

# System 10 Commercial Door

The Metal Technology Commercial Door System has been designed to act as a single door or as multi-acting doors. In combination with the other Metal Technology Systems, a variety of door jamb and stile formats can be achieved to give the entrance required.



## Specification Overview

### Introduction

The basic suite of profiles comprises main and slave stiles, top rail, mid rail, bottom rail and thresholds. To these can be added additional profiles to meet every possible application, all with the benefits of minimal fabrication.

Glazing options accommodate single glazed through to 28mm glazing units and infill panels. With the double glazed, alternative provision has been made for the outer bead to be secured to the frame, thus enhancing the door's security. A drained threshold option is available, which is designed for general usage.

Where there is a requirement for disabled use, the application should be discussed and confirmed with the relevant Building Control Officer. As with all Metal Technology systems the commercial door system has been manufactured to exacting standards giving the required strength necessary for its heavy usage but with economy, allowing many years of aesthetic trouble-free operation.

### Scope

This specification defines materials, construction, finishes and size limits for the commercial door system.

### Materials

Aluminium profiles are extruded from aluminium alloy 6060T6, T5 or T4 complying with the recommendations of BS EN 12020-2 / BS EN 755 - Parts 1 to 9.

### Finishes

The range of sections can be provided in either of the following ranges of finishes:

1. Anodised to BS EN12373-1 or BS3987
2. Powder organic coated to BS6496 or BS EN 12206-1

It is recommended that threshold sections are always supplied in natural anodised finish particularly where heavy traffic is expected through the door.

### Construction

Frame members are square cut fixed securely together by means of aluminium cleats and stainless steel screws and bolts. Frame joints are sealed during construction against entry of water. Extruded glazing gaskets and woolpiles are provided to resist the ingress of water.

### Glazing

Glass is set against co-extruded (PVC nitrile) gasket externally which is fitted into the bead and an extruded colour coded wedge internally. Setting blocks and location pieces are fitted in accordance with BS6262 in order to ensure the doors are maintained square and rigid.

### Kits

In addition to providing commercial door sections in bar lengths, along with their accessories, Metal Technology can provide standard size or made to measure door and midrail kits.

Standard size locking and slave kits (metal size only) measure 906mm wide x 2120mm high.

Standard midrail kits are to suit the above door sizes. Reference number for standard kits are as follows:

Description	Mill	Satin	White
Locking Door Kit	SD162/M	SD162/S	SD162/W
Slave Door Kit	SD163/M	SD163/S	SD163/W
Plain Midrail Kit	SD91	SD92	SD93
Midrail Kit with Letter Plate	-	SD96	SD97

### Size Limits

	Max. Width	Max. Height	Max. Weight
External Doors	1.05m	2.4m	90Kg
Internal Door	1.20m	3.0m	90Kg

### Installation

Detailed installation instructions are provided in the System 10 fabrication manual which should be strictly followed.

### Performance

Commercial pivoting doors are designed for use at ground floor in moderately exposed areas only. Where the site is exposed or above ground floor consideration should be given to using the commercial hinged door which being fully rebated will offer improved performance.

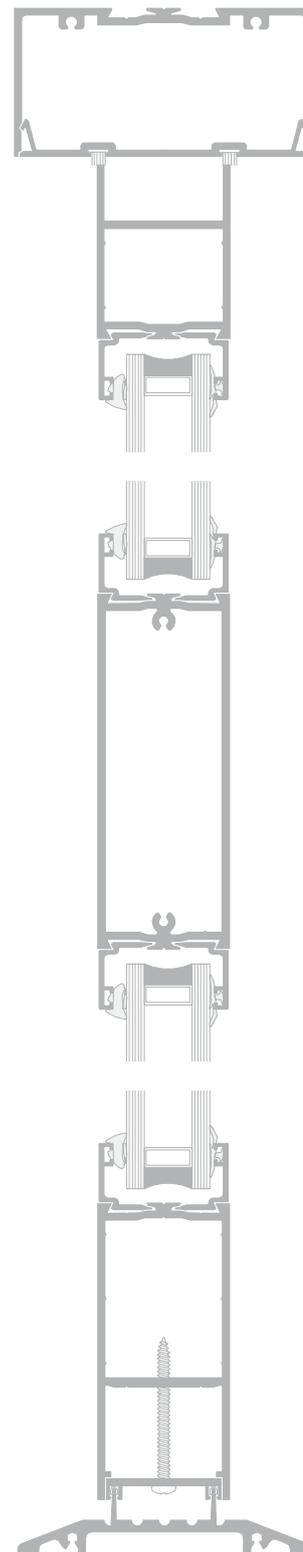
### Maintenance

As with all mechanical products regular "preventative maintenance" is necessary if trouble-free operation is required and it is strongly recommended that such a programme is arranged either with a competent door maintenance company or with the maintenance staff of the building where the doors are installed. Items such as overhead closers, hinges, locks and weather-stripping need regular care to keep them functioning correctly and adjustment is especially necessary in the first few months when the doors are "bedding in".

### Development

Our policy is to continually research the market for new and improved products. We must therefore retain the right to amend specifications without prior notice. It is recognised at Metal Technology that in some instances special sections may be required for particular projects. When this occurs

it may be possible to produce special sections subject to there being sufficient quantity and adequate time.



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