

No. B 13 04 18894 042

Overend Road
Cradley Heath
West Midlands
B64 7DW
UNITED KINGDOM

Certification Mark:



Parameters:	Couplings:	10, 12, 14, 15, 16, 17, 19, 19-85, 20, 21, 25, 26, 27, 28, 29, 30, 35, 40, 45, 46, 55, 56, 86, 87, 88, 89 F50, M50, M51, M52, 114, 121, 145, A10, A10 type B, A12, A21/A26, A35, A40, A45, A45/type B, BC53
	Flanges:	M58, 60, 61, 62, S62, 63, 64, 65, 67, 68, 69, 70, 75, 115
	Sizes:	5 - 9 for outside diameter of tube from 26.9 - 60.3 mm
	Range of application:	Guard railings, racking, bracing

Further technical datas see page 2 and 3

Tested according to: PPP 52175A:2001

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 713021994

Date, 2013-04-26

(Edgar Harnisch)

Page 1 of 3



C E R T I F I C A T E

Nr. B 13 04 18894 042



Product Service

Technical Data

Material:

Pipe joint Connection: Malleable cast iron EN-G-JMB-350-10 acc. EN 1562
SG cast irons EN-GJS-450-10 acc. EN 1563

Binding screw: Caseharding steel, organic zinc

Scope/requirements:

The permissible loads are based on tensile and bending tests with steel tube, with a minimum wall thickness 3,2 mm.

Starting torque of the set screw: 40 Nm

Safety factor: 2,0

Safety notes:

The permissible working load of the set screws, fixings and building materials must be considered when selecting the type of mounting for the flanges of guard railings.

Due to dynamic load influences screwed connections may loosen. The tight fit of all screw connections must be checked at regular intervals and tightened up if necessary. The interval depends on the respective use and must be laid down by the operator.

The permissible tensile loads are differentiated between straight attachment of the tube with one and/or two set screws and with diagonal attachment of the tube.

The following abbreviations are used in the table:

1 set screw, straight gripping of the tube:	1 ss-str-g-t.
2 set screws, straight gripping of the tube	2 ss-str-g-t.
Diagonal gripping of the tube:	diag.-g-t.

CERTIFICATE

Nr. B 13 04 18894 042



Product Service

type	size	max. bending load (KNm)	1 ss-str-g-t. (KN)	max. tensile load (axial) 2 ss-str-g-t. (KN)	diag.-g-t. (KN)
10	5-9	1,25	8,0	-	-
12	5-8	1,25	8,0	-	8,0
14	5-9	1,25	8,0	-	-
15	5-9	1,25	8,0	-	-
16	5-9	1,25	8,0/5,0	open gripping	-
17	5-9	1,25	3,0	-	-
19	5-9	1,25	8,0/5,0	short gripping	(D-E, see catalogu.
19-85	5-8	1,07	-	7,65	-
20	5-9	1,25	8,0	-	-
21	5-9	1,25	8,0	-	-
25	5-9	1,25	8,0	16,0	-
26	5-9	1,25	8,0	-	-
27	6-8	1,25	8,0	-	5,0
28	6-8	1,25	8,0	-	8,0
29	6-8	1,25	8,0	-	-
30	6-8	1,25	8,0	-	8,0
35	5-9	1,25	8,0	-	-
40	5-9	1,25	8,0	16,0	-
45	5-9	1,25	8,0	-	-
46	5-9	1,25	8,0	-	-
55	8	1,04	4,1	-	-
56	8	2,02	2,6	-	-
86	8	1,02	6,0	-	6,0
87	8	1,02	6,9	-	6,9
88	8	1,02	6,0	-	6,0
89	8	1,02	5,0	-	5,0
A10	7,8	0,38	6,7	-	-
A10 Type B	7	0,42	4,4	-	-
A10 Type B	8	0,73	3,5	-	-
A12	8	1,55	2,9	-	-
A21/A26	8	0,73	5,6	-	-
A35	8	1,09	7,8	-	-
A40	8	0,68	7,9	-	-
A45	7,8	0,50	6,1	-	-
A45/Type B	7	0,71	4,8	-	-
A45/Type B	8	0,80	4,8	-	-
BC53	8	-	5,9	-	-
F50	5-9	1,25	6,5	-	-
M50	5-9	1,25	8,0	-	-
M51	5-9	1,25	8,0	5	-
M52	5-8	1,25	8,0	-	-
114	6-8	1,25	8,0	-	8,0
121	7	1,25	8,0	-	-
145	7	1,25	8,0	16,0	-
M58	M58	1,25	8,0	-	-
60	5-8	1,25	8,0	-	-
61	5-9	1,25	8,0	-	-
62	5-9	1,25	-	16,0	-
S62	7, 8	1,25	-	10,5	-
63	6	1,25	-	-	5,0
64	6-8	0,90	-	16,0	-
65	6	0,40	-	16,0	-
67	8	1,25	-	10,5	-
68	6-8	1,25	-	16,0	-
69	6-8	1,25	-	8,0	-
70	5-8	0,40	8,0	-	-
75	5-8	-	8,0	-	-
115	6-8	1,25	-	10,0	-