TLJ access control

Part of the **TLJ** Group
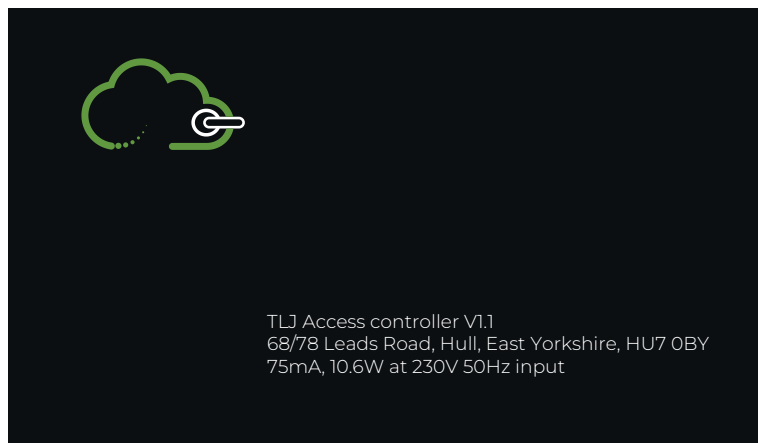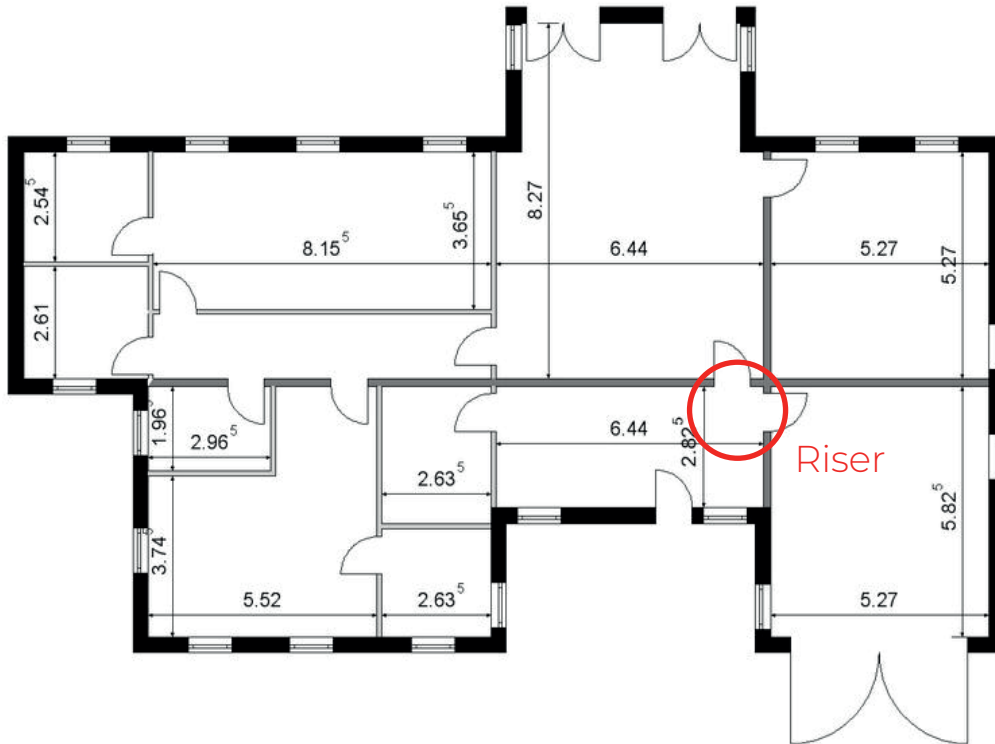
TLJ Access Controller & Reader
M&E Cable Containment

Contents

TLJ Controller Location
The TLJ Access Controller should be located in a seculded area, such as a cupboard, riser or within a suspended ceiling confinement.

Riser

TLJ Access controller V1.1
68/78 Leads Road, Hull, East Yorkshire, HU7 0BY
75mA, 10.6W at 230V 50Hz input

262mm

372mm

TLJ Controller Requirements
The TLJ Access Controller requires the following:

- 230V Fused spur (5 amp)
- Fire Alarm interface (where appropriate)
- RJ45 network socket (only for online controller)

If there are multiple controllers located in the same riser, it may be suitable to utilise the same spur and fire alram interface, however TLJ must be consulted in order to assess total draw. 1 xRJ45 network socket per controller.

TLJ Access controller V1.1
68/78 Leads Road, Hull, East Yorkshire, HU7 0BY
75mA, 10.6W at 230V 50Hz input

TLJ Reader Overview
The TLJ access reader is a wall mounted unit, surface fixed to enclosed bracket. No back box required.

74.5mm

127mm
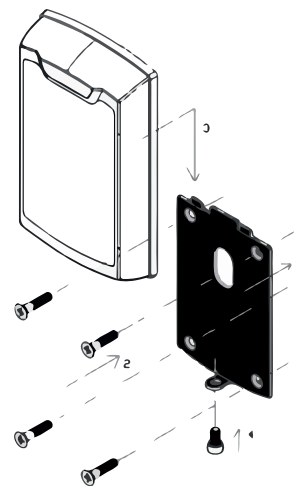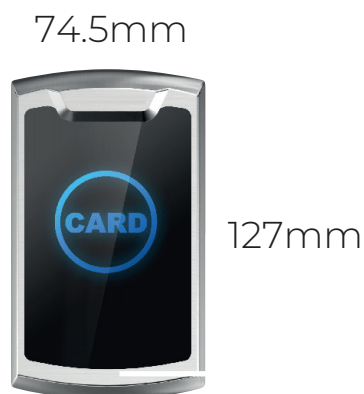
Associated Access Control Equipment
Illustrated below are some associated devices used in access control. Different door types, and different applications require a range of devices. Consult a TLJ engineer for more information.

Electro-magnetic Lock
Various options, including single door, double doors, external, monitored & unmonitored.

Push to Exit Button
Surface or Flush mountable, DDA options.
Single gang back box (25mm Min)
required for flush mount.

Electronic strike/latch release
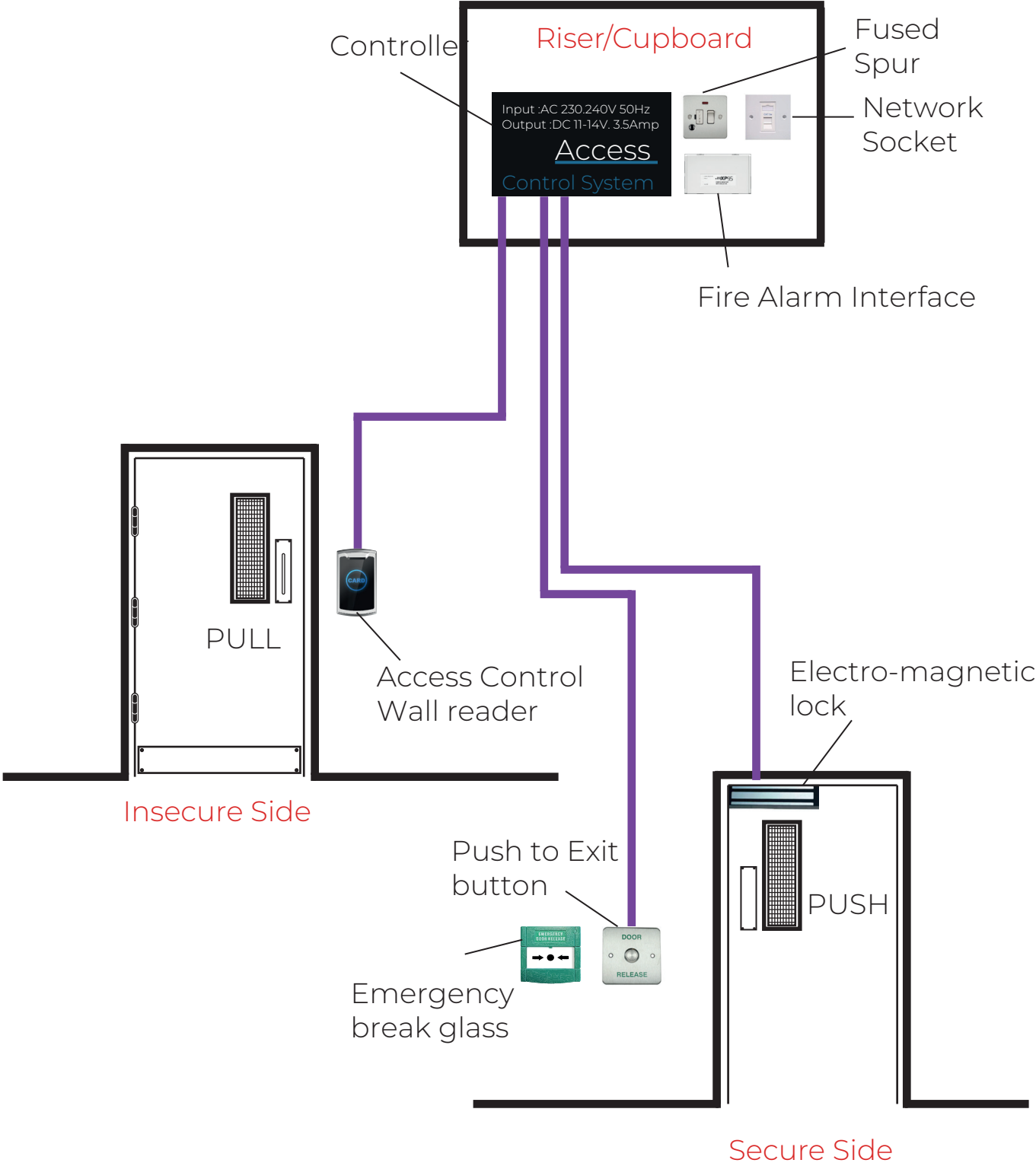Various options, including surface mount, uPVC, monitored & unmonitored.

Emergency door release
Surface or Flush mountable.
Single gang back box (25mm Min)
required for flush mount.

Visual Schematic of equipment layout

Single Door - typical layout from door to riser using an Electro-magnetic lock

Controller

Riser/Cupboard

Fused Spur

Network Socket

Input :AC 230.240V 50Hz
Output :DC 11-14V. 3.5Amp

Access
Control System

Fire Alarm Interface

PULL

Access Control Wall reader

Insecure Side

Electro-magnetic lock

Push to Exit button

PUSH

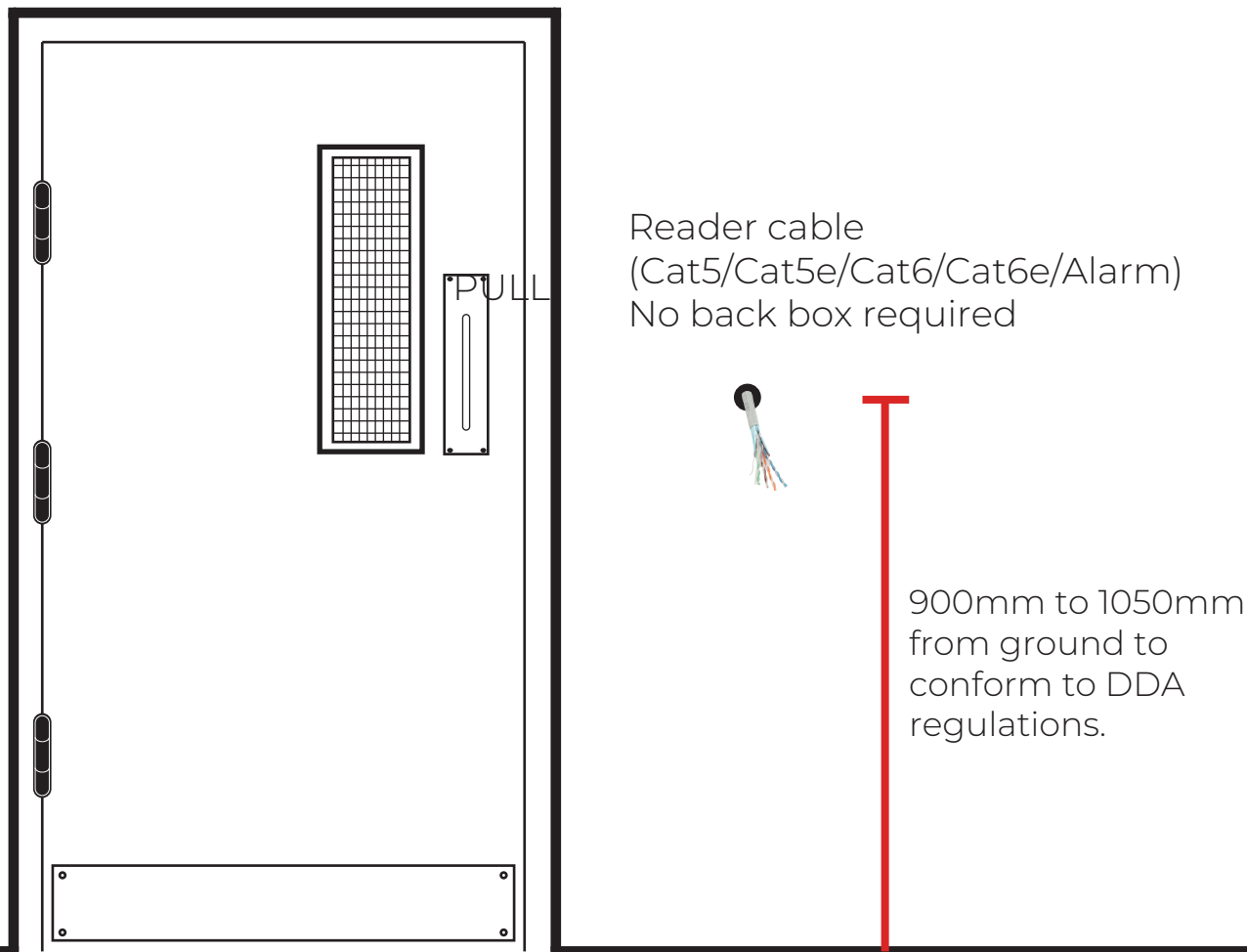Emergency break glass

Secure Side

Page 4

Riser Containment

TLJ's scope is to simply 2nd fix the controller and commission, ensure suitable containment is provided. An example of which is below.

Cable Containment - Single Door, Insecure Side
Illustrated below is the cable containment from the location of the
controller to the door subject to access control. This is valid for
Mag-Lock, Strike/Release Latch & Door Operator configurations.

Single Door
Insecure Side of the door

PULL

Reader cable
(Cat5/Cat5e/Cat6/Cat6e/Alarm)
No back box required

900mm to 1050mm
from ground to
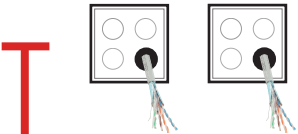conform to DDA
regulations.

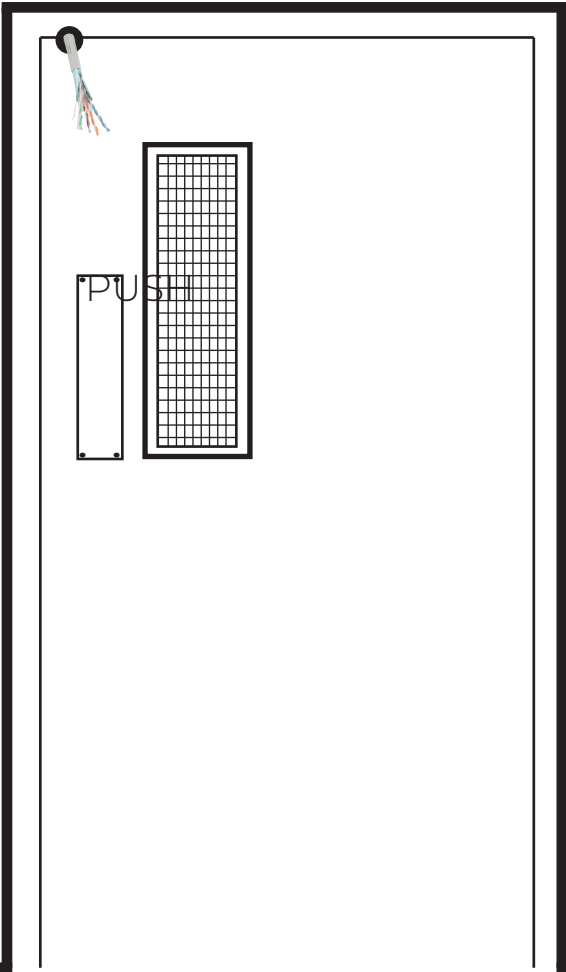Cable Containment - Single Door, Secure Side
Electro-Magnetic Lock

Single Door - Electro-Magnetic Lock
Secure Side of the door

Electro Magnetic Lock
(Cat5/Cat5e/Cat6/Cat6e/Alarm)
Cable to be located on the under side of the door frame
Important - Please see page 14/15 for accurate location

Push to Exit Button &
Emergency Green Break Glass
(Cat5/Cat5e/Cat6/Cat6e/Alarm)
Back boxes required
(min 25mm depth)

PUSH

900mm to 1050mm
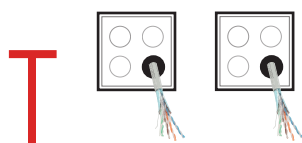from ground to
conform to DDA
regulations.

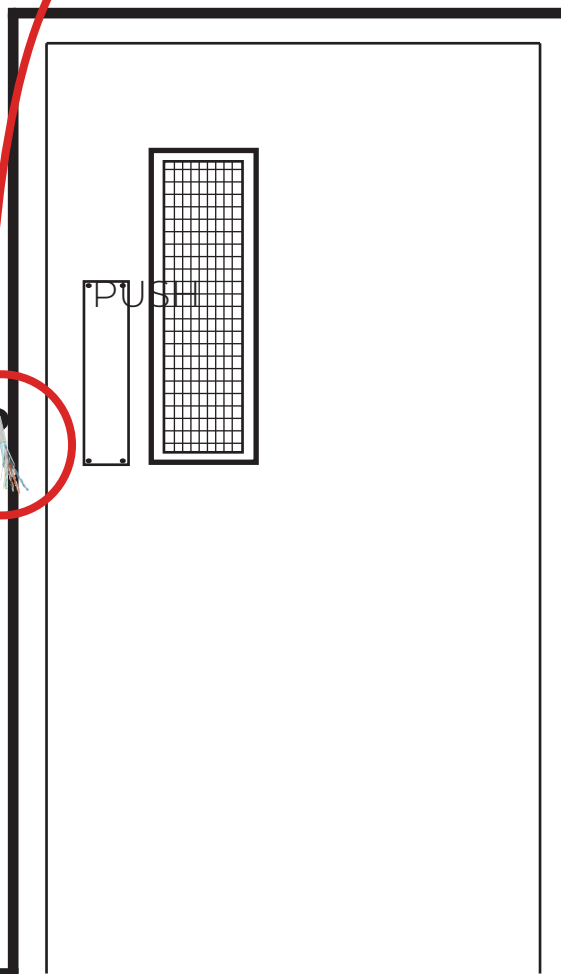Cable Containment - Single Door, Secure Side
Latch Release

Single Door - Electronic Strike/Release latch
Secure Side of the door

Electronic strike/release latch
(Cat5/Cat5e/Cat6/Cat6e/Alarm)
Cable to be located on outside of
door frame - ready to be pulled through
following strike/release latch installation

Push to Exit Button &
Emergency Green Break Glass
(Cat5/Cat5e/Cat6/Cat6e/Alarm)
Back boxes required
(min 25mm depth)

PUSH
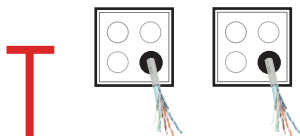
900mm to 1050mm
from ground to
conform to DDA
regulations.

Cable Containment - Single Door, Secure Side
Automatic Door Actuator/Operator

Single Door - Door Operator/Actuator
Secure Side of the door

NO/NC Feed from TLJ Controller to Door Operator
(Cat5/Cat5e/Cat6/Cat6e/Alarm)
Cable to be located into door operator casing/cover
overhead

Electronic strike/release latch
(Cat5/Cat5e/Cat6/Cat6e/Alarm)
Cable to be located on outside of
door frame - ready to be pull
through following strike/release
latch installation

Push to Exit Button &
Emergency Green Break Glass
(Cat5/Cat5e/Cat6/Cat6e/Alarm)
Back boxes required
(min 25mm depth)

PUSH

900mm to 1050mm
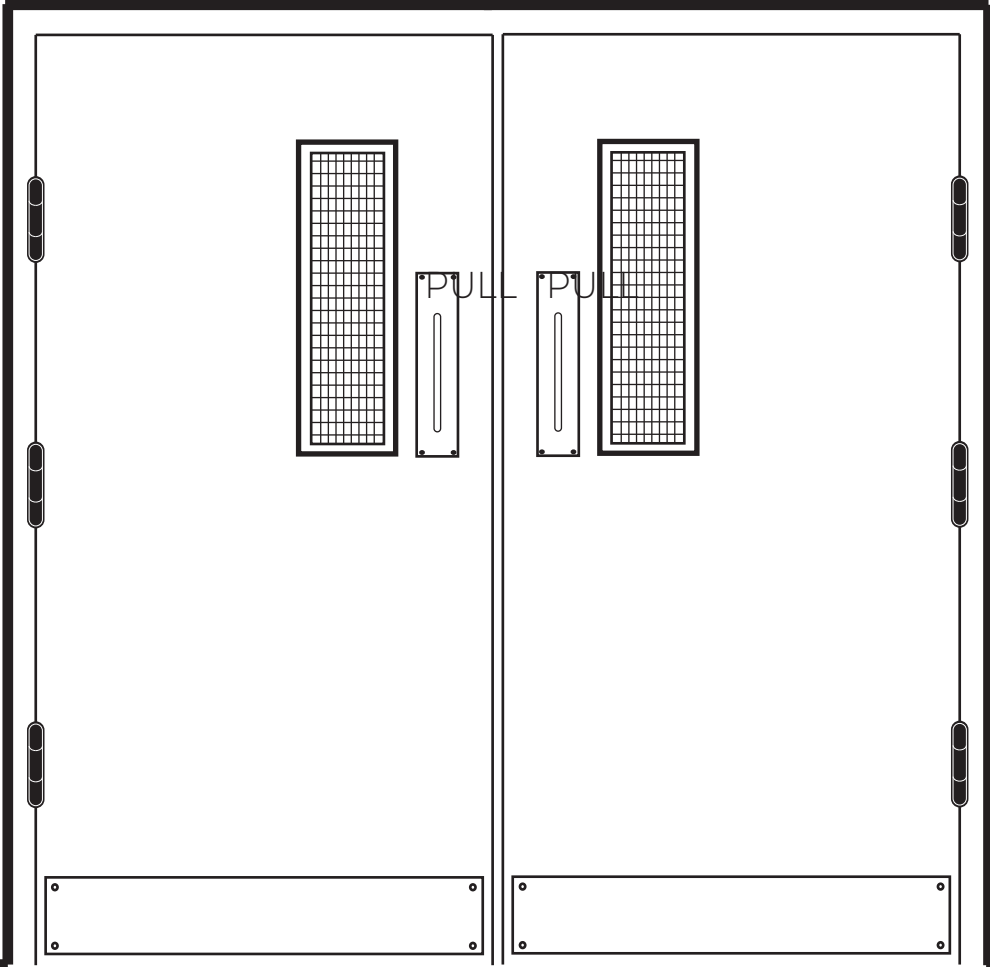from ground to
conform to DDA
regulations.
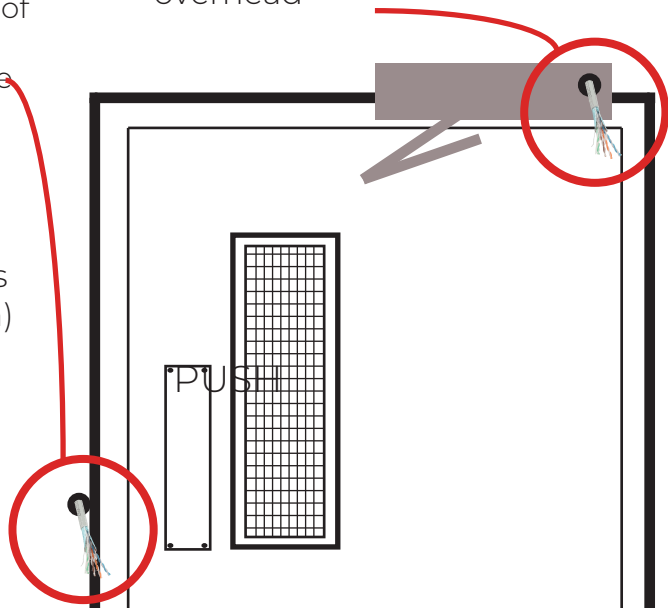
Cable Containment - Double Door, Insecure Side

Double Door
Insecure Side of the door

Reader cable
(Cat5/Cat5e/
Cat6/Cat6e/
Alarm) No
back box
required

900mm to
1050mm
from ground
to conform
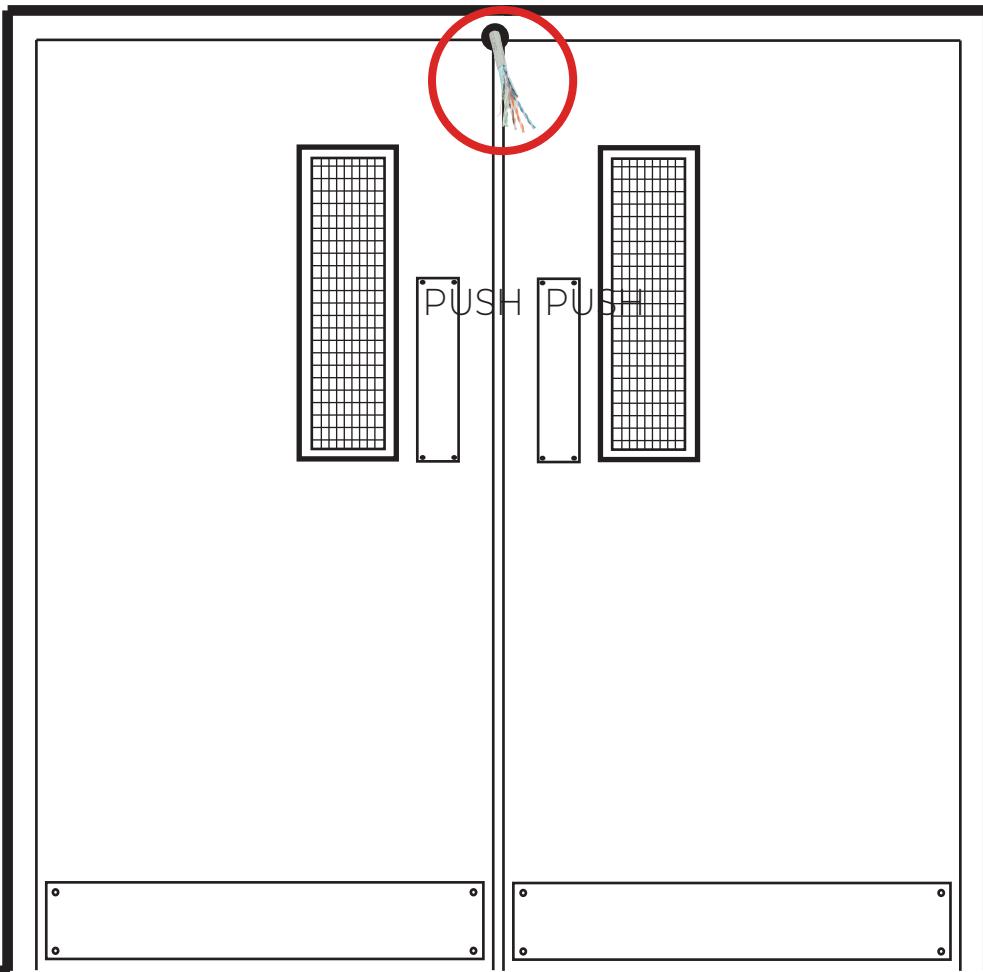to DDA
regulations.

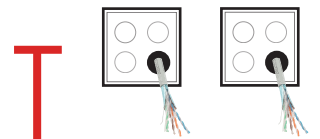PULL   PULL

Cable Containment - Double Door, Secure Side

Double Door
Secure Side of the door

Electro Magnetic Lock
(Cat5/Cat5e/Cat6/Cat6e/Alarm)
Cable to be located on the under side of the door frame
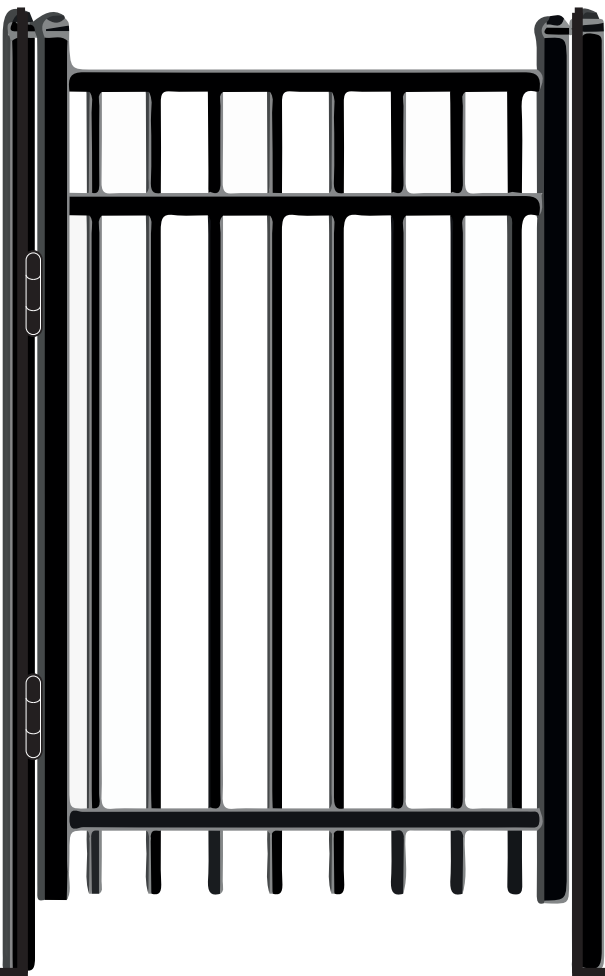Important - Please see page 16 for accurate location

Push to Exit Button &
Emergency Green Break
Glass
(Cat5/Cat5e/Cat6/Cat6e/
Alarm) Back boxes
required (min 25mm
depth)

900mm to
1050mm
from ground to
conform to DDA
regulations.

PUSH PUSH

Cable Containment - External Gate, Insecure Side

External Gate - Not Automated
Insecure Side of the Gate

Reader cable
(Cat5/Cat5e/Cat6/Cat6e/Alarm)
No back box required
If there is no wall to affix the reader,
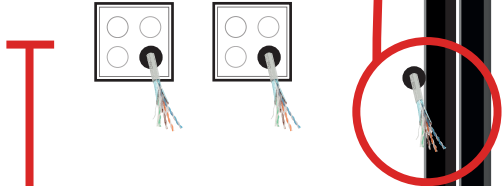utilise a stainless steel post.

900mm - 1050mm
from ground to
conform to DDA
regulations.

Cable Containment - External Gate, Secure Side

External Gate - Not Automated
Secure Side of the Gate

External Electro-magnetic lock
(Cat5/Cat5e/Cat6/Cat6e/Alarm)
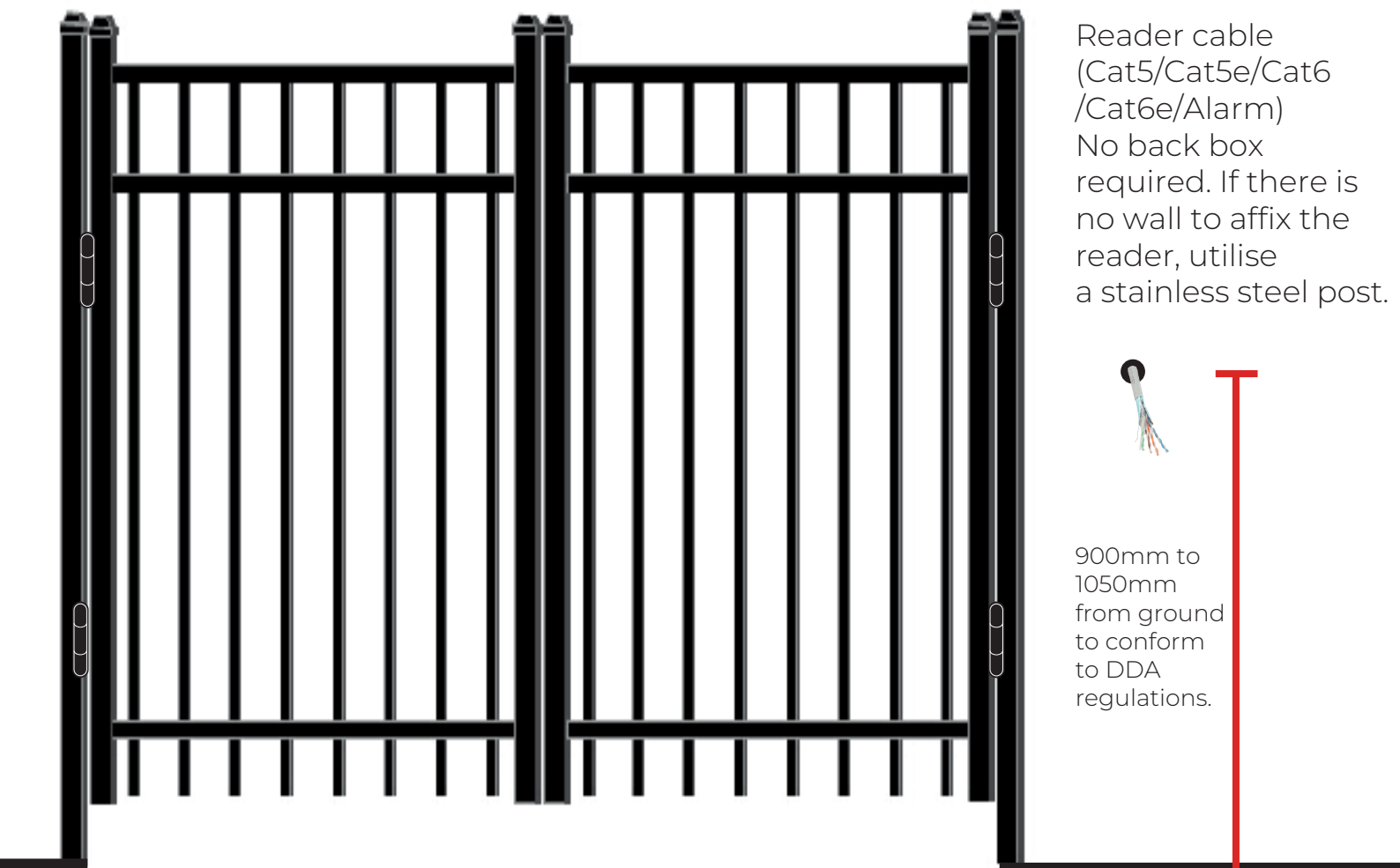Cable to be located on outside of
non-hinged side of gate post

Push to Exit Button &
Emergency Green Break Glass
(Cat5/Cat5e/Cat6/Cat6e/Alarm)
Back boxes required
(min 25mm depth)

900mm to 1050mm
from ground to
conform to DDA
regulations.

Cable Containment - External Gate, Insecure Side, Automated

External Automated Gate
Insecure Side of the Gate

Reader cable (Cat5/Cat5e/Cat6/Cat6e/Alarm) No back box required. If there is no wall to affix the reader, utilise a stainless steel post.
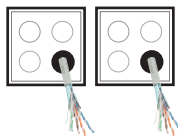
900mm to 1050mm from ground to conform to DDA regulations.
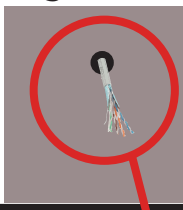
Cable Containment - External Gate, Secure Side, Automated

External Automated Gate
Un-Secure Side of the Gate

Push to Exit Button & Emergency Green Break Glass (Cat5/Cat5e/Cat6/Cat6e Alarm)
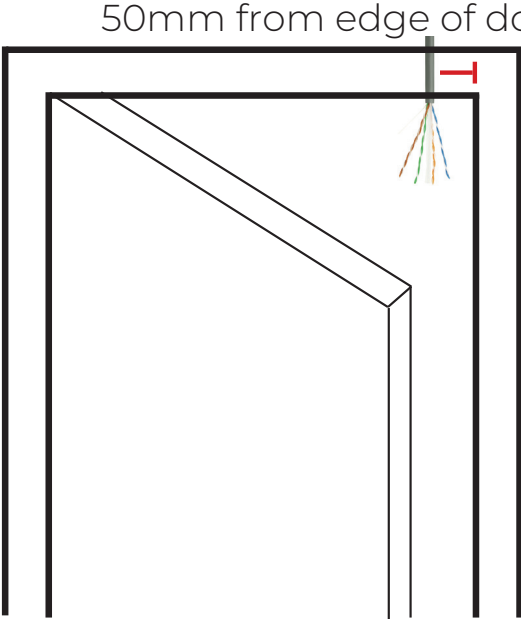Back boxes required (min 25mm)

900mm to 1050mm from ground to conform to DDA regulations.

NO/NC Feed from TLJ Controller to Gate Control Unit (Cat5/Cat5e/Cat6/Cat6e/Alarm)
Cable to be located into control unit housing for termination during installation

Electro-magnetic lock detailed cable location
Left Hinged

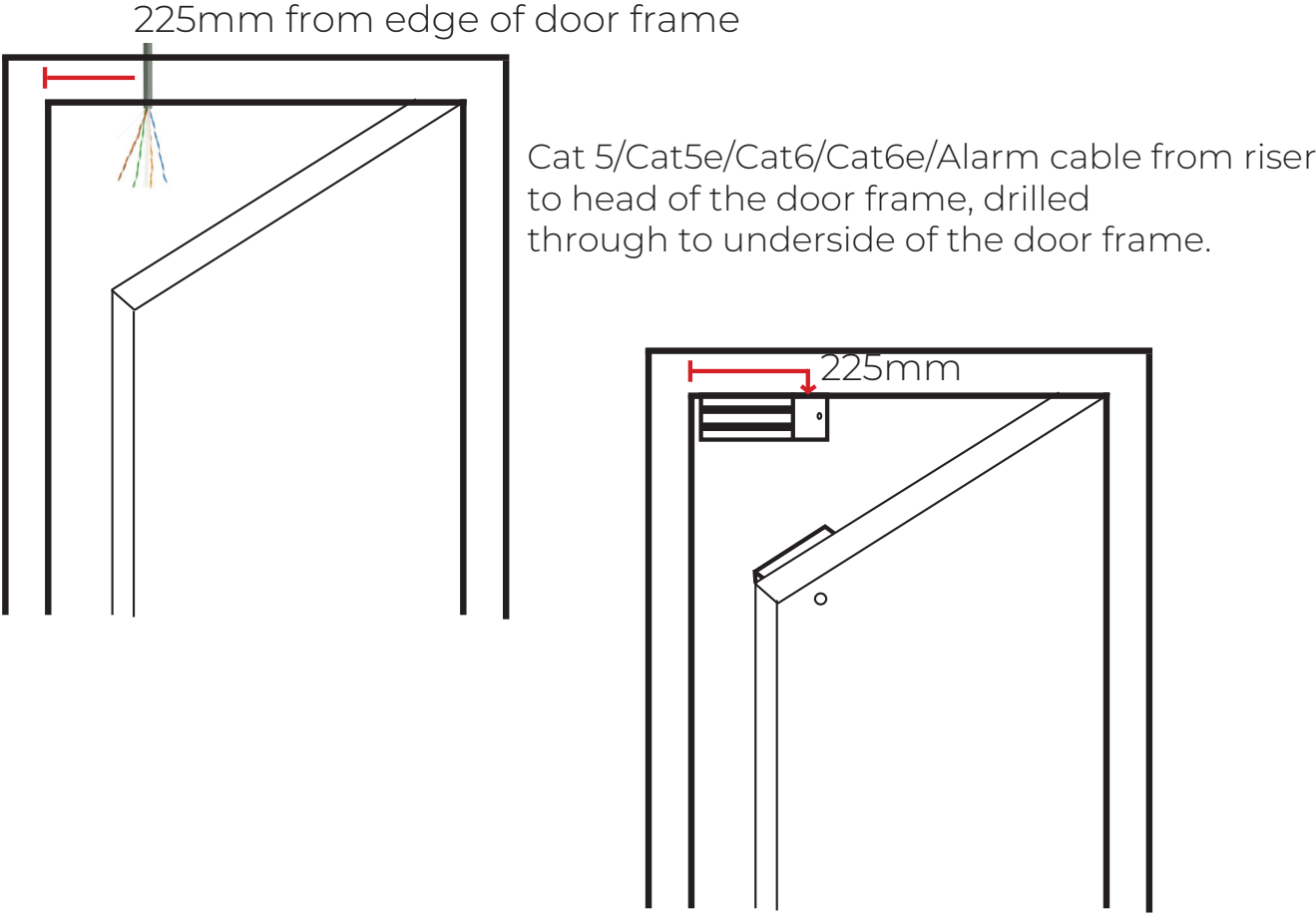Single Door
Viewed from PULL Side of door

50mm from edge of door frame

Cat 5/Cat5e/Cat6/Cat6e/Alarm cable from riser
to head of the door frame, drilled
through to underside of the door frame.

50mm
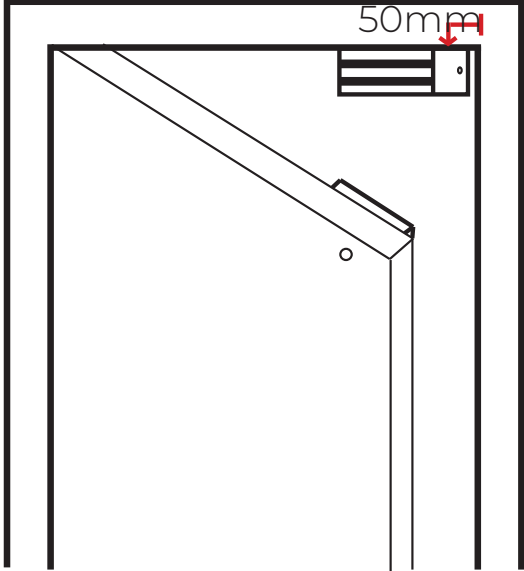
Electro-magnetic lock detailed cable location
Right Hinged

Single Door
Viewed from PULL Side of door

225mm from edge of door frame

Cat 5/Cat5e/Cat6/Cat6e/Alarm cable from riser
to head of the door frame, drilled
through to underside of the door frame.

225mm

Electro-magnetic lock detailed cable location
Double door

Double Door
Viewed from PULL Side of door

Centre of door frame

Cat 5/Cat5e/Cat6/Cat6e/Alarm cable from riser to head of the door frame, drilled through to underside of the door frame.

Centre of door frame
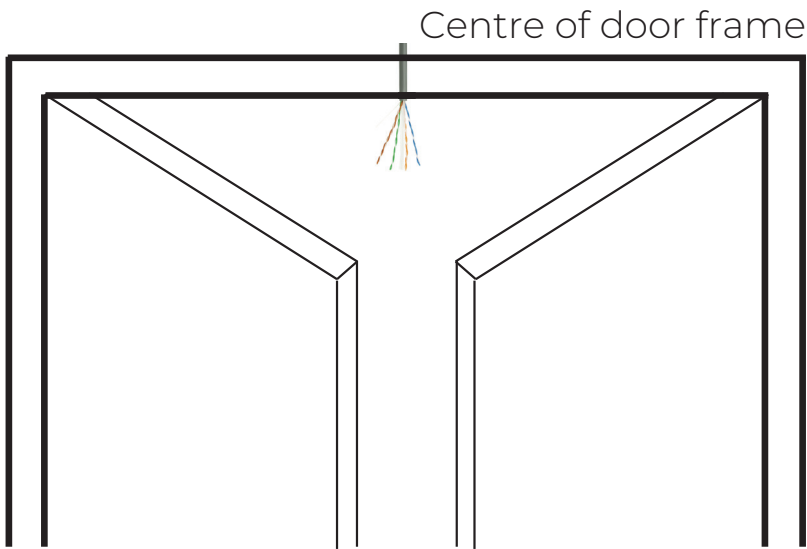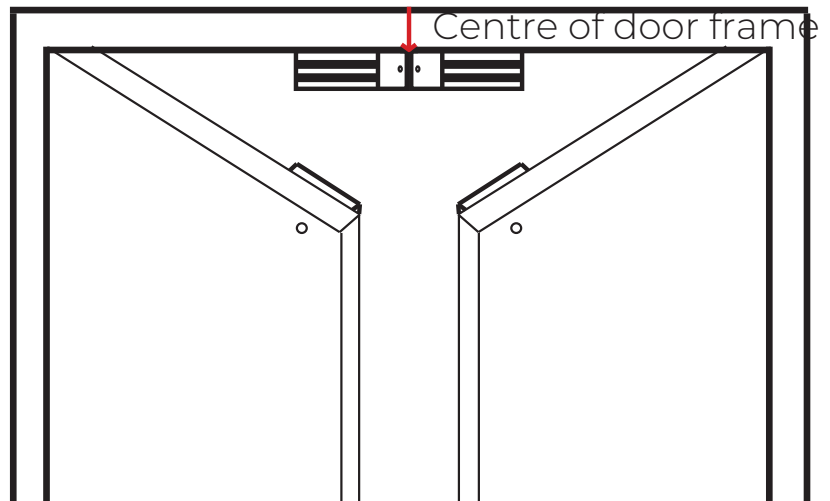
Network Access Points - IMPORTANT NOTE

Ensure the following is in place, as it is critical to commissioning the access control system:

- Network cable or socket for every controller (Labelled)

- The Network cable or socket provided should go back to a patch paenl in the comms cabinet, and be labelled.

- There should be Network Switch with enough available ports, often supplied by student WiFi provder.

- The Patch panel should be Patched by means of patch leads to the provided Network Switch.

- The Access Control PC should also be patched into the very same switch

TLJ access control
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