Manual
on
Door and Window Details
for Residential Buildings

Volume-1

Govt. of India
Central Public Works Department
FOREWORD

I am glad to learn that CPWD has standardised the sizes of door and window in government residential buildings and for dissemination of this information, the organisation is bringing out a manual.

Standardisation of fittings and fixtures should not only lead to qualitative improvement of the buildings, but also reduce the cost of construction due to economies of scale in production of these items. In the present competitive environment, this is a step in the right direction. I am confident that CPWD would continue to innovate in this manner to give good value for money, to its customers.

I congratulate the officers of the CPWD to have brought out such a user friendly and comprehensive document and trust that the field officers will find it useful.

Secretary
Ministry of Urban Development

May 11, 2006
PREFACE

The committee on Standardization of Doors and Window sizes for Residential Buildings consisting of experts from CPWD, Confederation of Construction Products and Services (CCPS) and IBC (Indian Building Congress) submitted a report to the MoUD for acceptance. The MoUD has accepted the report and advised that these sizes be adopted by CPWD and adequately publicised among the major construction agencies and the industry, for their adoption.

Subsequently a need was felt to compile all possible window/door details in various materials and to prepare a working manual for the use of field engineers, architects and other agencies engaged in design and construction activities.

This manual has been prepared specifically for use in the construction of residential buildings. It is hoped that the manual will be a useful reference material.

DG(W), CPWD
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ABBREVIATIONS USED IN THE DRAWINGS

Doors and Windows shall be designated by the following letters

<table>
<thead>
<tr>
<th>Letter</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
<td>Window</td>
</tr>
<tr>
<td>D</td>
<td>Door</td>
</tr>
</tbody>
</table>

The Material of the Doors/Windows shall be designated as

<table>
<thead>
<tr>
<th>Letter</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Aluminium</td>
</tr>
<tr>
<td>W</td>
<td>Wood</td>
</tr>
<tr>
<td>S</td>
<td>Steel</td>
</tr>
</tbody>
</table>

The various sections shall be marked in reference to Fig.7, 8, 9 and 16

For Example

- A W I would mean Aluminium Window Detail at Section 1
- W D 5 would mean Wooden Door Detail at Section 5
- W W I would mean Wooden Window Detail at Section 1
- S W 2 would mean Steel Window Detail at Section 2

This designation will have to be marked on the Elevation of the Door/Window. Refer to Fig. 1.
EXAMPLE OF A WINDOW OF OPENING SIZE A X B

EXAMPLE ONLY

Fig. 1: Elevation for Window of opening size A x B
### TABLE-1 REVISED SPECIFICATIONS FOR RESIDENTIAL BUILDINGS

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Item</th>
<th>Type I to III</th>
<th>Type IV</th>
<th>Type V &amp; VI</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Frames</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1a</td>
<td>Window</td>
<td>Pressed steel (Corrosion resistant coated) sheet 1.6 mm thick with double rebate</td>
<td>i. Pressed steel (Corrosion resistant coated) sheet 1.6 mm thick with double rebate</td>
<td>Same as type IV</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ii. Aluminium Sheet</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>iii. Poly-propylene windows.</td>
<td></td>
</tr>
<tr>
<td>1b</td>
<td>Doors</td>
<td>i. Pressed steel (Corrosion resistant coated) sheet 1.6 mm thick with single rebate</td>
<td>i. Pressed steel (Corrosion resistant coated) sheet 1.6 mm thick with single rebate</td>
<td>Same as type IV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ii. T-Iron</td>
<td>ii. Precast RCC frame</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>iii. Precast RCC frame</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Shutters</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2a</td>
<td>Window</td>
<td>MS tubular box section (corrosion resistant coated).</td>
<td>i. MS tubular box section (corrosion resistant coated).</td>
<td>Same as type IV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wire mesh shutters may be provided at the discretion of the Zonal CE.</td>
<td>ii. Aluminium. Shutter to match frame.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Wire mesh shutters may be provided at the discretion of the Zonal CE.</td>
<td></td>
</tr>
<tr>
<td>2b</td>
<td>Door</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2b(i)</td>
<td>Main Door</td>
<td>External door with iron grill/wire mesh Internal door 35mm panelled shutter with hard wood style and rails. Panels out of pre-laminated particle board one side decorative other side balancing.</td>
<td>Same as type I to type III</td>
<td>Same as type I to type III except that panels will be decorative on both sides.</td>
</tr>
<tr>
<td>2b(ii)</td>
<td>WC &amp; Bath</td>
<td>Solid PVC shutter 20mm thick</td>
<td>Same as type I to type III</td>
<td>Same as type I to type III</td>
</tr>
<tr>
<td>3.</td>
<td>Fittings</td>
<td>Powder coated MS/Stainless Steel</td>
<td>Powder coated MS/Stainless Steel</td>
<td>Same as type IV</td>
</tr>
</tbody>
</table>

**Note:**
1. If any other option of local material is available the same can be used.
2. External sliding bolt and handles will be powder coated MS or Stainless Steel
CHAPTER 1 – WOOD

1A – WINDOW DETAILS

1B – DOOR DETAILS
R or $R' = 40, 35, 30$ or 25 Depending Upon Shutter Thickness

Fig. 2: Standard Sections of Wooden Windows, Doors and Ventilator Frames

Fig. 3: Detail of Fixing of Wooden Frame to Wall

Fig. 4: Meeting of Stiles for Double Leaved Shutters
TYPICAL DETAILS – WOOD

Fig. 5 Glazing/Sash Bar Detail

Fig. 6 Common Methods of Joining Panels with Stiles/Rails with or without Beading
## TABLE 2 – RECOMMENDED OPENING SIZES – WINDOWS

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Type</th>
<th>Location</th>
<th>Sill Height</th>
<th>Masonry Opening Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>W1</td>
<td>Habitable Room</td>
<td>750</td>
<td>1800 x 1350</td>
</tr>
<tr>
<td>2</td>
<td>W2</td>
<td>Habitable Room</td>
<td>900</td>
<td>1800 x 1200</td>
</tr>
<tr>
<td>3</td>
<td>W3</td>
<td>Habitable Room</td>
<td>750</td>
<td>1500 x 1350</td>
</tr>
<tr>
<td>4</td>
<td>W4</td>
<td>Habitable Room</td>
<td>900</td>
<td>1500 x 1200</td>
</tr>
<tr>
<td>5</td>
<td>W5</td>
<td>Habitable Room</td>
<td>750</td>
<td>1200 x 1350</td>
</tr>
<tr>
<td>6</td>
<td>W6</td>
<td>Habitable Room</td>
<td>900</td>
<td>1200 x 1200</td>
</tr>
<tr>
<td>7</td>
<td>W7</td>
<td>Habitable Room</td>
<td>750</td>
<td>900 x 1350</td>
</tr>
<tr>
<td>8</td>
<td>W8</td>
<td>Habitable Room</td>
<td>900</td>
<td>900 x 1200</td>
</tr>
<tr>
<td>9</td>
<td>W9</td>
<td>Habitable Room</td>
<td>750</td>
<td>600 x 1350</td>
</tr>
<tr>
<td>10</td>
<td>W10</td>
<td>Habitable Room</td>
<td>900</td>
<td>600 x 1200</td>
</tr>
<tr>
<td>11</td>
<td>W11</td>
<td>Habitable Room</td>
<td>750</td>
<td>450 x 1350</td>
</tr>
<tr>
<td>12</td>
<td>W12</td>
<td>Habitable Room</td>
<td>900</td>
<td>450 x 1200</td>
</tr>
<tr>
<td>13</td>
<td>W13</td>
<td>Kitchen</td>
<td>1050</td>
<td>900 x 1050</td>
</tr>
<tr>
<td>14</td>
<td>W14</td>
<td>Toilet</td>
<td>1050</td>
<td>600 x 1050</td>
</tr>
<tr>
<td>15</td>
<td>W15</td>
<td>Toilet</td>
<td>1050</td>
<td>450 x 1050</td>
</tr>
</tbody>
</table>
RECOMMENDED ELEVATION OF WINDOWS
FOR FIXING COOLER/AC

Fig. 7 : Opening Size 1200 x 1350

Fig. 8 : Opening Size 1500 x 1350

Fig. 9 : Fixed Glazing Ventilator
RECOMMENDED ELEVATION OF TOILET WINDOWS

Fig. 10: Opening Size 600 x 1050

Fig. 11: Opening Size 450 x 1050
TYPICAL WINDOW DETAILS – WOOD

Fig. 12
TYPICAL WINDOW DETAILS – WOOD

Fig. 13

DETAIL WW4

DETAIL WW5
TYPICAL WINDOW DETAILS – WOOD

Fig. 15
CHAPTER 1B
DOOR DETAILS
### TABLE 3 – RECOMMENDED OPENING SIZES – DOORS

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Type</th>
<th>Location</th>
<th>Shutter Size</th>
<th>Masonry Opening Size</th>
<th>Frame</th>
<th>Shutter</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>D1</td>
<td>Entrance Room 1</td>
<td>1100 x 2045</td>
<td>1200 x 2100</td>
<td>Wood</td>
<td>Internal Shutter - Solid Core</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Flush / Panel</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>External Shutter - Grill Shutter</td>
</tr>
<tr>
<td>2</td>
<td>D2</td>
<td>Entrance Room 2</td>
<td>1000 x 2045</td>
<td>1100 x 2100</td>
<td>Wood</td>
<td>Internal Shutter - Solid Core</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Flush / Panel</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>External Shutter - Grill Shutter</td>
</tr>
<tr>
<td>3</td>
<td>D3</td>
<td>Room Door 1</td>
<td>900 x 2045</td>
<td>1000 x 2100</td>
<td>Wood</td>
<td>Solid Core Flush Shutter or Panel Shutter</td>
</tr>
<tr>
<td>4</td>
<td>D4</td>
<td>Room Door 2</td>
<td>800 x 2045</td>
<td>900 x 2100</td>
<td>Wood</td>
<td>Solid Core Flush Shutter or Panel Shutter</td>
</tr>
<tr>
<td>5</td>
<td>D5</td>
<td>Kitchen &amp; Store</td>
<td>800 x 2045</td>
<td>900 x 2100</td>
<td>Wood</td>
<td>Partly Panel and Partly Wire Mesh Shutter</td>
</tr>
<tr>
<td>6</td>
<td>D6</td>
<td>Toilet</td>
<td>650 x 2045</td>
<td>750 x 2100</td>
<td>Wood</td>
<td>1. Panel Shutter</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2. Solid PVC Shutter</td>
</tr>
</tbody>
</table>
Note: Main entrance door to be a double door. One shutter with iron grill with mosquito proof wire mesh and other shutter 35mm thick panelled/flush door.
TYPICAL DOOR DETAIL – WOOD

Fig. 17 : Elevation of Wooden Door
TYPICAL DOOR DETAIL – WOOD

DETAIL WD2

FINISHED FLR LVL.

Fig. : 18
TYPICAL DOOR DETAIL – WOOD

**DETAIL WD4**

1.5MM AIR GAP

**DETAIL WD5**

1.5MM AIR GAP

**Fig. : 19**
TYPICAL DOOR DETAIL – WOOD

DETAIL WD6

DETAIL WD7

Fig. : 20
Fig. 21 : Elevation of Kitchen Door
TYPICAL DOOR DETAIL – WOOD

DETAIL WD1A

TOP RAIL

BELIND OUT OF 12x12
STAINLESS STEEL WIRE MESH

DETAIL WD2A

LOCK RAIL

INSERT
AS PER SPECS./DESIGN/ITEM

Fig. : 22
CHAPTER 2
PRESSED STEEL
# TABLE 4 – RECOMMENDED SHUTTER AND OPENING SIZES – DOORS

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Type</th>
<th>Location</th>
<th>Shutter Size</th>
<th>Masonry Opening Size</th>
<th>Frame</th>
<th>Shutter</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>D1</td>
<td>Entrance Room 1</td>
<td>1100 x 2045</td>
<td>1200 x 2100</td>
<td>Pressed Steel</td>
<td>Internal Shutter - Solid Core</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1. Steel Flush / Panel</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2. External Shutter - Grill Shutter</td>
</tr>
<tr>
<td>2</td>
<td>D2</td>
<td>Entrance Room 2</td>
<td>1000 x 2045</td>
<td>1100 x 2100</td>
<td>Pressed Steel</td>
<td>Internal Shutter - Solid Core</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1. Steel Flush / Panel</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2. External Shutter - Grill Shutter</td>
</tr>
<tr>
<td>3</td>
<td>D3</td>
<td>Room Door 1</td>
<td>900 x 2045</td>
<td>1000 x 2100</td>
<td>Pressed Steel</td>
<td>Solid Core Flush Shutter or Panel Shutter</td>
</tr>
<tr>
<td>4</td>
<td>D4</td>
<td>Room Door 2</td>
<td>800 x 2045</td>
<td>900 x 2100</td>
<td>Pressed Steel</td>
<td>Solid Core Flush Shutter or Panel Shutter</td>
</tr>
<tr>
<td>5</td>
<td>D5</td>
<td>Kitchen &amp; Store</td>
<td>800 x 2045</td>
<td>900 x 2100</td>
<td>Pressed Steel</td>
<td>Partly Panel and Partly Wire Mesh Shutter</td>
</tr>
<tr>
<td>6</td>
<td>D6</td>
<td>Toilet</td>
<td>650 x 2045</td>
<td>750 x 2100</td>
<td>Pressed Steel</td>
<td>1. Panel Shutter</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2. Solid PVC Shutter</td>
</tr>
</tbody>
</table>
PRESSED STEEL PROFILE FOR DOORS / WINDOWS

PROFILE - A

PROFILE - B

PROFILE - C

FIXING OF HINGE TO FRAME

Note: 45mm width of flange as indicated is applicable to all thickness of shutters namely 25, 30, 35, & 40mm

Fig. 24 : Pressed Steel Profiles
ELEVATION OF WOODEN/PRESSED STEEL FRAME FOR DOORS

Fig. 25 : Elevation of Door Frames
CHAPTER 3
ALUMINIUM WINDOW DETAILS
### TABLE 2 – RECOMMENDED OPENING SIZES – WINDOWS

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Type</th>
<th>Location</th>
<th>Sill Height</th>
<th>Masonry Opening Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>W1</td>
<td>Habitable Room</td>
<td>750</td>
<td>1800 x 1350</td>
</tr>
<tr>
<td>2</td>
<td>W2</td>
<td>Habitable Room</td>
<td>900</td>
<td>1800 x 1200</td>
</tr>
<tr>
<td>3</td>
<td>W3</td>
<td>Habitable Room</td>
<td>750</td>
<td>1500 x 1350</td>
</tr>
<tr>
<td>4</td>
<td>W4</td>
<td>Habitable Room</td>
<td>900</td>
<td>1500 x 1200</td>
</tr>
<tr>
<td>5</td>
<td>W5</td>
<td>Habitable Room</td>
<td>750</td>
<td>1200 x 1350</td>
</tr>
<tr>
<td>6</td>
<td>W6</td>
<td>Habitable Room</td>
<td>900</td>
<td>1200 x 1200</td>
</tr>
<tr>
<td>7</td>
<td>W7</td>
<td>Habitable Room</td>
<td>750</td>
<td>900 x 1350</td>
</tr>
<tr>
<td>8</td>
<td>W8</td>
<td>Habitable Room</td>
<td>900</td>
<td>900 x 1200</td>
</tr>
<tr>
<td>9</td>
<td>W9</td>
<td>Habitable Room</td>
<td>750</td>
<td>600 x 1350</td>
</tr>
<tr>
<td>10</td>
<td>W10</td>
<td>Habitable Room</td>
<td>900</td>
<td>600 x 1200</td>
</tr>
<tr>
<td>11</td>
<td>W11</td>
<td>Habitable Room</td>
<td>750</td>
<td>450 x 1350</td>
</tr>
<tr>
<td>12</td>
<td>W12</td>
<td>Habitable Room</td>
<td>900</td>
<td>450 x 1200</td>
</tr>
<tr>
<td>13</td>
<td>W13</td>
<td>Kitchen</td>
<td>1050</td>
<td>900 x 1050</td>
</tr>
<tr>
<td>14</td>
<td>W14</td>
<td>Toilet</td>
<td>1050</td>
<td>600 x 1050</td>
</tr>
<tr>
<td>15</td>
<td>W15</td>
<td>Toilet</td>
<td>1050</td>
<td>450 x 1050</td>
</tr>
</tbody>
</table>
RECOMMENDED ELEVATION OF WINDOWS
FOR FIXING COOLER/AC

Fig. 26 : Opening Size 1200 x 1350

Fig. 27 : Opening Size 1500 x 1350
TYPICAL WINDOW DETAILS – ALUMINIUM

DETAIL AW1

DETAIL AW2

DETAIL AW3

Fig. 28
TYPICAL WINDOW DETAILS – ALUMINIUM

DETAIL AW4

DETAIL AW5

Fig. 29
TYPICAL WINDOW DETAILS – ALUMINIUM

Fig. 30
TYPICAL WINDOW DETAILS – ALUMINIUM

Fig. 31
TYPICAL WINDOW DETAILS – ALUMINIUM

Fig. 32
TYPICAL WINDOW DETAILS – ALUMINIUM

DETAIL AW13

OUTSIDE

CLIP 4135

GLAZING RUBBER
GASKET WITH GLASS
AS PER SPECS./ ITEM
INSIDE

DETAIL AW14

OUTSIDE

CLIP 4135

GLAZING RUBBER
GASKET WITH 5mm
\ GLASS

9149

9149

Fig. 33
TYPICAL WINDOW DETAILS – ALUMINIUM

Fig. 34

DETAIL AW1A

DETAIL AW2A

DETAIL AW3A
TYPICAL WINDOW DETAILS – ALUMINIUM

**DETAIL AW6A**

**OUTSIDE**

**INSIDE**

Fig. 36
TYPICAL WINDOW DETAILS – ALUMINIUM

DETAIL AW8A

OUTSIDE

4726
4725
4407 CLIP

GLASS AS PER SPECS./ITEM

INSIDE

DETAIL AW9A

OUTSIDE

4725
4407 CLIP

GLASS AS PER SPECS./ITEM

INSIDE

Fig. 37
TYPICAL WINDOW DETAILS – ALUMINIUM

DETAIL AW10A

DETAIL AW11A

Fig. 38
TYPICAL WINDOW DETAILS – ALUMINIUM

DETAIL AW12A

DETAIL AW13A

Fig. 39
CHAPTER 4

STEEL WINDOW DETAILS
# TABLE 2 – RECOMMENDED OPENING SIZES – WINDOWS

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Type</th>
<th>Location</th>
<th>Sill Height</th>
<th>Masonry Opening Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>W1</td>
<td>Habitable Room</td>
<td>750</td>
<td>1800 x 1350</td>
</tr>
<tr>
<td>2</td>
<td>W2</td>
<td>Habitable Room</td>
<td>900</td>
<td>1800 x 1200</td>
</tr>
<tr>
<td>3</td>
<td>W3</td>
<td>Habitable Room</td>
<td>750</td>
<td>1500 x 1350</td>
</tr>
<tr>
<td>4</td>
<td>W4</td>
<td>Habitable Room</td>
<td>900</td>
<td>1500 x 1200</td>
</tr>
<tr>
<td>5</td>
<td>W5</td>
<td>Habitable Room</td>
<td>750</td>
<td>1200 x 1350</td>
</tr>
<tr>
<td>6</td>
<td>W6</td>
<td>Habitable Room</td>
<td>900</td>
<td>1200 x 1200</td>
</tr>
<tr>
<td>7</td>
<td>W7</td>
<td>Habitable Room</td>
<td>750</td>
<td>900 x 1350</td>
</tr>
<tr>
<td>8</td>
<td>W8</td>
<td>Habitable Room</td>
<td>900</td>
<td>900 x 1200</td>
</tr>
<tr>
<td>9</td>
<td>W9</td>
<td>Habitable Room</td>
<td>750</td>
<td>600 x 1350</td>
</tr>
<tr>
<td>10</td>
<td>W10</td>
<td>Habitable Room</td>
<td>900</td>
<td>600 x 1200</td>
</tr>
<tr>
<td>11</td>
<td>W11</td>
<td>Habitable Room</td>
<td>750</td>
<td>450 x 1350</td>
</tr>
<tr>
<td>12</td>
<td>W12</td>
<td>Habitable Room</td>
<td>900</td>
<td>450 x 1200</td>
</tr>
<tr>
<td>13</td>
<td>W13</td>
<td>Kitchen</td>
<td>1050</td>
<td>900 x 1050</td>
</tr>
<tr>
<td>14</td>
<td>W14</td>
<td>Toilet</td>
<td>1050</td>
<td>600 x 1050</td>
</tr>
<tr>
<td>15</td>
<td>W15</td>
<td>Toilet</td>
<td>1050</td>
<td>450 x 1050</td>
</tr>
</tbody>
</table>
TYPICAL STEEL SECTIONS – WINDOW

NO. F4B (2.28 kg/m)
CENTRAL MULLION FOR WINDOWS
USING F7D AS INNER FRAME,
OUTER FRAME FOR OPEN-IN WINDOWS

NO. F7D (1.419 kg/m)
INNER/OUTER FRAMES
FOR WINDOWS

NO. T-6 (0.839 kg/m)
HORIZONTAL GLAZING BAR

NO. T-2 (1.036 kg/m)
SASH BAR

Fig. 40: Steel Sections
RECOMMENDED ELEVATION OF WINDOWS FOR FIXING COOLERS/AC

Fig. 41: Opening Size 1500 x 1350

Fig. 42: Opening Size 1500 x 1350
TYPICAL WINDOW DETAILS – STEEL

DETAIL SW1

12 TH. PLASTER

STANDARD STEEL SECTION NO. F4B

STANDARD STEEL SECTION NO. F7D

BEADING TO HOLD GLASS

RUBBER GASKET

GLASS AS PER SPECS.

DETAIL SW2

GLASS AS PER SPECS.

RUBBER GASKET

BEADING TO HOLD GLASS

STANDARD STEEL SECTION NO. F7D

STANDARD STEEL SECTION NO. F4B

BEADING TO HOLD GLASS

RUBBER GASKET

DETAIL SW3

GLASS AS PER SPECS

RUBBER GASKET

BEADING TO HOLD GLASS

STANDARD STEEL SECTION NO. F4B

12 TH. PLASTER

Fig. 43
TYPICAL WINDOW DETAILS – STEEL

DETAIL SW4

DETAIL SW5

DETAIL SW6

Fig. 44
TYPICAL STEEL SECTIONS – WINDOW

DETAIL SW7

Fig. 45

DETAIL SW8

Fig. 45
TYPICAL STEEL SECTIONS – WINDOW

DETAIL SW9

12 MM TH. PLASTER
HOLD FAST

BEADING TO HOLD GLASS
STANDARD STEEL SECTION NO. F7D
STANDARD STEEL SECTION NO. F4B

DETAIL SW10

INSIDE

GLASS
RUBBER GASKET
BEADING TO HOLD GLASS
STANDARD STEEL SECTION NO. F7D
STANDARD STEEL SECTION NO. F4B

OUTSIDE

Fig. 46
TYPICAL STEEL SECTIONS – WINDOW

DETAIL SW11

Fig. 47
NOTES

1. Aluminium sections of Jindal and Indal extrusions have been used to depict the various details in the window drawings. These are only representative in nature, other equivalent BIS marked sections can also be used for aluminium windows.

2. The weight and thickness of the aluminium sections shall be decided by the structural engineer (based on the profile, thickness of glass, and size of opening) and mentioned in the NIT.

3. The specifications for the general pool accommodation (type I-VI) have been revised vide letter no. 62/SE(S&S)/EEII/AE1/PAR/05-06/01 dated 2-1-06.

4. The approved standard door shutter sizes and window opening sizes have been issued vide letter no. 120/S&S/Standardisation of Doors and Windows/62 dated 14/3/2006.
REFERENCES

5. IS:7452-1982 Specifications for Hot Rolled Steel Sections For, Doors Windows And Ventilators.