

Sub.: Aluminum sliding windows design standard

Standards for Aluminum sliding windows being used for flat /villa projects are being specified herein. Project managers with the assistance of QC shall ensure that standards and procedures given herein are strictly followed.

The thickness of each profile should be measured with a vernier caliper and the thickness should not be less than 5% of the specified thickness. However, the more accurate method of checking thicknesses of profile is by weight. The weight per mtr should be checked on an electronic weighing machine available with QC before starting work. The weight specified in the enclosed drawing is the minimum weight of the profile. Do not accept/use material which falls below the specified weight.

Profile no. 1: Clip used for fix windows.

Profile no. 2: Box section for fixed glass windows – used for sides, bottom and top

Profile no. 3: Box section for fixed glass windows – used for middle sections

Profile no. 4: 2 track for frame of sliding window - used for top and sides.

Profile no. 5: 2 track for frame of sliding window - used for bottom.

Profile no. 6: Interlock vertical member for window shutter – used for interlocking sides.

Profile no. 7: Vertical member for window shutter – used for non-interlocking sides.
Can also be used for shutter top.

Profile no. 8: H section for window shutter – used for top and bottom.

The frame should be clamped with 1.5” aluminum L angle of 2.5” length and 3 mm thickness fitted with 19 x 6 or 19 x 8 mm SS screws.

Shutter should be screwed with 4 nos SS screws of size 38 x 6 mm.

Felt of good quality should be used in the frame. Do not use rubber or PVC gaskets.

For sliding windows 4 mm float glass should be used and for fixed windows 5 mm float glass should be used. The glass should be fixed using a transparent PVC gasket. Do not use black PVC gaskets or EPDM gaskets.

The shutter should be locked using a spiral lock. Do not use any other type of lock or handle.

Powder coating should be done using pure polyester.

Frame should be fitted to the wall using about 38 x 8 size SS or wood screws. Templates (external) should be used to cross check opening for window after brickwork stage and after plastering stage. Corrections should be made using grinding machine. Do not use hammer and chisel.

2 holes of 5 mm should be made in the bottom track facing the external side so that water does not accumulate in the track.

Relevant drawing is attached in circular 889(a) as figure no. 16.

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