

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION MEXATION OPTAHUSALUS TO CTAHAPTUSALUS ORGANISATION INTERNATIONALE DE NORMALISATION

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

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

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#### FOREWORD

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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 2427 was drawn up by Technical Committee IEW ISO/TC 139, *Plywood*, and circulated to the Member Bodies in November 1971. (standards.iteh.ai)

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

Australia	, Iran, 1, 1, 1, 1	ISO 2427:1974 South Africa, Rep. of h.ai/catalog/signards/sist/1937/040-1e4d-4ea0-865a-
Austria	https://standards.ite	h.al/catalog/standards/sist/193/7040-1e4d-4ea0-865a-
Belgium	Netherlands	681908765 weden - 2427-1974
Czechoslovakia	New Zealand	Thailand
Egypt. Arab Rep. of	Norway	United Kingdom
Germany	Poland	U.S.S.R.
Hungary	Portugal	Yugoslavia
India	Romania	

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

France

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

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### (standards.iteh.ai) IION 3 CLASSIFICATION BY APPEARANCE

#### 1 SCOPE AND FIELD OF APPLICATION

This International Standard establishes the permissible 7:1974 defects for the classification by appearance of surfaces of ds/sist 13,7/140-1640-2008 appearance according to the general purpose veneer plywood<sup>1</sup>) with rotary out outer so-2 combination of the grades of their two surfaces should be veneers of beech.

 $\mathsf{NOTE}-\mathsf{Species}$  of beech 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.

**3.2** 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.

<sup>1)</sup> Defined in ISO 2074, Plywood - Vocabulary.

#### PERMISSIBLE DEFECTS

	Contaction of defaute		Grade				
	Categorie	Categories of defects		1	II	111	IV
4.1.1	Pin knots			in number up to 3 per m <sup>2</sup>	permitted without re	estriction	
4.1.2	Sound intergrown knots		1		to an individual maximu	um diameter of	
				15 mm	30 mm	50 mm	
				provided th	eir cumulative diameter o	does not exceed	ŏ
				30 mm	60 mm	300 mm	den
			per m <sup>2</sup> . Such knots can have splits and stars				
					d they are		ded
				very slight	slight	without restriction	orovi
4.1.3	knots and holes		Tala	and properly filled excluded		permitted up to a maximum individual diameter of 15 mm provided their cumulative diameter does not exceed 25 mm per m <sup>2</sup>	ng defects are permitted p
4.1.4	Irregularities in t of the wood	he structure				permitted	ufacturi
4.1.5	Splits and Checks	open https: closed	Practically without defects (SO 2426)		an individual m /sist/19373040-1e4d-4 -2427-1andup to an ind ler 250 mm and in nu 3 per metre c		Veneers shall be free from rot and must be well glued. Defects inherent in wood and manufacturing defects are permitted provided they de not impair the mechanical properties and serviceability of the panel.
4.1.6	Inbark			excluded	permitted : 2 of maximum length up to 20 mm and of maximum width up to 2 mm per m <sup>2</sup> if prop	permitted erly filled	t free from rot and m anical properties and
4.1.7	Defects due to small worm borers and para- sitic plants			excluded	permitted of dia occasionally	meter up to 3 mm unlimited	s shall be the mech
sitic plants		<ul> <li>large</li> <li>worm holes,</li> <li>marine</li> <li>borer holes,</li> <li>marks</li> <li>of parasitic</li> <li>plants</li> </ul>			excluded		Veneer impair

#### PERMISSIBLE DEFECTS (concluded)

	Categories of defects		Grade				
		Е	1	11	111		
4.1.8	Sound discoloration		permitted permitted up to an extent of				
			if slight	25 %	70 %		
				of the sur	face of panel		
			provided th	e mechanical properties a	re not impaired		
4.1.9	Unsound discoloration and deca	ау		excluded			
4.1.10 Open joints			excluded		properly filled, of width up to		
				1 mm	4 mm		
					more than 1 per panel width		
4.1.11	Overlaps		excluded	permitted of a n	naximum length of		
				100 mm	300 mm		
				and in n	umber up to		
				1 per m²	2 per m <sup>2</sup>		
4.1.12	Blisters iT	'eh SaTA	<b>NDARD</b>	PR excluded			
4.1.13	4.1.13 Hollows, bumps and imprints		excluded if	eh.ai) per	mitted		
		S		if very slight	if slight		
4.1.14	Roughness	(see	permitted if 974 permitted if slight		ed if slight		
	https://st	andards.	catalog/venvidtight/sist/1	9377040-1e4d-4ea0-8	65a-		
4.1.15	Sanding through	Lactically without defects (see ISO 24266)	exc exc	0876b25c/iso-2427-1974 excluded permitted up to an extent of 1 000 mm <sup>2</sup> per m <sup>2</sup> of panel surfac			
4.1.16	Glue penetration	ally v	excluded	peri	nitted		
		actic		if slight and	up to an extent of		
		Pre		occasional	5 %		
					of the panel surface		
4.1.17	Inserts – patch – shim		excluded	1	permitted, if properly made, up to a maximum number of		
				4	8		
				per m <sup>2</sup> , n	ot exceeding		
				2 %	5 %		
				of total p	anel surface		
4.1.18	Inclusions of aluminium clips		excluded permitted				
4.1.19	Defects at the edges of the			permitted up to			
	panel due to — sanding or		-	5 mm	5 mm		
	- sawing			from the edge			
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 SPECIES OF BEECH USED FOR THE MANUFACTURE OF VENEER PLYWOOD

No.	Botanical name	Commercial name	Sources of supply
1	Fagus grandifolia EHRH	American beech	North America
2	Fagus sylvatica Linn.	European beech	Europe
3	Fagus orientalis	Kayim ag.	Asia Minor
4	Fagus crenata	Buna	Japan

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