

D-2036
2/15/98

Ball Glass Factory, Jagurthala

MDSS101

Dated. 2-5-98

Sub: MDT S 049, Schedule of Requirements for Testing
Transparency of FROSTED GLASS/Sheet for Low Windows.

Ref: _____ / _____

Please find enclosed herewith a copy of the specs. no. **MDTS 049** Revn./Amendment no. **Rev. 1**

You are requested to:

- (a) Confirm the applicability of this Specs./Revn.

- (b) Put in point for revised/updated specs.

- (c) Carry corrections in the Master List with effect from dated: _____

COM, CPLE, CWE (Shell), CWE (Fus)
Dy. CME/Dav., SME/BD, SME (Fus), SME (Dav. 2)
SME (Shell), SSE/Lib., SSE/Rec.

[Signature]
(Cantosh Sinha)
Dy. CME/T&L

Encl: As above.

Copy for kind information.

_____ CDE _____
_____ Dy CME/D _____

SSE/Specs.

feb20

*M. Thakur / out with
PR file*



MDTS048 REV. 1
DATED 01.05.98

SCHEDULE OF REQUIREMENTS FOR TESTING TRANSPERANCY OF FROSTED GLASS/SHEET FOR LAVATORY WINDOWS.

NAME	DESIGNATION	SIGNATURE	DATE	LEVEL
PRITAM SINGH	SSE/EE	<i>P Singh</i>	01.05.98	Prepare
V. SRIVASTAVA	SME/P-2	<i>V. Srivastava</i>	01.05.98	Agree
S. SHARMA	DI. CME/D	<i>S. Sharma</i>	1/5/98	Review
A. KHARE	CDE	<i>A. Khare</i>	1/5/98	Approve

ISSUE	DETAILS OF CHANGE	DATE

P Singh
01.05.98
SSE/EE

Prepared by

A. Khare
1/5/98

Agreed by
Unit Officer

1. SCOPE

This shall cover description of test equipments, methodology of checking suitability of frostiness of lavatory window glasses and requirements.

2.0 REQUIREMENTS

The frosted glass shall be of utility to the extent that body across the glass is not visible impairing privacy when viewed at a fixed distance under standard illuminating conditions of glass.

3.0 PRINCIPLE

The degree of roughness induced by way of blasting with the help of medium grained sand is directly related to obscuring power of frosted glass. The more the roughness, the higher is the degree of scattering of light and as the opaqueness of glass.

4.0 METHODOLOGY

The object is illuminated by a standard source of light, in an enclosed room having standard illumination. The object is viewed through wetted frosted face and the distance at which the contrast of object becomes indistinguishable is recorded.

5.0 APPARATUS

5.1 BASE

The base of the equipment shall be constructed of two channels separated by a distance approx equal to length of glass and provided with two rectangular frames out of which one is movable over the channels with the help of roller wheels. The window glass under test shall be fixed into this Movable frame while the object shall be put in the second frame which is fixed. The base shall be provided with graduated scale in mm.

5.2 SOURCE OF LIGHT

A standard 100 W electric bulb (on 230 V-AC) fixed in metallic tubular section to prevent scattering of light in direction other than the object. A chequered board is included at a distance of 450 mm approx. from the center of object for its illumination.

5.3 Object (Chequered Board)

Black and White chequered board of appr. size of window glass having alternate black and white squares of size per IS:101-1984.

Prepared by

PSK
01/05/98
SSE/ED

Agreed by

W
11/5/98

SPECIFICATION SCHEDULE OF REQUIREMENTS FOR TESTING TRANSPARENCY OF FROSTED GLASS/SHEET FOR LAVATORY WINDOWS.

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5.4 VIEWING

Normal vision is made through frosted glass at a distance of 1.75 Metres from the object by human eyes. The whole apparatus is kept in closed room having illumination of fluorescent tubes (40 Wx2).

6.0 Window glass under test shall be fixed in the movable frame (frosted side facing the object) while the object is fixed in second frame. The source of light is put 'ON' and frosted face of glass is wetted by water. The distance of frosted glass from the object when kept at 600 mm. and when viewed from other side of frosted glass (refer-fig-1) the black and white squares should not be distinguishable.

SKETCH SHOWING ARRANGEMENT FOR TESTING FROSTNESS OF WINDOW GLASSES

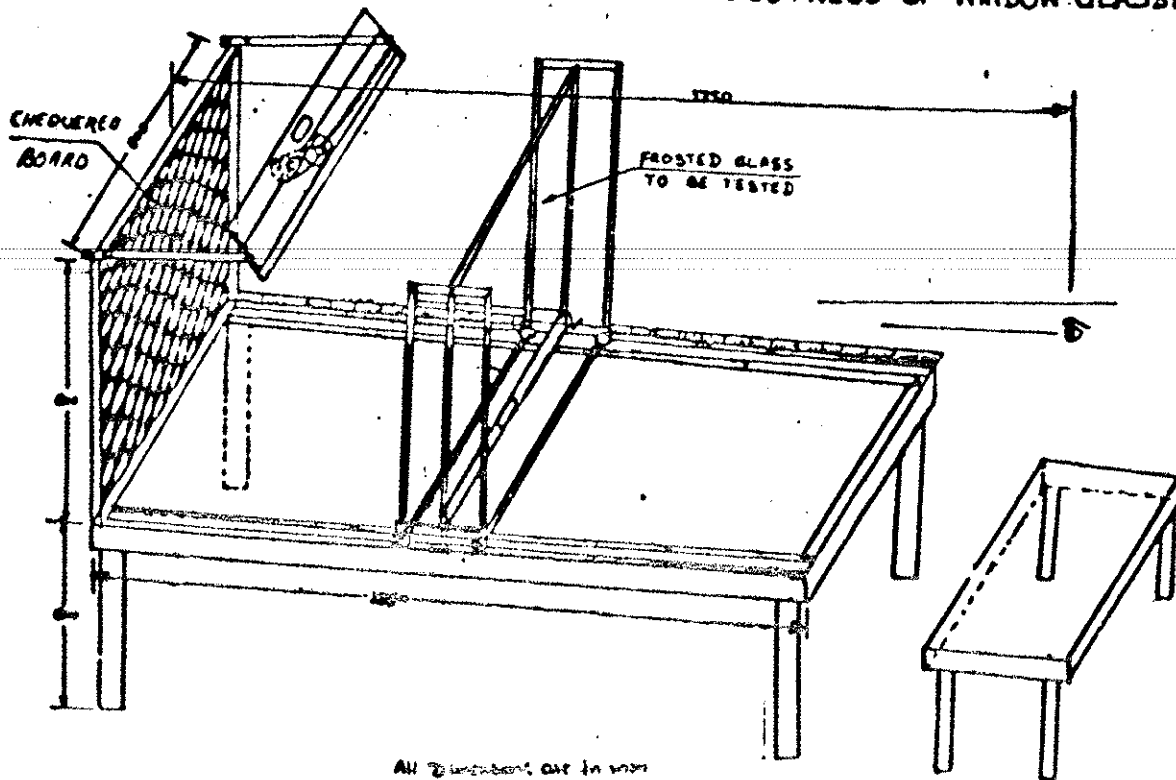


FIGURE - 1

Prepared by

[Signature]

Agreed by

[Signature]
11/5/98