



**PRODUCT MANUAL FOR
DUNNAGE PALLET - WAREHOUSING
ACCORDING TO IS 13714:1993**

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure coherence of practice and transparency in operation of certification under Scheme-I of Bureau of Indian Standards (Conformity Assessment) Regulations, 2018 for various products. The document may also be used by prospective applicants desirous of obtaining BIS certification licence/certificate.

1.	Product	:	IS 13714:1993
	Title	:	Dunnage Pallets - Warehousing
	No. of Amendments	:	Nil
2.	Sampling Guidelines:		
a)	Raw material	:	Mild Steel Countersunk head wire Nails - IS 723:1973 Timber for species identification - Annex A of IS 13714:1993
b)	Grouping guidelines	:	Not Applicable - as only one Size (Length x Width x Height) is specified in ISS
c)	Sample Size	:	Dunnage Pallet -1 No.
3.	List of Test Equipment	:	Please refer ANNEX – A
4.	Scheme of Inspection and Testing	:	Please refer ANNEX – B
5.	Possible tests in a day :		
	(i) Dimensions (Cl 4) (ii) Visual Defects and Moisture content (Cl 5.1.2) (iii) Construction (Cl 6.0) (iv) Workmanship and Finish (Cl 7.0) (v) Marking (Cl. 10)		
6.	Scope of the Licence :		
	“Licence is granted to use Standard Mark as per IS 13714:1993 with the following scope:		
	Name of the product	Dunnage Pallets-Warehousing	

ANNEX A**List of Test Equipment***Major test equipment required to test as per the Indian Standard*

Sl. No.	Tests used in with Clause Reference	Test Equipment
1.	Dimension. Cl. 4	Steel tape, steel scale
2.	Construction, Cl.6	
3.	Workmanship and Finish, Cl.7	
4.	Inclination Clause, 5.1.2	Filler Gauge
5.	Moisture content, Clause 5.1.2	Moisture meter for Timber

The above list is indicative only and may not be treated as exhaustive.

ANNEX B

Scheme of Inspection and Testing

1. LABORATORY - A laboratory shall be maintained which shall be suitably equipped (as per the requirement given in column 2 of Table 1) and staffed, where different tests given in the specification shall be carried out in accordance with the methods given in the specification.

1.1 The manufacturer shall prepare a calibration plan for the test equipments.

2. TEST RECORDS – The manufacturer shall maintain test records for the tests carried out to establish conformity.

3. LABELLING AND MARKING – As per the requirement of IS 13714:1993.

4. CONTROL UNIT – Dunnage Pallets produced in a day, using the same species of timber seasoned together at a time, shall constitute a control unit.

5. LEVELS OF CONTROL - The tests as indicated in column 1 of Table 1 and the levels of control in column 3 of Table 1, shall be carried out on the whole production of the factory which is covered by this plan and appropriate records maintained in accordance with paragraph 2 above.

5.1 The guideline on levels of control on conformity of raw material is given in Table 2.

5.2 All the production which conforms to the Indian Standards and covered by the licence should be marked with Standard Mark.

6. REJECTIONS – Disposal of non-conforming product shall be done in such a way so as to ensure that there is no violation of provisions of BIS Act, 2016.

TABLE 1

(1)				(2)	(3)		
Test Details				Test equipment requirement R: required (or) S: Sub-contracting permitted	Levels of Control		
Cl.	Requirement	Test Method			No. of Sample	Frequency	Remarks
		Clause	Reference				
4	Dimension	4.1	13714	R	Each pallet	Records of tests shall be kept in Form 1 of SIT	
6	Construction	6.1 6.1.1 6.1.2	13714 13714 13714	R	Each pallet	Records of tests shall be kept in Form 1 of SIT	
5.1.2	Moisture content			R	1	Each Control Unit In the event of the failure of this sample, the pallets in the entire control unit shall be suitably reconditioned. Such reconditioned material when tested again shall conform to the requirement of the specification for moisture content. Records of tests shall be kept in Form 1 of SIT	
5.1,7, 8.0	Visual Defect Workmanship and finish	7	13714	R	Each pallet	Each pallet Records of tests shall be kept in Form 1 of SIT	

TABLE 2
Guidelines on ensuring conformity of raw materials used for Dunnage Pallets

(1)				(2)	(3)		
Test Details				Test equipment requirement R: required (or) S: Sub-contracting permitted	No. of Sample	Frequency	Remarks
Cl.	Requirement	Test Method					
		Clause	Reference				
5.1	Timber	5.1	13714	S	One Timber of each species	Once a year	Records of tests shall be kept in Form 2 of SII
		5.1.2	13714	R	One Timber	Each lot of timber of same species seasoned together at a time	Records of tests shall be kept in Form 3 of SII
		5.1.2.1	13714	R	Each Timber	Each Timber	Records of tests shall be kept in Form 3 of SIT
5.2	Nails	5.2	723	S	As per sampling plan of IS 723	One consignment from those received in a year	No testing is required in case the material is accompanied with a test certificate or is ISI Marked. Record of tests shall be kept in Form 2 or Form 3 of SIT as applicable

Note-1: Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empanelled by the Bureau.

Note-2: Levels of control given in column 3 are only recommendatory in nature. The manufacturer may define the control unit/batch/lot and submit his own levels of control in column 3 with proper justification for approval by BO Head.

Form -1 Product testing

Date of manufacture	Species of timber	Freedom from objectionable knots	Treatment given if any	Length	Width	Height	Moisture content	Workmanship and finish		Construction							
								Clinching of nails	Freedom from defects as per Cl. 8	Size of scantling	Joints, cross section, thickness, and smoothness	Direction of grain of timber	Spacing of scantling	No of nails at edge joints & other joints	Distance of nails from edge	Total no. of nails	Distance of nails inside

Form -2 Raw material (for outside testing)

Date of receipt	Name of the raw material and quantity received/ consignment identification		Source	Supplier TC no and date	For testing done from outside laboratory			Result	Remarks
	Timber/ planks species	Nails (conformity to IS 723)			Name of lab	Sample sent on	TR No and date		

Form- 3 Raw material (in case of in-house testing)

Sl no	Date of receipt	Name of the raw material	Source	Test results of in-house testing							Remarks
				Date of testing	IS No	Clause / Tests	Results				
		Timber			IS 13714: 1993	Visual defects					
						Moisture content					
		Nails			IS 723: 1973	Designation of nail	NAIL 5X150 IS 723				
						Chemical test as per cl. 6.2 of IS 7887					
							Lot size				
								Number of nails selected as per scale of sampling of IS 723	Max permissible number of defective nails	Defective nails observed	Lot accepted/ rejected
							Dimensions and tolerance				
							General requirements				
							Finish				
							Bend test				