



DICHIARAZIONE DI CONFORMITÀ Y DESCRIZIONE DEL PRODOTTO

EN 1856-1

Camini – Requisiti per camini metallici. Parte 1: Prodotti per sistemi camino

Costruttore:	DINAK Camiño do Laranxo, 19. 36216, VIGO (ESPAÑA)
Denominazione commerciale del prodotto:	SW
Descrizione del prodotto	Canna metallica semplice parete
Nome e qualifica della persona responsabile:	Íñigo A. Canoa (Direttore Generale)
Ente:	TÜV Industrie Service GmbH TÜV SÜD Gruppe 0036 CPD 90220 004
Certificato Numero	



Designazioni secondo la norma EN 1856-1:

0.1	Canna metallica con guarnizione	EN 1856-1	T200	P1	W	V2-L50040	O(50)	Resistenza a compressione Fino a 72 m. Vedi allegato
0.2	Canna metallica	EN 1856-1	T250	N1	W	V2-L50040	O(50)	Resistenza al flusso Valore di rugosità media: 1 mm (secondo la norma EN 13384-1) Coefficienti di resistenza al flusso ζ secondo la norma EN 13384-1
	Descrizione prodotto							
	Norma di riferimento							Resistenza termica 0 m ² K / W alla temperatura di riferimento
	Livello di temperatura							Resistenza meccanica e stabilità Resistenza a trazione: Fino a 138 m. Vedi allegato Installazione non verticale: Massima inclinazione 90° e distanza massima tra staffe murali fino a 3 m.
	Livello di pressione							Resistenza al vento: Distanza massima tra staffe murali fino a 4 m; Altezza libera dal ultima staffa fino a 2,5 m secondo modello. Vedi allegato
	Resistenza alla condensa (W: umido; D: secco)							Condizioni di lavoro in umidità: Sì
	Resistenza alla corrosione e specifiche della parete interna							
	Resistenza al fuoco dall'interno (G: sì; O: no) e distanza da materiali combustibili (in mm)							



DICHIARAZIONE DI CONFORMITÀ Y DESCRIZIONE DEL PRODOTTO

EN 1856-1

Camini – Requisiti per camini metallici. Parte 1: Prodotti per sistemi camino

Costruttore: **DINAK**
 Camiño do Laranxo, 19. 36216, VIGO (ESPAÑA)
 Denominazione commerciale del prodotto: **SW**
 Descrizione del prodotto: Canna metallica semplice parete
 Nome e qualifica della persona responsabile: Íñigo A. Canoa (Direttore Generale)
 Ente: **TÜV Industrie Service GmbH TÜV SÜD Gruppe**
 Certificato Numero: **0036 CPD 90220 004**

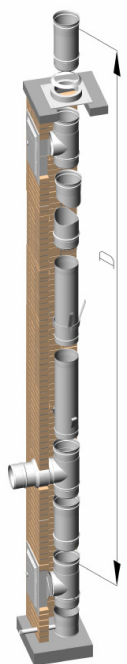


Designazioni secondo la norma EN 1856-1:

Designazione	EN 1856-1	T	P	W	Vm-L	O	Resistenza a compressione
0.1 Canna metallica con guarnizione	EN 1856-1	T200	P1	W	Vm-L20040	O(50)	Fino a 72 m. Vedi allegato
0.2 Canna metallica	EN 1856-1	T250	N1	W	Vm-L20040	O(50)	Resistenza al flusso Valore di rugosità media: 1 mm (secondo la norma EN 13384-1) Coefficienti di resistenza al flusso ζ secondo la norma EN 13384-1 Resistenza termica 0 m ² K / W alla temperatura di riferimento Resistenza meccanica e stabilità Resistenza a trazione: Fino a 138 m. Vedi allegato Installazione non verticale: Massima inclinazione 90° e distanza massima tra staffe murali fino a 3 m. Resistenza al vento: Distanza massima tra staffe murali fino a 4 m; Altezza libera dal ultima staffa fino a 3 m secondo modello. Vedi allegato Condizioni di lavoro in umidità: Sì
Descrizione prodotto							
Norma di riferimento							
Livello di temperatura							
Livello di pressione							
Resistenza alla condensa (W: umido; D: secco)							
Resistenza alla corrosione e specifiche della parete interna							
Resistenza al fuoco dall'interno (G: sì; O: no) e distanza da materiali combustibili (in mm)							

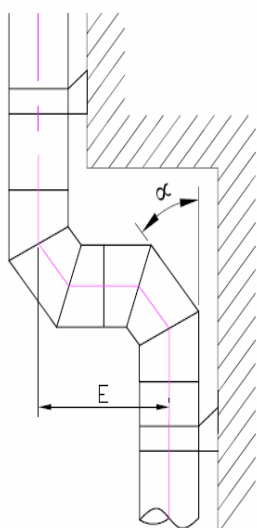
	Caratteristiche	Unità	Rif. EN 1856-1	Valori	Osservazioni
1.0	Dimensioni nominali	mm	4, 5	80, 83, 97, 100, 110, 111, 120, 125, 130, 139, 140, 150, 153, 160, 167, 175, 180, 200, 230, 250, 280, 300, 350, 400, 450, 500, 550, 600	
2.0	Diametro interno (mínimo)	mm	4, 5	78,4; 81,4; 95,4; 98,4; 108,4; 108,4; 118,4; 123,4; 128,4; 137,4; 138,4; 148,4; 151,4; 158,4; 165,4; 173,4; 178,4; 198,4; 228,4; 248,4; 278,4; 298,4; 348,2; 398,2; 448,2; 498,0; 548,0; 598,0	
3.0	Materiale parete interna		4, 5, 6.5.2		
	Tipo			AISI 316L / 1.4404	AISI 304 / 1.4401
	Spessore nominale (spessore minimo)	mm		DN 80-300: 0,4 (0,34) DN 350-450: 0,5 (0,44) DN 500-600: 0,6 (0,54)	DN 80-300: 0,4 (0,34) DN 350-450: 0,5 (0,44) DN 500-600: 0,6 (0,54)
	Descrizione secondo la norma EN 1856-1			DN 80-300: L50040 DN 350-450: L50050 DN 500-600: L50060	DN 80-300: L20040 DN 350-450: L20050 DN 500-600: L20060
4.0	Materiale parete esterna		4, 5, 6.5.2	Nessuno	
5.0	Materiale isolante		7.2	Nessuno	
6.0	Guarnizione		7.2		IE: IMQ-01SG00017
	Designazioni secondo la norma EN 14241-1			EN 14241-1 T200 W 2 K2 I	
	Durezza	ShA		55-60	
	Densità	g/cm ³		1.20 ± 0.1	
	Deformazione residua	%		≤ 25	
	Resistenza a trazione	N/mm ²		≥ 4.5	
	Carico al 100% di allungamento	N/mm ²		≥ 1.2	
	Dimensioni nominali			80, 83, 97, 100, 110, 111, 120, 125, 130, 139, 140, 150, 153, 160, 167, 175, 180, 200, 230, 250, 280, 300, 350, 400, 450, 500, 550, 600	
	Resistenza mecaniza e stabilità		6.1		IE: TÜV-A 1445-00/05
7.0	Resistenza a compressione		6.1.1	Fino a 72 m.	Vedi allegato
8.0	Resistenza a trazione		6.1.2	Fino a 138 m.	Vedi allegato
9.0	Resistenza al vento		6.1.3.2	Altezza libera dall'ultima staffa fino a 3 m. Distanza massima tra staffe murali fino a 4 m.	Vedi allegato
	Installazione non verticale		6.1.3.1		IE: TÜV-A 1445-00/05
10.0	Massima inclinazione			90° (impianto orizzontale)	Vedi allegato
11.0	Distanza massima tra staffe.			Fino a 3 m.	Vedi allegato
12.1	Tenuta ai gas		6.3	Livello di pressione: P1	IE: TÜV-A 1428-00/05
12.2	Tenuta ai gas		6.3	Livello di pressione: N1	IE: TÜV-A 1428-00/05
13.1	Distanza da materiali combustibili a T200	mm	6.2	50 (O50)	IE: TÜV-A 1428-00/05

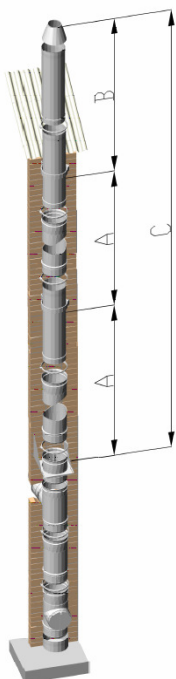
	Caratteristiche	Unità	Rif. EN 1856-1	Valori		Osservazioni
13.2	Distanza da materiali combustibili a T250	mm	6.2	50 (O50)		IE: TÜV-A 1428-00/05
14.0	Contatto accidentale		6.4.2	Protezione della zona soggetta al possibile contatto		IE: TÜV-A 1428-00/05
15.0	Resistenza termica	m ² K / W	6.4.3	0		IE: TÜV-A 1428-00/05
16.0	Resistenza alla condensa		6.4.4, 6.4.5	Designazione: W (umido)		IE: TÜV-A 1428-00/05
17.0	Resistenza alla penetrazione d'acqua piovana		6.4.6	Non applicabile (non isolata)		
	Resistenza al flusso		6.4.7			
18.0	Valore di rugosità media	mm	6.4.7.1	1 (secondo la norma EN 13384-1)		
19.0	Coefficienti di resistenza al flusso dei elementi		6.4.7.2	Valori secondo la norma EN 13384-1		
	Terminali					
20.0	Coefficienti di resistenza al flusso		6.4.7.3	Valori secondo la norma EN 13384-1		
21.0	Protezione contro l'acqua piovana		6.4.8.1	PND		
22.0	Comportamento aerodinamico		6.4.8.2	PND		
23.0	Resistenza alla corrosione (parete interna)		6.5.1	AISI 316L / 1.4404 V2	AISI 304 / 1.4401 Vm	IE: TÜV-A 1439-00/05
24.0	Resistenza al gelo / disgelo		6.5.3	La canna è resistente al gelo / disgelo		
25.0	Sostanze dannose		7.2	Nessuna		
26.0	Schemi d'installazione tipici		7.2			Vedi allegato
27.0	Istruzioni d'installazine dei componenti del sistema		7.2			Vedi allegato
28.0	Direzione fumi		7.2	Instalazione con maschio esterno verso alto		
29.0	Istruzioni d'immagazzinamento		7.2	Atmosfera non corrosiva		
30.0	Istruzioni per l'applicazione di eventuali sigillanti		7.2	Nessuno		



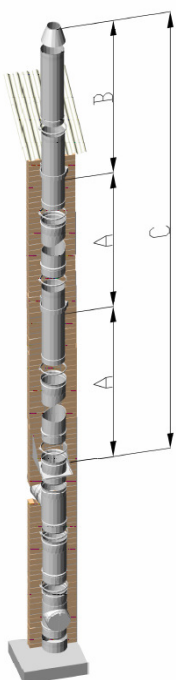
Materiale	RESISTENZA A COMPRESIONE	RESISTENZA A TRAZIONE
	CARICO MASSIMO D (m)	CARICO MASSIMO (m)
	AISI 304 / 1.4401 o AISI 316L / 1.4404	
80	72	138
83	70	133
97	60	114
100	58	111
110	53	101
111	52	100
120	48	92
125	46	88
130	45	85
139	42	79
140	41	79
150	39	74
153	38	72
160	36	69
167	35	66
175	33	63
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

Materiale	INSTALLAZIONE NON VERTICALE	
	MASSIMA INCLINAZIONE α (°)	DISTANZIA MASSIMA TRA STAFFE E (m)
	AISI 304 / 1.4401 o 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

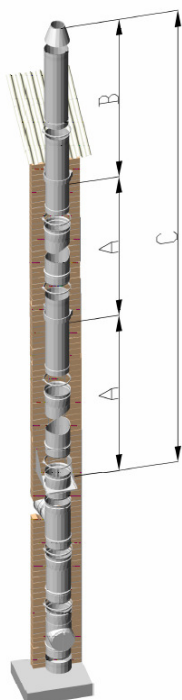




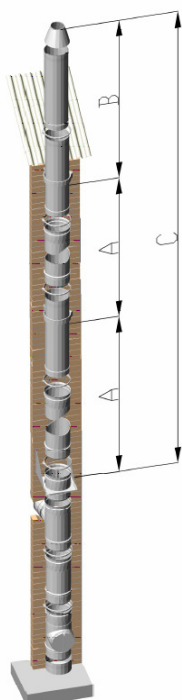
RESISTENZA AL VENTO				
CONFIGURAZIONE 1: STAFFA A PARETE PIATTA 086 / STAFFA AUTOPORTANTE 861				
Materiale	DISTANZIA MASSIMA TRA STAFFE MURALI A (m)		ALTEZZA LIBERA DALL'ULTIMA STAFFA B (m)	
	AISI 304 / 1.4401	AISI 316L / 1.4404	AISI 304 / 1.4401	AISI 316L / 1.4404
80	X			
83				
97				
100				
110				
111				
120				
125				
130				
139				
140				
150				
153				
160				
167				
175				
180				
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



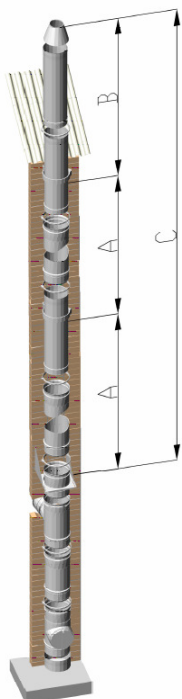
CONFIGURAZIONE 2: STAFFA A PARETE PIATTA 086			
Materiale	DISTANZIA MASSIMA TRA STAFFE MURALI A (m)		ALTEZZA LIBERA DALL'ULTIMA STAFFA B (m)
	AISI 304 / 1.4401 o AISI 316L / 1.4404		
80	4		1.5
83	4		1.5
97	4		1.5
100	4		1.5
110	4		1.5
111	4		1.5
120	4		1.5
125	4		1.5
130	4		1.5
139	4		1.5
140	4		1.5
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



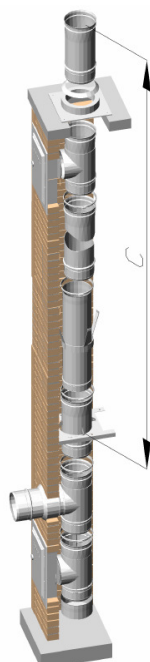
CONFIGURAZIONE 3: FASCETTA TELESCOPICA PIATTA 831		
Distanza a parete (831) : 70-120 mm		
	DISTANZIA MÁSSIMA TRA STAFFE MURALI A (m)	ALTEZZA LIBERA DALL'ULTIMA STAFFA B (m)
Materiale	AISI 304 / 1.4401 o AISI 316L / 1.4404	
80	3	1.5
83	3	1.5
97	3	1.5
100	3	1.5
110	3	1.5
111	3	1.5
120	3	1.5
125	3	1.5
130	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
400-600		



CONFIGURAZIONE 4: SUPPORTO PIATTO CORTO TAGLIABILE 836		
Distanza a parete (836) : 100-250 mm		
	DISTANZIA MÁSSIMA TRA STAFFE MURALI A (m)	ALTEZZA LIBERA DALL'ULTIMA STAFFA B (m)
Materiale	AISI 304 / 1.4401 o 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



CONFIGURAZIONE 5: SUPPORTO PIATTO LUNGO TAGLIABILE 846		
Distanza a parete (846) : 250-430 mm		
DISTANZIA MASSIMA TRA STAFFE MURALI A (m)		ALTEZZA LIBERA DALL'ULTIMA STAFFA B (m)
AISI 304 / 1.4401 o AISI 316L / 1.4404		
Materiale		
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



RESISTENZA ALLA COMPRESIONE DELLA STAFFA			
CARICO MASSIMO (m)			
Modello	Staffa murale regolabile chiusa C 085/853	Staffa murale regolabile allungata C 085/853	Mensola telescopica a pavimento 856
80	377	203	197
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
230	131	70	68
250	120	65	63
280	107	58	56
300	100	54	52
350	84	58	56
400	74	51	49
450	66	45	44
500	49	34	33
550	45	30	30
600	41	28	27



DICHIARAZIONE DI CONFORMITÀ Y DESCRIZIONE DEL PRODOTTO

EN 1856-2

Camini - Requisiti per camini metallici - Parte 2: Condotti interni e canali da fumo metallici

Costruttore:	DINAK Camiño do Laranxo, 19. 36216, VIGO (ESPAÑA)
Denominazione commerciale del prodotto:	SW
Descrizione del prodotto	Canna metallica semplice parete
Nome e qualifica della persona responsabile:	Íñigo A. Canoa (Direttore Generale)
Ente:	TÜV Industrie Service GmbH TÜV SÜD Gruppe 0036 CPD 90220 020
Certificato Numero	



Designazioni secondo la norma EN 1856-2:

0.1	Canna metallica con guarnizione	EN 1856-2	T200	P1	W	V2-L50040	O	Resistenza a compressione Fino a 72 m. Vedi allegato
0.2	Canna metallica	EN 1856-2	T600	N1	W	V2-L50040	G	Resistenza al flusso Valore di rugosità media: 1 mm (secondo la norma EN 13384-1) Coefficienti di resistenza al flusso ζ secondo la norma EN 13384-1
	Descrizione prodotto							
	Norma di riferimento							
	Livello di temperatura							Resistenza termica 0 m ² K / W alla temperatura di riferimento
	Livello di pressione							Resistenza meccanica e stabilità Resistenza a trazione: Fino a 138 m. Vedi allegato Installazione non verticale: Massima inclinazione 90° e distanza massima tra staffe murali fino a 3 m.
	Resistenza alla condensa (W: umido; D: secco)							Condizioni di lavoro in umidità: Si
	Resistenza alla corrosione e specifiche della parete interna							
	Resistenza al fuoco dall'interno (G: si; O: no) e distanza da materiali combustibili (in mm)							



DICHIARAZIONE DI CONFORMITÀ Y DESCRIZIONE DEL PRODOTTO

EN 1856-2

Camini - Requisiti per camini metallici - Parte 2: Condotti interni e canali da fumo metallici

Construttore:	DINAK Camiño do Laranxo, 19. 36216, VIGO (ESPAÑA)
Denominazione commerciale del prodotto:	SW
Descrizione del prodotto	Canna metallica semplice parete
Nome e qualifica della persona responsabile:	Íñigo A. Canoa (Direttore Generale)
Ente:	TÜV Industrie Service GmbH TÜV SÜD Gruppe
Certificato Numero	0036 CPD 90220 020

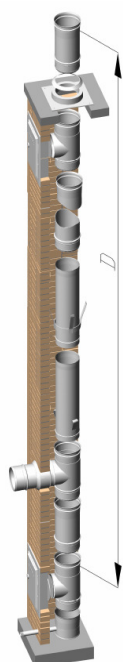


Designazioni secondo la norma EN 1856-2:

0.1	Canna metallica con guarnizione	EN 1856-2	T200	P1	W	Vm-L20040	O	Resistenza a compressione Fino a 72 m. Vedi allegato
0.2	Canna metallica	EN 1856-2	T600	N1	W	Vm-L20040	G	Resistenza al flusso Valore di rugosità media: 1 mm (secondo la norma EN 13384-1) Coefficienti di resistenza al flusso ζ secondo la norma EN 13384-1
	Descrizione prodotto							
	Norma di riferimento							Resistenza termica 0 m ² K / W alla temperatura di riferimento
	Livello di temperatura							Resistenza meccanica e stabilità Resistenza a trazione: Fino a 138 m. Vedi allegato Installazione non verticale: Massima inclinazione 90° e distanza massima tra staffe murali fino a 3 m.
	Livello di pressione							
	Resistenza alla condensa (W: umido; D: secco)							Condizioni di lavoro in umidità: Si
	Resistenza alla corrosione e specifiche della parete interna							
	Resistenza al fuoco dall'interno (G: si; O: no) e distanza da materiali combustibili (in mm)							

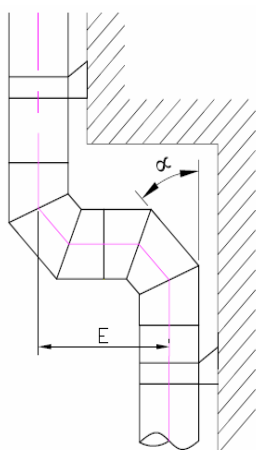
	Caratteristiche	Unità	Rif. EN 1856-2	Valori	Osservazioni
1.0	Dimensioni nominali	mm	4, 5	80, 83, 97, 100, 110, 111, 120, 125, 130, 139, 140, 150, 153, 160, 167, 175, 180, 200, 230, 250, 280, 300, 350, 400, 450, 500, 550, 600	
2.0	Diametro interno (mínimo)	mm	4, 5	78,4; 81,4; 95,4; 98,4; 108,4; 108,4; 118,4; 123,4; 128,4; 137,4; 138,4; 148,4; 151,4; 158,4; 165,4; 173,4; 178,4; 198,4; 228,4; 248,4; 278,4; 298,4; 348,2; 398,2; 448,2; 498,0; 548,0; 598,0	
3.0	Materiale parete interna		4, 5, 6.5.2		
	Tipo			AISI 316L / 1.4404	AISI 304 / 1.4401
	Spessore nominale (spessore minimo)	mm		DN 80-300: 0,4 (0,34) DN 350-450: 0,5 (0,44) DN 500-600: 0,6 (0,54)	DN 80-300: 0,4 (0,34) DN 350-450: 0,5 (0,44) DN 500-600: 0,6 (0,54)
	Descrizione secondo la norma EN 1856-1			DN 80-300: L50040 DN 350-450: L50050 DN 500-600: L50060	DN 80-300: L20040 DN 350-450: L20050 DN 500-600: L20060
4.0	Materiale parete esterna		4, 5, 6.5.2	Nessuno	
5.0	Materiale isolante		7.2	Nessuno	
6.0	Guarnizione		7.2		IE: IMQ-01SG00017
	Designazioni secondo la norma EN 14241-1			EN 14241-1 T200 W 2 K2 I	
	Durezza	ShA		55-60	
	Densità	g/cm ³		1.20 ± 0.1	
	Deformazione residua	%		≤ 25	
	Resistenza a trazione	N/mm ²		≥ 4.5	
	Carico al 100% di allungamento	N/mm ²		≥ 1.2	
	Dimensioni nominali			80, 83, 97, 100, 110, 111, 120, 125, 130, 139, 140, 150, 153, 160, 167, 175, 180, 200, 230, 250, 280, 300, 350, 400, 450, 500, 550, 600	
	Resistenza mecaniza e stabilità		6.1		IE: TÜV-A 1445-00/05
7.0	Resistenza a compressione		6.1.1	Fino a 72 m.	Vedi allegato
8.0	Resistenza a trazione		6.1.2	Fino a 138 m.	Vedi allegato
	Installazione non verticale		6.1.3.1		IE: TÜV-A 1445-00/05
9.0	Massima inclinazione			90° (impianto orizzontale)	Vedi allegato
10.0	Distanza massima tra staffe.			Fino a 3 m.	Vedi allegato
11.1	Tenuta ai gas		6.3	Livello di pressione: P1	IE: TÜV-A 1774-00/08
11.2	Tenuta ai gas		6.3	Livello di pressione: N1	IE: TÜV-A 1774-00/08
12.1	Distanza da materiali combustibili a T200	mm	6.2	Non applicabile	IE: TÜV-A 1774-00/08
12.2	Distanza da materiali combustibili a T250	mm	6.2	Non applicabile	IE: TÜV-A 1774-00/08

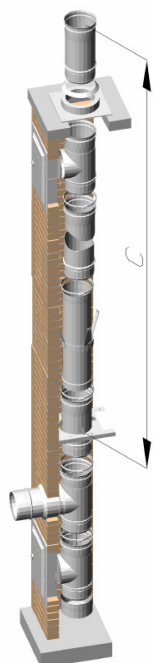
	Caratteristiche	Unità	Rif. EN 1856-2	Valori		Osservazioni
13.0	Contatto accidentale		6.4.2	Protezione della zona soggetta al possibile contatto		IE: TÜV-A 1774-00/08
14.0	Resistenza termica	m ² K / W	6.4.3	0		IE: TÜV-A 1774-00/08
15.0	Resistenza alla condensa		6.4.4, 6.4.5	Designazione: W (umido)		IE: TÜV-A 1774-00/08
16.0	Resistenza alla penetrazione d'acqua piovana		6.4.6	Non applicabile (non isolata)		
	Resistenza al flusso		6.4.7			
17.0	Valore di rugosità media	mm	6.4.7.1	1 (secondo la norma EN 13384-1)		
18.0	Coefficienti di resistenza al flusso dei elementi		6.4.7.2	Valori secondo la norma EN 13384-1		
	Terminali					
19.0	Coefficienti di resistenza al flusso		6.4.7.3	Valori secondo la norma EN 13384-1		
20.0	Protezione contro l'acqua piovana		6.4.8.1	PND		
21.0	Comportamento aerodinamico		6.4.8.2	PND		
22.0	Resistenza alla corrosione (parete interna)		6.5.1	AISI 316L / 1.4404	AISI 304 / 1.4401	IE: TÜV-A 1439-00/05
				V2	Vm	
23.0	Resistenza al gelo / disgelo		6.5.3	La canna è resistente al gelo / disgelo		
24.0	Sostanze dannose		7.2	Nessuna		
25.0	Schemi d'installazione tipici		7.2			Vedi allegato
26.0	Istruzioni d'installazine dei componenti del sistema		7.2			Vedi allegato
27.0	Direzione fumi		7.2	Instalazione con maschio esterno verso alto		
28.0	Istruzioni d'immagazzinamento		7.2	Atmosfera non corrosiva		
29.0	Istruzioni per l'applicazione di eventuali sigillanti		7.2	Nessuno		



Materiale	RESISTENZA A COMPRESIONE		RESISTENZA A TRAZIONE	
	CARICO MASSIMO D (m)		CARICO MASSIMO (m)	
	AISI 304 / 1.4401 o AISI 316L / 1.4404		AISI 304 / 1.4401 o 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		

Materiale	INSTALLAZIONE NON VERTICALE	
	MASSIMA INCLINAZIONE α (°)	DISTANZIA MASSIMA TRA STAFFE E (m)
	AISI 304 / 1.4401 o 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





RESISTENZA ALLA COMPRESSIONE DELLA STAFFA			
CARICO MASSIMO (m)			
Modello	Staffa murale regolabile chiusa C 085/853	Staffa murale regolabile allungata C 085/853	Mensola telescopica a pavimento 856
80	377	203	197
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
230	131	70	68
250	120	65	63
280	107	58	56
300	100	54	52
350	84	58	56
400	74	51	49
450	66	45	44
500	49	34	33
550	45	30	30
600	41	28	27



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: **SW**

Product description: Single wall metal 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 038

Certificate number:



Designations according to EN 1856-2 standard:

0.1	Metal connecting flue pipe with seal 1.4404/316L	EN 1856-2	T200	P1	W	V2-L50040	OXXX NM	<p>Compressive strength Up to 72 m. See Annex</p> <p>Flow resistance Inner roughness: 1 mm (according to EN 13384-1 Standard) Flow resistance coefficients ζ according to EN 13384-1 Standard</p> <p>Thermal resistance 0 m²K/W at reference temperature</p> <p>Mechanical resistance and stability Tensile strength: up to 138m. See Annex Non vertical installation: maximum deflection 90° and maximum length of the slope up to 3 m. See Annex</p> <p>Wet working conditions: Yes</p>
0.2	Metal connecting flue pipe 1.4404/316L	EN 1856-2	T600	N1	D	V2-L50040	GXXX NM	
	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)							



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: **SW**

Product description: Single wall metal 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 038

Certificate number:



Designations according to EN 1856-2 standard:

0.1	Metal connecting flue pipe with seal 1.4521/444	EN 1856-2	T200	P1	W	V2-L99040	OXXX NM	<p>Compressive strength Up to 72 m. See Annex</p> <p>Flow resistance Inner roughness: 1 mm (according to EN 13384-1 Standard) Flow resistance coefficients ζ according to EN 13384-1 Standard</p> <p>Thermal resistance 0 m²K/W at reference temperature</p> <p>Mechanical resistance and stability Tensile strength: up to 138m. See Annex Non vertical installation: maximum deflection 90° and maximum length of the slope up to 3 m. See Annex</p> <p>Wet working conditions: Yes</p>
0.2	Metal connecting flue pipe 1.4521/444	EN 1856-2	T600	N1	D	V2-L99040	GXXX NM	
	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)							



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: **SW**

Product description: Single wall metal 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 038

Certificate number:



Designations according to EN 1856-2 standard:

0.1	Metal connecting flue pipe with seal 1.4162/S32101	EN 1856-2	T200	P1	W	V2-L99050	OXXX NM	<p>Compressive strength Up to 72 m. See Annex</p> <p>Flow resistance Inner roughness: 1 mm (according to EN 13384-1 Standard) Flow resistance coefficients ζ according to EN 13384-1 Standard</p> <p>Thermal resistance 0 m²K/W at reference temperature</p> <p>Mechanical resistance and stability Tensile strength: up to 138m. See Annex Non vertical installation: maximum deflection 90° and maximum length of the slope up to 3 m. See Annex</p> <p>Wet working conditions: Yes</p>
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)								



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: **SW**

Product description: Single wall metal 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 038

Certificate number:



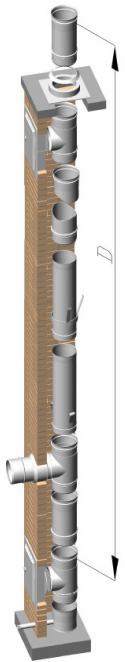
Designations according to EN 1856-2 standard:

0.1	Metal connecting flue pipe with seal 1.4301/304	EN 1856-2	T200	P1	W	Vm-L20040	OXXX NM	<p>Compressive strength Up to 72 m. See Annex</p> <p>Flow resistance Inner roughness: 1 mm (according to EN 13384-1 Standard) Flow resistance coefficients ζ according to EN 13384-1 Standard</p> <p>Thermal resistance 0 m²K/W at reference temperature</p> <p>Mechanical resistance and stability Tensile strength: up to 138m. See Annex Non vertical installation: maximum deflection 90° and maximum length of the slope up to 3 m. See Annex</p> <p>Wet working conditions: Yes</p>
0.2	Metal connecting flue pipe 1.4301/304	EN 1856-2	T600	N1	D	Vm-L20040	GXXX NM	
	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)							

	Characteristics	Units	Ref. EN 1856-2	Values / Levels				Remarks
1.0	Nominal dimensions	mm	4, 5	80, 83, 97, 100, 110, 111, 120, 125, 130, 139, 140, 150, 153, 160, 167, 175, 180, 200, 230, 250, 280, 300				
2.0	Inner diameter (minimum)	mm	4, 5	78,4; 81,4; 95,4; 98,4; 108,4; 108,4; 118,4; 123,4; 128,4; 137,4; 138,4; 148,4; 151,4; 158,4; 165,4; 173,4; 178,4; 198,4; 228,4; 248,4; 278,4; 298,4				
3.0	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		ND 80-300: 0.4 (0.34)	ND 80-300: 0.4 (0.34)	ND 80-300: 0.5 (0.44)	ND 80-300: 0.4 (0.34)	
	Description according to EN 1856-2			ND 80-300: L50040	ND 80-300: L99040	ND 80-300: L99050	ND 80-300: L20040	
4.0	Outer wall material		4, 5, 6.5.2	None				
5.0	Insulation		7.2	None				
6.0	Seals		7.2					RP: IMQ-01SG00017
	Designation according to EN 14241-1 standard			EN 14241-1 T200 W 2 K2 I				
	Hardness	ShA		55-60				
	Density	g/cm ³		1.20 ± 0.1				
	Permanent deformation	%		≤ 25				
	Tensile strength	N/mm ²		≥ 4.5				
	Lengthening strength to 100%	N/mm ²		≥ 1.2				
	Nominal dimensions			80, 83, 97, 100, 110, 111, 120, 125, 130, 139, 140, 150, 153, 160, 167, 175, 180, 200, 230, 250, 280, 300				
	Mechanical resistance and stability		6.1					RP: TÜV-A 1445-00/05
7.0	Compressive strength		6.1.1	Up to 72 m.				See Annex
8.0	Tensile strength		6.1.2	Up to 138 m.				See Annex
	Non vertical installation		6.1.3.1					RP: TÜV-A 1445-00/05
9.0	Maximum deflection			90° (horizontal installation)				See Annex
10.0	Maximum length of the slope			Up to 3m				See Annex
11.1	Gas tightness		6.3	Pressure level: P1				RP: TÜV-A 1774-00/08
11.2	Gas tightness		6.3	Pressure level: N1				RP: TÜV-A 1774-00/08

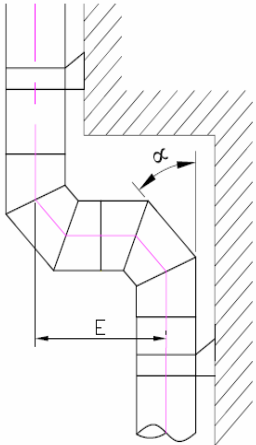
	Characteristics	Units	Ref. EN 1856-2	Values / Levels				Remarks
12.1	Distance to combustible materials at T200	mm	6.2	ND 80-125: 375 (O375 NM) ND 130: 390 (O390 NM) ND 139: 417 (O417 NM) ND 140: 420 (O420 NM) ND 150: 450 (O450 NM) ND 153: 459 (O459 NM) ND 160: 480 (O480 NM) ND 167: 501 (O501 NM) ND 175: 525 (O525 NM) ND 180: 540 (O540 NM) ND 200: 600 (O600 NM) ND 230: 690 (O690 NM) ND 250: 750 (O750 NM) ND 280: 840 (O840 NM) ND 300: 900 (O900 NM)				RP: TÜV-A 1774-04/12
12.2	Distance to combustible materials at T600	mm	6.2	ND 80-125: 375 (G375 NM) ND 130: 390 (G390 NM) ND 139: 417 (G417 NM) ND 140: 420 (G420 NM) ND 150: 450 (G450 NM) ND 153: 459 (G459 NM) ND 160: 480 (G480 NM) ND 167: 501 (G501 NM) ND 175: 525 (G525 NM) ND 180: 540 (G540 NM) ND 200: 600 (G600 NM) ND 230: 690 (G690 NM) ND 250: 750 (G750 NM) ND 280: 840 (G840 NM) ND 300: 900 (G900 NM)				RP: TÜV-A 1774-04/12
13.0	Accidental human contact		6.4.2	Protection in the traffic area needed				RP: TÜV-A 1774-00/08
14.0	Thermal resistance	m ² K / W	6.4.3	0				RP: TÜV-A 1774-00/08
15.1	Condensate resistance		6.4.4, 6.4.5	Designation: W (wet)				RP: TÜV-A 1774-04/12
15.2	Condensate resistance		6.4.4, 6.4.5	Designation: D (dry)				RP: TÜV-A 1774-04/12
16.0	Resistance against rainwater penetration		6.4.6	Not apply (not insulated)				
	Flow resistance		6.4.7					
17.0	Mean value of roughness	mm	6.4.7.1	1 (according to EN 13384-1 standard)				
18.0	Coefficients of flow resistance for fittings		6.4.7.2	Values according to EN 13384-1 standard				
	Terminal							
19.0	Coefficient of flow resistance		6.4.7.3	Values according to EN 13384-1 standard				
20.0	Protection against rainwater		6.4.8.1	N.P.D.				
21.0	Aerodynamic behavior		6.4.8.2	N.P.D.				
22.0	Corrosion resistance		6.5.1	1.4404 / 316L	1.4521 / 444	1.4162 / S32101	1.4301 / 304	RP: TÜV-A 1439-00/05
				V2	V2	V2	Vm	
23.0	Freeze / thaw resistance		6.5.3	Fulfilled according to EN 1856-2				

	Characteristics	Units	Ref. EN 1856-2	Values / Levels	Remarks
24.0	Dangerous substances		7.2	None	
25.0	Typical installation drawing		7.2		See Annex
26.0	Assembly instructions		7.2		See Annex
27.0	Flow direction		7.2	Installation with the Female at the top	
28.0	Storage instructions		7.2	No corrosive atmosphere	
29.0	Method of application of any sealant required		7.2	None	

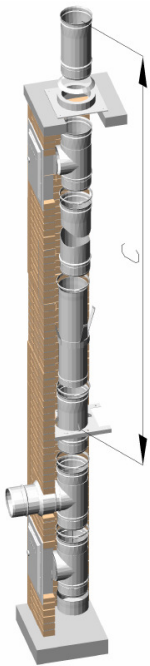


	COMPRESSIVE STRENGTH*		TENSILE STRENGTH	
	Material	Height – Size D (m)	Material	Height (m)
ND (mm)	80	72	138	
	83	70	133	
	97	60	114	
	100	58	111	
	110	53	101	
	111	52	100	
	120	48	92	
	125	46	88	
	130	45	85	
	139	42	79	
	140	41	79	
	150	39	74	
	153	38	72	
	160	36	69	
	167	35	66	
	175	33	63	
	180	32	61	
	200	29	55	
	230	25	48	
	250	23	44	
280	20	39		
300	19	37		

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



	NON VERTICAL INSTALLATION	
	Maximum deflection α (°)	Maximum length of the slope – Size E (m)
ND (mm)	Material	1.4301 /304; 1.4404 / 316L; 1.4521 / 444; 1.4162 / S32101
	80	90
	83	90
	97	90
	100	90
	110	90
	111	90
	120	90
	125	90
	130	90
	139	90
	140	90
	150	90
	153	90
	160	90
	167	90
	175	90
	180	90
	200	90
	230	90
250	90	
280	90	
300	90	



COMPRESSIVE 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*
80	377	203	197
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
230	131	70	68
250	120	65	63
280	107	58	56
300	100	54	52

ND (mm)

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



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: **SW6**

Product description: Single wall 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 031**



Designations according to EN 1856-2 standard:

0.1	Metal chimney with seal 1.4404/316L	EN 1856-2	T200	P1	W	V2-L50060	O
0.2	Metal chimney 1.4404/316L	EN 1856-2	T600	N1	W	V2-L50060	G
0.3	Metal chimney with 30mm insulation 1.4404/316L	EN 1856-2	T600	N1	D	V3-L50060	G

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 48 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

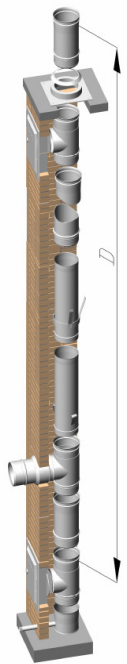
Thermal resistance
 0 m²K/W at reference temperature

Mechanical resistance and stability
 Tensile strength: up to 92m. See Annex
 Non vertical installation: maximum deflection 90° and maximum length of the slope up to 3 m. See Annex

Wet working conditions: Yes

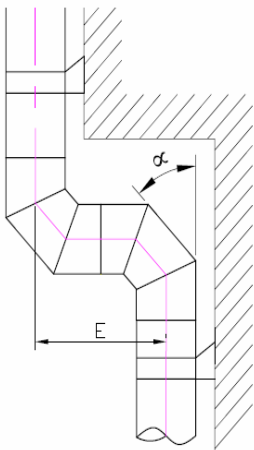
	Characteristics	Units	Ref. EN 1856-2	Values / Levels	Remarks
1.0	Nominal dimensions	mm	4, 5	80, 100, 110, 120, 130, 140, 150, 160, 180, 200, 250, 300, 350, 400, 450, 500, 550, 600	
2.0	Inner diameter (minimum)	mm	4, 5	78,4; 98,4; 108,4; 118,4; 128,4; 138,4; 148,4; 158,4; 178,4; 198,4; 248,4; 298,4; 348,2; 398,2; 448,2; 498,0; 548,0; 598,0	
3.0	Inner wall material		4, 5, 6.5.2		
	Quality			AISI 316L / 1.4404	
	Nominal thickness (minimum thickness)	mm		0.6 (0.54)	
	Description according to EN 1856-2			L50060	
4.0	Outer wall material		4, 5, 6.5.2	None	
5.0	Insulation		7.2	None	
6.0	Seals		7.2		RP: IMQ-01SG00017
	Designation according to EN 14241-1 standard			EN 14241-1 T200 W 2 K2 I	
	Hardness	ShA		55-60	
	Density	g/cm ³		1.20 ± 0.1	
	Permanent deformation	%		≤ 25	
	Tensile strength	N/mm ²		≥ 4.5	
	Lengthening strength to 100%	N/mm ²		≥ 1.2	
	Nominal dimensions			80, 100, 110, 120, 130, 140, 150, 160, 180, 200, 250, 300, 350, 400, 450, 500, 550, 600	
	Mechanical resistance and stability		6.1		RP: TÜV-A 1445-00/05
7.0	Compressive strength		6.1.1	Up to 48 m.	See Annex
8.0	Tensile strength		6.1.2	Up to 92 m.	See Annex
	Non vertical installation		6.1.3.1		RP: TÜV-A 1445-00/05
9.0	Maximum deflection			90° (horizontal installation)	See Annex
10.0	Maximum length of the slope			Up to 3m	See Annex
11.1	Gas tightness		6.3	Pressure level: P1	RP: TÜV-A 1774-00/08
11.2 11.3	Gas tightness		6.3	Pressure level: N1	RP: TÜV-A 1774-00/08
12.1	Distance to combustible materials at T200	mm	6.2	Not apply (liner)	RP: TÜV-A 1774-00/08
12.2 12.3	Distance to combustible materials at T600	mm	6.2	Not apply (liner)	RP: TÜV-A 1774-00/08
13.0	Accidental human contact		6.4.2	Protection in the traffic area needed	RP: TÜV-A 1774-00/08
14.0	Thermal resistance	m ² K / W	6.4.3	0	RP: TÜV-A 1774-00/08
15.1 15.2	Condensate resistance		6.4.4, 6.4.5	Designation: W (wet)	RP: TÜV-A 1774-00/08

	Characteristics	Units	Ref. EN 1856-2	Values / Levels	Remarks
15.3	Condensate resistance		6.4.4, 6.4.5	Designation: D (dry)	RP: TÜV-A 1774-00/08
16.0	Resistance against rainwater penetration		6.4.6	Not apply (not insulated)	
	Flow resistance		6.4.7		
17.0	Mean value of roughness	mm	6.4.7.1	1 (according to EN 13384-1 standard)	
18.0	Coefficients of flow resistance for fittings		6.4.7.2	Values according to EN 13384-1 standard	
	Terminal				
19.0	Coefficient of flow resistance		6.4.7.3	Values according to EN 13384-1 standard	
20.0	Protection against rainwater		6.4.8.1	N.P.D.	
21.0	Aerodynamic behavior		6.4.8.2	N.P.D.	
22.1 22.2	Corrosion resistance		6.5.1	V2	RP: TÜV-A 1439-00/05
22.3	Corrosion resistance		6.5.1	V3	RP: MPA 31 000 3619
23.0	Freeze / thaw resistance		6.5.3	Fulfilled according to EN 1856-2	
24.0	Dangerous substances		7.2	None	
25.0	Typical installation drawing		7.2		See Annex
26.0	Assembly instructions		7.2		See Annex
27.0	Flow direction		7.2	Installation with the Female at the top	
28.0	Storage instructions		7.2	No corrosive atmosphere	
29.0	Method of application of any sealant required		7.2	None	

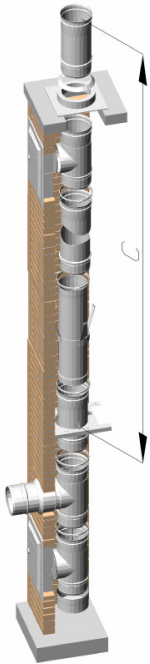


Material	COMPRESSIVE STRENGTH*		TENSILE STRENGTH	
	Height – Size D (m)		Height (m)	
	1.4404 / 316L		1.4404 / 316L	
80	48	92		
100	39	74		
110	35	67		
120	32	61		
130	30	57		
140	27	52		
150	26	49		
160	24	46		
180	21	41		
200	19	37		
250	15	29		
300	13	24		
350	14	46		
400	12	40		
450	11	35		
500	10	32		
550	9	29		
600	8	26		

* 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)
	1.4404 / 316L	
80	90	3
100	90	3
110	90	3
120	90	3
130	90	3
140	90	3
150	90	3
160	90	3
180	90	3
200	90	3
250	90	3
300	90	3
350	90	3
400	90	3
450	90	3
500	90	3
550	90	3
600	90	3



COMPRESSIVE 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*
80	251	135	48
100	201	108	39
110	183	98	35
120	167	90	32
130	154	83	30
140	143	77	27
150	134	72	26
160	125	67	24
180	111	60	21
200	100	54	19
250	80	43	15
300	67	36	13
350	70	48	14
400	61	42	12
450	55	37	11
500	49	34	10
550	45	30	9
600	41	28	8

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



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: **SW6**

Product description: Single wall metal 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 039

Certificate number:

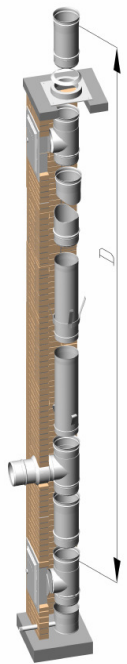


Designations according to EN 1856-2 standard:

0.1	Metal connecting flue pipe with seal 1.4404/316L	EN 1856-2	T200	P1	W	V2-L50060	OXXX NM	Compressive strength Up to 48 m. See Annex
0.2	Metal connecting flue pipe 1.4404/316L	EN 1856-2	T600	N1	D	V2-L50060	GXXX NM	Flow resistance Inner roughness: 1 mm (according to EN 13384-1 Standard) Flow resistance coefficients ζ according to EN 13384-1 Standard
	Product description							
	Standard number							Thermal resistance 0 m ² K/W at reference temperature
	Temperature level							
	Pressure level							Mechanical resistance and stability Tensile strength: up to 92m. See Annex Non vertical installation: maximum deflection 90° and maximum length of the slope up to 3 m. See Annex
	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)							Wet working conditions: Yes

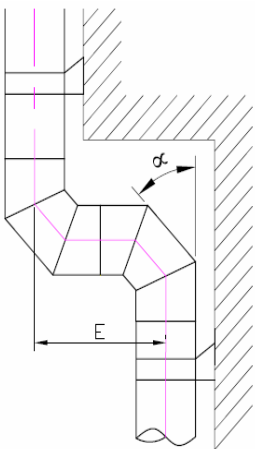
	Characteristics	Units	Ref. EN 1856-2	Values / Levels	Remarks
1.0	Nominal dimensions	mm	4, 5	80, 100, 110, 120, 130, 140, 150, 160, 180, 200, 250, 300	
2.0	Inner diameter (minimum)	mm	4, 5	78,4; 98,4; 108,4; 118,4; 128,4; 138,4; 148,4; 158,4; 178,4; 198,4; 248,4; 298,4	
3.0	Inner wall material		4, 5, 6.5.2		
	Quality			AISI 316L / 1.4404	
	Nominal thickness (minimum thickness)	mm		0.6 (0.54)	
	Description according to EN 1856-2			L50060	
4.0	Outer wall material		4, 5, 6.5.2	None	
5.0	Insulation		7.2	None	
6.0	Seals		7.2		RP: IMQ-01SG00017
	Designation according to EN 14241-1 standard			EN 14241-1 T200 W 2 K2 I	
	Hardness	ShA		55-60	
	Density	g/cm ³		1.20 ± 0.1	
	Permanent deformation	%		≤ 25	
	Tensile strength	N/mm ²		≥ 4.5	
	Lengthening strength to 100%	N/mm ²		≥ 1.2	
	Nominal dimensions			80, 100, 110, 120, 130, 140, 150, 160, 180, 200, 250, 300	
	Mechanical resistance and stability		6.1		RP: TÜV-A 1445-00/05
7.0	Compressive strength		6.1.1	Up to 48 m.	See Annex
8.0	Tensile strength		6.1.2	Up to 92 m.	See Annex
	Non vertical installation		6.1.3.1		RP: TÜV-A 1445-00/05
9.0	Maximum deflection			90° (horizontal installation)	See Annex
10.0	Maximum length of the slope			Up to 3m	See Annex
11.1	Gas tightness		6.3	Pressure level: P1	RP: TÜV-A 1774-00/08
11.2	Gas tightness		6.3	Pressure level: N1	RP: TÜV-A 1774-00/08
12.1	Distance to combustible materials at T200	mm	6.2	ND 80-120: 375 (O375 NM) ND 130: 390 (O390 NM) ND 140: 420 (O420 NM) ND 150: 450 (O450 NM) ND 160: 480 (O480 NM) ND 180: 540 (O540 NM) ND 200: 600 (O600 NM) ND 250: 750 (O750 NM) ND 300: 900 (O900 NM)	RP: TÜV-A 1774-04/12

	Characteristics	Units	Ref. EN 1856-2	Values / Levels	Remarks
12.2	Distance to combustible materials at T600	mm	6.2	ND 80-120: 375 (G375 NM) ND 130: 390 (G390 NM) ND 140: 420 (G420 NM) ND 150: 450 (G450 NM) ND 160: 480 (G480 NM) ND 180: 540 (G540 NM) ND 200: 600 (G600 NM) ND 250: 750 (G750 NM) ND 300: 900 (G900 NM)	RP: TÜV-A 1774-04/12
13.0	Accidental human contact		6.4.2	Protection in the traffic area needed	RP: TÜV-A 1774-00/08
14.0	Thermal resistance	m ² K / W	6.4.3	0	RP: TÜV-A 1774-00/08
15.1	Condensate resistance		6.4.4, 6.4.5	Designation: W (wet)	RP: TÜV-A 1774-04/12
15.2	Condensate resistance		6.4.4, 6.4.5	Designation: D (dry)	RP: TÜV-A 1774-04/12
16.0	Resistance against rainwater penetration		6.4.6	Not apply (not insulated)	
	Flow resistance		6.4.7		
17.0	Mean value of roughness	mm	6.4.7.1	1 (according to EN 13384-1 standard)	
18.0	Coefficients of flow resistance for fittings		6.4.7.2	Values according to EN 13384-1 standard	
	Terminal				
19.0	Coefficient of flow resistance		6.4.7.3	Values according to EN 13384-1 standard	
20.0	Protection against rainwater		6.4.8.1	N.P.D.	
21.0	Aerodynamic behavior		6.4.8.2	N.P.D.	
22.0	Corrosion resistance		6.5.1	V2	RP: TÜV-A 1439-00/05
23.0	Freeze / thaw resistance		6.5.3	Fulfilled according to EN 1856-2	
24.0	Dangerous substances		7.2	None	
25.0	Typical installation drawing		7.2		See Annex
26.0	Assembly instructions		7.2		See Annex
27.0	Flow direction		7.2	Installation with the Female at the top	
28.0	Storage instructions		7.2	No corrosive atmosphere	
29.0	Method of application of any sealant required		7.2	None	

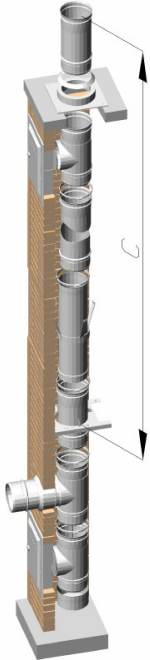


	COMPRESSIVE STRENGTH*		TENSILE STRENGTH	
		Height – Size D (m)		Height (m)
	Material	1.4404 / 316L	1.4404 / 316L	1.4404 / 316L
ND (mm)	80	48		92
	100	39		74
	110	35		67
	120	32		61
	130	30		57
	140	27		52
	150	26		49
	160	24		46
	180	21		41
	200	19		37
	250	15		29
	300	13		24

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



	NON VERTICAL INSTALLATION		
		Maximum deflection α (°)	Maximum length of the slope – Size E (m)
	Material	1.4404 / 316L	1.4404 / 316L
ND (mm)	80	90	3
	100	90	3
	110	90	3
	120	90	3
	130	90	3
	140	90	3
	150	90	3
	160	90	3
	180	90	3
	200	90	3
	250	90	3
	300	90	3



COMPRESSIVE 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*
80	251	135	48
100	201	108	39
110	183	98	35
120	167	90	32
130	154	83	30
140	143	77	27
150	134	72	26
160	125	67	24
180	111	60	21
200	100	54	19
250	80	43	15
300	67	36	13

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



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: **SW6**

Product description: Single wall metal 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 030**

Certificate number:



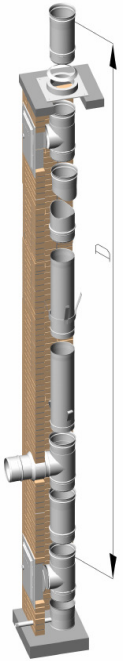
Designations according to EN 1856-1 standard:

0.1	Metal chimney with seal 1.4404/316L	ND 80-300	EN 1856-1	T200	P1	W	V2-L50060	O(40)	Compressive strength Up to 48 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 ² K/W at reference temperature
		ND 350-450	EN 1856-1	T200	P1	W	V2-L50060	O(60)	
		ND 500-600	EN 1856-1	T200	P1	W	V2-L50060	O(80)	
0.2	Metal chimney 1.4404/316L	ND 80-300	EN 1856-1	T250	N1	W	V2-L50060	O(50)	Mechanical resistance and stability Tensile strength: up to 92 m. See Annex Non vertical installation: maximum deflection 90° and maximum length of the slope up to 3 m. Wind load resistance: Maximum length between supports up to 4 m. Maximum length from the last support up to 2.5 m. See Annex Wet working conditions: Yes
		ND 350-450	EN 1856-1	T250	N1	W	V2-L50060	O(75)	
		ND 500-600	EN 1856-1	T250	N1	W	V2-L50060	O(100)	

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)	

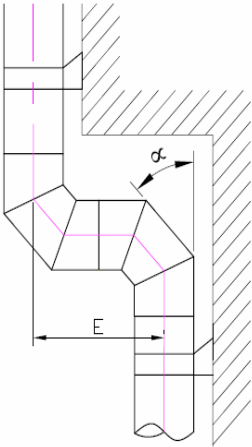
	Characteristics	Units	Ref. EN 1856-1	Values / Levels	Remarks
1.0	Nominal dimensions	mm	4, 5	80, 100, 110, 120, 130, 140, 150, 160, 180, 200, 250, 300, 350, 400, 450, 500, 550, 600	
2.0	Inner diameter (minimum)	mm	4, 5	78,4; 98,4; 108,4; 118,4; 128,4; 138,4; 148,4; 158,4; 178,4; 198,4; 248,4; 298,4; 348,2; 398,2; 448,2; 498,0; 548,0; 598,0	
3.0	Inner wall material		4, 5, 6.5.2		
	Quality			1.4404 / 316L	
	Nominal thickness (minimum thickness)	mm		0.6 (0.54)	
	Description according to EN 1856-1			L50060	
4.0	Outer wall material		4, 5, 6.5.2	None	
5.0	Insulation		7.2	None	
6.0	Seals		7.2		RP: IMQ-01SG00017
	Designation according to EN 14241-1 standard			EN 14241-1 T200 W 2 K2 I	
	Hardness	ShA		55-60	
	Density	g/cm ³		1.20 ± 0.1	
	Permanent deformation	%		≤ 25	
	Tensile strength	N/mm ²		≥ 4.5	
	Lengthening strength to 100%	N/mm ²		≥ 1.2	
	Nominal dimensions			80, 100, 110, 120, 130, 140, 150, 160, 180, 200, 250, 300, 350, 400, 450, 500, 550, 600	
	Mechanical resistance and stability		6.1		RP: TÜV-A 1445-00/05
7.0	Compressive strength		6.1.1	Up to 48 m.	See Annex
8.0	Tensile strength		6.1.2	Up to 92 m.	See Annex
9.0	Wind load resistance		6.1.3.2	Maximum length from the last support: up to 3 m. Maximum length between supports: up to 4 m.	See Annex
	Non vertical installation		6.1.3.1		RP: TÜV-A 1445-00/05
10.0	Maximum deflection			90° (horizontal installation)	See Annex
11.0	Maximum length of the slope			Up to 3 m.	See Annex
12.1	Gas tightness		6.3	Pressure level: P1	RP: TÜV-A 1428-00/05
12.2	Gas tightness		6.3	Pressure level: N1	RP: TÜV-A 1428-00/05
13.1	Distance to combustible materials at T200	mm	6.2	ND 80-300: 40 (O40) ND 350-450: 60 (O60) ND 450-600: 80 (O80)	RP: TÜV-A 1428-00/05
13.2	Distance to combustible materials at T250	mm	6.2	ND 80-300: 50 (O50) ND 350-450: 75 (O75) ND 450-600: 100 (O100)	RP: TÜV-A 1428-00/05
14.0	Accidental human contact		6.4.2	Protection in the traffic area needed	RP: TÜV-A 1428-00/05

	Characteristics	Units	Ref. EN 1856-1	Values / Levels	Remarks
15.0	Thermal resistance	m ² K / W	6.4.3	0	RP: TÜV-A 1428-00/05
16.0	Condensate resistance		6.4.4, 6.4.5	Designation: W (wet)	RP: TÜV-A 1428-00/05
17.0	Resistance against rainwater penetration		6.4.6	Not apply (not insulated)	
	Flow resistance		6.4.7		
18.0	Mean value of roughness	mm	6.4.7.1	1 (according to EN 13384-1 standard)	
19.0	Coefficients of flow resistance for fittings		6.4.7.2	Values according to EN 13384-1 standard	
	Terminal				
20.0	Coefficient of flow resistance		6.4.7.3	Values according to EN 13384-1 standard	
21.0	Protection against rainwater		6.4.8.1	N.P.D.	
22.0	Aerodynamic behavior		6.4.8.2	N.P.D.	
23.0	Corrosion resistance		6.5.1	1.4404 / 316L V2	RP: TÜV-A 1439-00/05
24.0	Freeze / thaw resistance		6.5.3	Fulfilled according to EN 1856-1	
25.0	Dangerous substances		7.2	None	
26.0	Typical installation drawing		7.2		See Annex
27.0	Assembly instructions		7.2		See Annex
28.0	Flow direction		7.2	Installation with the Female at the top	
29.0	Storage instructions		7.2	No corrosive atmosphere	
30.0	Method of application of any sealant required		7.2	None	

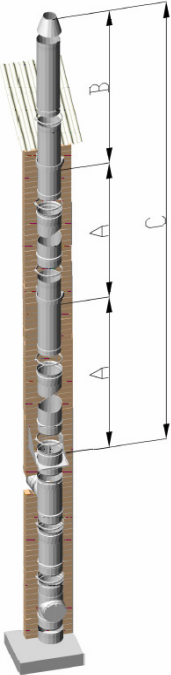


Material	COMPRESSION STRENGTH*		TENSILE STRENGTH	
	Height - Size D (m)		Height (m)	
	1.4404 / 316L		1.4404 / 316L	
80	48	92		
100	39	74		
110	35	67		
120	32	61		
130	30	57		
140	27	52		
150	26	49		
160	24	46		
180	21	41		
200	19	37		
250	15	29		
300	13	24		
350	14	46		
400	12	40		
450	11	35		
500	10	32		
550	9	29		
600	8	26		

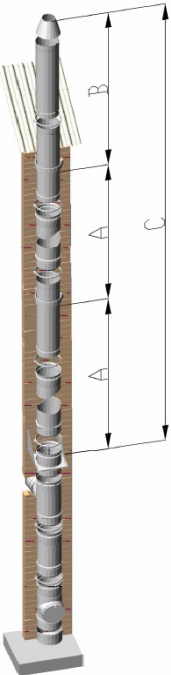
* In case a higher resistance is required, check with Dinak the possibility of installing a reinforced Tee



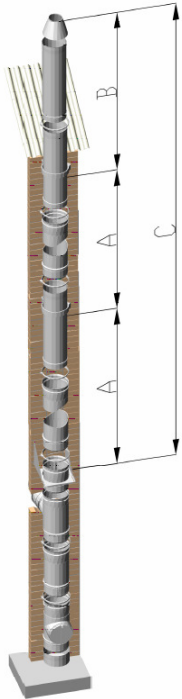
Material	NON VERTICAL INSTALLATION	
	Maximum deflection α (°)	Maximum length of the slope - Size E (m)
	1.4404 / 316L	
80	90	3
100	90	3
110	90	3
120	90	3
130	90	3
140	90	3
150	90	3
160	90	3
180	90	3
200	90	3
250	90	3
300	90	3
350	90	3
400	90	3
450	90	3
500	90	3
550	90	3
600	90	3



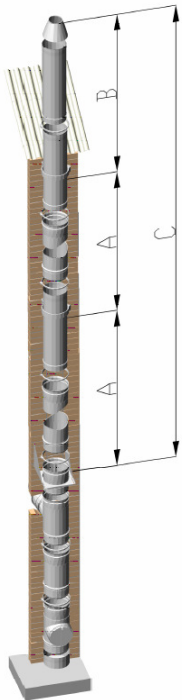
WIND LOAD RESISTANCE				
Configuration 1 (flat wall supports 086 with a self-standing support 861 at highest position)				
	Max number of straight elements (020) between supports (Size A)	Max. Length from last support. (m) (Size B)		
Material	1.4404 / 316L	1.4404 / 316L		
ND (mm)	80	X		
	100			
	110			
	120			
	130			
	140			
	150			
	160			
	180			
	200		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		



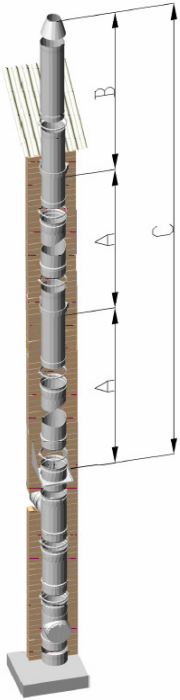
Configuration 2 (flat wall supports 086)		
	Max number of straight elements (020) between supports (Size A)	Max. Length from last support. (m) (Size B)
Material	1.4404 / 316L	
ND (mm)	80	1.5
	100	1.5
	110	1.5
	120	1.5
	130	1.5
	140	1.5
	150	1.5
	160	1.5
	180	1.5
	200	1.5
	250	1.5
	300	1.5
	350	1.5
	400	1.5
450	1.5	
500	1.5	
550	1.5	
600	1.5	



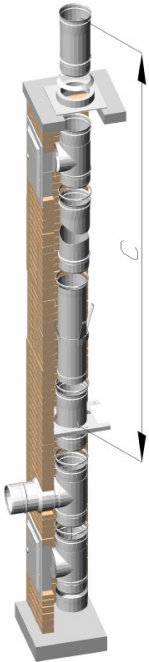
Configuration 3 (flat adjustable supports 831)		
Distance to wall: 70-120 mm		
	Max number of straight elements (020) between supports (Size A)	Max. Length from last support. (m) (Size B)
Material	1.4404 / 316L	
80	3	1.5
100	3	1.5
110	3	1.5
120	3	1.5
130	3	1.5
140	3	1.5
150	3	1.5
160	3	1.5
180	3	1.5
200	3	1.5
250	3	1.5
300	3	1.5
350	3	1.5
400-600	X	



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	1.4404 / 316L	
80	3	1.5
100	3	1.5
110	3	1.5
120	3	1.5
130	3	1.5
140	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



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	1.4404 / 316L	
ND (mm)		
80	2	1.5
100	2	1.5
110	2	1.5
120	2	1.5
130	2	1.5
140	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



COMPRESSIVE 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*
80	251	135	48
100	201	108	39
110	183	98	35
120	167	90	32
130	154	83	30
140	143	77	27
150	134	72	26
160	125	67	24
180	111	60	21
200	100	54	19
250	80	43	15
300	67	36	13
350	70	48	14
400	61	42	12
450	55	37	11
500	49	34	10
550	45	30	9
600	41	28	8

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