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CERTIFICATE

No. B 04 10 18894 027

Holder of Certificate: **Kee Klamp Ltd.**
1 Boulton Road
Reading
Berkshire RG2 ONH
UNITED KINGDOM

Production Facility(ies): 46030

Certification Mark:

Product: **Fitting**

Model(s): **Kee Lite pipe joint connection**

Parameters:

Couplings:	L 10, L 14, L 15, L 19, L 20, L 21, L 25, L 26 L 45, LF 50, LM 50, LB 54, L 114
Flanges:	LM 58, L 61, L 62, L 68, L 152 L 150, L 164 (only size 8)
Sizes:	7 and 8
Material:	Aluminium alloy A 356-T6
Range of application:	i.g. Guard railings, racking, bracing the fittings are not suitable for the use in scuffoldings

Further technical data see page 2 and 3

Tested according to: PPP 52175:2001

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. See also notes overleaf.

Test report no.: 70027372

Date, 2004-10-22

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Technical Data

Material:

Pipe joint connection:	Aluminium alloy A 356 - T6
Clamp screw:	Caseharding steel, organic zinc
Starting torque of the set screw:	39 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.

Only on the condition that the fittings with bottom and wall flanges are mounted on a plane underground the allowed bending moments applies.

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 and slip loads are differentiated between tubes with one and/or two clamp screws gripping on the tube.

The following abbreviations are used in the table:

1 clamp screw, gripping of the tube:	1 cs-g-t.
2 clamp screws, gripping of the tube:	2 cs-g-t.

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type	size	max. bending loads	max. slip load		max. tensile load	
			1 cs-g-t.	2 cs-g-t.	1 cs-g-t.	2 cs-g-t
		(KNm)	(KN)	(KN)	(KN)	(KN)
L 10	7	0,90	7,0	-	6,0	-
L 10	8	1,0	7,0	-	7,0	-
L 14	7	0,3	-	-	7,0	-
L 14	8	0,6	-	-	8,0	-
L 15	7	0,90	-	-	7,0	-
L 15	8	0,75	-	-	8,0	-
L 19 [1]	7	-	7,0	-	7,0	-
L 19 [1]	8	-	8,0	-	8,0	-
L 20	7	0,75	-	-	6,0	-
L 20	8	0,90	-	-	7,0	-
L 21	7	0,40	7,0	-	6,0	-
L 21	8	0,75	8,0	-	8,0	-
L 25	7	1,0	-	14,0	7,0	-
L 25	8	1,0	-	16,0	8,0	-
L 26	7	0,9	7,0	-	7,0	
L 26	8	1,0	7,0	-	8,0	
L 45	7	0,90	7,0	-	-	-
L 45	8	0,90	8,0	-	-	-
L 61	7	0,75	-	-	7,0	-
L 61	8	0,90	-	-	8,0	-
L 62	7	0,75	-	-	-	14,0
L 62	8	0,90	-	-	-	14,0
L 68	7	0,90	-	-	-	14,0
L 68	8	0,90	-	-	-	14,0
L 114	7	0,90	7,0	-	-	-
L 114	8	0,75	7,0	-	-	-
L 150	8	1,2	-	-	-	11,0
L 152	7	1,0	-	-	7,0	-
L 152	8	1,2	-	-	8,0	-
L 164	8	1,2	-	-	-	15,0
LM 50 [1]	7	-	7,0	-	-	-
LM 50 [1]	8	-	8,0	-	-	-
LF 50 [1]	7	-	-	-	7,0	-
LF 50 [1]	8	-	-	-	8,0	-
LB 54 [1]	7	-	-	-	7,0	-
LB 54 [1]	8	-	-	-	8,0	-
LM 58 [2]	7/8	-	-	-	10,0	-

[1]) The fittings named LF 50, LM 50, LB 54, LM 58 and L 19 are not suitable to absorb bending load, bending moments are not allowed

[2]) The stated tensile load refers to the swivel eye, tensile direction 45 degrees to flange-base

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