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Indian Standard

METHOD OF MEASUREMENT OF
BUILDING AND CIVIL ENGINEERING WORKS

PART 14 GLAZING

(*Third Revision*)

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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

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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.

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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 23230131, 23233375, 23239402

Fax 91+011 23239399, 23239382

E - Mail info@bis org in

website http://www.bis.org.in

Central Laboratory:

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

Telephone

277 0032

Regional Offices:

Central	Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002	2323 7617
*Eastern	1/14 CIT Scheme VII M, V I P Road, Kankurgachi, KOLKATA 700054	2337 8662
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†Western	Manakalaya, E9, MIDC, Behind Marol Telephone Exchange, Andheri (East), MUMBAI 400093	2832 9295

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