

# Architectonics 'AC100' Commercial Door & Screening System Specification

The 'AC100 Door and Screening System' is an easy to fabricate / install solid aluminium door and screening system. Door configurations can be either 'AFT Centre Pivot' (Anti-Finger Trap) or 'Rebated Offset' in either single or double doors. The door system is complimented by a range of screening profiles allowing construction of both fixed lights and vented screens.

This product is currently available in 6.5m mill and white bar lengths.

## **APPLICATION**

Suitable for installation in new build or replacement commercial projects.

## **MATERIALS**

Aluminium profiles are extruded from aluminium alloy 6060 T5 to BS EN-12020 and BS EN-755. Gaskets and wedges are made from flexible TPR (Thermoplastic Rubber). Woven pile Weatherstrip consists of durable polypropylene fibers with a rigid polypropylene backing.

## **FINISHES**

White bars are polyester powder in 'Ral 9910 Hipca White Full Gloss' and coated to BS EN 12206:2004.

## **CONSTRUCTION**

All door leaf components are square cut and 'butt jointed' together with extruded cleats. Joints are secured with spreader plates and M8 socket cap head machine screws. Rails are secured to the cleats with No.8 countersunk head screws. Framing is also square cut and 'butt jointed' together with No.8 pan head screws. Weathering is provided by a twin barrier of woolpile and brush strips around the perimeter.

## **GLAZING**

Glazing within the leaf is by square cut glazing bead with the screening glazed using a combination of both glazing bead and shuffle pocket glazing. Glass is set dry and retained within clip-in beads by an external retained 'E' gasket and 'push in' internal wedge. The system is only suitable for 24mm glazing. Security is achieved by securing the outer beads into their mating profiles with self-tapping screws.

## **HARDWARE**

Standard hardware options provided on these doors include ;

- Various Assa Deadlatches with relevant matching Assa hardware.
- Axim High Security Hook locking.
- Axim 8800 Concealed Overhead closers for centre pivot doors.
- Axim 1500 or Dorma TS93 Surface Mounted closers and Hinges for rebated doors.
- Keylex KL700 Mechanical Digital locking for access controlled doors.
- Adams Rite 7101 Electrical Strikes.
- Axim Panic Exit Devices
- Axim Pad handles / Hoppe Cranked handles.



## **SIZE LIMITATIONS**

Overall door height must not exceed 2500mm high. Maximum door widths will vary dependant on hardware - as a guide, maximum single door width 1730mm / maximum double door widths 3365mm. Maximum door leaf area of 2.8m square. For rebated doors where 3 hinges are fitted the overall leaf weight must not exceed 100Kgs.

## **WEATHER PERFORMANCE**

There is no recognised performance standard for commercial doors systems, however special consideration should be given when they are fitted on exposed sites. Where sites are exposed it is advisable to provide protection by means of a lobby or porch to prevent pivot doors opening, resulting in draughts or water penetration.