

X

इंटरनेट

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

"जानने का अधिकार, जीने का अधिकार" Mazdoor Kisan Shakti Sangathan "The Right to Information, The Right to Live"

"पुराने को छोड नये के तरफ" Jawaharlal Nehru "Step Out From the Old to the New"

611111111

Made Available By Public.Resource.Org

मानक

IS 7316 (1974): Specification for decorative plywood using plurality of veneers for decorative faces [CED 20: Wood and other Lignocellulosic products]





"ज्ञान से एक नये भारत का निर्माण″ Satyanarayan Gangaram Pitroda "Invent a New India Using Knowledge"

"ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता Bhartrhari-Nītiśatakam "Knowledge is such a treasure which cannot be stolen"





BLANK PAGE



PROTECTED BY COPYRIGHT

Indian Standard

SPECIFICATION FOR DECORATIVE PLYWOOD USING PLURALITY OF VENEERS FOR DECORATIVE FACES

Second Reprint FEBRUARY 1988 (Incorporating Amendment No. 1)

UDC 674-419.32

© Copyright 1983

BUREAU OF INDIAN STANDARDS MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG NEW DELHI 110002

November 1974

Gr 3

Indian Standard

SPECIFICATION FOR DECORATIVE PLYWOOD USING PLUKALITY OF VENFERS FOR DECORATIVE FACES

Wood Products Sectional Committee, BDC 20

Chairman

DR D. NARAYANAMURTI "Bharadwaja" 41 (116-B), 4th Main Road, Javamahal Extension, Bangalore 6

Members

ASSISTANT DIRECTOR (SPECIFICATION) SHRI J. BAIN SHRI P. BARUA SHRI P. R. CHANDRASEKHAR SHRI L. N. DOKANIA

SHRI G. L. KEDIA (Alternate)

DR JOSEPH GEORGE

DR D. C. Roy (Alternate) SHRI A. K. KADERKUTTY SHRI G. L. KEDIA SHRI N. P. MOHTA (Alternate) SHRI K. S. LAULY

SHRI THOMAS PAUL (Alternate) SHRIJ. S. MATHARU

Representing

Ministry of Railways (RDSO), Lucknow

Indian Tea Association, Calcutta

Forest Department, Government of Assam

Directorate General of Civil Aviation

Plywood Manufacturers' Association of India. Calcutta; and Federation of Indian Plywood and Panel Industry, New Delhi

Manufacturers' Association of India, Plywood Calcutta

SHRIM, R. MOTAYED (Alternate) Federation of Indian Plywood and Panel Industry, New Delhi

Indian Plywood Industries Research Institute. Bangalore

Western India Plywood Ltd, Baliapatam

Jay Shree Tea and Industries Ltd. Calcutta

South Indian Plywood Manufacturers' Association. Calicut

Directorate General of Technical Development. New Delhi

(Continued on page 2)

Copyright 1983

BUREAU OF INDIAN STANDARDS

This publication is protected under the Indian Copyright Act (XIV of 1957) and reproduction in whole or in part by any means except with written permission of the publisher shall be deemed to be an infringement of copyright under the said Act.

(Continued from page 1)

M emb ers	Representing
SHRI G. R. MAVINKURVA Shri Y. M. L. Sharma (Alternat	Forest Department, Government of Karnataka e)
COL Y. P. MISRA SHRI D. P. GHOSH (Alternate)	Ministry of Defence (DGI)
LT-COL S. A. MOHILE SHRI B. B. MEHTA (Alternate)	Ministry of Defence (R & D)
PRESIDENT	Forest Research Institute & Colleges, Dehra Dun
DR A. V. R. RAO	National Buildings Organization, New Delhi
DR R. S. RATRA (Alternate)	
SHRI P. R. RIJHSINGHANI	Engineer-in-Chief's Branch, Army Headquarters
SHRI SHARAN SINGH	Directorate General of Supplies & Disposals
Dr S. M. Singh	Central Building Research Institute (CSIR), Roorkee
SHRI ARIUN DAS (Alternate)	
	Central Public Works Department
SHRI H. THÓMSON	Plywood Products, Sitapur
SHRI G. W. M. WHITTLE (Alteri	nate)
SHRI D. AJITHA SIMHA, Director (Civ Engg)	Director General, BIS (Ex-officio Member)

Secretary

SHRI J. R. MEHTA Deputy Director (Civ Engg), BIS

Plywood Subcommittee, BDC 20:1

Convener

SHRI A. K. KADERKUTTY	Western India Plywood Ltd, Baliapatam
Members	
SHRI B. ANANDASWAMY	Central Food Technological Research Institute (CSIR), Mysore
Shri J. Bain	Indian Tea Association, Calcutta
SHRI BALIA BISWAS	Calcutta Tea-Chest Fittings Manufacturers' Associa- tion, Calcutta
SHRI B. K. KHAITAN (Alternate)	-
SHRI P. R. CHANDRASEKHAR	Directorate General of Civil Aviation
Shri L. N. Dokania	Plywood Manufacturers' Association of India, Calcutta
SHRI G. L. KEDIA (Alternate)	
SHRI M. K. DUTT	Tea Board, Calcutta
DR K. K. MITRA (Alternate)	
DR JOSEPH GEORGE	Indian Plywood Industries Research Institute, Bangalore
SHRI V. SIVANANDA (Alternate)	-

(Continued on page 10)

Indian Standard

SPECIFICATION FOR DECORATIVE PLYWOOD USING PLURALITY OF VENEERS FOR DECORATIVE FACES

$\mathbf{0.} \quad \mathbf{FOREWORD}$

0.1 This Indian Standard was adopted by the Indian Standards Institution on 8 February 1974, after the draft finalized by the Wood Products Sectional Committee had been approved by the Civil Engineering Division Council.

0.2 Decorative plywood conforming to IS: 1328-1970* is being increasingly used for panelling work in building; buses and ships; furniture; cabinets and other general interior decorative work. In view of the wide field of its applications, decorative plywood has to be durable, of sound construction and standard quality. However, shortage of naturally decorative timbers, their slow growing nature, combined with increasing demand have resulted in these timbers becoming very costly. Research has been directed to make decorative plywood from more widely available timbers of lower prices and as a result of this decorative plywood using a plurality of veneers of different colours and types has come to be manufactured on a large scale. Manufacture of this type of plywood in India has also come to be well established. This standard has been prepared to guide the consumers in specifying minimum acceptable requirements for decorative plywood made from plurality of veneers.

0.3 In the formulation of this standard due weightage has been given to international co-ordination among the standards and practices prevailing in different countries in addition to relating it to the practices in the field in this country.

0.4 This standard contains clauses **4.1**, **4.2**, **4.3** and **5.5** which permit the purchaser to use his option for selection to suit his requirements at the time of placing orders.

0.5 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS: 2-1960[†]. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

^{*}Specification for veneered decorative plywood (first revision).

[†]Rules for rounding off numerical values (revised).

1. SCOPE

1.1 This standard covers decorative plywood with ornamental faces produced by use of plurality of veneers and for decorative use, such as interior panelling of buildings, buses, ships, etc, and for decorative furniture of all types.

2. TERMINOLOGY

2.1 For the purpose of this standard, definitions given in IS: 707-1968* and IS: 1328-1970† shall apply.

3. GRADES

3.1 Decorative plywood from plurality of veneers shall be only of one grade conforming to the requirements given in this standard. The pattern of the decorative face shall be as agreed to between the purchaser and the manufacturer.

4. MATERIALS

4.1 Timber for cores, backs and face veneers of decorative plywood to this standard shall be either class I, class II or class III timbers specified in IS: 303-1960[‡]. Non-durable timbers and sapwood of all other timbers shall be given a preservative treatment. The preservative used shall be such as not to impart any colour or lasting smell, oiliness or stain to the plywood and shall not adversely affect the gluing of the veneer and the waxing and polishing of the surface. For the faces generally it is a plurality of veneers of different species or, if of the same species of different colours, either natural colours or artificially coloured.

4.2 Adhesive — The adhesive for bonding of veneers shall be synthetic resin adhesive BWR or WWR conforming to IS: 848-1974§ as may be specified by the purchaser.

4.3 Plywood, when used in the manufacture of veneered decorative plywood shall be of BWR or WWR synthetic resin bonded type conforming to IS: 303-1960⁺; as may be specified by the purchaser.

5. MANUFACTURE

5.1 Decorative Face Veneers — Decorative face veneers shall be rotary cut or sliced from a wooden flitch made by laminations of veneers of

^{*}Glossary of terms applicable to timber and timber products (first revision).

⁺Specification for veneered decorative plywood (first revision).

[†]Specification for plywood for general purposes (revised).

[§]Specification for synthetic resin adhesive for plywood (phenolic and aminoplastic) (first revision).

different colours in pre-determined pattern and either rectangular or in a pre-determined moulded shape. These veneers shall not be more than 1 mm in thickness and shall be suitably matched and spliced.

5.2 Decorative plywood shall be manufactured either by bonding the various layers of veneers in one operation or by bonding decorative veneers on to BWR or WWR synthetic resin bonded plywood of suitable thickness.

5.3 Where decorative veneer is used on one side of the plywood only, a suitable back of required thickness balancing the strength of the decorative face veneer shall be provided.

5.4 Veneers forming any one ply and the corresponding ply on the opposite side of the central plane of plywood shall be of the same species of timber and of the same nominal thickness, except in case of faces where they shall be of such thickness and strength as to balance each other.

5.5 If the purchaser requires boards with the decorative veneers matched to a particular design, for example, quartered, centred, serial, diamond or V-matched, it shall be so specified. If certain number of decorative matched plywood panels are required to form a group to give an overall general effect, it shall be so specified by the purchaser giving the number of panels in each such group.

6. PERMISSIBLE DEFECTS

6.1 Open splits, checks or open joints not more than 150 mm in length and 0.5 mm in width shall be permissible provided the same are rectified with a veneer insert bonded with BWR or WWR adhesive, as the case may be, and further provided that the insert matches with the surrounding veneer in colour and in figure.

6.2 Decorative veneered surface shall be free from torn, grain, dote, worm hole, discolouration or other visual defects.

6.3 Decorative veneer surface shall be selected for figure, texture, colour and grain characteristics. It shall be free from all manufacturing and wood defects except to the extent permitted under 6.1. All veneers shall be matched or mis-matched to achieve a decorative effect in colour, figure and grain.

7. DIMENSIONS AND TOLERANCES

7.1 The dimensions of plywood boards shall be quoted in the following order, the first dimension shall represent the length, the second the width and the third the thickness.

IS: 7316 - 1974

7.2 Standard Dimensions — Unless otherwise specified, plywood boards shall be manufactured in the following sizes:

Length	240, 210, 180, 150, 120 and 90 cm
Width	120 and 90 cm
Thickness	3, 4, 6, 9, 12, 19 and 25 mm

7.3 Tolerances

7.3.1 Length and Width — The following tolerances shall be permitted on length and width : `

1 0

Length	up to 120 cm	+3 mm -0 mm
	above 120 cm	+6 mm -0 mm
Width	up to 90 cm	+3 mm -0 mm
	above 90 cm	+6 mm -0 mm

7.3.1.1 The rectangular panels shall have their diagonals not varying in length beyond 9 mm.

7.3.2 Thickness — The following tolerances shall be permitted on thickness:

Positive = 0.2 mm + 5 percent of nominal thickness

Negative = 0.1 mm + 2.5 percent of nominal thickness

8. FINISH

8.1 Decorative plywood shall be uniform in thickness within the tolerance limits specified under 7.3.

8.2 Decorative plywood shall be trimmed square and sanded to a smooth finish.

8.3 Decorative surface shall be smooth and of the desired decorative pattern and have good pleasing locks, texture and feel.

9. TESTS

9.1 Boards selected as described under 11.1 shall be subjected to the tests specified under 9.1.1 and 9.1.2.

6

9.1.1 Moisture content — Decorative veneered plywood conforming to the standard when tested in accordance with IS: 1734 (Part I)- 1972^* shall have a moisture content of not less than 5 percent and not more than 15 percent.

9.1.2 Water Resistance Test — Decorative veneered plywood conforming to the grade specified in this standard shall not show delamination or blister formation, when tested in the manner specified under 9.1.2.1.

9.1.2.1 Three test specimens of size 15×15 cm shall be prepared from each of the boards selected and submerged in water at room temperature for a period of 48 hours and dried for 8 hours at a temperature of $65 \pm 2^{\circ}$ C and then followed by two cycles of soaking each for 16 hours and drying for 8 hours under conditions described above.

10. INSPECTION AND DELIVERY

10.1 Inspection — Boards shall be visually inspected to ensure that decorative veneered sides conform to the requirements specified under 6. They shall also be inspected for dimensions, delamination, blisters or surface defects.

10.2 Decorative plywood shall be supplied in a clean and dry condition and shall be suitably packed according to approved trade practice, unless otherwise specified by the purchaser.

11. SAMPLING

11.1 Lot — All plywood boards/sheets of the same type, grade, size and manufactured in the same batch of production shall constitute a lot.

11.1.1 Samples shall be selected and tested separately from each lot for determining its conformity or otherwise to the requirements of the specification.

11.2 Scale of Sampling and Method of Selection — The number of boards/sheets to be selected from a lot shall depend upon the size of the lot and shall be in accordance with Table 1.

11.2.1 Boards/sheets to be selected from the lot shall be chosen by the method of simple random sampling following the procedure given in 3.1 of IS: 4905-1968⁺. As an alternative the method of systematic sampling explained in 11.3 may be followed.

11.3 Starting from any board in a lot, the boards shall be counted as 1, 2,, r and so on in one order. Every rth board thus counted shall be

^{*}Methods of test for plywood: Part I Determination of density and moisture content (first revision).

[†]Methods for random sampling.

IS: 7316 - 1974

withdrawn to constitute the sample, where r is the integral part of \mathcal{N}/n (\mathcal{N} and n being the lot size and the corresponding sample size respectively). This procedure shall be stopped as soon as the required number of boards is obtained.

11.3.1 For example, if a total sample of 32 boards is to be selected from a lot of i 330 boards, then the value of r is obtained as the integral part of 1 330/32 (= 41.6), which is 41. Starting from any board, the boards shall be counted in one order and every 41st board shall be withdrawn.

TABLE 1	SCALE OF SAMPLING AND PERMISSIBLE NUMBER OF DEFECTIVES	
	(Clause 11.2)	

No. of Boards/Sheets in the Lot	SAMPLE SIZE	Acceptance Number
(\mathcal{N})	(n)	(<i>a</i>)
(1)	(2)	(3)
Up to 300	5	0
3 01 to 500	8	0
501 to 1 000	13	0
1 001 and above	20	1

11.4 Testing of Samples and Criteria for Conformity — All boards/ sheets in the sample shall be inspected for the dimensional requirements and tested for moisture content and water resistance test. A board shall be considered as defective if it fails to satisfy the requirements of any one or more of the characteristics. The lot shall be declared as conforming to the requirements of the specification if the number of defective boards/ sheets in the sample is less than or equal to the corresponding acceptance number given in col 3 of Table 1.

12. MARKING

12.1 Decorative vencered plywood shall be clearly marked in a suitable position with the following information:

- a) Manufacturer's name or trade-mark,
- b) Approved pattern mark, and
- c) BWR or WWR.

12.1.1 The decorative veneered plywood may also be marked with the Standard Mark.

NOTE — The use of the Standard Mark is governed by the provisions of the Bureau of Indian Standards Act, 1986 and the Rules and Regulations made thereunder. The Standard Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well defined system of inspection, testing and quality control which is devised and supervised by BIS and operated by the produce. Standard marked products are also continuously checked by BIS for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

13. PARTICULARS TO BE SUPPLIED BY THE PURCHASER

13.1 The purchaser shall supply the following particulars at the time of ordering:

- a) Number of panels, sizes and thickness;
- b) Whether one side decorative or both sides decorative and the pattern of decorative face from among the approved patterns of the manufacturer's line;
- c) Whether required in group matching and if so the number of sheets in a group; and
- d) The packing desired.

	(Continued	from	page	2)
--	---	-----------	------	------	---	---

Members

SHRI C. P. GOENKA

Representing

Indian Tea Chest Buttens Manufacturers Association, Yamuna Nagar

SHRI J. N. KAPOOR (Alternate) MALN. V. R. IYENGAR SHRI G. S. BHOME (Alternate) SHRI N. C. JAIN

SHRIJ. S. MATHARU

LT-COL S. A. MOHILE SHRI B. B. MEHTA (Alternate) DR D. NARAYANAMURTI

SHRI A. C. SEKHAR

SHRI R. K. TALUKDAR

Indian Institute of Packaging, Bombay

Forest Research Institute & Colleges (Composite Wood Branch), Dehra Dun

Directorate General of Technical Development, New Delhi

Ministry of Defence (R & D)

In personal capacity ['Bharadwaja', 41 (116-B), 4th Main Road, Jayamahal Extension, Bangalore 6] Forest Research Institute & Colleges (Timber

Mechanics Branch), Dehra Dun

Federation of Indian Plywood & Panel Industry. New Delhi

EXECUTIVE DIRECTOR (Alternate) Plywood Products, Sitapur SHRI H. THOMSON

SHRI PURSHOTAM DAYAL (Alternate)

SHRI N. VENKATARAMAN

South Indian Plywood Manufacturers' Association, Calicut

SHRI THOMAS PAUL (Alternate)

Headquarters :	
Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW	DELHI 110002
	rams : Manaksanstha
(Com	nmon to all Offices)
Regional Offices :	Telephone
*Western ; Manakalaya, E9 MIDC, Marol, Andheri BOMBAY 400093	(East), 6329295
†Eastern: 1/14 C. I. T. Scheme VII M, V. I. P. Roa Maniktola, CALCUTTA 700054	id, 36 24 99
Northern : SCO 445-446, Sector 35-C CHANDIGARH 160036	{2 18 43 3 16 41
Southern : C. I. T. Campus, MADRAS 600113	∫ 41 24 42 √ 41 25 19
	41 29 16
Branch Offices :	
Pushpak,' Nurmohamed Shaikh Marg, Khanpur, AHMADABAD 380001	{2 63 48 2 63 49
'F' Block, Unity Bldg, Narasimharaja Square, BANGALORE 560002	22 48 05
Gangotri Complex, 5th Floor, Bhadbhada Road, T. BHOPAL 462003	T. Nagar, 6 27 16
Plot No. 82/83, Lewis Road, BHUBANESHWAR 7	51002 5 36 27
53/5 Ward No. 29, R. G. Barua Road, 5th Byelane, GUWAHATI 781003	
5-8-56C L. N. Gupta Marg, (Nampally Station Roz HYDERABAD 500001	ad), 22 10 83
R14 Yudhister Marg, C Scheme, JAIPUR 302005	∫6 34 71 ∖6 98 3 2
117/418B Sarvodaya Nagar, KANPUR 208005	{21 68 76 {21 82 92
Patliputra Industrial Estate, PATNA 800013	6 23 05
Hantex Bldg (2nd Floor), Rly Station Road, TRIVANDRUM 695001	52 27
Inspection Office (With Sale Point):	
Institution of Engineers (India) Building, 1332 S PUNE 410005	hivaji Nagar, 5 24 35
*Sales Office in Bombay is at Novelty Chambers, Gra Bombay 400007	ant Road, 89 65 28
†Sales Office in Calcutta is at 5 Chowringhee Approach. Street, Calcutta 700072	P. O. Princep 27 68 00

Reprography Unit, BIS, New Delhi, India

AMENDMENT NO. 2 JUNE 1992 TO

IS 7316:1974 SPECIFICATION FOR DECORATIVE PLYWOOD USING PLURALITY OF VENEERS FOR DECORATIVE FACES

(Page 3, clause 0.2) — Substitute 'IS 1328 : 1982' for 'IS : 1328 - 1970'.

(Page 3, foot-note marked with '*' mark) — Substitute the following for the existing foot-note:

"*Specification for veneered decorative plywood (second revision)."

(*Page 4, clause 2.1*) — Substitute 'IS 707 : 1976' for 'IS : 707 - 1968' and 'IS 1328 : 1982' for 'IS : 1328 - 1970'.

n

(Page 4, clause 4.1, first sentence) — Substitute 'according to IS 303 : 1989' for 'either class I, class II or class III timbers specified in IS : 303 - 1960'.

(Page 4, clause 4.2, line 2) — Substitute 'MR' for 'WWR'.

(Page 4, clause 4.3) — Substitute 'MR' for 'WWR' in line 2 and 'IS 303 : 1989' for 'IS : 303 - 1960' in line 3.

(Page 4, foot-notes marked with '*', '+' and '‡' marks) — Substitute the following for the existing footnotes:

^{**} Glossary of terms applicable to timber terminology and utilization (second revision).

[†] Specification for veneered decorative plywood (second revision).

[‡] Specification for plywood for general purposes (*third revision*).

(Page 5, clause 5.2, line 3) --- Substitute 'MR' for 'WWR'.

(Page 5, clause 6.1, line 3) - Substitute 'MR' for 'WWR'.

(Page 7, clause 9.1.1) — Substitute 'IS 1734 (Part 1): 1983' for 'IS 1734 (Part I) - 1972'.

(Page 7, foot-note marked with '*' mark) — Substitute the following for the existing foot-note:

^{**}Methods of test for plywood : Part 1 Determination of density and moisture content (second revision).^{*}

[Page 8, clause 12.1 (c)] — Substitute 'MR' for 'WWR'.

(CED 20)

Reprography Unit, BIS, New Delhi, India

5

AMENDMENT NO. 3 NOVEMBER 1998 TO IS 7316: 1974 SPECIFICATION FOR DECORATIVE PLYWOOD USING PLURALITY OF VENEERS FOR

DECORATIVE FACES

(Page 7, clause 9.1.2.1) — Substitute the following for the existing:

'9.1.2.1 Three test specimens of size 150 mm \times 150 mm shall be prepared from each of the boards selected and submerged in water at $60 \pm 2^{\circ}$ C for a period of 3 hours and dried for 8 hours at a temperature of $60 \pm 2^{\circ}$ C and then followed by two more cycles of soaking and drying under same conditions described above.'

(CED 20)

Reprography Unit, BIS, New Delhi, India

AMENDMENT NO. 4 JANUARY 2005 TO IS 7316 : 1974 SPECIFICATION FOR DECORATIVE PLYWOOD USING PLURALITY OF VENEERS FOR DECORATIVE FACES

(Page 5 and 6, clause 7) — Substitute the following for the existing:

7 DIMENSIONS AND TOLERANCES

7.1 The dimensions of plywood boards shall be as follows:

2 400 mm × 1 200 mm	2400mm imes 900mm
$2\ 100\ \mathrm{mm} \times 1\ 200\ \mathrm{mm}$	2 100 mm × 900 mm
1 800 mm × 1 200 mm	1 800 mm × 900 mm
1 500 mm × 1 200 mm	$1500 \text{ mm} \times 900 \text{ mm}$
$1\ 200\ mm \times 1\ 200\ mm$	$1\ 200\ \mathrm{mm} \times 900\ \mathrm{mm}$
900 mm × 900 mm	

7.2 Thickness

The thickness shall be 3 mm, 4 mm, 5 mm, 6 mm, 9 mm, 12 mm, 19 mm and 25 mm.

NOTE — Any other dimensions (length, width and thickness) as agreed to between the manufacturer and the purchaser may also be used.

7.3 Tolerances

Tolerances on the nominal sizes of finished boards shall be as given below:

Dimension	Tolerance
Length	+6 mm
	-0 ^{mm}
Width	+3 mm
	-0
Thickness:	
i) Less than 6 mm ii)6 mm and above	±10 percent ±5 percent

Amend No. 4 to IS 7316 : 1974

Edge straightness2 mm per 1 000 mm or 0.2 percentSquareness2 mm per 1 000 mm or 0.2 percent

NOTE --- Edge straightness and squareness shall be tested as per Annex A.

(Page 9, clause 13.1) — Insert the following Annex A after clause 13.1:

ANNEX A (Clause 7.3)

METHOD OF TEST FOR EDGE STRAIGHTNESS AND SQUARENESS

A-1 PROCEDURE FOR EDGE STRAIGHTNESS

A-1.1 The straightness of the edges and ends of plywood shall be verified against a straight edge not less than the full length of the plywood. If the edge on the end of the plywood is convex, it shall be held against the straight edge in such a way as to give approximately equal gap at each end. The largest gap between the straight edge and the edge shall be measured to the nearest millimetre and recorded.

A-2 PROCEDURE FOR SQUARENESS

A-2.1 The squareness of plywood shall be checked with a 1 200 mm \times 1 200 mm square, by applying one arm of the square to the plywood. The maximum width of the square shall be recorded.

NOTE — Any other dimensions (length, width and thickness) as agreed to between the manufacturer and the purchaser may also be used.

7.3 Tolerances

Tolerances on the nominal sizes of finished boards shall be as given below:

Dimension	Tolerance
Length	+6 -0 mm
Width	+3 -0 mm
Thickness:	
i) Less than 6 mm ii)6 mm and above	±10 percent ±5 percent