



WOODEN LONGITUDINAL RUNNER SECTIONAL VIEW

NOTE :-

1. LOADING SHOULD BE SYMMETRICAL W.R.T. LONGITUDINAL AXIS AS WELL AS TRANSVERSE AXIS PASSING THROUGH CENTRE OF WAGON FLOOR.
2. IN CASE STEEL SLABS ARE LOADED IN LAYERS SEPARATED WITH WOODEN RUNNERS AS PER CUSTOMER'S REQUIREMENT, WOODEN RUNNERS OF SIZE 100MMX50 MM. ARE PROVIDED IN INTERMEDIATE LAYERS IN ADDITION TO THE BOTTOM WOODEN RUNNER OF SIZE 100MMX100 MM.
3. HEIGHT TO WIDTH RATIO OF CONSIGNMENT SHOULD NOT EXCEED 1.5 IN ANY CASE.
4. LENGTH OF WOODEN RUNNER MUST BE MORE THAN WIDTH OF LAYERS.
5. STRAPPING SHOULD BE SYMMETRICAL TO EXTENT POSSIBLE MAINTAINING LIMITS AS INDICATED.
6. ALL SLABS ARE TO BE SECURED USING HEAVY DUTY STEEL STRAPS AS INDICATED
7. THE END STRAPS SHOULD NOT MORE THAN 450 MM AWAY FROM EDGES AND MAXIMUM DISTANCE BETWEEN IMMEDIATE STRAPS IS 1450 mm.
8. NO. OF LAYERS SHOULD BE AS PER CONVENIENCE AND REQUIREMENT.
9. ALL SLABS ARE TO BE SECURED USING HEAVY DUTY STEEL STRAPS AS INDICATED
10. NO. OF WOODEN LONGITUDINAL RUNNER PER SLAB SHALL NOT BE LESS THAN AS INDICATED
11. LOADING OF SLABS SHOULD BE SUCH THAT :-
  - 11.1 THE LOAD SHOULD NOT EXCEED WAGON'S MAXIMUM PERMISSIBLE AXLE LOAD.
  - 11.2 THE WEIGHT IMPOSED ON BOTH THE BOGIES SHOULD BE IDENTICAL (EVEN IN CASE OF NON STANDARDS STEEL SLABS).
12. STEEL STRAP SHALL BE CONFIRMING TO EN 13246 TYPE 3.2 OR EQUIVALENT.
13. ITEM NO. 7 I.E. STEEL ANGLES OF SUITABLE HEIGHT (APPROX. 300mm. TO 500mm.) ARE TO BE PROVIDED AS INDICATED
14. FOR BOST WAGON, SLAB LENGTH SHOULD BE RESTRICTED TO MAX. 12.5 MTRS.
15. ITEM NO. 5 (04 NOS) FOR STRAPPING BETWEEN SOLEBAR TO SOLEBAR SHALL NOT BE USED IN BOST WAGON LOADING.
16. SIDE STANCHION (L.H. & R.H.) MUST BE ENSURED IN UPRIGHT POSITION AFTER LOADING AND IN DOWNWARD POSITION DURING LOADING/UNLOADING.
17. THE MINIMUM NO. OF EACH TYPE OF LONGITUDINAL/LATERAL STRAPS SHALL BE AS INDICATED IN THE DRAWING.
18. THE INITIAL TENSION IN THE STRAP SHALL BE IN THE RANGE OF 300kg TO 500kg.
19. WOOD OF ADEQUATE STRENGTH WHICH CAN SUSTAIN THE LOAD IMPARTED ON IT SHALL BE USED.
20. SECURING ARRANGEMENT SHALL BE CERTIFIED BY THE CONCERN RAILWAY.
21. THIS RDSO DRAWING IS AN INDICATIVE DRAWING AS THE SIZE AND SHAPE OF CONSIGNMENT VARIES. THE CONSIGNEE MAY TAKE ADDITIONAL MEASURE TO SECURE THE LOAD FOR SAFE OPERATION.

① SPECIFICATION FOR STEEL STRAP

S. No.	PURPOSE	WIDTH (IN MM)	THICKNESS (IN MM)	PERCENTAGE ELONGATION MIN.	TENSILE ST. (N/MM <sup>2</sup> )	PHYSICAL
1.	FOR BUNDLING & UNITISING	31.75	1.0	6	925	DEBURRED EDGE PAINTED & WAXED
2.	FOR SECURING WITH WAGON BODY	31.75	1.0	6	925	DEBURRED EDGE PAINTED BROWN & WAXED

ITEM	DESCRIPTION	NO.OFF	MTL&SPEC	REMARKS
7	ANGLE (100X100X6)	AS PER REQUIREMENT	STEEL	
6	ISOLATION HOOK	AS PER REQUIREMENT	WD-15057-S-06	
5	HIGH TENSILE STEEL STRAP (FOR SECURING WITH WAGON BODY)	AS PER REQUIREMENT	EN 13246 TYPE 3.2	③
4	HIGH TENSILE STEEL STRAP (FOR BUNDLING & UNITIZATION)	AS PER REQUIREMENT	EN 13246 TYPE 3.2	
3	INTERMEDIATE WOODEN RUNNER	AS PER REQUIREMENT	WOOD	
2	WOODEN RUNNER	AS PER REQUIREMENT	WOOD	
1	STEEL SLABS	AS PER REQUIREMENT	STEEL	

③	-	WD-23075	NOTE NO. 16 TO 21 ADDED.	08/23	-
②	-	WD-21112	NOTE NO. 16 ADDED	01/22	
①	-	WD-21115	NOTE NO. 14 & 15 ADDED AND BOST WAGON & ITS VARIANTS ADDED IN TITLE BLOCK.	12/21	
ALT.	ITEM	AUTHY.	DESCRIPTION	DATE	ASSLY. DRGS.

SUPERSEDED BY: [ ] DATE: [ ]

SCALE PASSED BY: G.R.SHARMA 10/21

CHECKED BY: A.P.SINGH 10/21

DRAWN BY: DINESH 10/21

TRACED BY: [ ]

COMPARED BY: [ ]

J.S.NO. WD-21095 10/21

LOADING AND SECURING OF STEEL SLABS (9-13MTRS) ON BRN AND BOST WAGON & ITS VARIANTS ①

GROUP: [ ]

B.G. R.D.S.O. [W] WD-21095-S-01