

Specification

Scope

This specification details materials, construction, finishes hardware and sizes for the Sapa Commercial Door and Ground Floor Framing System. The system described in this specification and illustrated on the following pages are suitable for installation into new building work or as replacement in existing buildings, being designed for fitting into curtain wall or direct into masonry.

Materials

Aluminium profiles are extruded aluminium alloy 6060 or 6063-T5 or T6 complying with the recommendations of BS 1474 with a minimum thickness of 2.5mm on all main elements of doors and framing.

Polyester powder coated finishes are available to BS 6496 in a wide range of colours. Anodised finishes are to BS 3987 Grade AA25, etch silver and Glostal bronze as standard, with a range of special anodised finishes on application.

Weather sealing is polypropylene backed woven pile held in undercut grooves extruded in the aluminium profiles.

Construction

Framing profiles are square cut for jointing with self-tapping screws fixing into screw splines extruded in the aluminium profiles.

Door leaf profiles are square cut and assembled with extruded aluminium brackets and clamp plates then fixed with M8 socket cap head machine screws.

Hardware

The standard fittings provided for these doors are: -

Dorma RTS 85 concealed overhead door closers for pivoted doors, and Dorma pivot hinges for hinged doors.

Adams Rite MS 2200 security lock with hook bolt and European standard profiled cylinders.

Aluminium tubular pull handles and pad handles.

Variations by way of special handles, pivot hinges, master key systems, emergency exit devices, automatic door operation, electronic security, etc. can be incorporated into the system as required.

Assembly & Installation

Detailed instructions are provided in this publication, which must be strictly conformed to.

Glazing

Glass must conform to the requirements of BS 6262 for thickness and type. Glass is set dry against synthetic rubber gaskets. Glass is supported on adjustable setting blocks.

Glazing beads and gaskets will accommodate glass and/or panels of 6mm, 10mm and 24mm nominal thickness.

Size Limitations

Door leaf maximum sizes will be determined by a combination of site exposure conditions and hardware specification.

For rebated doors, the overall leaf weight should not exceed 120 kg for a two-hinge installation. For centre pivot doors, suitable strength closers must be fitted according to the width, area and exposure of the door leaf. Maximum door height = 3m. Maximum door opening area = 2.8m² Maximum door leaf weight = 90 Kg.

Performance

There are no recognised performance standards for air and water leakage through commercial doors. In keeping with industry recommendations, it is advisable to give special consideration to doors on exposed sites. High wind pressures can cause inadvertent opening of pivoted doors and consequent draughts and water penetration. It may be advisable under such circumstances to provide protection by means of a porch or lobby.

All joints must be coated with Tremco small joint sealant or similar in order to effectively seal the frame assembly from water penetration.