### **REVIEW ANALYSIS OF INDIAN STANDARD**

#### (To be submitted to the Sectional Committee)

- 1. Sectional Committee No. & Title: Building Construction Practices Sectional Committee CED 13
- 2. IS No: IS : 5389:1969,
- 3. Title :Code of practice for laying of hardwood parquet and wood block floors
- 4. Date of review:
- 5. Review Analysis
- i) Status of standard(s), if any from which assistance had been drawn in the formulation of this IS.

Standard (No.& Title)	Whether the standard has since been revised	Major changes	Action proposed
	no	2.4 Parquet floors	Addition It shall accommodate the tile shapes of parquet. These tiles shall be constructed from hardwoods slats that shall be joined with a backing substance. Parquet flooring provides the ideal appearance ,texture and durability.
		2.4.1 Parquet	Addition It is flexible and less sensitive to moisture as compared to solid wood floor boards.
		3.1.1 Necessary information	Point No. (r) to be deleted from existing clause no.3.1.1 New Addition (r) Size and type of rooms where parquet flooring shall be laid inside the building.

Parquet flooring	6	1.1	Note- (extg. Figures from1A
patterns,from			to1E to be deleted from
sources across		atterns	clause no.6.1.1 in code)
the web.			·
			New Addition
			The common types of parquet
			patterns are shown in
			fig.1,details as such:-
			1a) <b>Chevron</b> - Chevron
			parquet flooring features a
			diagonal wood pattern, it shall
			produce a strong striping
			effect. Chevron planks are
			cut an angle and installed so
			that each plank meets the
			end of another.
			1b) <b>Herringbone</b> -It includes
			equal sized planks that are
			installed in sort of Zig- Zag
			pattern. This formation shall
			give the flooring dimensional
			stability because the boards
			are pushed against each
			other shall lead to limiting the
			movement.
			1c) <b>Versailles</b> -The design
			shall include interlaced
			diagonals and square panel.
			1d) <b>Boardeaux</b> - such shapes
			shall be arranged in a complex parquet and framed
			by square boarder. It is
			arranged to form multiple
			geometric design.
			1e) <u>Basket weave</u> –This style
			shall be made with single
			shade, light coloured wood
			planks. It is created by
			interlocking planks of wood in
			a crisscrossing pattern.
			1f <u>)Chantilly</u> -A classic pattern
			that shall include square
			boarder that is comprised of
			evenly cut rectangular planks
			which enclose an interlacing
			arrangement of plus sign
			shape pattern
			1g) <u>Mosaic</u> - Such flooring
			features a variety of different
			geometric patterns which are
			created by small wood strips
	1		ereated by email wood empo

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	together to form panel.
	(For figures, please refer
	fig.1)
	(Existing Figures from 2A
	to2E to be deleted.)
	In addition to above further
	patterns are also shown in
	new fig.2 ,wherein following
	patterns are included .
	2a) <mark>Double Herringbone</mark> - In
	which two Herringbone
	patterns of parquet shall be
	appeared.
	2b) <b>Wood strip</b> -In which
	pattern shall appear similar
	like English bond of brick
	masonry.
	2c) <b>Brick bond</b> -It shall be
	almost similar pattern like
	wood strip.
	2d) <u>Stack bond</u> -In this
	parquet pattern there shall be
	continuous line of Joint.
	2e) <b>Checker board</b> -Pattern
	will be similar like chess
	board figure.
	2f) <u>Double basket weave</u> -
	Pattern shall be similar like
	basket weave.
	(Existing figures at 3A and 3B
	to be deleted)
	other patterns are shown in
	fig.3 as detailed below,
	3a) Variance-Different type of
	floor patterns and wood floor
	laying pattern shall create
	varied and emerging look.
	3b <u>)Kruris</u> -The design
	includes rectangular boarder.
	3c) <b>Empire</b> -In this pattern
	particular area shall be
	divided in number of parts
	and in each part different
	types of pattern shall be
	incorporated.
	3d) <b>Chateau</b> -Due to different
	shades attractive surface
	shall appear.
	3e) <u>Castel</u> -In this pattern

	wood block Floors 6.2.1	diagonal shapes parquets shall appear. Other new patterns shall be developed by combining above patterns. The common type of wood block flooring shall be in herring-bone or basket pattern(seeFig.3) or simple variation of these patterns. Rest will be same as original of existing code
	7.3 Choice of floor seal	Addition Parquet flooring shall be sealed with both hard wearing varnish or hard wax oil. Sealant of the same colour of floor shall be added to achieve the best finish. For floor exposed to high traffic, thicker layer of floor varnish provide higher level of protection and Durability. Varnish shall be applied in the direction of wood fiber using a roller or spalter in 2 or 3 coats ,shall be dried for 2 hours between the coats and 24 hrs after the last coat. Oil based wood finish shall provide a more natural feel and appearance but they require more frequent maintenance in order to maintain the protection of timber. (Existing portion of 7.3 of code shall be added after above paragraph)

	8 Fire Protection 8.1	<ul> <li><u>New Addition</u></li> <li>In order to keep safety of wooden floor from fire consideration, following actions shall be taken;-</li> <li>a).Proper installation of hardwood and laminate flooring shall be required .</li> <li>Gaps between parquet and improper sealing shall lead to fire hazards.</li> <li>b).Hardwood such as Oak,Walnut,Mahogany,Maple , Teak shall be effective for fire resistance purpose.</li> <li>c).Fire resistant coatings like intumescent paint shall create a barrier that shall protect the wood .</li> <li>Fire protection provisions as Laid down in NBC shall be followed.</li> </ul>
	Note- Please read this draft in conjunction with figures,fig.1,fig.2, fig.3. attached herewith.	

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# ii) Status of standards referred in the IS

Referred standards (No. & Title)	IS No. of this standards since revised	Changes that are of affecting the standard under review	Action proposed

 Any other standards available related to the subject & scope of the standard being reviewed (International/regional/other national/association/consortia, etc or of new or revision of existing Indian Standard)

Standard (No. & Title)	Provisions that could be relevant while reviewing the IS	Action proposed

### iv) Technical comments on the standard received, if any

Source	Clause of IS	Comment	Action proposed

## v) Information available on technical developments that have taken place (on product/processes/practices/use or application/testing/input materials, etc)

Source	Development	Relevant clause of the IS under review that is likely to be impacted (Clause & IS No.)	Action proposed

vi) Issues arising out of changes in any related IS or due to formulation of new Indian Standard

Related IS and its Title (revised or new)	Provision in the IS under review that would be impacted & the clause no. or addition of new clause/provision	Changes that may be necessary in the Standards under review	Action proposed

#### vii) Any consequential changes to be considered in other IS

Related IS	Related IS Title	Requirements to be impacted
to get		
impacted		

# 6. Any other observation:

## 7. Recommendations:

To refer the following segment for the proposed for the proposed changes marked in red.