

BUREAU OF INDIAN STANDARDS

MINUTES

Builder's Hardware : **Thirty-Fifth Meeting**
Sectional Committee, CED 15

Wednesday, 25th September 2024 : **04:30 PM**

Online Mode

PRESENT:

Chairperson : Shri B. Majumdar (In-Personal Capacity), Delhi

Member Secretary : Shri Pradeep Singh Shekhawat, Scientist – D/ Joint Director, CED, BIS

Members:

- 1) Shri Anil Chadha, Argent Industries, New Delhi
- 2) Shri Sandip Garg, D.P. Garg & Company Private Limited, Noida
- 3) Shri Sudhir Batra, Mech India Industries, New Delhi
- 4) Shri Ishan Batra, Mech India Industries, New Delhi
- 5) Shri Sameer Arora, Mech India Industries, New Delhi
- 6) Shri Sushil Tawar, Allied Anodisers, Kolkata
- 7) Shri Syed Mohamed, AOS Door Controls LLP, Chennai
- 8) Shri Hanish Arora, Dormakaba India Private Ltd, New Delhi
- 9) Shri Kshitij Gaikar, Godrej & Boyce Manufacturing Company Limited, Mumbai
- 10) Shri Pravin Nayak, Godrej & Boyce Manufacturing Company Limited, Mumbai
- 11) Shri Virendra kumar ,Hettich India Private Limited, Vadodara
- 12) Shri Anil Vanjani, Kich Architectural Products Pvt Ltd, Rajkot
- 13) Shri Bharat Hapani, Kich Architectural Products Pvt Ltd, Rajkot
- 14) Shri Parameswara Reddy, Shakti Hormann Private Limited, Chennai
- 15) Shri Mahesh Singh, Shakti Hormann Private Limited, Chennai
- 16) Shri Mukesh Purshotamdas, South India Agencies, Mangalore
- 17) Shri Rohit Goyal, South India Agencies, Mangalore
- 18) Shri Sharanraj A, Winwall Technology India Private Limited, Chennai

Item 0 OPENING REMARKS BY THE CHAIRPERSON

The Chairperson warmly welcomed all committee members to the 35th meeting of the Builder's Hardware Sectional Committee, CED 15. He expressed his satisfaction with the frequency of the meetings, noting that this one is held just two months after the previous meeting. He attributed this achievement to the timely efforts of the Secretariat and the dedication of the committee members.

He emphasised the importance of involving organisations beyond the manufacturing sector, including those from the user and government sectors, to provide valuable perspectives on Indian Standards from a user's viewpoint. He requested the BIS Secretariat and committee members to reach out to such organisations to encourage their active participation in the Committee.

He also highlighted the benefits of the training programmes organised by BIS at NITS for principal members of the organisations and encouraged them to attend upcoming sessions. Additionally, he informed the committee of the ongoing task to revise all pre-2000 Indian Standards under this Committee, which would be done in phases. He requested the respective working groups to prioritise the revision of pre-2000 standards in line with the Committee's Annual Action Plan.

With these remarks, he handed over to the Member Secretary to conduct the meeting as per the agenda.

Item 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

There being no comments received, the Committee confirmed the minutes of the 33rd and 34th meetings of the Builder's Hardware Sectional Committee, CED 15, as circulated

Item 2 DRAFT AMENDMENTS UNDER WIDE-CIRCULATION

2.1 IS 17954: 2023 - Telescopic Ball Bearing Drawer Slide – Specification

The Committee considered Draft Amendment No. 2 to IS 17954, along with the comments received. The comments were discussed in depth, and the decisions on the comments are provided in Annex 1. After the discussion, the Committee finalised Draft Amendment No. 2 for adoption and publication with suitable modifications based on the decisions on the comments. The Committee also authorised the BIS Secretariat to make any consequential changes and other necessary modifications or improvements required in consultation with the Chairperson.

2.2 IS 18297: 2023 – Cabinet Hinges – Specification

The Committee considered Draft Amendment No. 1 to IS 18297, along with the comments received. The comments were discussed in depth, and the decisions on the comments are provided in Annex 2. After the discussion, the Committee finalised Draft Amendment No. 1 for adoption and publication with suitable modifications based on the decisions on the comments. The Committee also authorised the BIS Secretariat to make any consequential changes and other necessary modifications or improvements required in consultation with the Chairperson.

ITEM 3 COMMENTS RECEIVED ON INDIAN STANDARDS

3.1 Clarification on IS 17954: 2023 - Telescopic Ball Bearing Drawer Slide – Specification

The Committee endorsed the reply prepared and provided by the BIS Secretariat on the interpretation of results as per Table 2 of IS 17954, as given in the agenda of the meeting.

3.2 IS 4992: 2024 - Door Handles for Mortice Locks - Specification (Second Revision)

The Committee considered and discussed the comments received on IS 4992: 2024 by the BIS Secretariat through the Manak Manthan programmes (organised by BIS branch offices), and after in-depth discussion, the decision on each comment is provided in Annex 3.

3.3 IS 204 Part 2: 1992 Tower bolts — Specification: Part 2 Non-ferrous Metals (fifth revision)

The Committee considered and discussed the comment received from Shri Ishan Batra and the recommendation of the Convener of the Working Group for modification/amendment in IS 204 (Part 2). After the discussion, the Committee agreed to a wide circulation (to elicit public comments for a period of one month) of the draft amendment to IS 204 (Part 2) for modification of the clauses as follows:

- i. Table 3. SI No. ii), Addition of 63400WP of IS 733: 1983 against Aluminium alloy extruded rods.
- ii. Clause 7.1 a 2) and 7.1 b 2), replace “Grade AC10” by “Grade AC5” as per IS 1868: 1996.

However, the Committee noted that R&D on the Tower Bolts specification is already underway, and once the R&D outcome is received, the revision of IS 204 (Part 2) will be taken up accordingly.

3.4 IS 205: 1992 Non-ferrous metal butt hinges — Specification (fourth revision)

The Committee considered and discussed the comment received from Shri Ishan Batra and the recommendation of the Convener of the Working Group for modification/amendment in IS 205. After the discussion, the Committee agreed to a wide circulation (to elicit public comments for a period of one month) of the draft amendment to IS 205 for modification of the clauses as follows:

- i. Table 1, Flap and Pin (both) – Addition of 63400WP of IS 733: 1983 against Aluminium alloy.
- ii. Table 2, Addition of size as follows:

| Hinge Designation | Length (mm) | Breadth (mm) | Butt Dia. (mm) | Pin Dia. (mm) | Thickness of Flap (mm) | | Holes for screw Designation | No. of screw Holes |
|-------------------|-------------|--------------|----------------|---------------|------------------------|-----|-----------------------------|--------------------|
| | | | | | (6) | (7) | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| 150B22 | 150 | 63 | 11 | 5.00 | 4.00 | 4.8 | 10 | 12 |

- iii. Clause 7.2 - Replace “Grade AC10” by “Grade AC5” as per IS 1868: 1996.

Shri Sandip Garg informed the Committee that the working draft for the Indian Standard on Single-Axis Hinges for Doors and Windows is currently under preparation and will be submitted to the Committee before the next meeting. The Committee also agreed to reconstitute the existing working group on ball-bearing hinges, which will now cover all types of door hinges, tower bolts, sliding door bolts, door handles, and door lock handles. The new composition of this working group is provided in Annex 4.

3.5 IS 2681: 1993 Non-ferrous metal sliding door bolts (aldrops) for use with padlocks — Specification (third revision)

The Committee considered and discussed the comment received from Shri Ishan Batra and the recommendation of the Convener of the Working Group for modification/amendment in IS 2681. After the discussion, the Committee agreed to a wide circulation (to elicit public comments for a period of one month) of the draft amendment to IS 2681 for modification of the clauses as follows:

- i. Table 1 - Addition of 63400WP of IS 733: 1983 against Aluminium alloy Sheets and Extruded.
- ii. Clause 8.2 - Replace “Grade AC10” by “Grade AC5” as per IS 1868: 1996.
- iii. Modification in tolerances in figures as follows:

Fig. Section xx – Replace “ 27 ± 0.5 ” mm by “ 27 ± 1 ” mm.

Fig. Section xx – “ 25.5 ± 0.5 ” mm by “ 25.5 ± 1 ” mm.

3.6 IS 208: 2020 - Door Handles - Specification (sixth revision)

The Committee considered and discussed the comment received from Shri Anil Chadda of Argent Industries for modification/amendment in IS 208. After the discussion, the Committee agreed to a wide circulation (to elicit public comments for a period of one month) of the draft amendment to IS 208 for modification of the clauses as follows:

- i. Table 1, SI No. vii) - Addition of 63400WP of IS 733: 1983.

3.7 IS 1341: 2018 – Steel Butt Hinges – Specification (second revision)

The Committee considered and discussed the comment received from M/s Modern Doordevices Pvt. Ltd. for modification/amendment of IS 1341. After the discussion, the Committee agreed to a wide circulation (to elicit public comments for a period of one month) of the draft amendment to IS 1341 for modification of the clauses as follows:

- i. Modify the tolerance “ \pm ” by “Minimum” word and not give any tolerance on negative side in Thickness of flap and Diameter of hinge pin in Table 2 to Table 9 of IS 1341.

3.8 IS 12817: 2020 Stainless Steel Butt Hinges – Specification (third revision)

The Committee considered and discussed the comment received from M/s D. P. Garg & Co. Pvt. Ltd. for modification/amendment of IS 12817. After the discussion, the Committee agreed to a wide circulation (to elicit public comments for a period of one month) of the draft amendment to IS 12817 for modification of the clauses as follows:

- i. Modify the tolerance “ \pm ” by “Minimum” word and not give any tolerance on negative side in Thickness of flap and Diameter of hinge pin in Table 1 to Table 6 of IS 12817.

Regarding the comment received from M/s Nadeem Enterprises, the Committee discussed and noted that the performance of welded stainless steel butt hinges is quite different from that of riveted stainless steel butt hinges. Furthermore, the welded stainless steel butt hinges (mentioned in the Agenda) are not covered in IS 12817: 2020.

3.9 IS 281: 2009 - Mild steel sliding door bolts for use with padlocks - Specification (Fourth Revision)

The Committee considered and discussed the comment received from M/s Asha Metal Industries for modification/amendment of IS 281. After the discussion, the Committee agreed to a wide circulation (to elicit public comments for a period of one month) of the draft amendment to IS 281 for modification of the clauses as follows:

- i. Fig. 1 - Replace “ 3.15 ± 0.08 ” mm by “ 3.15 ± 0.19 ” mm.
- ii. Fig. 2 - Replace “3.15” mm by “ 3.15 ± 0.19 ” mm.

3.10 Stainless Steel Argon Welded Hinges

Regarding the comment received from M/s Madhuri Industries, the Committee discussed and noted that the performance of argon-welded stainless steel butt hinges is quite different from that of riveted stainless steel butt hinges. Furthermore, the argon-welded stainless steel butt hinges (mentioned in the Agenda) are not covered in IS 12817: 2020.

3.11 IS 17706: 2022 Pull Handles — Specification

The Committee considered and discussed the comments received from Shri Vikas Narwal of Dorset Industries, and the Committee's decision on each comment is as follows:

1) Comment - Clause - 3.1.1, Table 1 - recommended Dimensions given for D - Shape Pull handle. Whereas as of now Almost Standards are conversing into Performance Based. Propose changes - Dimension of handle, Studs, SS Washer, LDPE Washer and Grub Screw as agreed between Manufacturer and Customer without affecting the Performance of Pull handle as per given in this Standard.

Committee Decision – Not agreed, as dimensions are recommended only.

2) Comment - Clause - 3.1.2, Table 2 - recommended Dimensions given for H - Shape Pull handle. Whereas as of now Almost Standards are conversing into Performance Based. Propose changes - Dimension of handle, Studs, SS Washer, LDPE Washer and Grub Screw as agreed between Manufacturer and Customer without affecting the Performance of Pull handle as per given in this Standard.

Committee Decision – Not agreed, as dimensions are recommended only.

3) Comment – Note of Table 1 and Table 2 - NOTE - 1.2 mm thick material shall be used for 19 mm to 32 mm diameter pull handles and 1.5 mm thick material for 38 mm diameter. Propose changes - NOTE - Any Suitable thick pipe shall be used without affect of the Performance of Pull handle as per given in this standard.

Committee Decision – As the notes under Tables 1 and 2 state 'shall,' it means that the thickness requirement is mandatory. However, this may be reviewed as the performance requirements are already specified in this standard. All members are requested to share their inputs based on industry practices, and the concerned working group on door hardware can take up this matter for further discussion and recommendation to the Committee.

3.12 Clarification on applicability of Indian Standards for Industrial Hinges and Latches used in Cold Storage

Regarding the comment received from Shri Nitin Manjeri about the applicability of Indian Standards under CED 15 for industrial hinges and latches used in cold storage, the Committee discussed and noted that these hinges and latches (as mentioned in the Agenda) are not covered by any Indian Standard formulated by CED 15.

Item 4 NEW INDIAN STANDARDS (UNDER DEVELOPMENT) FOR WHICH DRAFT RECEIVED TO BIS SECRETERATE FOR FURTHER PROCESS

4.1 Under-Mount Drawer Slides – Specification

The Committee reviewed the draft on Under-Mount Drawer Slides – Specification, submitted by Shri Mukesh Purshotamdas of South India Agencies, Bengaluru, and decided to first discuss it within the working group. Consequently, the Committee has constituted a working group for all Indian Standards related to furniture hardware, both existing and those to be developed. The composition of this working group is provided in Annex 4.

Item 5 PROGRAMME OF WORK (POW)

The Committee reviewed and noted the POW as given in the Agenda.

Item 6 COMPOSITION OF THE SECTIONAL COMMITTEE

6.1 The Committee noted and reviewed the current composition of the Sectional Committee as presented in the Agenda. After reviewing the composition, the Committee decided to co-opt organisations as follows:

- 1) Intertek India Private Limited, Gurugram
- 2) The Indian Institute of Architects, Mumbai
- 3) Central Public Works Department, New Delhi
- 4) Building Materials and Technology Promotion Council, New Delhi

- 5) Military Engineering Services, New Delhi
- 6) NBCC (India) Limited, Delhi
- 7) Engineers India Limited, Delhi
- 8) L&T Construction

These organizations will be considered as co-opted members only after getting nominations from these organizations.

6.2 The Committee included organisations from which co-option requests were received. It also reconstituted the working group for all types of door hinges, tower bolts, sliding door bolts, door handles, and door lock handles. Additionally, a new working group was constituted to address all Indian Standards related to furniture hardware, both existing and those to be developed. The composition of these working groups, along with other previously constituted groups, is provided in Annex 4.

The responsibilities of these working groups include formulating new Indian Standards or revising existing ones within their scope. When any query or request for clarification is received, the BIS Secretariat will forward it to the relevant working group and also share it with all Committee members for their input. On behalf of the concerned working group, the Convener will then provide a response to the BIS Secretariat for appropriate further action and the approval of the Chairperson of the Committee.

Item 7 ANY OTHER BUSINESS

The members joined the Member Secretary in thanking the Chairperson for their guidance and the smooth conduct of the meeting, which led to fruitful discussions and decisions. The Member Secretary also thanked all the members for their keen interest and valuable input during the deliberations of the meeting.
