

Bill of Material for Module Mounting Structures for Railways 1.7 MW

NOTE:

1. THE BOM MENTIONED BELOW IS FOR 1 TABLE OF 40 MODULES OF RATING 320Wp.

No. of tables required for 1.7MW			148	Total DC Output'				1894400	1.894	MW		
Mark No	Item Description (Dimensions in mm)	Grade	Galvanization	Lip	Nos.	Length/ Area	CS Area	Unit Wt	Total weight w/o galvanization (Approx)	Total weight with galvanization (Approx)	Total nos to be Supplied for 147 Tables	
	COLD FORMED SECTION			mm		mm/m m²	cm2	kg/m OR kg/m²	kg	kg		
	Column		80 microns or A per IS 4759 whichever is maximum									
CL1	150CS50X2.5	E350		15	7	3123	6.532	5.13	112.09	119.94	1036	
	Rafter											
RF1	90CS50X2	E350		15	7	3286	4.103	3.22	74.09	79.27	1036	
	Purlin											
PU1	80CS40X1.6	E350		10	4	3320	2.69	2.11	28.04	30.01	592	
PU2	80CS40X1.6	E350		10	4	3320	2.69	2.11	28.04	30.01	592	
PU3	80CS40X1.6	E350		10	4	3310	2.69	2.11	27.96	29.92	592	
PU4	80CS40X1.6	E350		10	4	3370	2.69	2.11	28.47	30.46	592	
PU5	80CS40X1.6	E350		10	4	3370	2.69	2.11	28.47	30.46	592	
PU6	80CS40X1.6	E350		10	4	3370	2.69	2.11	28.47	30.46	592	
	Strut Bracing											
BR1	50CS25X2	E350		10	7	1401	2.103	1.65	16.19	17.32	1036	
BR1A	40LU40x2.0	E350		7	1706	1.526	1.20	14.31	15.31	1036		
	HOT ROLLED SECTION											
	Plates											
PL1	Purlin splice (140X70X4)	E250			20	140	2.8	2.20	6.15	6.59	2960	
PL2	Column Plate (320x100x6)	E250			7	320	6	4.71	10.55	11.29	1036	
								Total Weight / table		431.02		
Structure BOM for 1 SMB. (Total No of SMBs=16)												
Mark No	Item Description	Yield Strength	Galvanization		Nos. for 1 SMB Structure	Length/ Area	CS Area	Unit Wt	Weight of 1 Pc	Total weight with galvanization (Approx)	Total nos to be Supplied for 16 Tables	
	COLD FORMED SECTION					mm/m m²	cm2	kg/m OR kg/m²	kg			
	Angles		80 microns or A per IS 4759 whichever is maximum									
ANGLE	50LU50X5.0	250Mpa			3	3010	4.462	3.50	11.28	12.07	48	
	Hot Rolled Plate.											
STRIP	50X5	250Mpa			1	3010	2.5	1.96	6.32	6.76	16	
Total Weight per SMB										42.98	Kg	

Total Weight to be supplied

64.047

MT

Total Weight to be supplied (Round off)

64.000

MT

Handwritten signature and date:
21/05/19
(M. Yawank)