

## **EFAFLEX HIGH SPEED SPIRAL DOOR**

### **EFA – SST Door**

Document updated Oct 2020

The High Speed Door shall be an EFA-SST High Speed Spiral Door manufactured by EFAFLEX in Germany, and provided through its Australian Partner, DMF International Pty Limited (02 9636 5466 [www.dmf.com.au](http://www.dmf.com.au)), installed and serviced throughout Australia.

The door system is to be custom manufactured to final clear open sizes, and is to be constructed of . . .

A self supporting lateral galvanized steel frames, with a head section incorporating a round spiral shaped door guidance system. As an option, depending on sizing, an oval shaped spiral, or low lintel flat track system is also available.

The Spiral Body is to be so designed to guide the laths of the door panel completely without contact, and thus without wear, providing a smooth and quiet door operation.

The vertical guide rails are integrated out of sight within the vertical frames, and are so constructed for to enable easy access for service and inspections. A sufficiently dimensioned tension spring mechanism shall be fitted within an upright to provide balance of the door leaf, and also to provide manual opening of the door, (in case of power failure). The door is to be fitted with hand lever mounted on the door upright, which will release brake unit and allow door to open manually.

Each door curtain leaf (lath) is manufactured from special double walled profiles which are smooth with no protruding edges or screws and finished in clear anodized (E6EV1) aluminium. Clear vision laths can also be provided using single or double glazed acrylic glass or clear polycarbonate material. Each lath is connected with airtight rubber seals and are fastened by way of large dimensional hinge chains located bilaterally. The application of the drive force also takes place laterally, simultaneously equalled to either side by way of connecting drive shaft. High precision rolling apparatus with ball bearings ensure an exact, quiet and smooth operation of the door panel itself. As an option, door laths may be PU foam filled to provide increased temperature and sound insulation.

The door is to be driven by a high frequency geared motor, with the position of the door permanently detected by means of non-wearing inductive proximity encoder, with the top and bottom limits determined electronically.

The door shall have a maximum opening speed of up to 2.5m/sec, depending on door opening size and spiral shape, with a closing speed of around 0.75m/sec.

The Microprocessor EFATRONIC Control is to be installed together with the integrated frequency convertor in a separate switch cabinet with an IP65 rating. Features include a lockable mains isolator, with a push pad control OPEN-STOP-CLOSE, and an information display of functions and remote diagnosis. The control is also to be fitted with a cycle counter, and a full adjustable stay open timer.

Hard wire connection to be made to an isolator junction box, either 240v single phase or 415v 3 phase with no RCD, depending on application. The Control system is to have the required terminal points to accept a variety of door activation options.

The door is to be fitted with an Electric Contact Safety Edge along with a Safety Photocell, both of which will return door to the open position if activated.

As an option the door can also be fitted with an Infrared Light Line Grid (TLG) located exactly on the door closing line, and offering full protection up to 2.5m above FFL. Any obstruction will be recognized touch free, and will return door to open position if activated. The TLG replaces both the Contact Safety Edge and the Safety Photocell.

#### **AS SUPPLIED BY**

DMF INTERNATIONAL PTY LTD  
SYDNEY AUSTRALIA  
www.dmf.com.au  
sales@dmf.com.au  
Ph +61 2 96365466