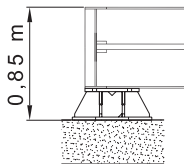
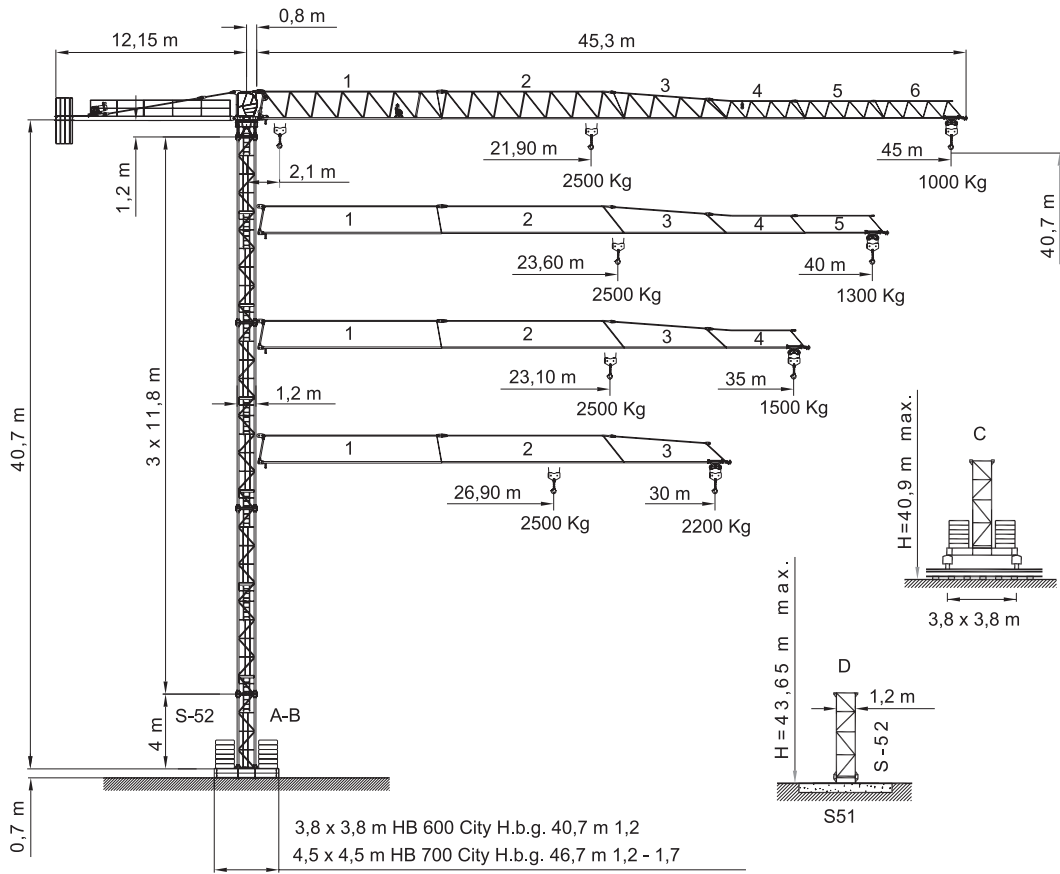


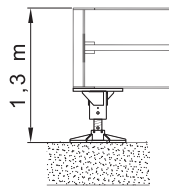
TL 452 4T

CRANES

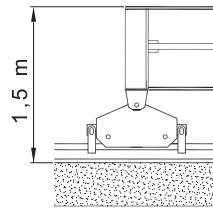
SAENZ



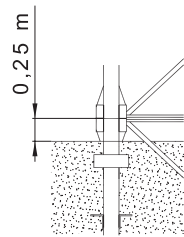
A



B



C





D

Curvas de cargas
Load diagrams
Lastkurven
Courbes de charges
Curve di carico





45 m	12	16	18	20	21,9	24	25	26	28	30	33	35	37	39	40	43	45	m	Kg	
	2500	2500	2500	2500	2500	2244	2136	2036	1859	1706	1512	1402	1303	1215	1175	1065	1000			
	9	10	12	13,8	14	16	18	21	24	27	30	33	35	38	40	43	45	m	Kg	
	4000	4000	4000	4000	3961	3377	2929	2424	2049	1760	1530	1343	1237	1099	1019	912	850			
40 m	12	16	18	20	23,6	24	25	26	28	30	33	35	37	39	40	m	Kg			
	2500	2500	2500	2500	2500	2455	2338	2230	2038	1873	1664	1544	1438	1343	1300					
	9	10	12	14	15	16	18	21	24	27	30	33	35	38	40	m	Kg			
	4000	4000	4000	4000	4000	3715	3228	2678	2270	1956	1706	1503	1387	1237	1150					
35 m	12	16	18	20	23,1	24	25	26	28	30	33	35	m	Kg						
	2500	2500	2500	2500	2500	2389	2274	2169	1982	1821	1616	1500								
	9	10	12	14	14,7	16	18	21	24	27	30	33	35	m	Kg					
	4000	4000	4000	4000	4000	3631	3153	2614	2215	1907	1662	1463	1350							
30 m	12	16	18	20	24	25	26	26,9	28	30	m	Kg								
	2500	2500	2500	2500	2500	2500	2500	2389	2200											
	9	10	12	14	16	17,2	18	21	24	27	30	m	Kg							
	4000	4000	4000	4000	4000	4000	3811	3175	2703	2339	2050									





Bloque de contrapeso
Counterweight blocks
Gegengewichtsblöcke
Bloc de contrepoid
Blocco di contrappeso


Mecanismos
Mechanisms
Antriebe
Mécanismes
Meccanismi


	45 m		40 m		35 m			30 m	
	A	B	A	B	A	B	C	A	B
	3	1	2	2	2	1	1	2	1
	8300 Kg		7400 Kg		6850 Kg			6000 Kg	

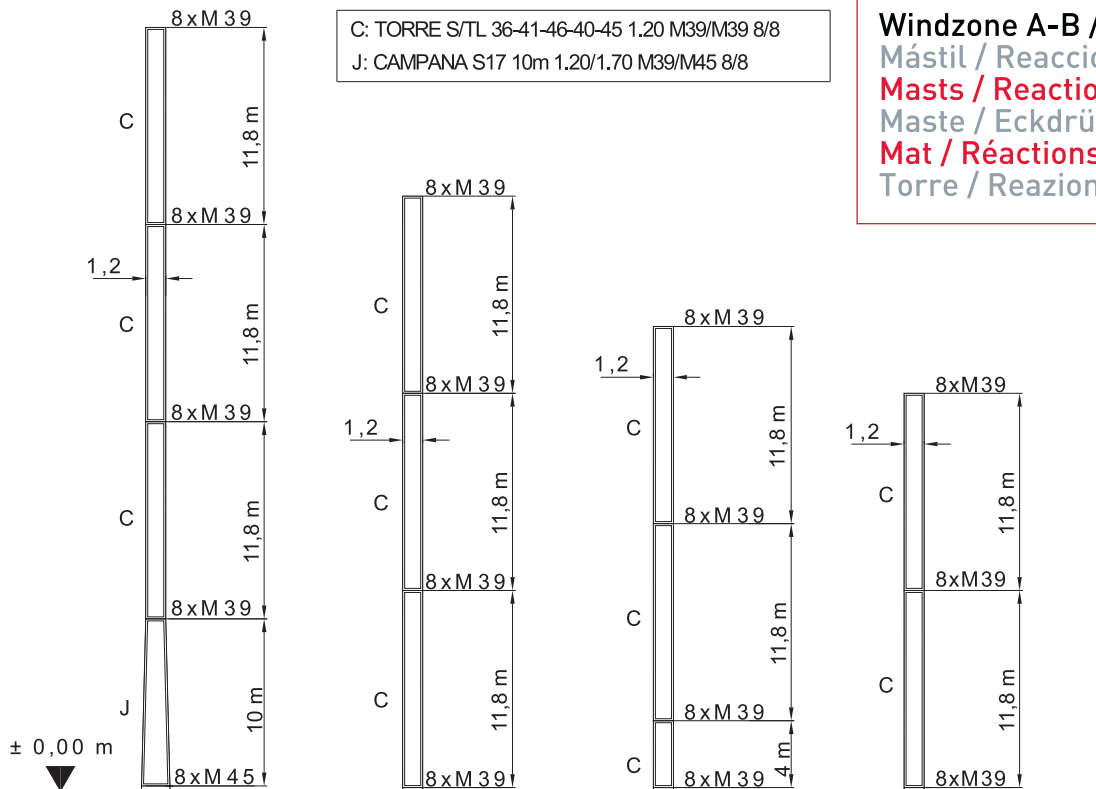
15 Hp (11,5 Kw) 3V
 H.B.G. 84 S/R Ø10mm

	240 m	m/min	8	29	58	4	15	30
		Kg	2500	2500	1000	4000	4000	2500
		Kw	11,5	11,5	11,5	11,5	11,5	11,5
		m/min	30 / 60			30 / 60		
		Kw	1,1 / 1,8			1,1 / 1,8		
		r.p.m	0,3	0,6	0,9	0,3	0,6	0,9
		Nm	1 x 65			1 x 65		
		m/min	20			20		
		Kw	2 x 2,2			2 x 2,2		

- * Opcional / Optional / Opzionale /
-  Elevación / Hoisting / Heben / Levage / Sollevamento
-  Distribución / Trolleying / Katzfahren / Distribution / Distribuzione
-  Orientación / Slewing / Schwenken / Orientation / Rotazione
-  Traslacion / Travelling / Schienenfahren / Translation / Traslazione

	25 m	50 m	100 m
15 Hp (11,5 KW) 3V	4 x 16 mm ²	4 x 16 mm ²	4 x 25 mm ²

	400 V 50 Hz	* 380 V 60 Hz	15 Hp (11,5Kw) 3V 24KW / 90 kVA
CEI 38 IEC 38			



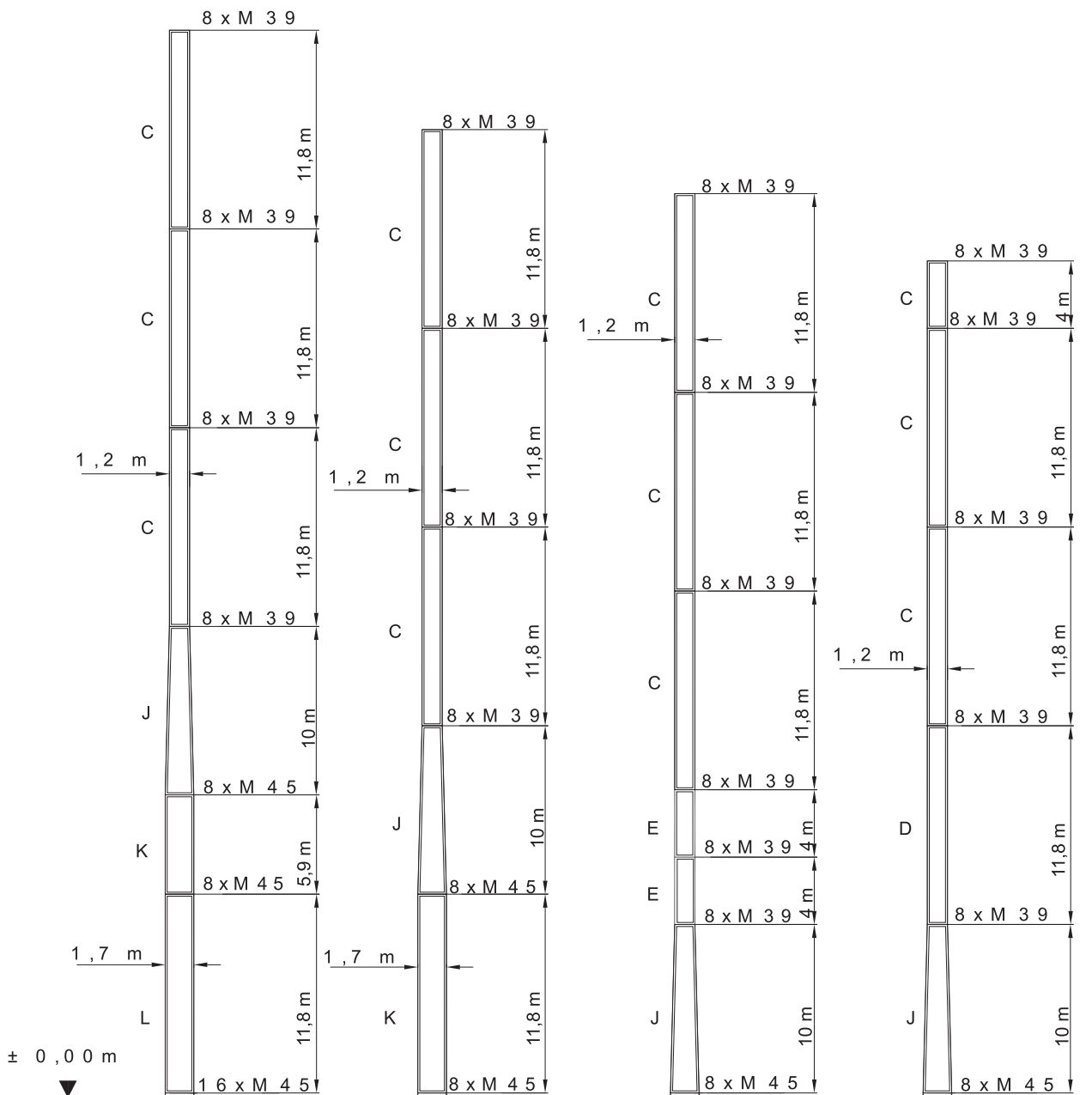
C: TORRE S/TL 36-41-46-40-45 1.20 M39/M39 8/8
 J: CAMPANA S17 10m 1.20/1.70 M39/M45 8/8

Windzone A-B / DIN 15019
Mástil / Reacciones
Masts / Reactions
Maste / Eckdrücke
Mat / Réactions
Torre / Reazioni

S60/8	S51	S51	S51
H: 45.7m	H: 35.65m	H: 27.85m	H: 23.85m
P(t): 45.96	P(t): 38.6	P(t): 32.94	P(t): 30.9
T(t): 7.81	T(t): 6.74	T(t): 5.58	T(t): 4.98
M(t-m): 241.7	M(t-m): 179	M(t-m): 135.7	M(t-m): 116.36

Windzone A-B / DIN 15019
 Mástil / Reacciones
 Masts / Reactions
 Maste / Eckdrücke
 Mat / Réactions
 Torre / Reazioni

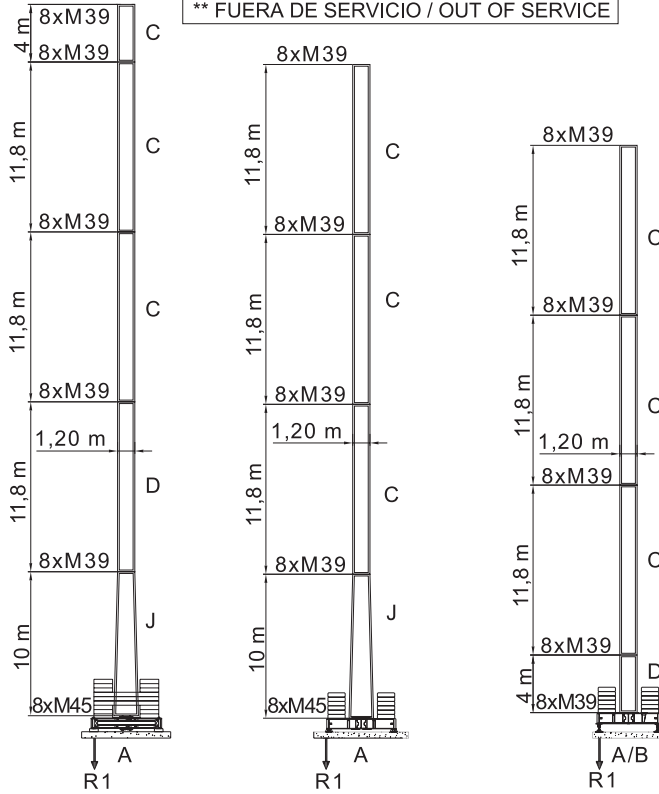
C: TORRE S/TL 36-41-46-40-45 1.20 M39/M39 8/8
 D: TORRE S/TL 50-52 1.20 M39/M39 8/8
 E: TORRE TL 55 1.20 M39/M39 8/8
 J: CAMPANA S17 10m 1.20/1.70 M39/M45 8/8
 K: TORRE S17 1.70 M45 8/8
 L: TORRE S17 1.70 M45 16/8



S 6 0 R / 1 6	S 6 0 / 8	S 6 0 / 8	S 6 0 / 8
H : 6 3 , 4 m	H : 5 7 , 5 m	H : 5 3 , 7 m	H : 4 9 , 7 m
P (t) : 5 6 , 4 3	P (t) : 5 4	P (t) : 4 7 , 4 5	P (t) : 4 7 , 3 1
T (t) : 1 2 , 7 6	T (t) : 1 1 , 6 5	T (t) : 9	T (t) : 8 , 4 1

C:TORRE S/TL 36-41-46-40-45 1.20 M39/M39 8/8
D:TORRE S/TL 50-52 1.20 M39/M39 8/8
J:CAMPANA S17 10m 1.20/1.70 M39/M45 8/8

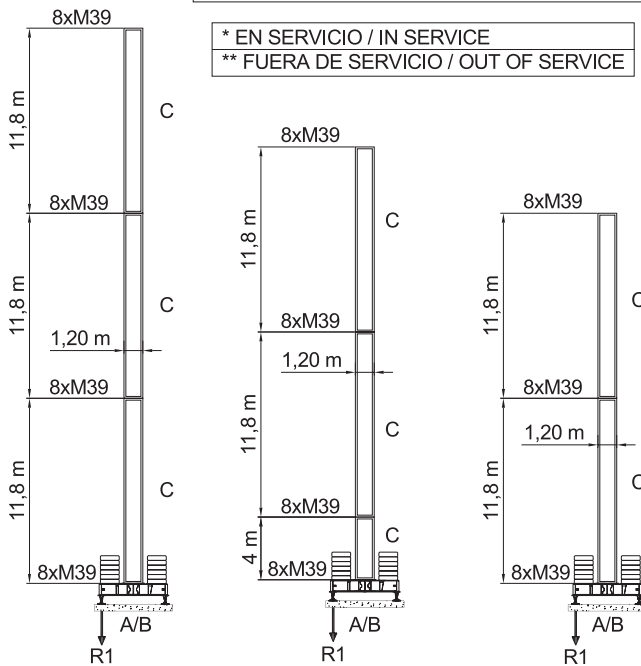
* EN SERVICIO / IN SERVICE
 ** FUERA DE SERVICIO / OUT OF SERVICE



H(m): 50,6	H(m): 46,5	H(m): 40,4
BASE 4,5x4,5 1,7 HM700	BASE 4,5x4,5 1,2/1,7 HB700	BASE 3,8x3,8 1,2 HB600
LASTRE: 121,6 Tn	LASTRE: 98,8 Tn	LASTRE: 76 Tn
	*R1= 62,5 Tn	*R1= 56,3 Tn
**R1= 97 Tn	**R1= 70,9 Tn	**R1= 62,3 Tn

C:TORRE S/TL 36-41-46-40-45 1.20 M39/M39 8/8

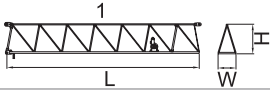


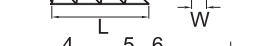
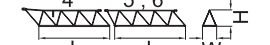



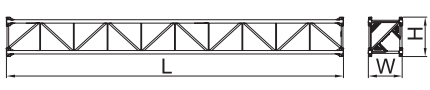
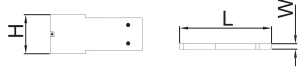
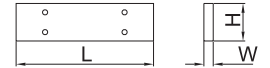
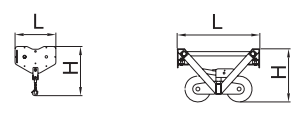
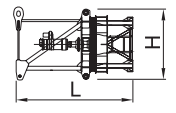
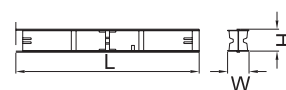
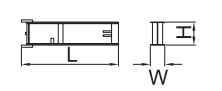
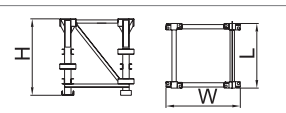
* EN SERVICIO / IN SERVICE
 ** FUERA DE SERVICIO / OUT OF SERVICE



H(m): 36,4	H(m): 28,6	H(m): 24,6
BASE 3,8x3,8 1,2 HB600	BASE 3,8x3,8 1,2 HB600	BASE 3,8x3,8 1,2 HB600
LASTRE: 76 Tn	LASTRE: 45,6 Tn	LASTRE: 45,6 Tn
*R1= 52 Tn	*R1= 39,3 Tn	*R1= 35,3 Tn
**R1= 54,4 Tn	**R1= 36 Tn	**R1= 29,2 Tn

Windzone A-B / DIN 15019

Bloque lastre de base
 Base ballast block
 Grundballastblöcke
 Bloc de lest de base
 Blocco di zavorra alla base

		L(m)	W(m)	H(m)	Peso(Kg)	
Pluma tramo primero / Jib heel section Ausleger-Anlenkstück / Pied de flèche Settore articolato di braccio		1	11,74	1	1,7	1544
Elemento intermedio de pluma / Intermediate jib section / Ausleger-Zwischenstück Elément interm. de flèche / Spezzone di braccio		2	11,74	1	1,7	1064
		3	6,5	1	1,31	502
		4	5	1	1,16	312
		5	5	1	1,16	262
		6	5	1	1,16	206
	Contrapluma /Counter-jib Gegenausleger / Contre-flèche Controbraccio		11,49	0,28	1,65	1502
		4,05	0,30	0,58	96	
Elemento de torre / Tower section Turmstück / Elcment de mât Elemento di torre		C	11,8	1,2	1,38	2520
		C	8,0	1,2	1,38	1870
		C	5,9	1,2	1,38	1348
		C	4,0	1,2	1,38	1050
		D	11,8	1,2	1,38	3017
		D	8,0	1,2	1,38	2075
		D	5,9	1,2	1,38	1560
		D	4,0	1,2	1,38	1100
		E	11,8	1,2	1,38	3782
		E	8,0	1,2	1,38	2654
		E	5,9	1,2	1,38	2090
		E	4,0	1,2	1,38	1527
		J	10	1,85	1,38	3520
		K	11,8	1,85	1,85	4600
		K	5,9	1,85	1,85	2472
K	3	1,85	1,85	1425		
L	11,8	1,85	1,85	5520		
Bloque de contrapeso / Counterweight blocks Gegengewichtsblöcke / Bloc de contrepoids Blocco di contrappeso		A	2,94	0,30	1,25	2300
		B	2,94	0,18	1,25	1400
		C	1,70	0,18	1,25	850
Bloque lastre de base / Base ballast block Grundballastblöcke / Bloc de lest de base Blocco di zavorra alla base		4,4	1,2	0,3	3800	
Gancho y Carro / Hook and Trolley Lasthaken - Laufkatze / Crochet - Chariot Gancio e Carrello		0,75	0,12	1,40	164	
		0,96	1,10	0,62	184	
Cabeza de torre / Tower head Turmspitze / Porte - flèche Testa di torre		2,94	1,8	1,7	2998	
Viga principal base / Main base beam Hauptträger für fundamentkreuz Poutre de châssis de base Trave principale della base		5,72	0,67	0,65	1570	
Semiviga secundaria base / Half base beam Halbträger für fundamentkreuz Semipoutre de châssis de base Semitrave secundaria della base		2,77	0,45	0,665	800	
Elemento de empotre / Foundation anchor Fundamentanker / Élément de scellement El anegare		S51	1,2	1,38	1,42	496
		S60/8	1,85	1,85	1,6	956
		S60R/16	1,85	1,85	1,6	1108

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DIN/FEM 
UNE 58-101-92 FEM 1001-87
According to EC 98/37 instruction

Windzone A-B / DIN 15019
Viento max. fuerza de servicio 150km/h
Maximun wind speed out of service 150 km/h
Maximale windstärke, ohne Betrieb 150 km/h
Vent maximum, hors service 150 km/h
Vento max, fuori di servizio 150 km/h



SAEZ

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