

Part no.	Section	mm	Quantity	Working Drawing (Dimension in mm)	Length Single Pc mm	Total m	Weight kg/Pc	Total kg	Surface m ² /Pc	Weight Galvanized Total kg	Remarks	
1	a	Angle 40 x 40 x 3 - I180 Hot rolled Ref.: IS 811 and IS 808	16		1180	18.880	2.124	33.984	0.189	-	35.375	Weight of one - welded unit = 24.752 kg. Galvanized unit = 26.335
	b	Angle 40 x 40 x 3 - I180 Hot rolled Ref.: IS 811 and IS 808	4		1180	4.720	2.124	8.496	0.189	-	8.844	
	c	RI - bar 8 mm - 589	14		589	8.246	0.233	3.262	0.015	-	3.357	
	d	Flat 25 x 3 - 520	4		520	2.08	0.306	1.224	0.029	-	1.277	
2	Hexagonal bolt M 12 x 70		8.4		-	-	0.073	0.613	Galvanized	-	5% extra pieces Ref.: IS 1363	
3	Hexagonal nut M 12		8.4		-	-	0.018	0.151	Galvanized	-	5% extra pieces Ref.: IS 1363	
(STANDARA PART)				TOTAL (1-3) =					47.73 kg.		48.85 kg	
1	a	Angle 40x40x3 - I375 Hot rolled Ref.: IS 811 and IS 808	16		1375	22.00	2.475	39.60	0.22	-	41.219	Weight of one - welded unit = 26.5365 Galvanized unit = 27.5695
	b	Angle 40x40x3 - I375 Hot rolled Ref.: IS 118 and IS 808	4		1375	5.50	2.475	9.90	0.22	-	10.30	
	c	RI - bar 8 mm - 589	16		589	17.67	0.233	3.728	0.015	-	3.930	
	d	Flat 25 x 3 - 520	14		520	7.28	0.306	4.284	0.029	-	4.532	
2	Hexagonal bolt M 12 x 70		8.4		-	-	0.073	0.613	Galvanized	-		
3	Hexagonal nut M 12		8.4		-	-	0.018	0.151	Galvanized	-		
(SPECIAL PART)				TOTAL (1-3) =					58.276kg.		59.981kg	

Welding Length per Grating	Element		Element	
	Single length (mm)	To length (mm)	Single length (mm)	To length (mm)
Standard part	40	2800	20	400
Special part	40	3200	20	1400

NOTES

- 1) To obtain uniformity, use of templates and jigs is mandatory for holing, bending and welding of assembly.
- 2) All parts or bundles and packages with identical parts have to be labelled or marked with the respective part number by the workshop.
- 3) Sharp corners have to be grinded after welding.
- 4) All nuts and locknuts have to be retightened after erection and then the threads of the bolts to be destroyed.
- 5) Part 1a) and 1b) must be hot rolled steel angles.
- 6) Special walkway deck parts are provided for the case that the actual span of the bridge does not correspond with the theoretical span. The special parts should be cut according to the length required at the end of the walkway. Further instructions for steel deck assembly are given on the drawings no. 31-34.

STANDARD PART

Serial Number	Item	Total weight kg.
1	Structural steel : (a) Standard part :	46.966
2	Screws, bolts, nuts,	0.764
Total		47.730

SPECIAL PART

Serial Number	Item	Total weight kg.
1	Structural steel : a) Special part :	57.512
2	Screws, bolts, nuts,	0.764
Total		58.276

Hot Dip Galvanisation : Ref.: IS 2629, IS 2633
Weight of Zinc - coat 0.61 kg/m²

TOTAL TRANSPORTATION WEIGHT	
STANDARD PART	49.61 Kg
SPECIAL PART	60.74 Kg

MoLD / DoLIDAR / Trail Bridge Section
Long Span Trail Bridge Standard

Bridge No: _____ Name: _____

Span: _____

Working & Assembly Drawing :

Steel Walkway Deck
For Suspension Bridge

Units : (L + 0.20) / 1.2	Standard part	1 unit = steel parts for 1.20m
Units : 2(Two)	Special part	bridge length

Date: August 2004

Drawing No. 08