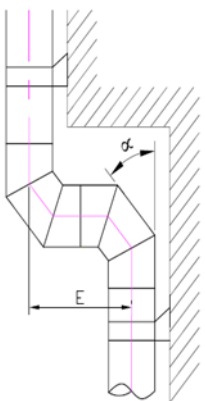
DOP-DW-001



DINAK DW							
COMPRESSIVE STRENGTH*				TENSILE STRENGTH			
Height – Size D (m)				Height (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	
ND (mm)	80	21	21	15	68	68	PND**
	100	18	18	13	58	58	PND
	130	15	15	10	48	48	PND
	150	13	13	9	43	43	PND
	160	13	13	9	41	41	PND
	180	11	11	8	37	37	PND
	200	10	10	7	34	34	PND
	250	9	9	6	28	28	PND
	300	7	7	5	24	24	PND
	350	8	8	8	19	19	PND
	400	7	7	7	17	17	PND
	450	6	6	6	15	15	PND
	500	5	5	5	13	13	PND
	550	5	5	5	12	12	PND
	600	4	4	5	11	11	PND
	650	5			7		
	700	4			6		
	750	4			6		
	800	4			5		
	850	3			5		
900	3			5			
950	4			5			
1000	4			4			
1100	3			4			
1200	3			4			

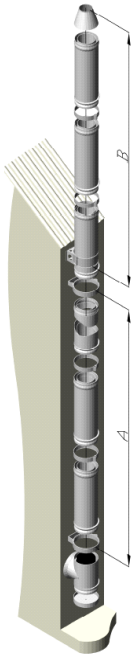
* In case a higher resistance is required, check with Dinak the possibility of installing a reinforced Tee

** NPD: No performance determined

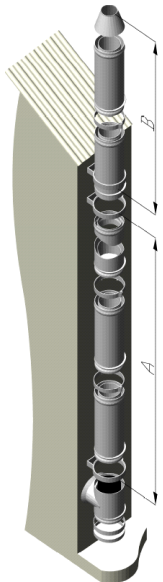


NON VERTICAL INSTALLATION							
MAX. DEFLECTION α (°)				MAX. LENGTH OF THE SLOPE – Size E (m)			
Outer material	1.4301 / 304 1.4404 / 316L 1.4521 / 444 1.4509 / 441 1.4075 / 430	Galvanized steel	Copper	1.4301 / 304 1.4404 / 316L 1.4521 / 444 1.4509 / 441 1.4075 / 430	Galvanized steel	Copper	
ND (mm)	80	90	90	90	3	3	1
	100	90	90	90	3	3	1
	130	90	90	90	3	3	1
	150	90	90	90	3	3	1
	160	90	90	90	3	3	1
	180	90	90	90	3	3	1
	200	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			1		

DOP-DW-001

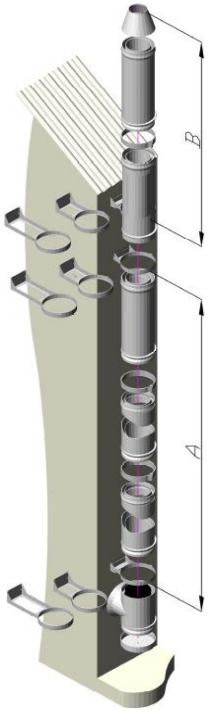


CONFIGURATION 1: WALL SUPPORTS 080 / KIT 3 m free supporting 86T						
		Max number of straight elements (020) between supports (Size A)			Max. Length from last support. (m) (Size B)	
Outer material	1.4301 / 304 1.4404 / 316L 1.4521 / 444 1.4509 / 441	Galvanized steel 1.4075 / 430	Copper	1.4301 / 304 1.4404 / 316L 1.4521 / 444 1.4509 / 441	Galvanized steel 1.4075 / 430	Copper
ND (mm)	80	4		3		
	100	4		3		
	130	4		3		
	150	4		3		
	160	4		3		
	180	4		3		
	200	4		3		
	250	4		3		
	300	4		3		
	350	4		3		
	400	4		3		
	450	4		3		
	500	4		3		
	550	4		3		
	600	4		3		
	650-900	3				
950-1200	2					

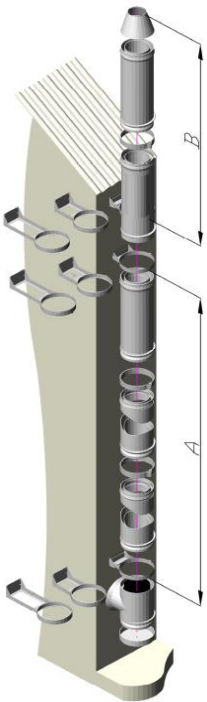


CONFIGURATION 2: WALL SUPPORTS 080 / FLAT WALL SUPPORT 086						
		Max number of straight elements (020) between supports (Size A)			Max. Length from last support. (m) (Size B)	
Outer material	1.4301 / 304 1.4404 / 316L 1.4521 / 444 1.4509 / 441	Galvanized steel 1.4075 / 430	Copper	1.4301 / 304 1.4404 / 316L 1.4521 / 444 1.4509 / 441	Galvanized steel 1.4075 / 430	Copper
ND (mm)	80	4		3	2.4	1.5
	100	4		3	2.4	1.5
	130	4		3	2.4	1.5
	150	4		3	2.4	1.5
	160	4		3	2.4	1.5
	180	4		3	2.4	1.5
	200	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		

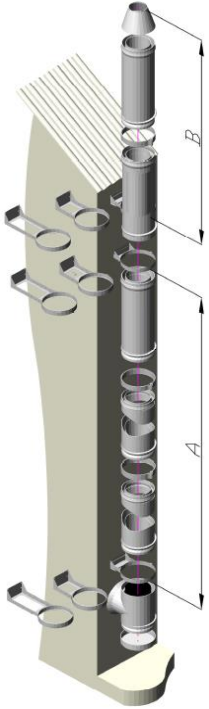
DOP-DW-001



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)	80	3		1,5		1,5
	100	3		1,5		1,5
	130	3		1,5		1,5
	150	3		1,5		1,5
	160	3		1,5		1,5
	180	3		1,5		1,5
	200	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		1,5
	450-1200					



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)	80	3		1,5		
	100	3		1,5		
	130	3		1,5		
	150	3		1,5		
	160	3		1,5		
	180	3		1,5		
	200	3		1,5		
	250	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		
	650-1200					

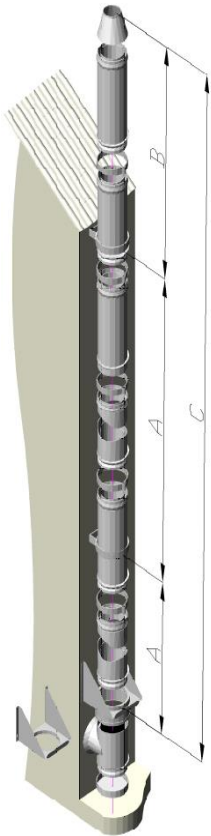


CONFIGURATION 5: LONG CUTTABLE WALL SUPPORTS 845 / FLAT LONG CUTTABLE WALL SUPPORTS 846

Distance to wall (845/846) : 250-430 mm

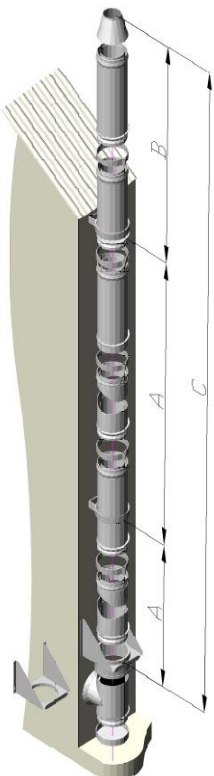
	Max number of straight elements (Ø20) between supports (Size A)			Max. Length from last support. (m) (Size B)			
	Outer material	1.4301 /304 1.4404 / 316L 1.4521 / 444 1.4509 / 441	Galvanized steel 1.4075 / 430	Copper	1.4301 /304 1.4404 / 316L 1.4521 / 444 1.4509 / 441	Galvanized steel 1.4075 / 430	Copper
ND (mm)	80	2			1,5		
	100	2			1,5		
	130	2			1,5		
	150	2			1,5		
	160	2			1,5		
	180	2			1,5		
	200	2			1,5		
	250	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		
650-1200							

DOP-DW-001



DINAK DW							
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)	80	85	46	44	35	25	42
	100	73	39	38	30	21	36
	130	60	32	31	24	18	29
	150	53	29	28	22	16	26
	160	51	27	26	21	15	25
	180	46	25	24	19	13	22
	200	42	22	22	17	12	21
	250	35	19	18	14	10	17
	300	30	16	15	12	8	14
	350	29	20	19			
	400	26	18	17			
	450	23	16	15			
	500	21	14	14			
	550	19	13	13			
	600	18	12	12			
	650-1200						

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



MAX. LOAD (m)						
Outer material	Copper					
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)	80	74	40	38		
	100	63	34	33		
	130	52	28	27		
	150	47	25	24		
	160	44	24	23		
	180	40	21	21		
	200	37	20	19		
	250	31	16	16		
	300	26	14	13		
	350	28	19	19		
	400	25	17	16		
	450	22	15	15		
	500	20	14	13		
	550	18	12	12		
	600	17	11	11		
	650-1200					

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