International Standard 5320

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Solid wood parquet — Classification of fir and spruce strips

Parquet en bois massif — Classification des lames en sapin et épicéa

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Foreword

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It has been approved by the member bodies of the following countries :

Brazil	Hungary	South Africa, Rep. of
Bulgaria	India	Spain
Canada	Korea, Rep. of	Yugoslavia
Czechoslovakia	Mexico	
Germany, F.R.	Romania	

The member bodies of the following countries expressed disapproval of the document on technical grounds :

France
Italy
Norway

Printed in Switzerland

Solid wood parquet — Classification of fir and spruce strips

1 Scope and field of application

This International Standard establishes the classification, by quality, of non-assembled solid fir and spruce parquet strips.

2 Reference

ISO 1072, *Solid wood parquet — General characteristics.*

3 Manufacture, characteristics, delivery conditions

3.1 The regulations for the manufacture, the characteristics and the delivery conditions are fixed by ISO 1072.

3.2 The minimum dimensions and the mean lengths for deliveries of non-specified lengths shall be the subject of agreement between the interested parties.

3.3 Solid fir and spruce parquet strips may be treated to give effective protection to all parts of the strip liable to be attacked by insects, without impairing subsequent use of the strips, the parquet appearance or its maintenance.

4 Classification

4.1 Solid fir and spruce parquet strips shall not contain more defects than those allowed under 4.5, for each grade.

4.2 Solid fir and spruce parquet strips are divided into three grades :

★★★
★★
★

4.3 Strips containing more defects than those allowed for the last grade (★) shall not be delivered under the designation "ISO solid fir [or spruce] parquet strips", nor under any other designation which may lead to confusion with one of the grades given.

4.4 Strips entirely free of defects are not covered by this classification.

4.5 The three grades shall correspond to the conditions stated in tables 1, 2 and 3.

Table 1 — General characteristics

Wood or sawing defects		Grades		
		***	**	*
Decay and suffocated wood		none		
Texture		regular		all textures permitted
Slope of grain		appreciably straight grain and parallel to the axis of the piece	slope of grain not exceeding 10 %	
Planing imperfections (areas not planed and traces of planing machine)	on face and edges	none (on examination with the naked eye)	permitted, if localized, not exceeding 0,2 mm in depth	
	on tongue	maximum permitted on 20 % of the length and of the width not exceeding 0,2 mm in depth	maximum permitted on 30 % of the length and of the width not exceeding 0,2 mm in depth	maximum permitted on 40 % of the length and of the width not exceeding 0,2 mm in depth
	on back	permitted up to a maximum depth of 0,3 mm	permitted up to a maximum depth of 0,5 mm	permitted up to a maximum depth of 1,0 mm
Planing waves	on face	permitted up to a maximum depth of 0,2 mm		
	on back	permitted		
Incomplete tongue		maximum permitted on 1/3 of the length provided that the width of the tongue is not reduced to less than 3 mm		maximum permitted on 1/2 of the length provided that the width of the tongue is not reduced to less than 3 mm

Table 2 — Face

Wood defects		Grades		
		★★★	★★	★
Pith traces		none	permitted in the form of discontinuous rays, not exceeding in length 20 mm | 30 mm if they are not cleft	
Curls		none	permitted, slight	
Colouring	pinkish	none		
	bluish	none		permitted if it does not result from adulterations due to biological agents
	brown	none		
Shakes	checks	permitted		
	shallow	none	permitted closed shakes not exceeding 20 mm in length	permitted closed shakes not exceeding in length the width of the piece and not exceeding in depth 1 mm | 2 mm
	through	none		
	ring	none		
Bark-pocket and frost cracks		none		
Round and oval knots	very small	permitted in unlimited number provided that their diameter does not exceed 2 mm for sound knots 1 mm for black knots		
	intergrown or partially intergrown	none	permitted three sound knots, each not exceeding 15 mm in diameter	not exceeding 20 mm in in diameter
	black, not intergrown or burst	none		permitted, not exceeding 20 mm in diameter
Traversing and branched knots		none		
Worm holes		none		
Pitch-pockets		none	permitted, not exceeding in length 20 mm	30 mm
Wet areas		permitted		
Wane (dull edge)		none		
Defects not mentioned		none		

NOTE — The number of defects indicated in table 2, permitted on the face of the piece, shall not exceed :

- 2 defects for grade ★ ★ ★
- 3 defects for grade ★ ★
- 4 defects for grade ★

Table 3 — Back, ends and edges

Wood defects		Grades		
		***	**	*
Pith traces		none	permitted in the form of discontinuous rays if they are not cleft	permitted
Curls		permitted		
Shakes	checks	permitted		
	shallow	permitted, not exceeding 4 mm in depth		
	through	none		
Round and oval knots	sound, of normal colour, even darker	permitted, provided that the diameter does not exceed		
		20 mm	30 mm	
	black, intergrown, dead or burst	permitted, provided that the diameter does not exceed		
		10 mm	20 mm	
Wane (dull edge)		maximum permitted in length and in width		
		20 %	30 %	40 %
		in depth		
		20 % of the thickness of the piece		
Defects not mentioned		permitted provided that they do not impair the strength and the durability of the parquet		