ES	Automatic Doors	UNIVERSITY OF LEICESTER

Document Control

Rev	Date	By	Comments
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Design Guidance

1. The University has a variety of automatic doors across the estate to assist users with navigation around the campus and residential properties.

2. All automatic doors must comply with **BS EN 16005**. Operatives must be able to demonstrate competency to the requirements of this standard. Knowledge and understand of BS 8300-2:2018 is beneficial.

3. Automatic doors shall be installed in accordance with the University Of Leicester (UOL) Containment and Power Wiring Accessories Design Guides **ES02** and **ES03**.

4. All installations shall be completed within manufacturer tolerances and in strict accordance with the manufacturer's installation instructions.

5. The selection of an automatic door solution shall consider the individual site environment, fitting location, intended usage, and expected footfall through the entrance.

6. Environment
Activation type selection is critical. Pedestrian traffic in the vicinity of the entrance should be considered when selecting activation devices to prevent nuisance operation and unnecessary door activations.

7. Fitting Location
The suitability of the installation location must be assessed prior to installation. Consideration shall be given to structural integrity, fixing methods, and whether additional strengthening works are required. Door construction materials (e.g. timber, steel, aluminium) shall be considered. Where installation is proposed on a fire door, UOL must be consulted to confirm equipment suitability and ensure the door's fire rating is not compromised.

8. Usage
Consideration shall be given to the way the entrance is used. Locations with lower pedestrian traffic but where users frequently carry items or operate trolleys may require alternative activation methods to improve accessibility.

9. Footfall
High-footfall entrances should utilise motion-based activation. Where motion activation is unsuitable due to environmental conditions or operational requirements, hard-wired push pads shall be used.

10. Push Pads
All push pads shall be hard-wired. An 8-core alarm cable shall be installed between each push pad location and the automatic door operator. Wireless may only be used in exceptions and with UOL agreement. Push pads are to be fitted at a height of between 900mm and 1000mm from finished floor height.

11. Key Switches and Function Pads
All automatic doors shall have a means of controlling operator settings. Control devices shall be installed in an accessible location agreed with UOL.

- Key switches shall be provided with a standard **606 key**.
- Function pads shall include a locking facility or other suitable means of preventing unauthorised tampering.

Sliding and Bi-Fold Doors.

1.Locking Requirements
All sliding and bi-fold door installations shall incorporate electronic locking and be capable of integration with the UOL access control system.

The locking arrangement shall be configurable using volt-free contacts to facilitate changes in operating modes, including but not limited to:

- Two-way operation to exit-only operation.
- Two-way operation to locked mode.

UOL will provide normally open (NO) or normally closed (NC) contacts for integration with the access control system and for remote door release functions.

2. Fire Alarm Interface
All sliding and bi-fold doors shall be interfaced with the building fire alarm system. UOL will provide the necessary fire alarm interface connection.

3. External Entry Control
Momentary external key switches shall not be installed. Entry shall be controlled through the approved UOL access control system.

4. Operations and Local Controls

All doors must have the following functionality; 2-way, 1 way (exit only), Hold open, Part open (winter mode), Locked. Local controls should be fitted in agree location and accessible. This control will be lockable to prevent tamper.

Operator control shall only be available via a 606 key switch or an approved function pad.

5. Pocket Door Locks
Where pocket door locks are fitted, they shall be fitted with suite locks. Or by use of star key.

6. Retro fitting

Retro fitting as known, a means of changing the make and model of a sliding door but maintaining the use of the existing track and trolley wheels is permitted. If the previous standards mentioned can be maintained. If not, a new solution should be sought.

Swing Doors

1. Local Controls
Local controls fitted to swing door operators shall be disabled. Operator control shall only be available via a 606 key switch or an approved function pad. Key switches must have the following functionality, 2way, 1 way, hold open, lock/off.

2. Swing Doors - Fire Doors
Compliance with **BS 7273** shall be considered for any swing door installation located on a fire escape route or forming part of a fire compartmentation strategy. UOL shall be consulted to determine the required compliance requirements.

3. Swing Doors - Access Control Integration
Where access control is installed, or proposed as part of the project, all automatic door activations shall be controlled through the access control system.

The access control system shall provide a single activation signal to the automatic door operator. This arrangement enables:

- Emergency lockdown functionality.
- Remote building opening and closing schedules.
- Controlled out-of-hours operation.

Electronic locking devices shall not be powered by the automatic door operator. All locking devices shall be powered and managed by the access control system.

4. Swing Doors - Operator Arm Selection
Where electronic locking is fitted or proposed, the selection of the operator arm type shall be compatible with the locking solution utilised and the operational requirements of the door.

5. Swing Doors - Double Door Synchronisation
Automatic swing door operators' installations double door sets shall utilise a CAN-bus synchronisation system to ensure coordinated and compliant operation.

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Design Components

Item	Manufacturer	Comments
Operator Sliding and Swing	Record	
Operator Sliding and Swing	Dorma	
Operator Sliding	Tormax	
Activation and Safety	Hotron	
Activation and Safety	Bea	
Activation	Larco	

Framework Contractors

Service	Specialist	Address & Contact Details