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भारतीय मानक
टी और पट्टा कब्जे — विशिष्टि
(पांचवाँ पुनरीक्षण)

Indian Standard

TEE AND STRAP HINGES — SPECIFICATION
(*Fifth Revision*)

ICS 77.140.20; 91.190

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BUREAU OF INDIAN STANDARDS
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Price Group 5

Builder's Hardware Sectional Committee, CED 15

FOREWORD

This Indian Standard (Fifth Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Builder's Hardware Sectional Committee had been approved by the Civil Engineering Division Council.

Tee hinges are used in garden or big wooden plank doors, whereas strap hinges are used in boxes to strengthen their corners, in addition to big wooden gate doors. This standard was first published in 1950 and subsequently revised in 1962, 1973, 1981 and 1992.

The present revision is being issued in light of the comments received during use of the standard. In this revision the following modifications have been incorporated:

- a) Additional types of hinges introduced for both tee and strap hinges, thereby enlarging the scope of the standard,
- b) Dimensional requirements have been modified, and
- c) General up-dating in respect of applicable material standards.

This standard contains provision (*see 7*) which permit the purchaser to use his option for selection to suit his requirements.

The composition of the Committee responsible for the formulation of this standard is given in Annex B.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

TEE AND STRAP HINGES — SPECIFICATION

(Fifth Revision)

1 SCOPE

This standard lays down requirements for mild steel tee and strap hinges that are commonly used in general building construction.

2 REFERENCES

The standards listed below contain provisions which through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

<i>IS No.</i>	<i>Title</i>
280 : 2006	Mild steel wire for general engineering purposes (<i>fourth revision</i>)
1079 : 1994	Hot rolled carbon steel sheets and strips – Specification (<i>fifth revision</i>)
6760 : 1972	Specification for slotted countersunk head wood screws

3 TYPES

3.1 Tee hinges shall be of the following types:

<i>Type</i>	<i>Designation</i>	<i>Ref to Table</i>	<i>Ref to Fig.</i>
1	Light weight (Type 1)	2	1
2	Light weight (Type 2)	3	1
3	Medium weight (Type 1)	4	1
4	Medium weight (Type 2)	5	1
5	Heavy weight (Type 1)	6	1
6	Heavy weight (Type 2)	7	1
7	Heavy weight (Type 3)	8	1

3.2 Strap hinges shall be of the following types:

<i>Type</i>	<i>Designation</i>	<i>Ref to Table</i>	<i>Ref to Fig.</i>
1	Light weight	9	2
2	Medium weight (Type 1)	10	2
3	Medium weight (Type 2)	11	2
4	Heavy weight	12	2

4 MATERIAL

Material used for manufacture of tee and strap hinges shall comply with the requirements given in Table 1.

Table 1 Requirements of Materials for Tee and Strap Hinges

<i>Sl No.</i>	<i>Material</i>	<i>Suitable Grade in Indian Standard</i>
(1)	(2)	(3)
i)	Mild steel sheet	Grade 0 of IS 1079
ii)	Mild steel wire	Min ¼ H of IS 280

5 DIMENSIONS AND TOLERANCES

5.1 The leading dimensions of the various types of tee and strap hinges and tolerances thereon shall conform to those given in Tables 2 to 12 read with Fig. 1 and Fig. 2

5.1.1 The size of the hinges shall be designated by the dimension *A* (*see* Fig. 1 and Fig. 2).

6 WORKMANSHIP

Hinges shall be well made, free from burrs, flaws and defects of any kind. The movement shall be square, and the working shall be free and easy, without any play or shake. The hole for the hinge pin shall be central to the boss; firm and riveted over, so that the heads are well formed. All screw holes shall be clean and countersunk and shall be suitable for countersunk head wood screws (*see* IS 6760) of the numbers specified in Tables 2 to 12 for different types and sizes of hinges.

7 FINISH

Tee and strap hinges shall be either bright finished or stove enameled black, as specified by the purchaser.

8 PACKING

8.1 Hinges shall be packed in cardboard boxes or in any other approved packing in the following quantities:

Size up to and including 125 mm	: 20 pieces in each package
Sizes 150 mm and above	: 10 pieces in each package

NOTE — Hinges may be packed in multiples of six, if required by the purchaser.

IS 206 : 2010

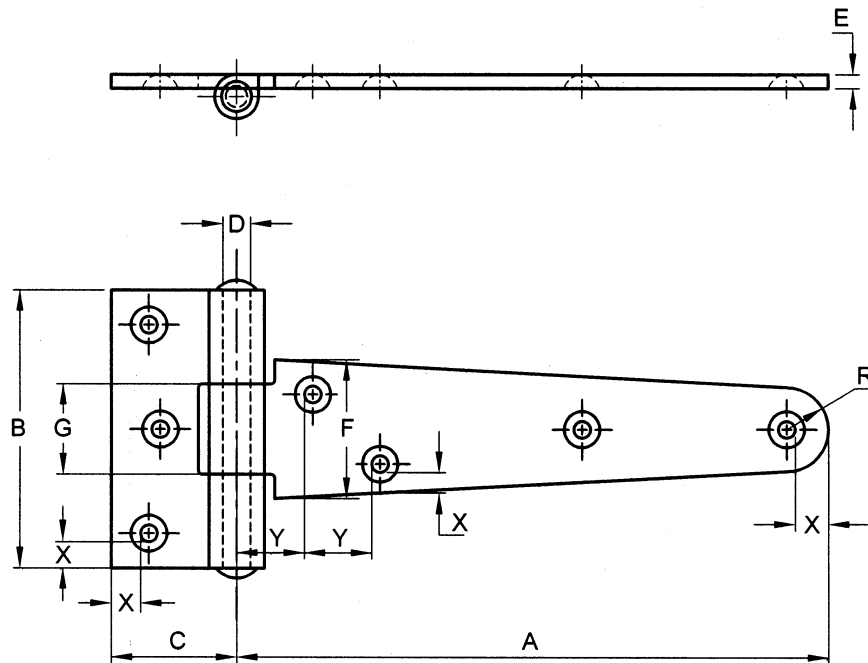


FIG. 1 TYPICAL MILD STEEL TEE HINGES

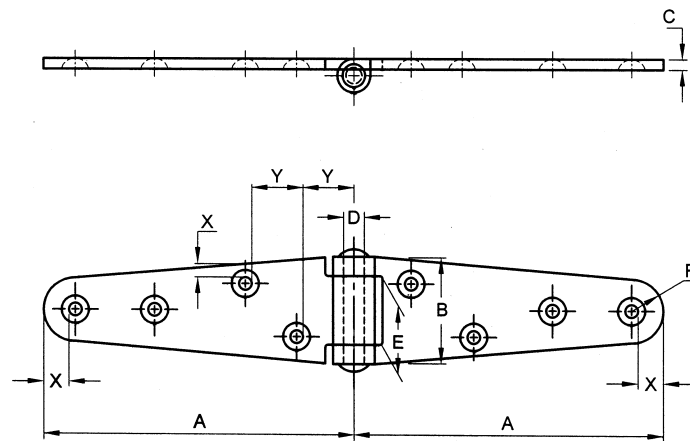


FIG. 2 MILD STEEL STRAP HINGES

8.2 Each package shall be labelled showing the following particulars:

- Type of hinge,
- Size of hinge,
- Quantity of hinges, and
- Name of the manufacturer or trade-mark.

9 SAMPLING AND CRITERION FOR CONFORMITY

The scale of sampling and criterion for conformity of tee and strap hinges shall be as given in Annex A.

10 MARKING

10.1 Each Tee and strap hinge shall be marked with the following:

- Manufacturers name or his trade-mark,
- Type of hinge, and
- Size of hinge.

10.2 BIS Certification Marking

The hinges may also be marked with the Standard Mark.

10.2.1 The use of the Standard Mark is governed by the provisions of the *Bureau of Indian Standards Act, 1986* and the Rules and Regulations made thereunder. The details of conditions under which the license for the use of the Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

Table 2 Dimensions of Light Weight Tee Hinges (Type 1)
(Clauses 5.1 and 6)

Sl No.	Size	Dimensions mm								Size Designation of Countersunk Head Wood Screws (11)	Number of Holes in Strap (12)	Number of Holes in Tee (13)	X mm Min (14)	Y mm Min (15)
		A (3)	B (4)	C (5)	D (6)	E (7)	F (8)	G (9)	R (10)					
i)	75	75 ± 2	60 ± 1	20 ± 1.5	2.80 ± 0.05	1.60 ± 0.10	25 ± 2	20 ± 1	5 ± 1	6	3	3	4	10
ii)	100	100 ± 2	65 ± 1	20 ± 1.5	3.15 ± 0.05	1.60 ± 0.10	30 ± 2	25 ± 1	6 ± 1	6	3	3	4	10
iii)	125	125 ± 2	65 ± 1	20 ± 1.5	3.15 ± 0.05	1.60 ± 0.10	30 ± 2	25 ± 1	6 ± 1	6	5	3	4	10
iv)	150	150 ± 2	65 ± 1	20 ± 1.5	3.15 ± 0.05	1.60 ± 0.10	30 ± 2	25 ± 1	6 ± 1	6	5	3	4	10
v)	200	200 ± 2	70 ± 1	25 ± 1.5	4.00 ± 0.05	1.60 ± 0.10	30 ± 2	25 ± 1	8 ± 1	8	5	3	5	10
vi)	250	250 ± 2	80 ± 1	30 ± 1.5	4.00 ± 0.05	2.00 ± 0.10	35 ± 2	30 ± 1	8 ± 1	8	6	3	6	15
vii)	300	300 ± 2	100 ± 1	30 ± 1.5	5.00 ± 0.05	2.00 ± 0.10	40 ± 2	35 ± 1	8 ± 1	8	6	3	8	20
viii)	350	350 ± 2	105 ± 1	35 ± 1.5	5.00 ± 0.05	2.00 ± 0.10	50 ± 2	45 ± 1	9 ± 1	9	7	4	8	20
ix)	400	400 ± 2	120 ± 1	35 ± 1.5	5.60 ± 0.06	2.24 ± 0.10	50 ± 2	45 ± 1	9 ± 1	9	7	4	8	25

NOTES

1 In straight cut light weight tee hinges dimension *F* shall be followed through.

2 Dimensions *R*, *X* and *Y* are for reference only and can be modified to suit requirement of the purchaser.

Table 3 Dimensions of Light Weight Tee Hinges (Type 2)
(Clauses 5.1 and 6)

Sl No.	Size	Dimensions mm								Size Designation of Countersunk Head Wood Screws (11)	Number of Holes in Strap (12)	Number of Holes in Tee (13)	X mm Min (14)	Y mm Min (15)
		A (3)	B (4)	C (5)	D (6)	E (7)	F (8)	G (9)	R (10)					
i)	100	100 ± 2	65 ± 1	18 ± 1.5	4.0 ± 0.05	1.2 ± 0.10	25 ± 2	24 ± 1	6 ± 1	6	3	3	4	10
ii)	150	150 ± 2	70 ± 1	20 ± 1.5	4.0 ± 0.05	1.4 ± 0.10	35 ± 2	24 ± 1	6 ± 1	6	3	4	5	10
iii)	200	200 ± 2	80 ± 1	25 ± 1.5	4.5 ± 0.05	1.4 ± 0.10	35 ± 2	28 ± 1	8 ± 1	6	3	4	5	10
iv)	250	250 ± 2	80 ± 1	25 ± 1.5	4.5 ± 0.05	1.4 ± 0.10	35 ± 2	28 ± 1	8 ± 1	6	3	4	6	15
v)	300	300 ± 2	100 ± 1	25 ± 1.5	5.6 ± 0.05	1.6 ± 0.10	45 ± 2	35 ± 1	8 ± 1	6	3	4	8	20

NOTES

1 In straight cut light weight tee hinges dimension *F* shall be followed through.

2 Dimensions *R*, *X* and *Y* are for reference only and can be modified to suit requirement of the purchaser.

Table 4 Dimensions of Medium Weight Tee Hinges (Type 1)
(Clauses 5.1 and 6)

Sl No.	Size	Dimensions mm								Size Designation of Countersunk Head Wood Screws	Number of Holes in Strap	Number of Holes in Tee	X mm	Y mm
		A	B	C	D	E	F	G	R					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	Min (14)	Min (15)
i)	75	75 ± 2	65 ± 1	20 ± 1.5	3.15 ± 0.05	1.60 ± 0.10	25 ± 2	20 ± 1	5 ± 1	6	3	3	4	10
ii)	100	100 ± 2	70 ± 1	20 ± 1.5	3.15 ± 0.05	1.60 ± 0.10	30 ± 2	25 ± 1	6 ± 1	6	3	3	4	10
iii)	125	125 ± 2	75 ± 1	25 ± 1.5	4.00 ± 0.05	1.60 ± 0.10	35 ± 2	30 ± 1	6 ± 1	8	4	3	4	10
iv)	150	150 ± 2	75 ± 1	25 ± 1.5	4.00 ± 0.05	1.60 ± 0.10	40 ± 2	35 ± 1	6 ± 1	8	4	3	4	10
v)	200	200 ± 2	90 ± 1	25 ± 1.5	5.00 ± 0.05	2.00 ± 0.10	45 ± 2	40 ± 1	8 ± 1	8	4	3	5	10
vi)	250	250 ± 3	100 ± 1	30 ± 1.5	5.60 ± 0.06	2.24 ± 0.10	45 ± 2	40 ± 1	8 ± 1	9	5	3	6	15
vii)	300	300 ± 3	115 ± 1	30 ± 1.5	6.30 ± 0.06	2.24 ± 0.10	50 ± 2	45 ± 1	8 ± 1	9	5	3	8	20
viii)	350	350 ± 3	120 ± 1	35 ± 1.5	6.30 ± 0.06	2.50 ± 0.10	55 ± 2	50 ± 1	8 ± 1	10	7	4	8	20
ix)	400	400 ± 3	135 ± 1	35 ± 1.5	6.30 ± 0.06	2.50 ± 0.10	60 ± 2	55 ± 1	8 ± 1	10	7	4	8	20
x)	450	450 ± 3	140 ± 1	45 ± 1.5	8.00 ± 0.06	2.50 ± 0.10	60 ± 2	55 ± 1	9 ± 1	12	7	4	10	25
xi)	500	500 ± 3	150 ± 1	50 ± 1.5	10.00 ± 0.06	3.15 ± 0.10	65 ± 2	60 ± 1	9 ± 1	12	8	4	10	25

NOTES

1 In straight cut medium weight tee hinges dimension *F* shall be followed through.

2 Dimensions *R*, *X* and *Y* are for reference only and can be modified to suit requirement of the purchaser.

Table 5 Dimensions of Medium Weight Tee Hinges (Type 2)
(Clauses 5.1 and 6)

Sl No.	Size	Dimensions mm								Size Designation of Countersunk Head Wood Screws	Number of Holes in Strap	Number of Holes in Tee	X mm	Y mm
		A	B	C	D	E	F	G	R					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	Min (14)	Min (15)
i)	100	100 ± 2	65 ± 1	20 ± 1.5	4.0 ± 0.05	1.50 ± 0.10	30 ± 2	25 ± 1	6 ± 1	8	3	3	4	10
ii)	125	125 ± 2	75 ± 1	25 ± 1.5	4.5 ± 0.05	1.60 ± 0.10	35 ± 2	29 ± 1	8 ± 1	8	3	3	4	10
iii)	150	150 ± 2	75 ± 1	25 ± 1.5	4.5 ± 0.05	1.60 ± 0.10	35 ± 2	30 ± 1	8 ± 1	8	3	3	4	10
iv)	200	200 ± 2	80 ± 1	25 ± 1.5	5.6 ± 0.06	1.70 ± 0.10	40 ± 2	35 ± 1	9 ± 1	8	3	4	6	15
v)	250	250 ± 3	90 ± 1	25 ± 1.5	5.6 ± 0.06	1.70 ± 0.10	45 ± 2	35 ± 1	9 ± 1	8	3	4	6	15
vi)	300	300 ± 3	100 ± 1	30 ± 1.5	5.6 ± 0.06	1.70 ± 0.10	50 ± 2	40 ± 1	9 ± 1	8	3	4	8	20
vii)	350	350 ± 3	115 ± 1	30 ± 1.5	6.3 ± 0.06	1.70 ± 0.10	55 ± 2	48 ± 1	10 ± 1	8	4	4	8	20
viii)	380	380 ± 3	115 ± 1	30 ± 1.5	6.3 ± 0.06	1.80 ± 0.10	55 ± 2	48 ± 1	10 ± 1	8	4	5	8	20
ix)	400	400 ± 3	125 ± 1	35 ± 1.5	7.0 ± 0.06	2.20 ± 0.10	55 ± 2	48 ± 1	10 ± 1	10	4	5	8	25
x)	450	450 ± 3	130 ± 1	35 ± 1.5	8.0 ± 0.06	2.20 ± 0.10	55 ± 2	48 ± 1	12 ± 1	10	4	5	10	25
xi)	500	500 ± 3	150 ± 1	50 ± 1.5	10.0 ± 0.06	2.30 ± 0.10	60 ± 2	60 ± 1	12 ± 1	12	4	6	10	25
xii)	600	600 ± 3	150 ± 1	50 ± 1.5	10.0 ± 0.06	2.30 ± 0.10	70 ± 2	60 ± 1	12 ± 1	12	4	6	10	25

NOTES

1 In straight cut medium weight tee hinges dimension *F* shall be followed through.

2 Dimension *R*, *X* and *Y* are for reference only and can be modified to suit requirement of the purchaser.

Table 6 Dimensions of Heavy Weight Tee Hinges (Type 1)
(Clauses 5.1 and 6)

Sl No.	Size	Dimensions mm								Size Designation of Countersunk Head Wood Screws (11)	Number of Holes in Strap (12)	Number of Holes in Tee (13)	X mm Min (14)	Y mm Min (15)
		A	B	C	D	E	F	G	R					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)					
i)	150	150 ± 2	100 ± 1	30 ± 2	8 ± 0.06	3.15 ± 0.10	50 ± 2	40 ± 1	8 ± 1	10	4	3	6	10
ii)	200	200 ± 2	115 ± 1	40 ± 2	10 ± 0.06	3.15 ± 0.10	55 ± 2	45 ± 1	8 ± 1	10	4	3	6	10
iii)	250	250 ± 2	115 ± 1	40 ± 2	10 ± 0.06	3.15 ± 0.10	60 ± 2	50 ± 1	8 ± 1	10	4	4	8	20
iv)	300	300 ± 2	125 ± 1	45 ± 2	10 ± 0.06	3.15 ± 0.10	60 ± 2	50 ± 1	9 ± 1	10	6	4	8	20
v)	350	350 ± 4	125 ± 1	45 ± 2	10 ± 0.06	3.15 ± 0.10	60 ± 2	50 ± 1	9 ± 1	10	6	4	8	20
vi)	400	400 ± 4	135 ± 1	50 ± 2	12 ± 0.06	4.15 ± 0.10	65 ± 2	55 ± 1	9 ± 1	12	7	4	8	20
vii)	450	450 ± 4	135 ± 1	50 ± 2	12 ± 0.06	4.15 ± 0.10	65 ± 2	55 ± 1	10 ± 1	12	7	4	10	25
viii)	500	500 ± 4	150 ± 1	65 ± 2	12 ± 0.06	5.00 ± 0.10	70 ± 2	60 ± 1	10 ± 1	14	8	4	10	25
ix)	600	600 ± 4	165 ± 1	70 ± 2	12 ± 0.06	5.00 ± 0.10	75 ± 2	65 ± 1	10 ± 1	14	8	4	10	25

NOTES

1 In straight cut heavy weight tee hinges dimension *F* shall be followed through.

2 Dimensions *R*, *X* and *Y* are for reference only and can be modified to suit requirement of the purchaser.

Table 7 Dimensions of Heavy Weight Tee Hinges (Type 2)
(Clauses 5.1 and 6)

Sl No.	Size	Dimensions mm								Size Designation of Countersunk Head Wood Screws (11)	Number of Holes in Strap (12)	Number of Holes in Tee (13)	X mm Min (14)	Y mm Min (15)
		A	B	C	D	E	F	G	R					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)					
i)	100	100 ± 2	90 ± 1	30 ± 1.5	7 ± 0.06	2.24 ± 0.10	50 ± 2	44 ± 1	8 ± 1	9	3	3	6	10
ii)	150	150 ± 2	90 ± 1	30 ± 1.5	7 ± 0.06	2.24 ± 0.10	50 ± 2	44 ± 1	8 ± 1	9	3	3	6	10
iii)	200	200 ± 2	100 ± 1	35 ± 1.5	7 ± 0.06	2.24 ± 0.10	50 ± 2	44 ± 1	8 ± 1	9	3	4	6	10
iv)	250	250 ± 2	100 ± 1	38 ± 1.5	7 ± 0.06	2.24 ± 0.10	50 ± 2	44 ± 1	8 ± 1	10	3	4	8	20
v)	300	300 ± 2	100 ± 1	38 ± 1.5	7 ± 0.06	2.24 ± 0.10	50 ± 2	44 ± 1	9 ± 1	10	4	5	8	20
vi)	350	350 ± 4	100 ± 1	38 ± 1.5	7 ± 0.06	2.24 ± 0.10	55 ± 2	44 ± 1	9 ± 1	10	4	5	8	20

NOTES

1 In straight cut heavy weight tee hinges dimension *F* shall be followed through.

2 Dimensions *R*, *X* and *Y* are for reference only and can be modified to suit requirement of the purchaser.

Table 8 Dimensions of Heavy Weight Tee Hinges (Type 3)
(Clauses 5.1 and 6)

Sl No.	Size	Dimensions mm								Size Designation of Countersunk Head Wood Screws (11)	Number of in Holes Strap (12)	Number of Holes in Tee (13)	X mm Min (14)	Y mm Min (15)
		A (3)	B (4)	C (5)	D (6)	E (7)	F (8)	G (9)	R (10)					
i)	350	350 ± 4	145 ± 1	48 ± 2	10 ± 0.08	3.15 ± 0.10	75 ± 2	68 ± 1	10 ± 1	14	4	5	8	20
ii)	400	400 ± 4	160 ± 1	48 ± 2	10 ± 0.08	3.15 ± 0.10	75 ± 2	68 ± 1	12 ± 1	14	4	5	8	20
iii)	450	450 ± 4	175 ± 1	48 ± 2	10 ± 0.08	3.15 ± 0.10	85 ± 2	78 ± 1	12 ± 1	14	4	5	10	25

NOTES

1 In straight cut heavy weight tee hinges dimension *F* shall be followed through.

2 Dimensions *R*, *X* and *Y* are for reference only and can be modified to suit requirement of the purchaser.

Table 9 Dimensions of Light Weight Strap Hinges
(Clauses 5.1 and 6)

Sl No.	Size	Dimensions mm						Size Designation of Countersunk Head Wood Screws (9)	Number of Holes in Strap (10)	X mm Min (11)	Y mm Min (12)
		A (3)	B (4)	C (5)	D (6)	E (7)	R (8)				
i)	75	75 ± 2	25 ± 1	1.60 ± 0.10	2.80 ± 0.05	10 ± 1	5 ± 1	6	3	4	10
ii)	100	100 ± 2	30 ± 1	1.60 ± 0.10	3.15 ± 0.05	15 ± 1	6 ± 1	6	3	4	10
iii)	125	125 ± 2	30 ± 1	1.60 ± 0.10	3.15 ± 0.05	15 ± 1	6 ± 1	6	4	4	10
iv)	150	150 ± 2	30 ± 1	1.60 ± 0.10	3.15 ± 0.05	15 ± 1	6 ± 1	6	4	4	10
v)	200	200 ± 2	30 ± 1	1.60 ± 0.10	4.00 ± 0.05	15 ± 1	8 ± 1	8	4	6	20
vi)	250	250 ± 2	35 ± 1	2.00 ± 0.10	4.00 ± 0.05	15 ± 1	8 ± 1	8	5	6	20
vii)	300	300 ± 2	40 ± 1	2.00 ± 0.10	5.00 ± 0.05	20 ± 1	8 ± 1	8	5	6	25
viii)	350	350 ± 2	50 ± 1	2.00 ± 0.10	5.00 ± 0.05	25 ± 1	8 ± 1	9	7	8	25
ix)	400	400 ± 2	50 ± 1	2.24 ± 0.10	5.00 ± 0.05	25 ± 1	8 ± 1	9	7	8	25

Table 10 Dimensions of Medium Weight Strap Hinges (Type 1)
(Clauses 5.1 and 6)

Sl No.	Size	Dimensions mm						Size Designation of Countersunk Head Wood Screws (9)	Number of Holes in Strap (10)	X mm Min (11)	Y mm Min (12)
		A (3)	B (4)	C (5)	D (6)	E (7)	R (8)				
i)	75	75 ± 2	25 ± 1	1.60 ± 0.10	3.15 ± 0.05	10 ± 1	5 ± 1	6	3	4	10
ii)	100	100 ± 2	30 ± 1	1.60 ± 0.10	3.15 ± 0.05	15 ± 1	6 ± 1	6	3	4	10
iii)	125	125 ± 2	35 ± 1	1.60 ± 0.10	4.00 ± 0.05	15 ± 1	6 ± 1	8	4	4	10
iv)	150	150 ± 2	40 ± 1	1.60 ± 0.10	4.00 ± 0.05	20 ± 1	6 ± 1	8	4	4	10
v)	200	200 ± 2	45 ± 1	2.00 ± 0.10	5.00 ± 0.05	20 ± 1	8 ± 1	8	4	6	20
vi)	250	250 ± 2	45 ± 1	2.24 ± 0.10	5.60 ± 0.05	20 ± 1	8 ± 1	9	5	6	20
vii)	300	300 ± 2	50 ± 1	2.24 ± 0.10	6.30 ± 0.05	25 ± 1	8 ± 1	9	5	6	20
viii)	350	350 ± 2	55 ± 1	2.50 ± 0.10	6.30 ± 0.05	25 ± 1	8 ± 1	10	7	8	25
ix)	400	400 ± 2	60 ± 1	2.50 ± 0.10	6.30 ± 0.05	30 ± 1	8 ± 1	10	7	8	25
x)	450	450 ± 2	60 ± 1	2.50 ± 0.10	8.00 ± 0.05	30 ± 1	9 ± 1	12	7	8	25
xi)	500	500 ± 2	65 ± 1	3.15 ± 0.10	10.00 ± 0.05	30 ± 1	9 ± 1	12	8	10	30

Table 11 Dimensions of Medium Weight Strap Hinges (Type 2)
(Clauses 5.1 and 6)

Sl No.	Size	Dimensions mm						Size Designation of Countersunk Head Wood Screws (9)	Number of Holes in Strap (10)	X mm Min (11)	Y mm Min (12)
		A (3)	B (4)	C (5)	D (6)	E (7)	R (8)				
i)	100	100 ± 2	35 ± 1	1.6 ± 0.10	4.50 ± 0.05	15 ± 1.0	6 ± 1	6	3	4	10
ii)	150	150 ± 2	45 ± 1	1.9 ± 0.10	6.30 ± 0.06	20 ± 1.0	8 ± 1	8	4	4	10
iii)	200	200 ± 2	45 ± 1	2.0 ± 0.10	6.30 ± 0.06	20 ± 1.0	8 ± 1	8	4	6	20
iv)	250	250 ± 2	55 ± 1	2.5 ± 0.10	6.30 ± 0.06	30 ± 1.0	12 ± 1	10	5	6	20
v)	300	300 ± 2	65 ± 1	2.8 ± 0.10	8.00 ± 0.06	30 ± 1.0	12 ± 1	10	5	6	20

Table 12 Dimensions of Heavy Weight Strap Hinges
(Clauses 5.1 and 6)

Sl No.	Size	Dimensions mm						Size Designation of Countersunk Head Wood Screws	Number of Holes in Strap	X mm Min	Y mm Min
		A	B	C	D	E	R				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
i)	150	150 ± 2	50 ± 1	3.15 ± 0.10	8 ± 0.06	25 ± 1	8 ± 1	10	4	6	20
ii)	200	200 ± 2	55 ± 1	3.15 ± 0.10	10 ± 0.06	25 ± 1	8 ± 1	10	4	8	20
iii)	250	250 ± 2	60 ± 1	3.15 ± 0.10	10 ± 0.06	30 ± 1	8 ± 1	10	5	8	20
iv)	300	300 ± 2	60 ± 1	3.15 ± 0.10	10 ± 0.06	30 ± 1	9 ± 1	10	6	8	20
v)	350	350 ± 2	60 ± 1	3.15 ± 0.10	10 ± 0.06	30 ± 1	9 ± 1	10	6	10	25
vi)	400	400 ± 2	65 ± 1	4.00 ± 0.10	12 ± 0.06	30 ± 1	9 ± 1	12	7	10	25
vii)	450	450 ± 2	65 ± 1	4.00 ± 0.10	12 ± 0.06	30 ± 1	10 ± 1	12	7	10	25
viii)	500	500 ± 2	70 ± 1	5.00 ± 0.10	12 ± 0.06	35 ± 1	10 ± 1	14	8	10	25
ix)	600	600 ± 2	75 ± 1	5.00 ± 0.10	12 ± 0.06	35 ± 1	10 ± 1	14	8	10	25

IS 206 : 2010

ANNEX A (Clause 9)

SAMPLING AND CRITERION FOR CONFORMITY

A-1 LOT

In a consignment, all hinges (tee and strap) of the same type and size and manufactured from similar materials under identical conditions of manufacture at the same time shall be grouped together to constitute a lot.

A-2 LOT SIZE AND SAMPLE SIZE

A-2.1 Lot Size

The number of hinges to be selected from a lot shall depend on the size of the lot and shall be in accordance with col 2 and 3 of Table 13.

A-2.2 Sample Size

Hinges for testing shall be selected at random from at least 10 percent of the packages subject to a minimum of three packages, equal number of hinges being selected from each such package.

A-3 TESTS

All hinges selected as in A-2.1 shall be checked for dimensional requirements (*see 5*), defects in

manufacture (*see 6*) and finish (*see 7*). Any hinge which fails to satisfy the requirements of any one or more of the characteristics shall be considered as defective hinge.

A-4 CRITERION FOR CONFORMITY

A lot shall be considered as conforming to the requirements of this standard if the number of defective hinges, among those tested, does not exceed the corresponding number given in col 4 of Table 13.

Table 13 Scale of Sampling and Criterion for Conformity
(Clauses A-2 and A-4)

Sl No. (1)	Lot Size (2)	Sample Size (3)	Permissible Number of Defective Hinges (4)
i)	Up to 200	15	0
ii)	201–300	20	1
iii)	301–500	30	2
iv)	501–800	40	2
v)	801 and above	55	3

ANNEX B (Foreword)

COMMITTEE COMPOSITION

Builder's Hardware Sectional Committee, CED 15

Organization
1421, Sector A, Pocket B & C, Vasant Kunj, New Delhi 110070
Allied Anodisers, Kolkata
Appex Association of DDA Colonies (REGD), Delhi
Argent Industries, New Delhi
Builders Association of India, Jamshedpur
Building Materials & Technology Promotion Council, New Delhi
Central Building Research Institute, Roorkee

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SHRI SUSHIL TAWAR
SHRI R. P. AGRAWAL
SHRI R. R. SHARMA (*Alternate*)
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SHRIMATI VANITA CHADHA (*Alternate*)
SHRI RAJ PAL AURORA
SHRI H. S. PASRICHA (*Alternate*)
SHRI B. ANIL KUMAR
SHRI V. K. SETHI (*Alternate*)
SHRI D. K. GAUTAM
SHRI S. K. NEGI (*Alternate*)

IS 206 : 2010

<i>Organization</i>	<i>Representative(s)</i>
Central Public Works Department, New Delhi	SHRI SURESH KUMAR SHRI MAYANK K. TILAK (<i>Alternate</i>)
Construction Industries Development Council, New Delhi	SHRI P. R. SWARUP SHRI RAJEEV JAIN (<i>Alternate</i>)
D. P. Garg & Company, Noida	SHRI S. M. GARG SHRI R. C. MALHOTRA (<i>Alternate</i>)
Delhi Development Authority, New Delhi	CHIEF ENGINEER (NZ) SUPERINTENDING ENGINEER (P) NZ (<i>Alternate</i>)
Engineer-in-Chief's Branch, New Delhi	SHRI S. K. GUPTA SHRI P. MAKHIJANI (<i>Alternate</i>)
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Indian Institute of Architects, New Delhi	DR ABHIJIT RAY
M.C. Mowjee & Co Pvt Limited, Kolkata	SHRI SAJID MOWJEE
MECH (India) Industries, Delhi	SHRI SUDHIR BATRA SHRI RAJESH VASUDEVA (<i>Alternate</i>)
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BIS Directorate General	SHRI A. K. SAINI, Scientist 'F' and Head (CED) [Representing Director General (<i>Ex-officio</i>)]

Member Secretary
SHRI J. ROY CHOWDHURY
Scientist 'E' (CED), BIS

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