



## **DRAFT TANZANIA STANDARD**

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### **Plywood — Classification by surface appearance — Part 3: Softwood**

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**TANZANIA BUREAU OF STANDARDS**

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## 0. National Foreword

The Tanzania Bureau of Standards is the statutory national standards body for Tanzania, established under standards Act No. 3 of 1975, amended by Act No. 2 of 2009.

This draft Tanzania Standard is being prepared by BCDC 6 Sawn timber, logs and wood-based components Technical Committee under the supervision of the Building and Construction Divisional Committee (BCDC).

This draft Tanzania Standard is an identical adoption of the 1<sup>st</sup> Edition of International Standard ISO 2426-3: 2020 *Plywood - Classification by surface appearance - Part 3: Softwood*. In this standard, certain modifications due to national requirements have been made.

BCDC 6 (59) CD2/ISO 2426 consists of the following parts, under the general title *Plywood — Classification by surface appearance*:

- a) *Part 1: General*
- b) *Part 2: Hardwood*
- c) *Part 3: Softwood*

## Terminologies and conventions

The text of the International Standard is hereby being recommended for approval without deviation for publication as draft Tanzania standard.

Some terminologies and conventions are not identical with those used in Tanzania Standards; attention is drawn to the following;

The comma has been used as a decimal marker for metric dimensions. In Tanzania, it is current practice to use a full point on the baseline as the decimal marker.

Whenever the words “ISO Standard” appear referring to this standard, they should read as “Tanzania Standard”.

This standard of the International Organization for Standardization (ISO) was approved for publication as a Tanzania Standard with the following editorial changes:

- a) deletion of informative preliminary material from the adopted International Standard
- b) inclusion of national informative material (National foreword, terminologies and conventions)
- c) deletion of the translation text in French to retain English language which is the official national language
- d) changes in document layout (pagination, font type and size)
- e) sub-clause 3.2.1, 1<sup>st</sup> line, changed the word “indivually” to read as “individually”.

## **Plywood — Classification by surface appearance —Part 3: Softwood**

### **1. Scope**

This part of BCDC 6 (59) CD2/ISO 2426 specifies the nature and limits of characteristics inherent in wood and manufacturing defects enabling the visual assessment of the plywood for allocation to an appearance class.

This part of BCDC 6 (59) CD2/ISO 2426 applies to plywood, the surface veneers of which are made from softwood species. It does not apply to overlaid panels.

### **2. Normative reference**

The following normative document contains provisions which, through reference in this text, constitute provisions of this part of BCDC 6 (59) CD2/ISO 2426. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of BCDC 6 (59) CD2/ISO 2426 are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. For undated references, the latest edition of the normative document referred to applies.

BCDC 6 (57) CD2: 2020/ISO 2426-1:2020(E) *Plywood — Classification by surface appearance — Part 1: General.*

### **3. Classification by surface appearance**

#### **3.1 Appearance classes**

Assessment of characteristics and defects for determination of appearance class shall be carried out in accordance with BCDC 6 (57) CD2: 2020/ISO 2426-1:2020(E). Surface classification shall be based on the permissible characteristics and defects within each of the appearance classes as specified in 3.2.

#### **3.2 Permissible characteristics and defects**

##### **3.2.1 General**

Each surface shall be individually assigned to one of the appearance classes E, I, II, III or IV, as defined by the permissible characteristics according to Table 1 and permissible defects according to TABLE 2.

##### **3.2.2 Characteristics inherent in wood**

Classification according to characteristics inherent in wood is given in TABLE 1

TABLE 1

Categories of characteristics			Appearance class					
			E	I	II	III	IV	
3.2.2.1	Pin knots <sup>a</sup>		Practically absent	3/m <sup>2</sup> permitted		Permitted		
3.2.2.2	Sound intergrown knots			Permitted up to an individual diameter of:				Permitted, but see Note
				15mm provided their cumulative diameter does not exceed 30mm/m <sup>2</sup> Such knots may have splits provided they are very slight	50mm	60mm		
3.2.2.3	Unsound or non-adhering knots and knot holes			Permitted up to an individual diameter of:				Permitted, but see Note
3.2.2.4	Splits	Open		6mm if filled and up to a number of 2/m <sup>2</sup>	5mm if unrepaired 25mm if filled and up to a number of 6/m <sup>2</sup>	40mm		
3.2.2.4	Splits	Open	Permitted if less than:				Length unlimited	
			1/10 of panel length up to an individual width of: 3mm	1/3 10mm	1/2 15mm	25mm		
			3/m if properly filled	3/m of panel width All splits greater than 2mm in width to be filled	3/m	unlimited		
3.2.2.5	Abnormalities due to insects, marine borers and parasitic plants		Not permitted	Not permitted		Permitted		Permitted, but see Note
						Marks of parasitic plants not permitted. Insects and marine borer holes permitted up to a:		
						diameter of 3mm vertically to the plane of the panel up to a number of 10/m <sup>2</sup>	width of 15mm and length of 60mm up to a number of 3/m <sup>2</sup>	
3.2.2.6	Resin pockets and inbark		Not permitted	Not permitted	Permitted up to a width of: 6mm if properly filled		40mm	Permitted, but see Note
	Resin streaks				Permitted if slight			
3.2.2.7	Irregularities in the structure of the wood		Practically absent	Permitted		Permitted		
3.2.2.8	Discoloration which is not wood-destroying			if very slight		if slight		
3.2.2.9	Fungal decay wood-destroying		Not permitted	Not permitted				
3.2.2.10	Other characteristics		Practically absent	To be considered under the category which they most closely resemble				
NOTE Characteristics inherent to wood are permitted provided that they do not impair the serviceability of the panel.								
<sup>a</sup> Pin knots: sound intergrown knots of no more than 3mm diameter.								

### 3.2.3 Manufacturing defects

Classification according to manufacturing defects is given in TABLE 2.

TABLE 2

Category of defect		Appearance class				
		E	I	II	III	IV
3.2.3.1	Open joints	Not permitted	Not permitted	Permitted up to a width of: 3mm      10mm      25mm		
				and up to a number of: 1/m      2/m      unlimited of panel width with joints		
				filled if more than 1 mm in width	unfilled	unfilled
3.2.3.2	Overlaps			Permitted up to a number of 1/m <sup>2</sup> and up to 100 mm length	Permitted up to a number of 2/m <sup>2</sup>	Permitted but see Note
3.2.3.3	Blisters			Not permitted		
3.2.3.4	Hollows, imprints and bumps			Permitted if slight	Permitted	
3.2.3.5	Roughness			Permitted if slight	Permitted	
3.2.3.6	Sanding through	Not permitted	Not permitted	Not permitted	Permitted up to an extent of: 1 %      5 % of panel surface but see Note	
3.2.3.7	Glue penetration			Permitted if slight and occasional	up to an ex- tent of 5 % of panel surface	Permitted, but see Note
3.2.3.8	Foreign particles	Not permitted	Not permitted	Ferrous particles not permitted		
3.2.3.9	Repairs: a) Patches b) Shims	Practically without defects	5/m <sup>2</sup>	Permitted if properly made and tightly filled up to number of: unlimited		
	c) Synthetic fillers	Not permitted	Not permitted	Permitted within limits of the category which it most closely resembles		
3.2.3.10	Defects at the panel edges due to sanding or sawing	Practically without defects	2 mm from the edge	Permitted up to 5 mm from the edge		Permitted, but see Note
3.2.3.11	Other defects		To be considered under the category which they most closely resemble			
	NOTE Manufacturing defects are permitted provided that they do not impair the serviceability of the panel.					

## BCDC 6 (59) CD2: 2020/ISO 2426-3:2000

### Bibliography

- [1] BCDC 6 (49) CD2: 2020/ISO 1096:2014(E/F), *Plywood — Classification*
- [2] BCDC 6 (51) CD2: 2020/ISO 2074:2007(E/F), *Plywood — Vocabulary*
- [3] BCDC 6 (58) CD2: 2020/ISO 2426-2:2020(E), *Plywood — Classification by surface appearance — Part 2: Hardwood.*