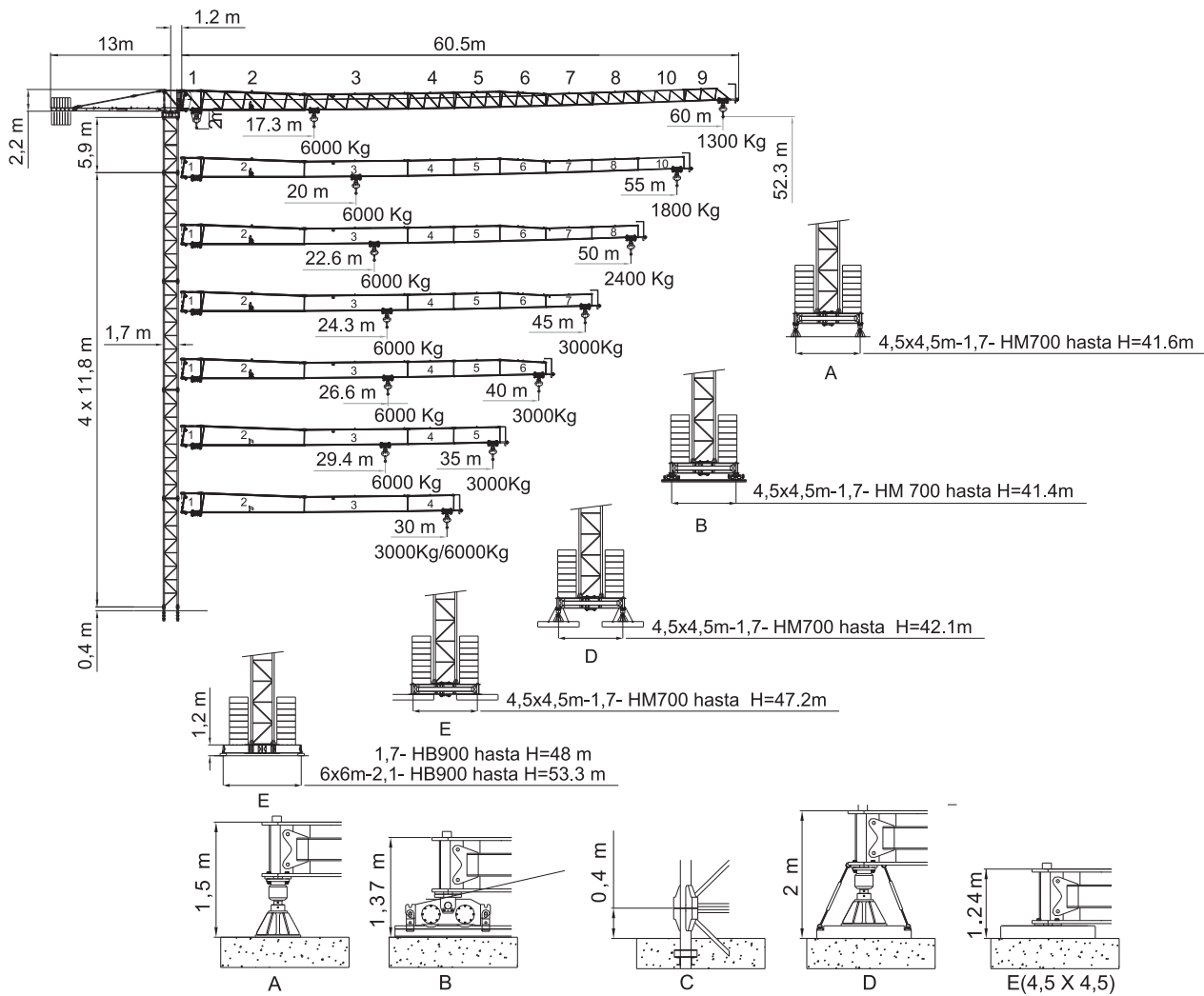


TLS 90% '19



60 m	10	15	20	25	30	31.8	35	40	45	50	55	60	m	
	3000	3000	3000	3000	3000	3000	2670	2255	1934	1679	1472	1300	Kg	
	10	15	17.3	20	25	30	35	40	45	50	55	60	m	
	6000	6000	6000	5067	3857	3067	2511	2098	1780	1527	1321	1150	Kg	
55 m	10	15	20	25	30	35	36.8	40	45	50	55		m	
	3000	3000	3000	3000	3000	3000	3000	2709	2337	2041	1800		Kg	
	10	15	20	25	30	35	40	45	50	55			m	
	6000	6000	6000	4600	3682	3035	2555	2184	1889	1650			Kg	
50 m	10	15	20	25	30	35	40	41.7	45	50			m	
	3000	3000	3000	3000	3000	3000	3000	3000	2737	2400			Kg	
	10	15	20	22.6	25	30	35	40	45	50			m	
	6000	6000	6000	6000	5339	4292	3555	3007	2585	2250			Kg	
45 m	10	15	20	25	30	35	40						m	
	3000	3000	3000	3000	3000	3000	3000						Kg	
	10	15	20	24.3	25	30	35	40	45				m	
	6000	6000	6000	6000	5825	4694	3897	3306	2850				Kg	
40 m	10	15	20	25	30	35	40						m	
	3000	3000	3000	3000	3000	3000	3000						Kg	
	10	15	20	25	26.6	30	35	40					m	
	6000	6000	6000	6000	6000	5224	4349	3700					Kg	
35 m	10	15	20	25	30	35							m	
	3000	3000	3000	3000	3000	3000							Kg	
	10	15	20	25	29.4	30	35						m	
	6000	6000	6000	6000	6000	5870	4900						Kg	
30 m	10	15	20	25	30								m	
	3000	3000	3000	3000	3000								Kg	
	10	15	20	25	30								m	
	6000	6000	6000	6000	6000								Kg	

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

	60 m			55 m			50 m			45 m		
	A	B	C	A	B	C	A	B	C	A	B	C
	7	1	-	7	1	-	6	2	-	6	1	-
	19000 Kg			19000 Kg			18000 Kg			16500 Kg		

	40 m			35 m			30 m		
	A	B	C	A	B	C	A	B	C
	5	1	-	3	3	-	4	-	-
	14000 Kg			12000 Kg			10000 Kg		

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

Mecanismos
Mechanisms
Antriebe
Mécanismes
Meccanismi.

33 Hp (24Kw) - 3vel. H.B.G. 88 Mts S/RØ12								
 270 m		m/min	7,4	37	74	3,7	18,5	37
		Kg	3000	3000	1500	6000	6000	3000
		Kw	24	24	24	24	24	24
		m/min	11 / 37 / 75			11 / 37 / 75		
		Kw	3,0			3,0		
		r.p.m	0,3	0,6	0,9	0,3	0,6	0,9
		Nm	2 x 65			2 x 65		
		m/min	12 / 24			12 / 24		
		Kw	4 x 3			4 x 3		

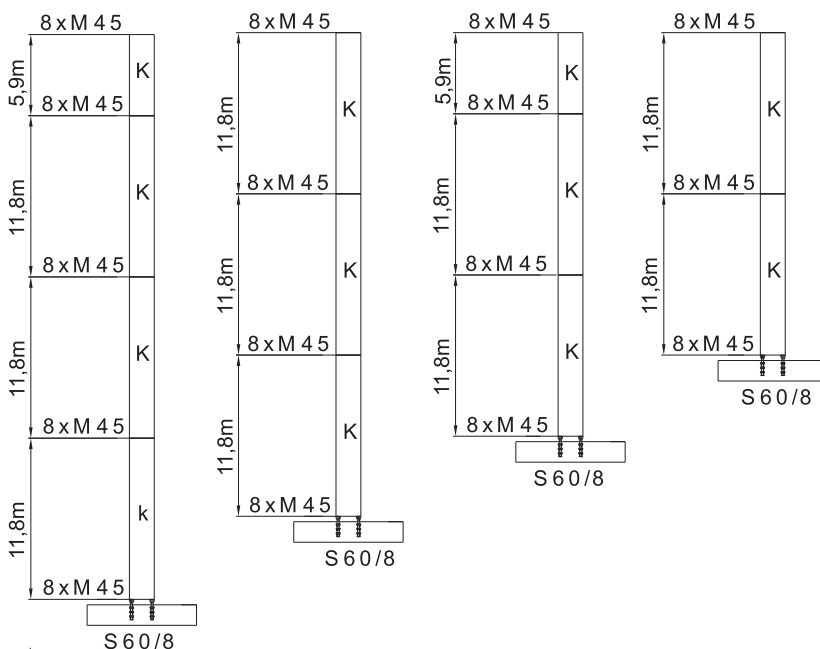
* 33 Hp (24Kw) - INV. H.B.G. 88 Mts S/RØ 12								
 270 m		m/min	0 → 9	0 → 37	0 → 80	0 → 4,5	0 → 18,5	0 → 40
		Kg	3000	3000	1500	6000	6000	3000
		Kw	24	24	24	24	24	24

	400 V 50 Hz	100m 4x25mm ²	GENERADOR 150 kVA	POTENCIA INSTALADA 46 KW
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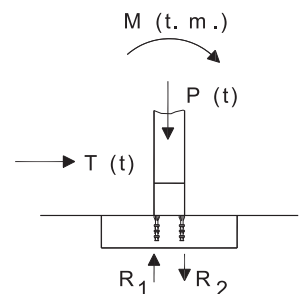
	380 V 60 Hz	100m 4x25mm ²	OPCIONAL
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- * Opcional / Optional / Opzionale /
- Elevación / Hoisting / Heben / Levage / Sollevamento
- Distribución / Trolleying / Katzfahren / Distribution / Diritubuzione
- Orientación / Slewing / Schwenken / Orientation / Rotazione
- Traslación / Travelling / Schienenfahren / Translation / Traslazione
- Cable / Rope / Seil / Câble / Fune

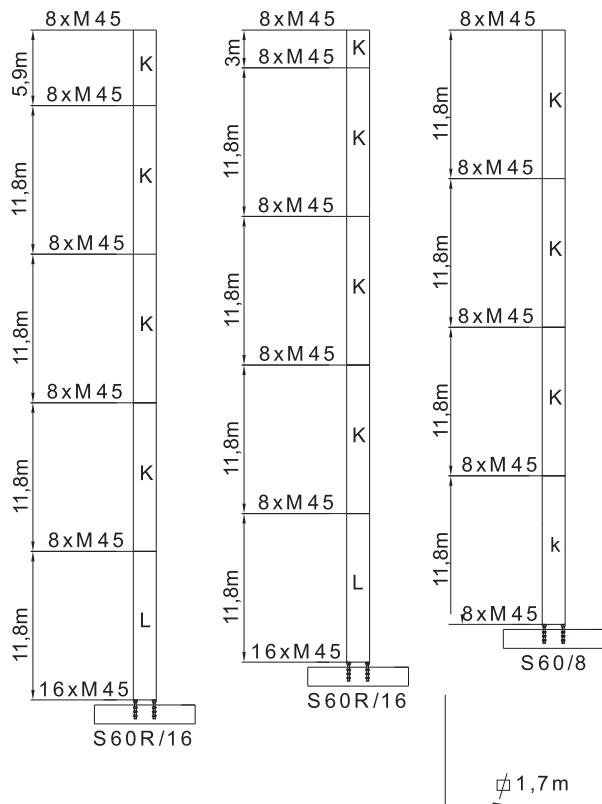
Windzone A-B / DIN 15019
Mástil / Reacciones
Masts / Reactions
Maste / Eckdrücke
Mat / Réactions
Torre / Reazioni



K = S 17 8/8
L = S 17 16/8
N = S 17-S 21 8/8
O = S 21 8/8
P = S 21 16/8



H (m)	40.5	34.6	28.7	22.8
M (T·m)	286.6	242.1	202.4	168.7
T (t)	9	8	7	5.6
P (t)	53.5	51.3	49	47
R ₁ (t)	111	79.1	51	45
R ₂ (t)	137.6	105	83.4	77.1



Windzone A-B / DIN 15019

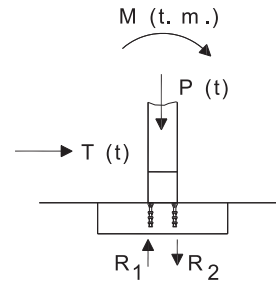
Mástil / Reacciones

Masts / Reactions

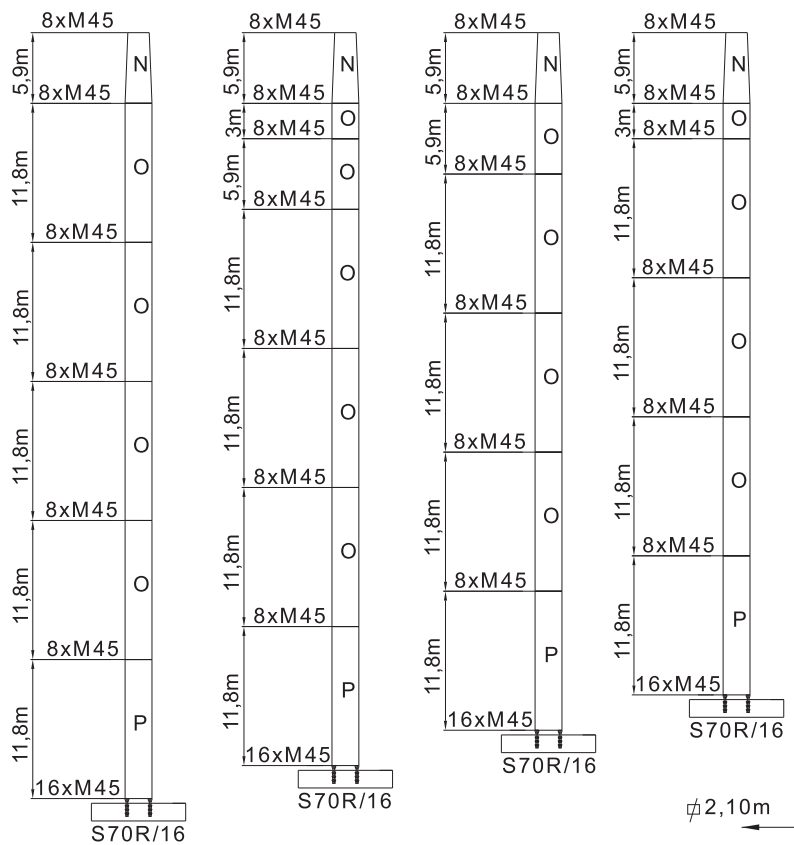
Maste / Eckdrücke

Mat / Réactions

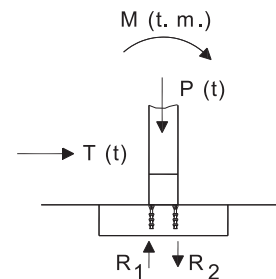
Torre / Reazioni



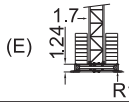
H (m)	52.3	48.9	46.4
M (T·m)	411.7	411	336.2
T (t)	11.2	11	10.1
P (t)	57.7	57	55.6
R ₁ (t)	185	185	146
R ₂ (t)	214	214	174



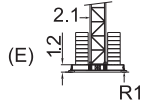
K = S17 8/8
L = S17 16/8
N = S21-S17 8/8
O = S21 8/8
P = S21 16/8



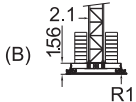
H (m)	64.1	60.7	58.2	55.2
M (T·m)	586.7	537.3	488.3	442.7
T (t)	13.4	12.8	12.3	11.8
P (t)	68.6	67.2	65.8	64.4
R ₁ (t)	200.7	183	165.2	148.8
R ₂ (t)	235	216.5	198	181.1



4,5 x 4,5 m-1,7- HM 700	R1 (t)	73,6 t	74,4 t	75,6 t	78,8 t	80 t	81,3 t
	H (m)	17.7 m	20.7 m	23.6 m	26.6 m	29.5 m	32.5 m
	Z (t)	83,6 t	83,6 t	83,6 t	91,2 t	91,2 t	91,2 t
4,5 x 4,5 m-1,7- HM 700	R1 (t)	82,4 t	86,7 t	88,1 t	94,4 t	95,3 t	
	H (m)	35.4 m	38.4 m	41.3 m	44.3 m	47.2 m	
	Z (t)	91,2 t	102,6 t	102,6 t	121,6 t	121,6 t	

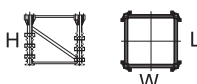
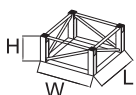
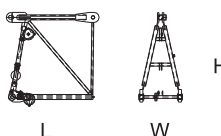
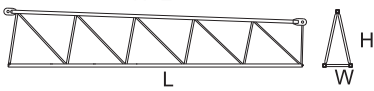
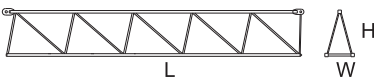
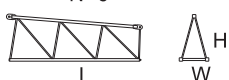
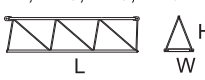
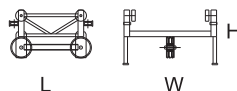
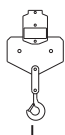
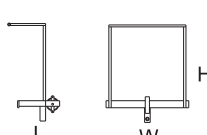
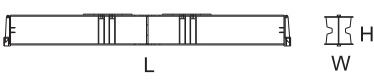
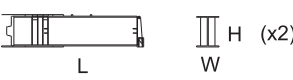
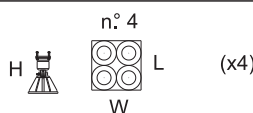
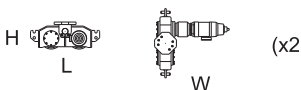
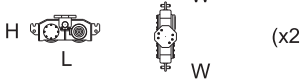


6 x 6 m-2,1/1,7- HB 900	R1 (t)	46,5 t	49,1 t	53,8 t	62,5 t	71,9 t	
	H (m)	23.9 m	29.8 m	35.7 m	38.7 m	41.7 m	
	Z (t)	53.2 t	53.2 t	53.2 t	53,2 t	57 t	
6 x 6 m-2,1/1,7- HB 900	R1 (t)	81,6 t	92,6 t	104,1 t	116,5 t		
	H (m)	44.7 m	47.7 m	50.7 m	53.7 m		
	Z (t)	68,4 t	76 t	87,4 t	95 t		



6 x 6 m-2,1/1,7- HB 900	R1 (t)	46,5 t	49,1 t	53,8 t	62,5 t	71,9 t	
	H (m)	24.2 m	30.1 m	36 m	39 m	42 m	
	Z (t)	53.2 t	53.2 t	53.2 t	53,2 t	57 t	
6 x 6 m-2,1/1,7- HB 900	R1 (t)	81,6 t	92,6 t				
	H (m)	45 m	48 m				
	Z (t)	68,4 t	76 t				

	L(m)	W(m)	H(m)	Peso(Kg)
Contrapluma / Counter-jib / Gegenausleger / Contre-fleche / Controbraccio				
	11,94	1,80	0,60	2575
Bloque de contrapeso / Counterweight blocks / Gegengewichtsblöcke / Bloc de contrepoids / Blocco di contrappeso				
	3,20	1,25	0,29	2500
	1,83	1,25	0,29	1500
Base Cruciforme 4,5 X4,5 / Crossbase 4,5 X 4,5 / Fundamentkreuz 4,5 X 4,5 / Châsis 4,5 X 4,5 / Carro base 4,5 X 4,5				
	6,70	1,10	1,20	5750
Vigas auxil. de base / Half base beams / Halbträger für fundamentkreuz / Semipoutre de châsis de base / Travi di congiunzi di congiunzione				
	4,40	0,30	0,55	220
Bloque lastre de base / Base ballast block / Grundballastblöcke / Bloc de lest de base Blocco di zavorra alla base				
	4,40	0,30	1,20	3800
Bloque apoyo de base / Base support block / Grundballastblöcke / Bloc de appui de base Blocco di appoggio alla base				
	3,75	0,5	1,2	5400

			L(m)	W(m)	H(m)	Peso(Kg)
Elemento de empotre / Foundation anchor / Fundamentanker / Élément de scellement / El annegare	  Dima	S60/8 S60/R16 S70/8 S70R/16 S75R 8 /20 S75R16/22 S75R16/26 S75R24/26 Dima	1,85 1,85 2,27 2,27 0,35 0,5 0,5 0,5 2,31	1,85 1,85 2,27 2,27 0,35 0,5 0,5 0,5 2,34	1,6 1,6 1,6 1,6 1,6 (x4) 2,5 (x4) 2,5 (x4) 2,5 (x4) 0,8	956 1108 1122 1274 300 710 790 850 1650
Pluma tramo primero / Jib heel section / Ausleger-Anlenkstück / Pied de fleche / Settore articolato di braccio	 L W		2,4	1,3	2,36	950
Elemento intermedio de pluma / Intermediate jib section / Ausleger-Zwischenstück / Elément interm. de fleche / Spezzone di braccio	Nº 2  L W Nº 3, Nº 4, Nº 5  L W Nº 6  L W Nº 7, Nº 8, Nº 9,Nº10  L W	2 3 4 5 6 7 8 9 10	11,60 11,60 5,30 5,30 5,30 5,30 5,30 5,15 5,30	1,13 1,13 1,13 1,13 1,13 1,13 1,13 1,13 1,13	2,25 1,80 1,80 1,80 1,80 1,45 1,45 1,40 1,45	2194 1720 620 530 470 376 326 248 326
Gancho, Carro y Puntera / Hook, Trolley and jib head / Lasthaken - Laufkatze-Cabeça de Lança/ Crochet - Chariot-Pointe de fleche / Gancio - Carrello e Punta freccia	 L W  L W  L W		1,20 0,80 0,80	1,35 0,15 1,20	0,80 1,50 1,40	290 330 108
Viga principal base 6x6 / Main base beam / Hauptträger für fundamentkreuz Poutre de châssis de base / Trave principale della base	 L W		8,65	0,78	0,92	4300
Semiviga secundaria base 6x6 / Half base beam / Halbträger für fundamentkreuz Semipoutre de châssis de base / Semitrave secundaria della base	 L W	(x2)	4,27	0,68	0,97	2025
Niveladores / Levellers / Spindel pyramide / Niveleurs / Piedi regolabile	n.º 4  L W	(x4)	1,20	1,20	0,90	250
Traslacion / Travelling bogies / Kranfahren / Traslacion / Traslazione	 L W  L W	(x2) (x2)	1,15 1,15	1,25 0,25	0,45 0,45	505 450

Elemento de torre TL16 / Tower section TL16 / Turmstück TL16 / Element de mât TL16 / Elemento di torre TL16		L(m)	W(m)	H(m)	Peso(Kg)	
		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
		O	11,8	2,27	2,27	5044
		O	5,9	2,27	2,27	2640
		O	3	2,27	2,27	1545
		P	11,8	2,27	2,27	5700
		N	5,9			3500
		X	6	2,27	2,29	4000
		T	6	2,27	2,29	4300
		U	6	2,31	2,34	5910
		Z	6	2,61	2,34	5980
Unidad de rotacion / Complete slewing unit / Drehbühne / Orientation / Rotazione		3.04	2,00	3.35	5700	
Cabina y soporte / Cabin and support / Kabine und wartungs / Cabine et support / Cabina e supporto		3,00	1,15	2,35	558	

ESPECIFICACIONES SUJETAS A MODIFICACIONES SIN PREVIO AVISO.

Specifications subject to modification without notice.

Obiges kann ohne berstaendigung geaendert werden.

Specifications susceptibles de modification sans avis préalable.

Specifiche suscettibili di variazioni senza preavviso.

DECLINAMOS TODA RESPONSABILIDAD DERIVADA DE LA INFORMACION PROPORCIONADA.

This information is supplied without liability.

Sämtliche Angaben erfolgen ohne Gewähr.

Ces renseignements sont sans garantie.

Le indicazioni contenute si intendono salvo errori ed omissioni.

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

