

केन्द्रीय मुहर विभाग-2

हमारा संदर्भ : के.मु.वि.-2/16: 4923

14 05 2018

**विषय: IS 4923:2017 की संशोधन सं 1 के कार्यान्वयन के संदर्भ में**

1. उपरोक्त विषय के संदर्भ में परिपत्र अनुपालन हेतु संलग्न है।

(आदित्य दास)

वैज्ञानिक सी (सी एम डी-2)

प्रमुख (के.मु.वि.-2)

सभी क्षेत्रीय/शाखा कार्यालयों/प्रयोगशालाएँ/एलपिपीडी/एम टी डी को परिचालित आई टी एस विभाग - बीआईएस इंटरनेट पर अपलोड करने के लिए

**CENTRAL MARKS DEPARTMENT-2**

Our Ref: **CMD-2/16: 4923**

**14 05 2018**

**Subject: Implementation of amendment no. 1 to IS 4923:2017**

1. Please find enclosed circular regarding above subject for implementation.

(Aditya Das)  
Sc. 'C' (CMD-2)

Head (CMD-2)

**Circulated to all ROs/BOs/Labs/LPPD/MTD**

**Copy to: ITS for hosting on BIS Intranet**

**CENTRAL MARKS DEPARTMENT -2**

Our Ref: CMD-2/16:4923

09-05-2018

**Subject: Implementation of amendment no. 1 to IS 4923:2017**

1. This has reference to the above and is further to CMD-2's note dated 07.03.2018.
2. Amendment no. 1 to IS 4923:2017 has now been published (copy of amendment enclosed for reference).
3. As per Gazette Notification no. SO 1764 (E) dated 26.04.2018, the IS 4923:2017 without amendment shall remain in force till 25.08.2018, which is also the last date of concurrent running of IS 4923:1997 and IS 4923:2017. (Copy of Gazette Notification enclosed for reference)
4. The above amendment has been issued to rectify certain issues in the IS, mainly to specify negative tolerances for thickness, outside dimensions, squareness of corner and length which were absent in the IS 4923:2017.
5. No change is required due to this amendment in revised STI (Doc:STI/4923/9 October 2017) circulated earlier vide CMD-2's circular dated 07.11.2017.
6. All BOs concerned are requested to kindly ensure implementation of the amendment within the last date. Guidelines issued earlier in respect of implementation of IS 4923:2017 remain unchanged otherwise.

**Aditya Das  
Sc. C**

**Head CMD-2**

**All ROs/BOs/Labs/LPPD**

**Copy to: ITSD – for hosting on BIS intranet**

**AMENDMENT NO. 1 MARCH 2018**  
**TO**  
**IS 4923 : 2017 HOLLOW STEEL SECTIONS FOR STRUCTURAL USE —**  
**SPECIFICATION**

*(Third Revision)*

(Page 1, clause 4, Symbol  $x_1$ ) — Substitute ‘ $x_2$  mm Convexity of a side of square or rectangular hollow section’ for ‘ $x_1$  mm Convexity of a side of square or rectangular hollow section’.

(Page 1, clause 4, Symbol  $r$ ) — Substitute ‘ $\theta$ ’ for ‘ $r$ ’.

(Page 3, clause 10.5) — Substitute ‘ $\theta$ ’ for ‘ $r$ ’.

(Page 3, clause 10.7, Fig. 5) — Substitute ‘ $r_{\max}$ ’ for ‘ $r$ ’.

[Page 4, section 2, clause 14.1 a), b), c), d) and f)] — Substitute the following for the existing:

- a) Thickness of all sizes
  - 1) Welded tubes :  $\pm 7.5$  percent
  - 2) Seamless tubes :  $\pm 12.5$  percent
- b) Outside dimensions of sides :  $\pm 1$  percent of length of the side to be measured with a minimum of  $\pm 0.5$  mm
- c) Weight
  - 1) On individual length :  $\begin{matrix} +10 \\ -8 \end{matrix}$  percent
  - 2) On lots of 10 tonne, *Min* :  $\pm 7$  percent
- d) Squareness of corner :  $90 \pm 2^\circ$
- f) Length
  - 1) Exact Length :  $\pm 6$  mm
  - 2) Random length : This may be obtained by arrangement between purchaser and manufacture

[Page 5, section 3, clause 18.1 a), b), c), d) and f)] — Substitute the following for the existing:

- a) Thickness of all sizes
  - 1) Welded tubes :  $\pm 7.5$  percent
  - 2) Seamless tubes :  $\pm 12.5$  percent
- b) Outside dimensions of sides :  $\pm 1$  percent of length of the side to be measured with a minimum of  $\pm 0.5$  mm
- c) Weight
  - 1) on individual length :  $\begin{matrix} +10 \\ -8 \end{matrix}$  percent
  - 2) On lots of 10 tonne, *Min* :  $\pm 7$  percent
- d) Squareness of corner :  $90 \pm 2^\circ$
- f) Length
  - 1) Exact Length :  $\pm 6$  mm
  - 2) Random length : This may be obtained by arrangement between purchaser and manufacture

[Page 5, clause 18.1 j)] — Delete  $5.65 \sqrt{A}$  given under straightness.

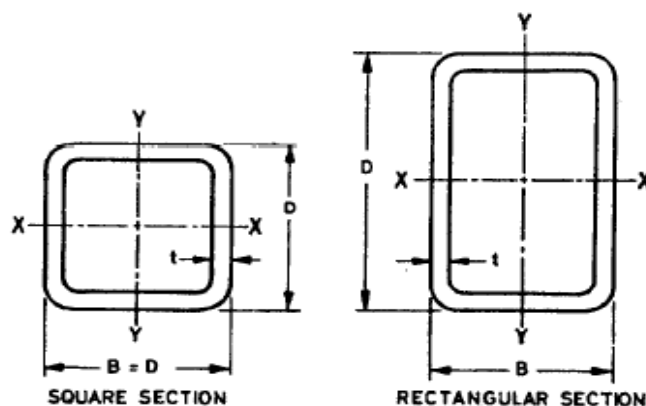
(Page 5, clause 19.2) — Substitute the following for the existing clause:

‘19.2 When tested in accordance with IS 1608, the tensile properties of cold formed sections and elongation percentage on a gauge length of  $5.65 \sqrt{A}$  (where,  $A$  is the cross-sectional area of the section) shall be as given in Table 4.’

[Page 6, Annex A]— Substitute the following for the existing:

ANNEX A  
(Clause 8.1)

GEOMETRICAL DATA OF HOLLOW SECTIONS



Area of cross-section =  $A = 2t [(B - 4t) + (D - 4t)] + \frac{3}{2} \pi t^2$  in  $\text{cm}^2$

Weight (kg/m) =  $W = 0.785 A$  in  $\text{cm}^2$

For X - X axis :

Moment of inertia =  $I_x = t \frac{(D - 4t)^3}{6} + \frac{1}{2} \left[ \frac{(B - 4t) t^3}{3} + (B - 4t) (D - t)^2 t \right] + \frac{\pi t^4}{108} \left[ 405 - \frac{3 \cdot 136}{\pi^2} \right] + 3 \pi t^2 \left[ \frac{9 \pi (D - 4t) + 56t}{18 \pi} \right]^2$  in  $\text{cm}^4$

Elastic modulus =  $Z_x = \frac{2 I_x}{D}$  in  $\text{cm}^3$

Plastic modulus =  $S_x = t/2 (D - 4t)^2 + t (B - 4t) (D - t) + \frac{t^2}{6} [9 \pi (D - 4t) + 56t]$  in  $\text{cm}^3$

Radius of gyration =  $R_x = \sqrt{\frac{I_x}{A}}$  in cm

For Y - Y axis :

Moment of inertia =  $I_y = \frac{t (B - 4t)^3}{6} + \frac{1}{2} \left[ \frac{(D - 4t) t^3}{3} + (D - 4t) (B - t)^2 t \right] + \frac{\pi t^4}{108} \left[ 405 - \frac{3 \cdot 136}{\pi^2} \right] + 3 \pi t^2 \left[ \frac{9 \pi (B - 4t) + 56t}{18 \pi} \right]^2$  in  $\text{cm}^4$

Elastic modulus =  $Z_y = \frac{2 I_y}{B}$  in  $\text{cm}^3$

Plastic modulus =  $S_y = t/2 (B - 4t)^2 + t (D - 4t) (B - t) + \frac{t^2}{6} [9 \pi (B - 4t) + 56t]$  in  $\text{cm}^3$

Radius of gyration =  $R_y = \sqrt{\frac{I_y}{A}}$  in cm

NOTE — Letter symbols denoting various dimensions are the same as those used in Tables 1 and 2.

(MTD 19)



# भारत का राजपत्र The Gazette of India

असाधारण

EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ii)

PART II—Section 3—Sub-section (ii)

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

सं. 1589]

नई दिल्ली, बृहस्पतिवार, अप्रैल 26, 2018/वैशाख 6, 1940

No. 1589]

NEW DELHI, THURSDAY, APRIL 26, 2018/VAISAKHA 6, 1940

उपभोक्ता मामले, खाद्य और सार्वजनिक वितरण मंत्रालय

(उपभोक्ता मामले विभाग)

भारतीय मानक ब्यूरो

अधिसूचना

नई दिल्ली, 26 अप्रैल, 2018

का.आ. 1764(अ).—भारतीय मानक ब्यूरो नियम, 1987 के नियम 7 के उपनियम (1) के खंड (ख) के अनुसरण में भारतीय मानक ब्यूरो एतद्द्वारा अधिसूचित करता है कि नीचे अनुसूची में दिये गये मानक(कों) में संशोधन किया गया/किये गये हैं।

अनुसूची

क्रम संख्या	भारतीय मानकों की संख्या, वर्ष एवं शीर्षक	संशोधन की संख्या और तिथि	कॉलम (3) के संशोधन की प्रतिस्थापन तिथि	वह तिथि, जब तक मानक कॉलम (3) में दर्शाई गए संशोधन के बिना लागू रहेगा
(1)	(2)	(3)	(4)	(5)
1.	आई एस 4923 : 2017 खोखले इस्पात के खंड रचनात्मक प्रयोग के लिए विशिष्टि (तीसरा पुनरीक्षण)	संशोधन संख्या 1, मार्च 2018	20 अप्रैल 2018	25 अगस्त 2018

इस भारतीय संशोधनों की प्रतियाँ भारतीय मानक ब्यूरो, मानक भवन, 9, बहादुरशाह जफर मार्ग, नई दिल्ली-110 002 क्षेत्रीय कार्यालयों: नई दिल्ली, कोलकाता, चण्डीगढ़, चेन्नई, मुम्बई, तथा शाखा कार्यालयों : अहमदाबाद, बंगलौर, भोपाल, भुवनेश्वर, कोयम्बतूर, गुवाहाटी, हैदराबाद, जयपुर, नागपुर, पटना, पूणे तथा कोचि में बिक्री हेतु उपलब्ध हैं। भारतीय संशोधनों को <http://www.standardsbis.in> द्वारा इंटरनेट पर खरीदा जा सकता है।

[संदर्भ: पीयूबी/3/4/2018-19]

सी. बी. सिंह, अपर महानिदेशक

**MINISTRY OF CONSUMER AFFAIRS, FOOD AND PUBLIC DISTRIBUTION**

**(Department of Consumer Affairs)**

**(BUREAU OF INDIAN STANDARDS)**

**NOTIFICATION**

New Delhi, the 26th April, 2018

**S.O. 1764(E).**—In pursuance of clause (b) of sub-rule (1) of Rule 7 of the Bureau of Indian Standards Rules, 1987, the Bureau of Indian Standards hereby notifies that amendments to the Indian Standards, particulars of which are given in the Schedule hereto annexed have been issued:

**SCHEDULE**

Sl. No.	No., Year and Title of the Indian Standards	No. and Year of the amendment	Date of Establishment of the Amendment at Column (3)	Date till which the Standard without Amendment as mentioned at Column (3) shall remain in force
(1)	(2)	(3)	(4)	(5)
1.	IS 4923 : 2017 Hollow Steel Sections for Structural Use – Specification (Third Revision)	Amendment No. 1 March 2018	20 Apr. 2018	25 Aug. 2018

Copy of these Amendments are available for sale with the Bureau of Indian Standards, Manak Bhavan, 9, Bahadur Shah Zafar Marg, New Delhi-110002 and Regional Offices: New Delhi, Kolkata, Chandigarh, Chennai, Mumbai and also Branch Offices: Ahmedabad, Bangalore, Bhopal, Bhubaneswar, Coimbatore, Guwahati, Hyderabad, Jaipur, Nagpur, Patna, Pune, Kochi. Online purchase of Indian Amendments can be made at <http://www.standardbis.in>.

[Ref: PUB/3/4/2018-19]

C. B. SINGH, Addl. Director General

RAKESH  
SUKUL

Digitally signed by  
RAKESH SUKUL  
Date: 2018.04.28  
16:52:46 +05'30'