

### Type A - Safety

#### An Overview

Provision should be made to protect users occupying the swept area on all automated swing door applications. Safety devices take many forms and careful consideration must be given to their inclusion in the design of any system. A hazard analysis and risk assessment will determine the extent to which these products are used.

Potential hazards include traffic being struck and/or trapped by doors during both the opening and closing cycles, tripping hazards, congestion and other hazards such as a lack of supervision.



#### At Powered Doors

**Signage** is of particular importance and requirements vary between doors designed for uni-directional and bi-directional traffic.

**Finger guards** overcome potential finger traps created at the heel of the door on both the pull side and the push side.

**Presence sensing devices** are a necessary part of any powered door installation and can be set to interrupt a door's movement at any point during both the opening and closing cycle.

**Barriers** should be included along the line of the door leaf in its open position where doors can be approached from the side.

Refer to BS 7036 part 3: 1996 for definitive guidance on safety at powered doors including **Means of Escape** and **Break-out** facilities.

#### At Low-Energy Doors

Opening and closing speeds on low energy swing door installations are, by definition, adjusted so that the kinetic energy of the door does not exceed the safe maximum (See page 7). This means that of the areas mentioned in the section above (**Powered Doors**) presence sensors and barriers may be considered as an optional resource. All other items should be included.

Refer to BS 7036 part 4: 1996 for definitive guidance on safety at low energy swing doors including **Means of Escape**.

#### Signage

Various signs are recommended for use in different situations. These include 'Keep Clear' signs for use at powered doors, 'Direction of Travel', 'Emergency Break-Out' and 'Automatic Door' signs amongst others. Details of their design and required placement can be found in BS 7036 part 1: 1996.



We can supply signs and will include 2 off (as shown) per operator. If additional signs are required we suggest a specialist signage supplier is used.

#### REL.2000.FG Finger Guard (Push Side Only)

The **REL.2000.FG** incorporates a flexible blind preventing fingers entering the gap between the heel of the door & the frame when the door is open.

The flexible blind is retained within the housing and is exposed only when the door is ajar. Supplied in finished lengths of 1950mm the installation can be cut to suit a desired length where required.



Please be aware that doors incorporating the **REL.2000.FG** are restricted in their opening angle to a maximum of 135° and the operator should be set accordingly.

#### Correct Specification

**REL.2000.FG** - Finger Guard @ 1950mm.

**Door Thickness** - 44mm & 54mm (please specify).

#### Finishes

**US28** - Satin Anodized Aluminium Housing (White PVC).