

IS : 1200 (Part 14) - 1984

(Reaffirmed 1994)

Indian Standard

METHOD OF MEASUREMENT OF BUILDING
AND CIVIL ENGINEERING WORKS

PART 14 GLAZING

(*Third Revision*)

Second Reprint AUGUST 1997

UDC 69.003.12:698.3

© *Copyright* 1985

BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

*Indian Standard***METHOD OF MEASUREMENT OF BUILDING
AND CIVIL ENGINEERING WORKS****PART 14 GLAZING***(Third Revision)*

Method of Measurement of Works of Civil Engineering
(Excluding River Valley Projects), BDC 44

*Chairman**Representing*

SHRI A. C. PANCHDHARI

Central Vigilance Commission, New Delhi

Members

- ADHISHASI ABAYANTA (PARSHIKSAN) Public Works Department, Lucknow
DEPUTY DIRECTOR (GAWESHAN) (*Alternate*)
- SHRI B. G. AHUJA Builders Association of India, Bombay
- SHRI K. D. ARCOT Engineers India Limited, New Delhi
- SHRI T. V. SITARAM (*Alternate*)
- SHRI N. K. AROZA Bhakra Management Board, Nangal Township,
Chadigarh
- SHRI R. M. JOLLY (*Alternate*)
- SHRI G. B. BAJAJ Bombay Port Trust, Bombay
- SHRI P. BANERJEE Ministry of Shipping and Transport (Roads
Wing)
- SHRI R. G. THAWANI (*Alternate*)
- SHRI G. K. DESHPANDE Public Works Department, Bombay
- DIRECTOR (IRI) Irrigation Department, Government of Uttar
Pradesh, Lucknow
- DIRECTOR (RATES AND COSTS) Central Water Commission, New Delhi
- DEPUTY DIRECTOR (RATES
AND COSTS) (*Alternate*)
- SHRI P. N. GADI Institution of Surveyors, New Delhi
- SHRI D. S. TAMBANKAR (*Alternate*)
- SHRI P. S. HARI RAO Hindustan Construction Company Limited,
Bombay
- SHRI N. M. DASTANE (*Alternate*)
- SHRI G. B. JAHAGIRDAR The National Industrial Development Corpora-
tion Limited, New Delhi

(*Continued on page 2*)

© Copyright 1985

BUREAU OF INDIAN STANDARDS

This publication is protected under the *Indian Copyright Act* (XIV of 1957) and reproduction in whole or in part by any means except with written permission of the publisher shall be deemed to be an infringement of copyright under the said Act.

(Continued from page 1)

Members

JOINT DIRECTOR (D)
SHRI A. K. LAL (*Alternate*)
SHRI ASHIT RANJAN KAR
SHRI S. K. LAHA
SHRI K. K. MADHOK

SHRI R. K. BAHL (*Alternate*)
SHRI DATTA S. MALIK
PROF M. K. GODBOLE (*Alternate*)
SHRI R. S. MURTHY
SHRI H. D. MATANGE (*Alternate*)
SHRI C. B. PATEL

SHRI B. C. PATEL (*Alternate*)
SHRI K. A. PATNAIK
SHRI V. G. PATWARDHAN
SHRI C. G. KARMARKAR (*Alternate*)
DR R. B. SINGH
SHRI R. A. SUBRAMANIAM

SUPERINTENDING SURVEYOR OF
WORKS (AVIATION)
SURVEYOR OF WORKS I
(AVIATION) (*Alternate*)
SHRI G. RAMAN,
Director (Civ Engg)

Representing

National Buildings Organization, New Delhi

Calcutta Port Trust, Calcutta
Institution of Engineers (India), Calcutta
MES Builders Association of India (Regd).
New Delhi

Indian Institute of Architects, Bombay

Gammon India Limited, Bombay

M. N. Dastur and Company Private Limited,
Calcutta

Bureau of Public Enterprises, New Delhi
Ministry of Defence

Banaras Hindu University, Banaras
Hindustan Steel Works Construction Limited,
Calcutta

Central Public Works Department, New Delhi

Director General, ISI (*Ex-officio Member*)

Secretary

SHRI K. M. MATHUR
Senior Deputy Director (Civ Engg),

Indian Standard

METHOD OF MEASUREMENT OF BUILDING AND CIVIL ENGINEERING WORKS

PART 14 GLAZING

(Third Revision)

0. FOREWORD

0.1 This Indian Standard (Part 14) (Third Revision) was adopted by the Indian Standards Institution on 12 December 1984, after the draft finalized by the Method of Measurement of Works of Civil Engineering (Excluding River Valley Projects) Sectional Committee had been approved by the Civil Engineering Division Council.

0.2 Measurement occupies a very important place in the planning and execution of any civil engineering work from the time of first estimates to the final completion and settlement of payments of the project. The methods followed for the measurement are not uniform, and considerable differences exist between the practices followed by one construction agency and another and also between various Central and State Government departments. While it is recognized that each system of measurement has to be specifically related to the administrative and financial organizations within the department responsible for the work, a unification of the various systems at the technical level has been accepted as very desirable, specially as it permits a wider circle of operation for civil engineering contractors and eliminate ambiguities and misunderstandings arising out of inadequate understanding of the various systems followed.

0.3 Among the various civil engineering items, measurement of building had been the first to be taken up for standardization and a consolidated standard (IS : 1200), having provisions relating to building works, was first published in 1958 and subsequently revised in 1964 and 1970.

0.4 In the course of usage of this standard by various construction agencies in the country, several clarifications and suggestions for modifications were received and as a result of study, the Sectional Committee responsible for the preparation of this standard decided that its scope, besides being applicable to building, should be expanded so as also to cover the method of measurement applicable to civil engineering works, such as industrial and river valley project works.

0.5 Since measurement of one type of trade is not related to that of another one, and also to facilitate the second revision of IS : 1200 - 1964*, the Sectional Committee decided that each type of trade as given in IS: 1200-1964* be issued separately as different parts. This will also be helpful to the specific users in various trades in using the standard.

0.5.1 This part 14 covering glazing was, therefore, issued as a separate standard for the first time in 1970 and has now been revised in order to keep the provisions in line with the latest practice.

0.6 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 measurement, shall be rounded off in accordance with IS : 2-1960†. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard (Part 14) covers the method of measurement of glazing in buildings and civil engineering works.

2. GENERAL RULES

2.1 Clubbing of Items — Items may be clubbed together provided these are on the basis of the detailed description of items stated in this standard.

2.2 Booking of Dimensions — In booking dimensions, the order shall be consistent and generally in the sequence of length, breadth or width and height or depth of thickness.

2.3 Description of Items — The description of each item shall, unless stated otherwise, be held to include, where necessary, conveyance and delivery, handling, loading, unloading, storing and waste.

2.4 Measurements — All works shall be measured net in decimal system, as fixed in its place as given in **2.4.1** and **2.4.2**.

2.4.1 Dimensions shall be measured to the nearest 0.01 m.

2.4.2 Areas shall be worked out to the nearest 0.01 m².

2.5 Bills of Quantities — The bills of quantities shall fully describe the

*Method of measurement of building and civil engineering works (*revised*).

†Rules for rounding off numerical values (*revised*).

materials and workmanship, and accurately represent the work to be executed.

2.6 The various kinds of sheets for glazing like glass and other materials shall be described and shall be measured separately. In the case of wired glass design or pattern of reinforcement shall be described and in case of frosted glass it shall be stated whether it is on one or both sides.

2.7 Work in wood, metal concrete and the like shall be measured separately.

2.8 The method of glazing shall be described and measured separately under the following classification. The type and putty shall also be described:

- a) Front and back putty and sprigged or fixed with glazing pins,
- b) Bedded in putty and fixed with beads, and
- c) Bedded in rubber or velvet and fixed with beads (wherever required).

3. METHOD OF MEASUREMENT

3.1 Work shall be measured in square metres stating the thickness.

3.1.1 The dimensions of each pane shall be clear dimensions of opening plus width of rebates of structural member of window/door. The pane other than rectangular or square shall be measured as the smallest rectangular area from which pane can be cut. Straight cutting shall be deemed to be included in the item.

3.2 Circular cutting shall be measured as extra in running metres. The term circular shall be deemed to include any form of curve.

3.3 Glass and sheet louvres shall be described and enumerated.

3.4 Hacking-out old broken glass and preparing for new glass shall be measured in square metres.

3.5 Holes drilled in work shall be enumerated stating diameter of the hole, type and thickness of the glass/sheet and size of the pane.

3.6 Grinding, polishing and rounding off edges of glass or glazing sheet shall be described and measured in running metres.

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002

Telephones: 323 0131, 323 3375, 323 9402

Fax : 91 11 3234062, 91 11 3239399, 91 11 3239382

Telegrams : Manaksanstha

(Common to all Offices)

Telephone

Central Laboratory :

Plot No. 20/9, Site IV, Sahibabad Industrial Area, Sahibabad 201010

8-77 00 32

Regional Offices:

Central : Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002 323 76 17

*Eastern : 1/14 CIT Scheme VII M, V.I.P. Road, Maniktolra, CALCUTTA 700054 337 86 62

Northern : SCO 335-336, Sector 34-A, CHANDIGARH 160022 60 38 43

Southern : C.I.T. Campus, IV Cross Road, CHENNAI 600113 235 23 15

†Western : Manakalaya, E9, Behind Marol Telephone Exchange, Andheri (East),
MUMBAI 400093 832 92 95

Branch Offices::

'Pushpak', Nurmohamed Shaikh Marg, Khanpur, AHMEDABAD 380001 550 13 48

‡Peenya Industrial Area, 1st Stage, Bangalore-Tumkur Road,
BANGALORE 560058 839 49 55

Gangotri Complex, 5th Floor, Bhadbhada Road, T.T. Nagar, BHOPAL 462003 55 40 21

Plot No. 62-63, Unit VI, Ganga Nagar, BHUBANESHWAR 751001 40 36 27

Kalaikathir Buildings, 670 Avinashi Road, COIMBATORE 641037 21 01 41

Plot No. 43, Sector 16 A, Mathura Road, FARIDABAD 121001 8-28 88 01

Savitri Complex, 116 G.T. Road, GHAZIABAD 201001 8-71 19 96

53/5 Ward No.29, R.G. Barua Road, 5th By-lane, GUWAHATI 781003 54 11 37

5-8-56C, L.N. Gupta Marg, Nampally Station Road, HYDERABAD 500001 20 10 83

E-52, Chitaranjan Marg, C-Scheme, JAIPUR 302001 37 29 25

117/418 B, Sarvodaya Nagar, KANPUR 208005 21 68 76

Seth Bhawan, 2nd Floor, Behind Leela Cinema, Naval Kishore Road,
LUCKNOW 226001 23 89 23

NIT Building, Second Floor, Gokulpat Market, NAGPUR 440010 52 51 71

Patliputra Industrial Estate, PATNA 800013 26 23 05

Institution of Engineers (India) Building 1332 Shivaji Nagar, PUNE 411005 32 36 35

T.C. No. 14/1421, University P. O. Palayam, THIRUVANANTHAPURAM 695034 6 21 17

*Sales Office is at 5 Chowringhee Approach, P.O. Princep Street,
CALCUTTA 700072 27 10 85

†Sales Office is at Novelty Chambers, Grant Road, MUMBAI 400007 309 65 28

‡Sales Office is at 'F' Block, Unity Building, Narashimaraja Square,
BANGALORE 560002 222 39 71

AMENDMENT NO. 1 MAY 2002
TO
IS 1200 (Part 14) : 1984 METHOD OF MEASUREMENT
OF BUILDING AND CIVIL ENGINEERING WORKS
PART 14 GLAZING
(Third Revision)

(Page 5, clause 3.1.1, last sentence] — Substitute the following for the existing sentence:

'Cutting to make a circumscribing rectangle shall be deemed to be included in the item.'

(Page 5, clause 3.2) — Substitute the following for the existing clause:

'3.2 Cutting required for panes other than rectangular or square shall also be deemed to be included in the item. The shape required shall be detailed in the drawings or otherwise desired.'

(CED 44)