
INTERNATIONAL STANDARD



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Plywood — Veneer plywood with rotary cut veneer for general use — Classification by appearance of panels with outer veneers of poplar

Contreplaqué — Contreplaqué à plis, avec placages déroulés, pour usage général — Classification, selon l'aspect, des panneaux à placages extérieurs de peuplier

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up has the right to be represented on that Committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 2430 was drawn up by Technical Committee ISO/TC 139, *Plywood*, and circulated to the Member Bodies in December 1971.

It has been approved by the Member Bodies of the following countries :

Australia	India	Romania
Austria	Iran	South Africa, Rep. of
Belgium	Italy	Spain
Canada	Netherlands	Sweden
Czechoslovakia	New Zealand	Thailand
Egypt, Arab Rep. of	Norway	United Kingdom
Germany	Poland	U.S.S.R.
Hungary	Portugal	

The Member Body of the following country expressed disapproval of the document on technical grounds :

France

Plywood – Veneer plywood with rotary cut veneer for general use – Classification by appearance of panels with outer veneers of poplar

1 SCOPE AND FIELD OF APPLICATION

This International Standard establishes the permissible defects for the classification by appearance of surfaces of general purpose veneer plywood¹⁾ with rotary cut outer veneers of poplar.

NOTE – Species of poplar wood used for this purpose are indicated in the annex.

2 REFERENCE

ISO 2426, *Plywood – Veneer plywood with rotary cut veneer for general use – General rules for classification by appearance.*

3 CLASSIFICATION BY APPEARANCE

3.1 Classification of panels by appearance according to the combination of the grades of their two surfaces should be carried out in accordance with ISO 2426.

3.2 The surface of the panels should be classified by appearance based on the permissible defects laid down in clause 4.

4 PERMISSIBLE DEFECTS

Each surface is individually classified in one of the grades E, I, II, III or IV as defined by the permissible defects indicated in the following table.

1) Defined in ISO 2074, *Plywood – Vocabulary.*

PERMISSIBLE DEFECTS

Categories of defects		Grade				
		E	I	II	III	IV
4.1.1	Pin knots	Practically without defects (see ISO 2426)	permitted in number up to 3 per m ²	permitted without restriction in number		Veneers shall be free from rot and must be well glued. Defects inherent in wood and manufacturing defects are permitted provided they do not impair the mechanical properties and serviceability of the panel.
4.1.2	Sound intergrown knots		permitted up to an individual maximum diameter of 15 mm 25 mm 50 mm provided their cumulative diameter does not exceed 60 mm 100 mm 300 mm per m ² . Such knots can have splits and stars provided they are very slight slight without restriction and properly filled			
4.1.3	Unsound or non-adhering knots and holes		excluded	permitted up to an individual maximum diameter of 10 mm 20 mm provided their cumulative diameter does not exceed 30 mm per m ² and they are properly filled	60 mm per m ²	
4.1.4	Irregularities in the structure of the wood		permitted if very slight	if slight	permitted	
3.1.5	Splits and Checks		open	excluded	permitted, if properly filled, up to an individual maximum width of 3 mm 5 mm and up to an individual maximum length of 250 mm 350 mm and in number up to 3 3 per metre of panel width	
			closed	permitted : 1 of an individual maximum length up to 200 mm per metre of panel width	permitted	
4.1.6	Inbark		excluded		permitted	
4.1.7	Defects due to borers and parasitic plants		excluded	permitted, if properly filled, occasional small worm holes, vertical to the panel plane, of diameter up to 5 mm	5 defects of width up to 10 mm per m ²	

PERMISSIBLE DEFECTS (concluded)

	Categories of defects	Grade						
		E	I	II	III	IV		
4.1.8	Sound discoloration	Practically without defects (see ISO 2426)	if slight		permitted up to maximum 33 % of the surface of panel provided the mechanical properties are not impaired	without restriction	Veneers shall be free from rot and must be well glued. Defects inherent in wood and manufacturing defects are permitted provided they do not impair the mechanical properties and serviceability of the panel.	
4.1.9	Unsound discoloration and decay		excluded					
4.1.10	Open joints		excluded	permitted, if properly filled, of maximum width up to 1 mm and in number no more than 1 per metre of panel width				4 mm
4.1.11	Overlaps		excluded	permitted of a maximum length of 100 mm and in number up to 1 per m ²		300 mm		2 per m ²
4.1.12	Blisters		excluded					
4.1.13	Hollows, bumps and imprints		excluded	if very slight		permitted if slight		
4.1.14	Roughness		permitted if very slight	permitted if slight				
4.1.15	Sanding through		excluded			permitted up to an extent of 1 000 mm ² per m ² of panel surface		
4.1.16	Glue penetration		excluded	if slight and occasional		permitted up to an extent of 5 % of the panel surface		
4.1.17	Inserts — patch — shim		excluded	permitted, if properly made, not exceeding 3 % of total panel surface		without restriction		
4.1.18	Inclusions of aluminium clips		excluded	permitted				
4.1.19	Defects at the edges of the panel due to — sanding or — sawing		—	permitted up to 5 mm from the edge		5 mm		
4.1.20	Other defects which are not indicated		To be considered under the heading of the category of defect most similar to it					

ANNEX

LIST OF THE DIFFERENT BROADLEAVED SPECIES OF TROPICAL AFRICAN
HARDWOOD USED FOR THE MANUFACTURE OF VENEER PLYWOOD

No.	Botanical name	Commercial name	Sources of supply
1	<i>Antiaris</i> sp. div. (<i>A. africana</i> Engl., <i>A. welwitschii</i> Engl.)	Ako Cherken Antiaris Kirundu	Ivory Coast, Ghana, Nigeria, Gabon, Zaire, Senegal, Cameroun, East Africa
2	<i>Aucoumea klaineana</i> Pierre	Okoumé Gabon	Gabon, Spanish Guinea
3	<i>Baillonella toxisperma</i> Pierre	Moabi Kungulo	Gabon, Zaire, Nigeria, Cameroun, Spanish Guinea, Angola
4	<i>Bombax buenopozense</i> (<i>Bombax flammeum</i> Ulbr.)	Kapokier	Zaire, Ivory Coast, East Africa
5	<i>Canarium schweinfurthii</i> Engl.	Aiélé	Nigeria, Cameroun, Spanish Guinea, Ivory Coast, Gabon, Zaire
6	<i>Carapa procera</i> D.C.	Crabwood african	Zaire, Uganda
7	<i>Dacryodes buettneri</i> H.J. Lam. (<i>Pachylobus büttneri</i> Engl.)	Ozigo (Assia)	Gabon, Spanish Guinea, Angola
8	<i>Dacryodes igaganga</i> Aubr. and Pellegr.	Safucala Igaganga	Gabon
9	<i>Daniellia</i> sp. div. (<i>D. thurifera</i> Bennett, <i>D. klainei</i> Pierre, <i>D. ogea</i> Rolfe ex Holl)	Ogea Faro (Daniella, Oziya) Nsu	Ivory Coast, Nigeria, Zaire, Spanish Guinea, Gabon
10	<i>Entandrophragma angolense</i> C.D.C. (<i>Entandrophragma</i> <i>macrophyllum</i> A. Chev.)	Tiama (Gédu-Nohor, Edinam)	Ivory Coast, Ghana, Gabon, Nigeria, Cameroun, Zaire, Angola, East Africa
11	<i>Entandrophragma candollei</i> Harms.	Kalungi Kosipo Omu Heavy sapele	Ivory Coast, Nigeria
12	<i>Entandrophragma cylindricum</i> Sprague	Aboudikro Sapele Sapelli Penkwa	Ghana, Ivory Coast, Nigeria, Zaire, Spanish Guinea, Cameroun, Angola
13	<i>Entandrophragma utile</i> Sprague	Sipo Utîle Assié	Ghana, Gabon, Cameroun, Ivory Coast, Nigeria, Zaire
14	<i>Eribroma oblonga</i> Bod (<i>Sterculia oblonga</i> Mast, <i>Sterculia elegantiflora</i> Hutch and Dalz)	Eyong Okoko Yellow sterculia	Nigeria, Cameroun, Gabon, Spanish Guinea, Ivory Coast
15	<i>Fagara heitzi</i> Aubr. and Pellegr., <i>Fagara inaequalis</i> Engl.	Olon	Gabon, Spanish Guinea, Cameroun, Zaire
16	<i>Gossewilerodendron</i> <i>Balsamiferum</i> Harms.	Tola Agba Tola-Branca	Nigeria, Zaire, Cabinda, Angola
17	<i>Khaya</i> sp. div. (<i>K. ivorensis</i> A. Chev., <i>K. klainei</i> Pierre, <i>K. anthotheca</i> C.D.C., <i>K. senegalensis</i> A. Juss.)	Acajou d'Afrique Khaya African mahagony Acajou blanc White mahagony Bissilom	Ivory Coast, Ghana, Nigeria, Cameroun, Angola, Spanish Guinea, Portuguese Guinea
18	<i>Lannea welwitschii</i> Engl.	Kumbi	Ivory Coast, Cameroun, Zaire

No.	Botanical name	Commercial name	Sources of supply
19	<i>Lovoa trichilioides</i> Harms. (= <i>Lovoa kleineana</i> Pierre)	Dibétou	Nigeria, Cameroun, Ivory Coast, Spanish Guinea, Gabon
20	<i>Mansonia altissima</i> A. Chev.	Bete, Ofun, Mansonia	Nigeria, Zaïre, Ivory Coast
21	<i>Mimusops heckelii</i> A. Chev. (<i>Dumoria heckelii</i> Hutch and Dalz., <i>Dumoria africana</i> A. Chev.)	Makoré Baku Douka	Ghana, Ivory Coast, Spanish Guinea, Zaïre, Cameroun, Gabon
22	<i>Mitragyna ciliata</i> Aubr. and Pellegr., <i>Mitragyna stipulosa</i> O. Kuntze	Abura Bahia Elelon	Nigeria, Ghana, Ivory Coast, Gabon Zaïre, Spanish Guinea
23	<i>Monopetalanthus</i> sp. div. (<i>M. letestui</i> Pellegr., <i>M. pellegrini</i> A. Chev., <i>M. heitzii</i> Pellegr.)	Andoung Ekop	Spanish Guinea, Gabon, Portuguese Guinea, Zaïre
24	<i>Oxystigma oxyphyllum</i> J. Leonard (<i>Pterygopodium oxyphyllum</i> Harms.)	Tchitola Kitolo Fuba Tolarhinfuta	Rep. of Zaïre, Angola, Gabon Spanish Guinea, Nigeria
25	<i>Pterygota</i> sp. div.	Koto Pterygota	Ivory Coast, Ghana, Nigeria
26	<i>Pycnanthus angolens</i> Warb (<i>Pycnanthus kombo</i> Warb)	Ilomba	Cameroun, Spanish Guinea, Gabon, Ivory Coast, Zaïre, Ghana, Uganda East Africa, Angola
27	<i>Terminalia ivorensis</i> A. Chev.	Framiré Black Afara Emri	Ghana, Ivory Coast, Nigeria, Cameroun
28	<i>Terminalia superba</i> Engl. and Diels	Limba Afara, Corina Limbo Akom	Spanish Guinea, Nigeria, Ivory Coast, Cameroun, Ghana, Zaïre, Angola
29	<i>Tetraberlinia bifoliata</i> Hauman (<i>Berlinia bifoliata</i> Harms.)	Ekaba (Eko) Ekop	Spanish Guinea, Gabon, Cameroun Zaïre
30	<i>Triplochiton scleroxylon</i> K. Schum	Obeche Wawa Obechi Abachi Samba Ayous	Ghana, Nigeria, Ivory Coast, Zaïre, Cameroun, Spanish Guinea

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