

Lokfix TR

High Strength Carbon Steel & Stainless
Steel threaded rods to be used with Lokfix
E series Chemical Anchors.

Uses

- Steel structural beams and columns fixings.
- Pipe Supports.
- Pump and Machine Foundation fixings.
- Guard rails and Gates.
- Heavy duty ladders.
- Mechanical equipment.
- Insert Plate fixings
- Hand rail fixings
- Gusset plate fixings

Features & Advantages

- Flexible embedment depth range.
- High corrosion resistance with stainless steel grade.
- High performance.
- Cost efficient.
- Approval for M8 to M30 diameters with various grades.
- Suitable with all types of chemical Anchors.
- Suitable for design in Anchor Software.

Description

Lokfix TR is system component for use with Fosroc Chemical anchors range of LOKFIX E Series and LOKFIX P & S.

Lokfix TR comes in following grades of steel.

Lokfix TR5 - 5.8 grade

Lokfix TR8 - 8.8 grade

Lokfix TRA450 - Stainless Steel A4-50

Lokfix TRA470 - Stainless Steel A4-70

Specification Clause

The Threaded Rod used with Lokfix E series and Lokfix P & S should be Lokfix TR of 5.8 or 8.8 or A4 grade of steel.

Standards Compliance

Lokfix TR5 and Lokfix TR8 complies with IS1367 Part 3 for chemical and mechanical properties and IS1367 Part 11 for Electro plating.

Lokfix TRA450 and Lokfix TRA470 complies with IS 1367 Part 14 for chemical and mechanical properties.

Lokfix TR

Steel Strength of Lokfix TR.

Design Tensile steel strength of Lokfix TR.									
Diameter		M8	M10	M12	M16	M20	M24	M27	M30
Lokfix TR5 (5.8 Grade)	kN	12	19	28	52	81	117	153	187
Lokfix TR8 (8.8 Grade)	kN	19	31	45	83	131	188	245	299
Lokfix TRA450 (A4-50 Grade)	kN	6	10	15	28	43	62	80	98
Lokfix TRA470 (A4-70 Grade)	kN	14	22	32	59	91	132	-	-

Design Shear steel strength of Lokfix TR.									
Diameter		M8	M10	M12	M16	M20	M24	M27	M30
Lokfix TR5 (5.8 Grade)	kN	7	12	17	31	49	70	92	112
Lokfix TR8 (8.8 Grade)	kN	12	18	27	50	78	113	147	179
Lokfix TRA450(A4-50 Grade)	kN	4	6	9	16	26	37	48	59
Lokfix TRA470 (A4-70 Grade)	kN	8	13	19	35	55	79	-	-

Material Properties as per IS 1367 Part 3 (Lokfix TR5 & Lokfix TR8 Grade)

S.No	Property class or grade of steel	Chemical Composition Limits % (m/m)				
		C		P	S	B
		min	max	max	max	max
1	5.8	-	0.55	0.05	0.06	0.003
2	8.8	0.25	0.55	0.035	0.035	0.003

S.No	Mechanical & Physical Property		5.8	8.8	
				d ≤ 16 mm	d > 16 mm
1	Minimum Tensile strength (N/mm ²)		520	800	830
2	Lower Yield Stress (N/mm ²)	nom	400	-	-
		min	420	-	-
3	Stress at 0.2% non-proportional elongation (N/mm ²)	nom	-	640	640
		min	-	640	660
4	Percent elongation after fracture	min	-	12	12
5	Reduction area after fracture	% min	-	52	

Lokfix TR

Coating Thickness as per IS 1367 Part 11.

Diameter Range	Minimum Coating Thickness	Maximum Coating Thickness
M8 to M30	5 microns	12 microns

Lokfix TRA4-50 & Lokfix TR A4-70

Chemical Properties as per IS 1367 Part 14.

Property Class or Grade of Steel	Chemical Composition Limits % (m/m)								
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu
A4	0.08	1	2	0.045	0.03	16 to 18.5	2 to 3	10 to 15	1

Mechanical Properties as per IS 1367 Part 14.

Grade	Property Class	Thread diameter range	Tensile strength	Stress at 0.2% permanent strain	Elongation after fracture
			min	min	min
			N/mm ²	N/mm ²	mm
A4	50	≤ M39	500	210	0.6d
	70	≤ M24	700	450	0.4d

Storage:

Lokfix TR should be stored in a dry place with no moisture around to prevent from early rusting.

Lokfix TR

Product Installation & Supply:

Lokfix TR is supplied in stated desired diameter and length along with single nut and single washer as standard.

Apart from standard sizes, customised lengths may be supplied subject to agreement with Fosroc Sales team.

Product name	Diameter of Threaded Rod (mm)	Total Anchor Length (mm)	Drill Bit diameter (mm)	Standard Embedment Depth (mm)	Washer Thickness (mm)	Nut Height (mm)	Width across flat (mm)	Tightening Torque (N-m)	To be used with
10X115	10	115	12	90	2.2	8.4	16	30	Lokfix E75 Lokfix E55 Lokix E35 Lokfix P Lokfix S
10X150	10	150	12	90	2.2	8.4	16	30	
10X200	10	200	12	90	2.2	8.4	16	30	
12X160	12	160	14	110	2.7	10.8	18	50	
12X200	12	200	14	110	2.7	10.8	18	50	
12X250	12	250	14	110	2.7	10.8	18	50	
12X300	12	300	14	110	2.7	10.8	18	50	
16X150	16	170	18	125	3.3	14.8	24	100	
16X170	16	200	18	125	3.3	14.8	24	100	
16X200	16	250	18	125	3.3	14.8	24	100	
16X250	16	300	18	125	3.3	14.8	24	100	
16X300	16	350	18	125	3.3	14.8	24	100	
16X400	16	500	18	125	3.3	14.8	24	100	
20X240	20	240	24	170	3.3	18	30	160	
20X260	20	260	24	170	3.3	18	30	160	
20X300	20	300	24	170	3.3	18	30	160	
20X350	20	350	24	170	3.3	18	30	160	
24X300	24	300	28	210	4.3	21.5	36	240	
24X450	24	450	28	210	4.3	21.5	36	240	
30X400	30	400	35	270	4.3	25.6	46	300	
30X500	30	500	35	270	4.3	25.6	46	300	



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Important note :

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