

Sub.: Aluminum openable doors and windows design standards

Standards for Aluminum openable 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.

Openable Windows for villas.

Profile no. 1: Z- section for window shutter – used for 4 Sides. (Openable)

Profile no. 2: Chair section– used for outer frame –all 4 sides (Openable)

Profile no. 3: Mulyan Section - Used for outer frame - for center posts (Openable)

Profile no. 4: Clip used for fixing glass in window shutters.

Openable Doors

Profile no 5 – Section for door shutter – Top section

Profile no 6 –Vertical Section – used for door shutter on both sides.

Profile no 7 – Bottom Section – used for door shutter fixed with hinges. For floor mounted doors use the same section with 6” height.

Profile no 8 – Center Section for door shutters.

Profile no 9 – Clip used for fixing glass in door shutters.

Profile no 10 – Section used for door frame on all 3 sides.

The Outer frame should be clamped with 1.5”X1”X3mm thick aluminum L angle fitted with 19 x 6 or 19 x 8 mm SS screws.

Shutter should be screwed with 4 nos SS screws of size 19 x 6 mm or 19 x 8 mm.

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

For openable windows/doors 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.

Handles and locks of good design and quality should be used after prior approval from M.D.

Powder coating should be done using pure polyester.

Frame should be fitted to the wall using 60 x 10mm or 75 x 10mm G.I or SS 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.

Relevant drawing is attached in circular 889(a) as figure no. 17

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