

Part no.	Section (mm)	Quantity	Working Drawing	Length	Weight	Surface to be painted	Total weight (finished)	Remarks
			(Dimension in mm)	Single/pc mm	total m	kg / pc	total kg	
a	Flat 80 / 8 ℓ = 500	2		500	1.00	2.45	4.90	0.08 0.16 5.00
b	Flat 160 / 10 ℓ = 1100	4		1100	4.40	13.34	53.36	0.36 1.44 54.24
c	IS Square bar 80 ℓ = 150	2		150	0.30	4.90	9.80	0.04 0.08 9.85
d	Rod 10 ℓ = 110	4		110	0.44	0.07	0.28	— — 0.29
e	Rod 45 ℓ = 1000	2		1000	2.00	11.52	23.04	0.05 0.10 23.10
f	Hexagonal nut M 45	2		—	—	0.77	1.54	Galvanized
2	Flat 40 / 6 ℓ = 460	3		460	1.38	0.84	2.52	— — —
a	Channel ISMC 200-500	2		500	1.00	10.71	21.42	0.25 0.50 21.73
b	Plate 183/60/10	4		—	—	0.79	3.16	0.03 0.12 3.23
c	Plate 480/180/8	2		—	—	5.03	10.06	0.08 0.16 10.16
d	Plate 200/66/10	4		—	—	1.04	4.16	0.03 0.12 4.23
e	Plate 220/100/12	4		—	—	1.72	6.88	0.03 0.12 6.95
4	Pin 90 ℓ = 180	1		180	0.18	8.88	8.88	Apply grease only 8.92
5	Split pin 8 ℓ = 150	2		—	—	0.06	0.12	Bright steel —
a	Channel ISMC 125-1000	4		1000	4.00	12.61	50.44	— — —
b	Plate 120/120/6	4		—	—	0.64	2.56	— — —
7	Flat 40 / 6 ℓ = 1160	2		1160	2.32	2.17	4.34	— — —
8	Angle 50/50/6 ℓ = 680	2		680	1.36	2.96	5.92	— — —

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			(Dimension in mm)	Single/pc mm	total m	kg / pc	total kg	
9	Flat 100 / 10 ℓ = 1700	4		1700	6.80	13.20	52.80	— — —
10	Flat 40 / 6 ℓ = 662	1		662	0.66	1.23	1.23	— — —
11	Hexagonal nut M 45	6	This part is identical to part no. 1f	—	—	0.77	4.62	— — —
12	Hexagonal bolt M 12 x 40 IS 1363	32		—	—	0.049	1.57	Galvanized — 2 pcs. extra. Ref: IS 1363-1967
13	Hexagonal bolt M 16 x 60 IS 1363	35		—	—	0.12	4.20	Galvanized — 3 pcs. extra. Ref: IS 1363-1967
14	Hexagonal nut M 12 IS 1363	32		—	—	0.018	0.58	Galvanized — 2 pcs. extra. Ref: IS 1363-1967
15	Hexagonal nut M 16 IS 1363	35		—	—	0.032	1.12	Galvanized — 3 pcs. extra. Ref: IS 1363-1967
16	Plain washer 17 thickness = 4	35		—	—	0.015	0.53	Galvanized — 3 pcs. extra.
17	Rod 25 ℓ = 2650	1		2650	2.65	10.20	10.20	0.04 0.04 10.33 (Partly painted) Used for fixing Tirtor Machine during erection.
TOTAL (1 - 17) =				290.23 kg 2.84 m ² 158.03 kg				

18	Rod 25 ℓ = 250		—	—	—	—	—	Ribbed torsteel cold bending required.
19	Plate 240/220/16		—	—	6.34	0.12	—	Weight (finished) Galvanized (0.61 kg/m ² Surface Area + Wt. of Steel) kg.
20	Hexagonal bolt M 16 x 60 IS 1363	Identical to part no. 13	—	—	0.12	—	Galvanized	Ref: IS 1363-1967
21	Plain washer 17 thickness = 4	Identical to part no. 16	—	—	0.015	—	Galvanized	—
22	Hexagonal nut M 16 IS 1363	Identical to part no. 15	—	—	0.032	—	Galvanized	Ref: IS 1363-1967
23	Taper washer 18 IS 5372	Taper washer nominal hole size 18 as per ISI	—	—	0.035	—	Galvanized	Ref: IS 5372-1975
24	Flat 100/10 ℓ = 835		835	—	6.41	—	—	Used for extending the length of part no. 9.
25	Mortar container Sheet 1 = 0.5		1400	—	0.21	—	—	Two units per anchor bar (18)
TOTAL (18 - 25) =				kg m ² kg				

26	Open thimble	1	Thimble to ISI standard for cable 16mm	—	—	*	Galvanized	Ref: IS 2315-1978
27	Bulldog grip	*	M.S. forged bulldog grip to ISI standard for cable 16mm	—	—	*	Galvanized	Ref: IS 2361-1970
GRAND TOTAL =				kg m ² kg				

Steel parts to be Galvanized :	156.14 kg	Hot Dip Galvanization : IS 2629, IS 2633
Steel parts to be Painted :	2.84 m ²	Weight of Zinc Coat : 0.61 kg / m ²

Cable 16mm	Bulldog for one cable	grips	Weight (kg/pc)
36	7	2.75	1.85
40	8	3.20	2.40