

ANNEX 1

(Item 2.1)

DECISIONS ON COMMENTS RECEIVED ON AMENDMENT ON INDIAN STANDARD TELESCOPIC BALL BEARING DRAWER SLIDE SPECIFICATION (IS 17954:2023) CED 15(26329) WC

Sl. No. (1)	Clause/ Sub- clause/ Para No. (2)	Commentator (3)	Comments/ Suggestions (4)	Modified Wordings (5)	Reasons/ Justifications for the Propose Changes (6)	Decision of the Committee (7)
1	5.1	Shri Virender Kumar, Hettich Pvt. Ltd.	No need to revise this clause as it is already covering the requirement of material and providing flexibility to use any alternate material however it should confirm to relevant Indian standards	-		Agreed, the clause will remain the same as currently stated in IS 17954: 2023.
2	5.2	Shri Virender Kumar, Hettich Pvt. Ltd.	Only sub clause (b) need to be substituted with proposed change and not complete paragraph		The length or size of slide is decided by the length of outer channel	Agreed to delete 5.2(b).
3	5.5	Shri Virender Kumar, Hettich Pvt. Ltd.	Only sub clause (b) need to be substituted with proposed change and not complete paragraph		This needs to be kept as an important componet of telescopic slides	5.5 (b) is already deleted in Draft Amendment No.-2.

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4	5.6	Shri Virender Kumar, Hettich Pvt. Ltd.	Sub clause (c) should be deleted as well		Since table 2 will be deleted, this subcaluse is not relevant	Agreed to delete 5.6(b) and 5.6(c) both.
5	5.6	Häfele India Pvt ltd.	To be deleted	To be deleted	It was agreed in BIS Stakeholders online meeting on 24-July 2024, that clause 5.6 (c) shall be deleted however in Draft Amendment No. 2 to IS 17954 by error it is not mentioned and Clause 5.5 (b) is repeated twice.	
6	5.8	Shri Virender Kumar, Hettich Pvt. Ltd.	Sub clause (c) should have additional note "the locking unlocking force can also be as agreed with purchaser and manufacturer"		This will support special application slides wherein the special or customized requirements are specified by manufacturer	Agreed to add the sentence that, in the case of special applications, another range of force may be agreed upon as per the agreement between the manufacturer and the purchaser.
7	Clause 5.8(c): Bumper	Häfele India Pvt ltd.	The force in Newtons must be specified for Unit or for Pair. Also, the upper limit 28N is too high	"Bumper shall be capable of locking/ unlocking the ball bearing slide by application of 10N +/- 5 N force when used on individual slide, or _____ force when used on pair of slides installed on drawer.	The Force of opening slide (18N +/- 10N) is too high. It must be lowered as Globally manufacturers trying to reduce User force in opening Drawer. Including Images like in Clause 7 and Clause 8 will be further helpful to ensure no confusion	

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8	5.10(b)	Sanjiv Bansal, High hope associates.	Option of using different material should be given instead only mild steel	Rivets may be manufactured from steel, stainless steel or aluminum or any other material of their choice but should not affect the performance of drawer slide	As manufacturers are using different material rivets aluminum also. some of BIS officers insisting to use mild steel only.	Not agreed, as any other material conforming to the relevant Indian Standards is already allowed in the clause.
9	5.11	Shri Virender Kumar, Hettich Pvt. Ltd.	No need to delete the complete clause, only sub clause (c) need to be deleted Sub clause (e) can also be deleted		Since table 3 will be deleted, it will not have any relevance	5.11 (c) is already deleted in Draft Amendment No.-2. Agreed to delete 5.11 (b) and 5.11 (e).
10	12	Shri Virender Kumar, Hettich Pvt. Ltd.	Coating thickness specified in subclause (a) and (b) can also be deleted.		Since it will be a performance based standard, the corossion test requirements are covered by clause 12 itself	Agreed to delete minimum coating thickness requirement.
11	Clause 12:Finish	Häfele India Pvt ltd.	72 hrs Salt Spray test to be changed to 48 hrs	Unless otherwise specified, telescopic ball bearing slide shall be finished bright with smooth surfaces and shall pass minimum 72 h salt spray test as per IS 9844.	Industrial Norms laid down are for 24 hrs. 72 hrs is too high a requirement.	Not agreed to reduce from 72h. However, in-line with International standard, the exceptions of cutting edges, screw slots, rivet heads, aluminium

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						and moulded parts of zinc, all parts which are visible when the hinges are mounted shall show no corrosion. The function shall be maintained already given in the draft amendment no.-2.
12	Table 2 and 3	Sanjiv Bansal, High hope associates.	Please delete the clauses related to tables that are supposed to be deleted.	Delete clauses	As there will not be any correlation when tables are deleted.	Table 2 and 3 are already deleted in Draft Amendment No.-2.
13	Clause 12, Finish, First sentence :- "with the exception of cutting edges, screw slots, river heads, aluminium and	EBCO	Corrosion resistance :- The corrosion test shall be carried out according to EN ISO 6270-2. Requirement: 3 cyclesAHT (Alternationof humidity and air temperature.)		As per DIN EN 15338:2010-06 (Hardware for furniture – Strength and durability of extension elements and their components. corrosion resistance specified is 3 AHT cycle (72 hrs.) Attached standard copy of EN ISO 6270- 2	Not agreed to reduce from 72h. However, in-line with International standard, the exceptions of cutting edges, screw slots, rivet heads, aluminium and moulded parts of zinc, all parts

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	moulded parts of zinc, all parts, which are visible when the telescopic ball bearing drawer slides are mounted shall show no corrosion and shall fulfil their functions' Neutral salt spray test shall pass minimum 72 hours as per IS 9844					which are visible when the hinges are mounted shall show no corrosion. The function shall be maintained already given in the draft amendment no.-2.
14	Clause 12	Yashwant Pagnis	Stringent criteria such as 72 hrs salt spray is just not required - there should be classification of 24 & 48 hrs salt spray also		1) Salt spray test is normally performed @ 24, 48 & 72 hrs - by taking 72 hrs as Qualification Criteria the BIS HAS SET THE BAR VERY HIGH.	Not agreed to reduce from 72h. However, in-line with International standard, the

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					<p>2) I have studied the salt spray specifications of 3 different international brands (names withheld to avoid controversy).</p> <p>All if them write 48 hrs Salt Spray in their Specs or in certificates available on web !</p>	<p>exceptions of cutting edges, screw slots, rivet heads, aluminium and moulded parts of zinc, all parts which are visible when the hinges are mounted shall show no corrosion. The function shall be maintained already given in the draft amendment no.-2.</p>
15	Clause 5.13: Mounting Holes	Häfele India Pvt ltd.	Hole Punching must be as per System 32	Not mentioned in standard	<p>Global Industrial Production follows System 32 and for India to grow its Exports, it is a must.</p> <p>1. Standardization: The 32mm system provides a universal standard that allows different components and hardware, such as hinges, drawer slides,</p>	<p>Not agreed for addition of system 32. However, the wordings of the clause will be modified as follows:</p> <p>5.13 Fixing Mechanism or Installation Provisions</p>

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					<p>and shelf pins, to be aligned and interchangeable. This reduces complexity and ensures compatibility across different furniture pieces.</p> <p>2. Efficiency: By using the 32mm grid, manufacturers can streamline the design and production processes. It simplifies drilling operations and reduces the need for custom measurements, leading to faster production times and lower costs.</p> <p>3. Flexibility: The system allows for easy customization and modularity in furniture design. Shelves, drawers, and doors can be adjusted or rearranged easily because they all align with the</p>	<p>The telescopic ball bearing slides shall have provisions for easy installation by way of providing mounting holes on outer channel and track preferably in a manner that required adjustments during installation are possible or any other type of fixing/ installation mechanism such as buyonts/lancing as agreed between purchaser & manufacturer</p>

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					<p>32mm grid, making it versatile for different consumer needs.</p> <p>4. Ease of Assembly: The consistent spacing makes it easier for both manufacturers and endusers to assemble furniture. The alignment of holes and fixtures ensures that parts fit together perfectly without the need for extensive adjustments.</p> <p>5. Global Adoption: The System 32 standard is widely recognized and used globally, making it easier for manufacturers to produce furniture for international markets. It also means that</p>	

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					<p>consumers can mix and match components from different manufacturers.</p> <p>In summary, System 32 is crucial in modern furniture manufacturing because it provides a consistent, efficient, and flexible approach to designing and producing modular furniture, particularly in cabinetry and shelving.</p>	
Other Comments received on IS 17954						
16	Table 2 Col 13	Manak Manthan		Dimension 597 for size 650 mm to be changed to 647	Dimension 597 not correct for 650 mm size 2.	Table 2 is already deleted in Draft Amendment No.-2.
17	Table 2 Col 13	Manak Manthan		Dimension 251 for size 650 mm to be changed to 277	Dimension 251 not correct for 650 mm size	
18	Table 2 Col 15	Manak Manthan		Tolerance value +1 to bechanged to +-1	In line with other tolerances	

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19	4.2, second sentence	--				Agreed to delete, as it is no more relevant after deleting Table no. 2.