Landing Doors

Because Powerglide Elevators manufacture a lift car that does not have doors, landing doors must be provided by the builder to the following specifications…

- Any style of hinged leaf door - 40mm solid or hollow timber, 12mm glass etc
- Any width of opening (must be no smaller than 940mm)
- Doors up to 2350mm high can be used as standard as long as the lift shaft ceiling height can accommodate the height of the lift car
- Hung flush with the inside of the door jamb
- Built with 20mm packer on all 3 internal edges of the door jamb as shown below
- Hinged to open outwards, so will not open past 90 degrees
- Powerglide will supply Legge 990 night latch hardware for landing doors (unless the door is solid glass). This hardware is to be fitted by the builder.
- Powerglide will supply a flush door pull for the inside of the lift door, and this is also to be fitted by the builder.
- Powerglide will provide stainless steel door stops for the inside of the lift shaft to stop the door swinging into the lift car. Powerglide will supply these with the builders kitset but these can be

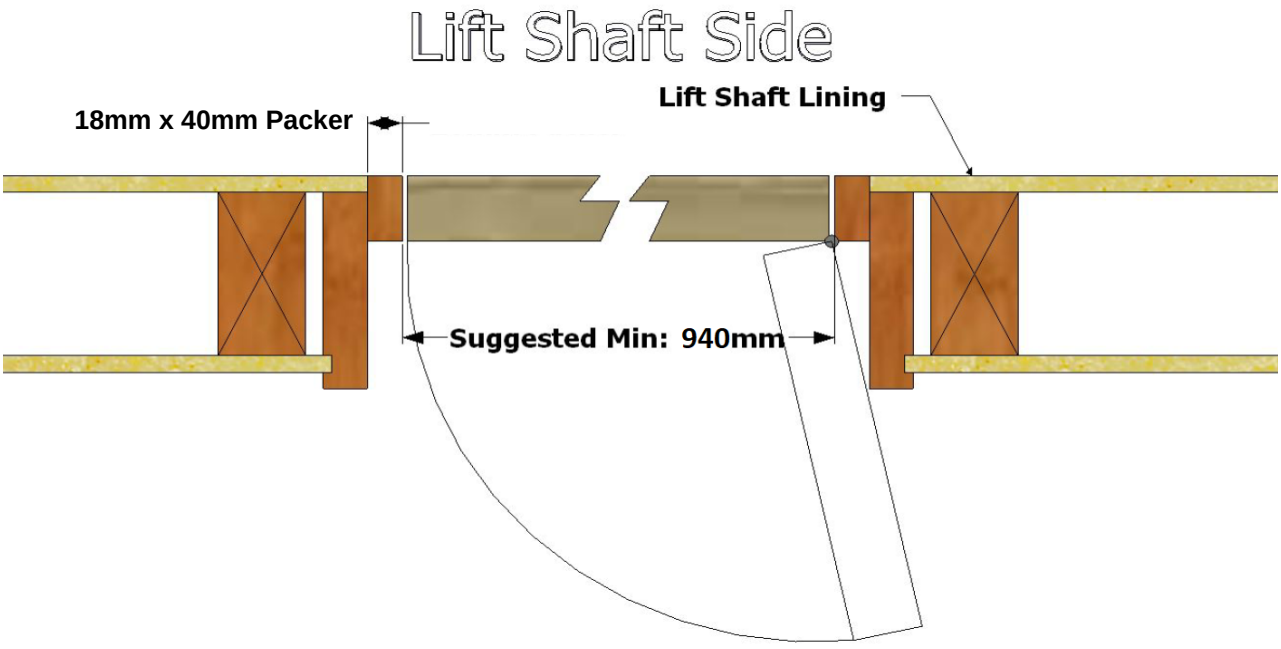


Figure 6 – Timber Landing Door Plan View

Figure 6 shows the suggested method for lining up to the door jamb on the inside of the lift shaft. However, any method that achieves a flush surface on the inside of the shaft is acceptable.

The 20mm packer on the opening side is for the electric door strike (see figure 7) and reed switch (see figure 8) to be fitted.

If a glass shaft and door is to be used, please contact Powerglide Elevators for details on glass door preparation.

Powerglide Elevators will send a builders kit that will contain the night latch door hardware, a sample door strike, flush door pulls, stainless door stops and flush boxes.

Door Strike Preparation: The door strike is to be fitted flush with the 20mm packer, as shown. This needs to be lined up with the night latch hardware at a height of approximately 1000mm off the floor. The 20mm packer should be cut out to be flush with the jamb to allow the latch to pass easily through the strike (see inset above)

Reed Switch Preparation: The reed switch and magnet both require a 3/8" (9.5mm) hole into which they will fit tightly and be held in place. Powerglide Elevators will drill these holes and fit the reed switch and magnet.

Although Powerglide Elevators will install the reed switch and magnet, allowance must be made to run the wire from the reed switch to the call button, as shown.

In the case of a timber shaft, if the lining is left off or removable, this job very easy.

In the case of a block or concrete wall, a hole must be drilled behind the door jamb through the concrete or block so we can feed the wire through to the call button. This hole should be no smaller than 9.5mm.

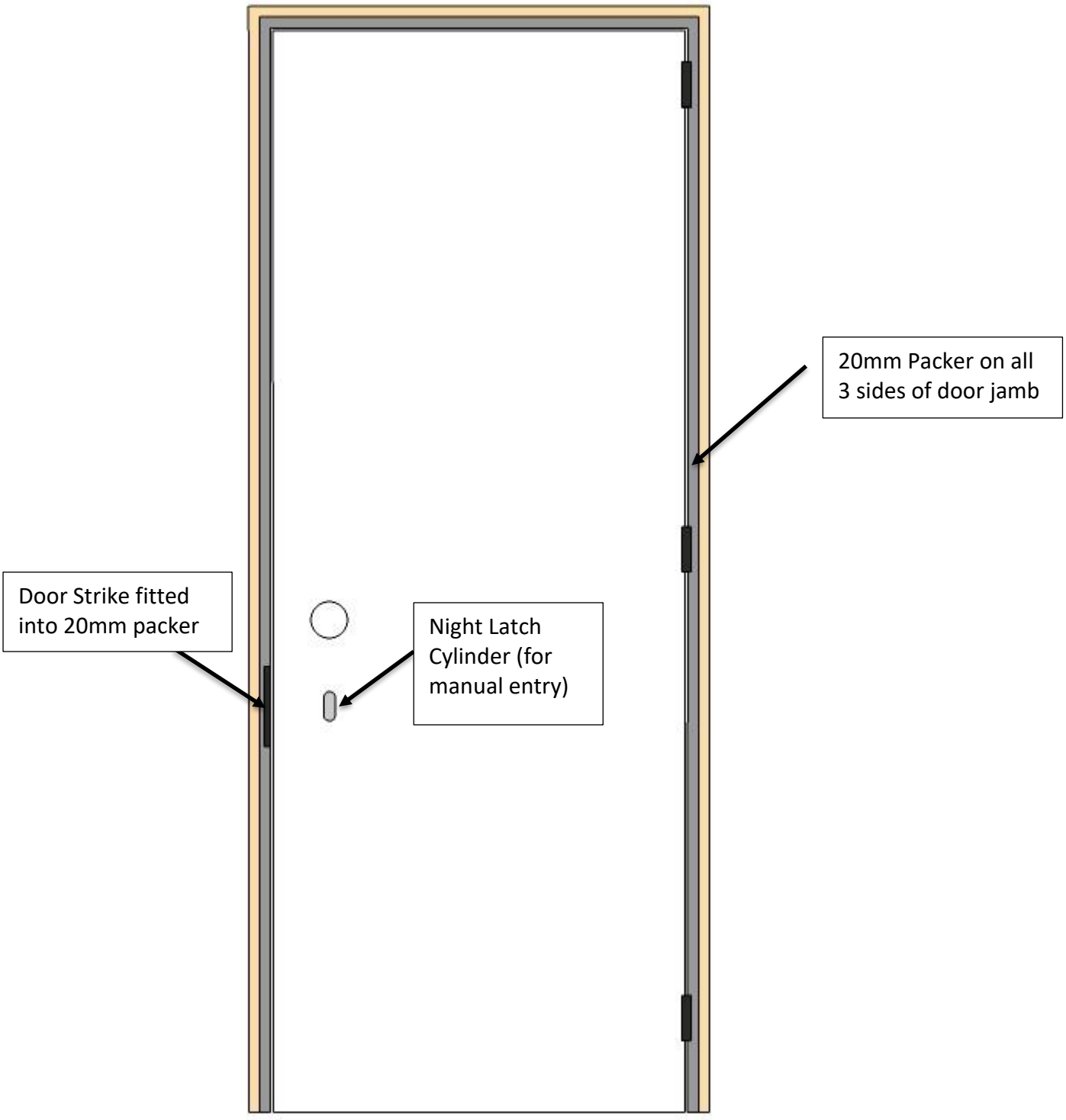
Powerglide Elevators will fit the reed switch approximately 50mm above the door strike, so any hole behind the door jamb for the wires should be at the same height.

Flush Box Preparation: The flush box is to be fixed to a stud at a height of approximately 1100mm off the floor.

Wire Hole Preparation: A 20mm hole should be drilled through the centre of the door strike cavity and through to the void behind the door frame as shown. Powerglide will connect the wires from the door strike to the call button through this hole, as shown in figure 7.

Door Stop Installation: The door stop is provided by Powerglide and slides in behind the door strike using the door strike fastenings to hold it in location

Basic Door and Door Jamb Preparation



Additional Door Requirements for Commercial Disabled Access

The NZ Building Code standard of NZS4334:2012 calls for a vision panel in the doors of commercial disabled access elevators. Figure 9 below shows the minimum size of these vision panels…

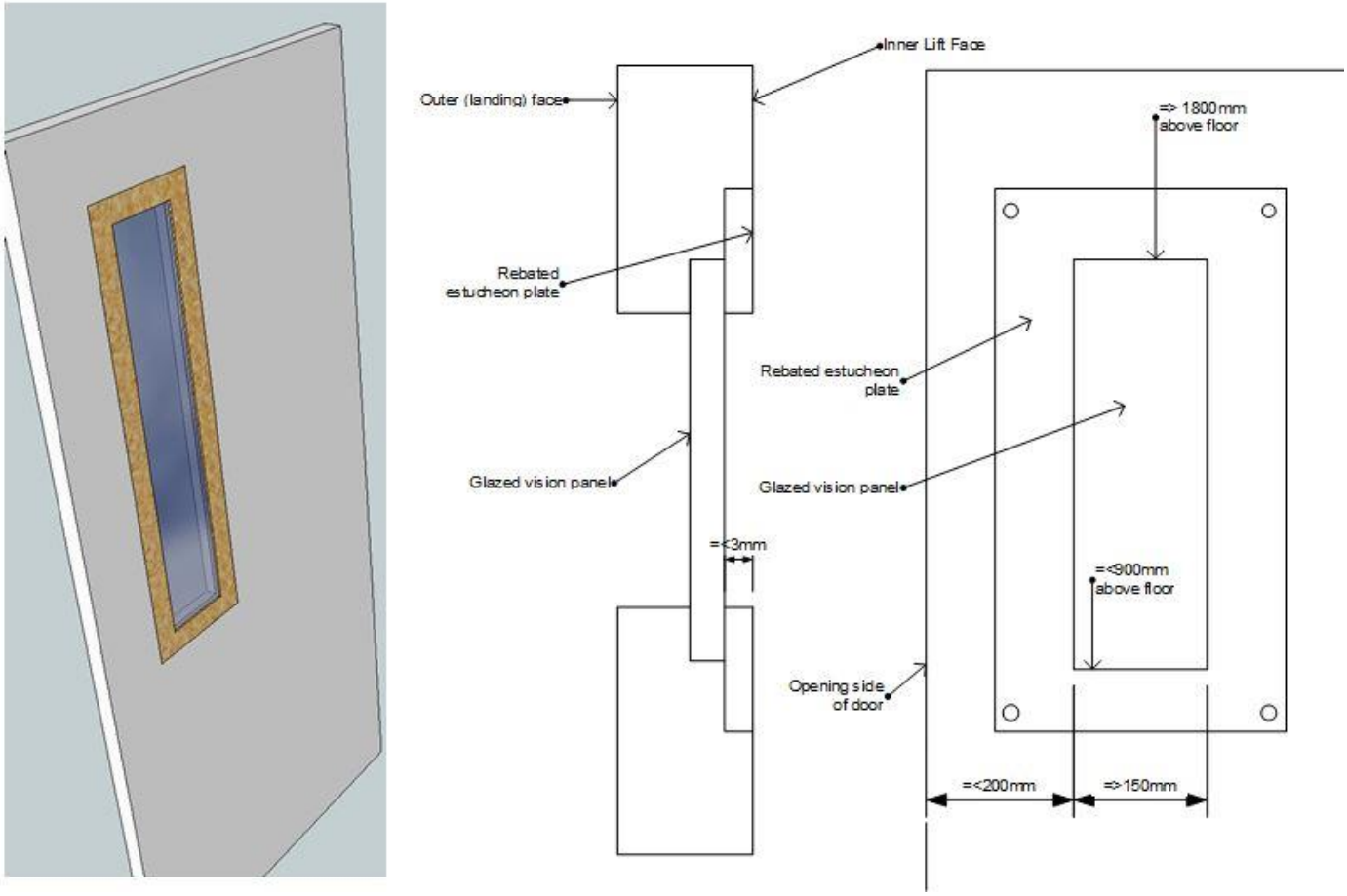
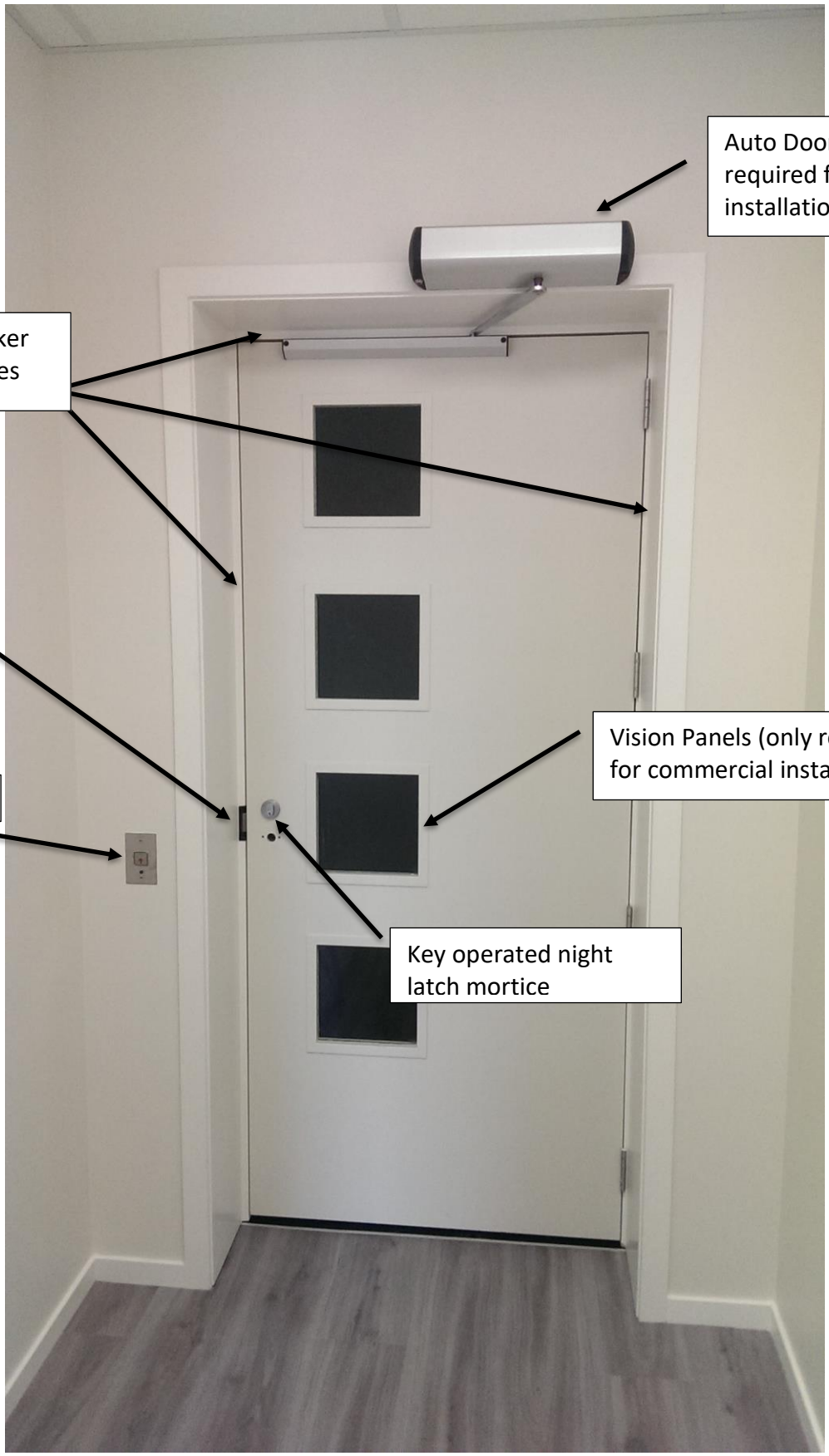
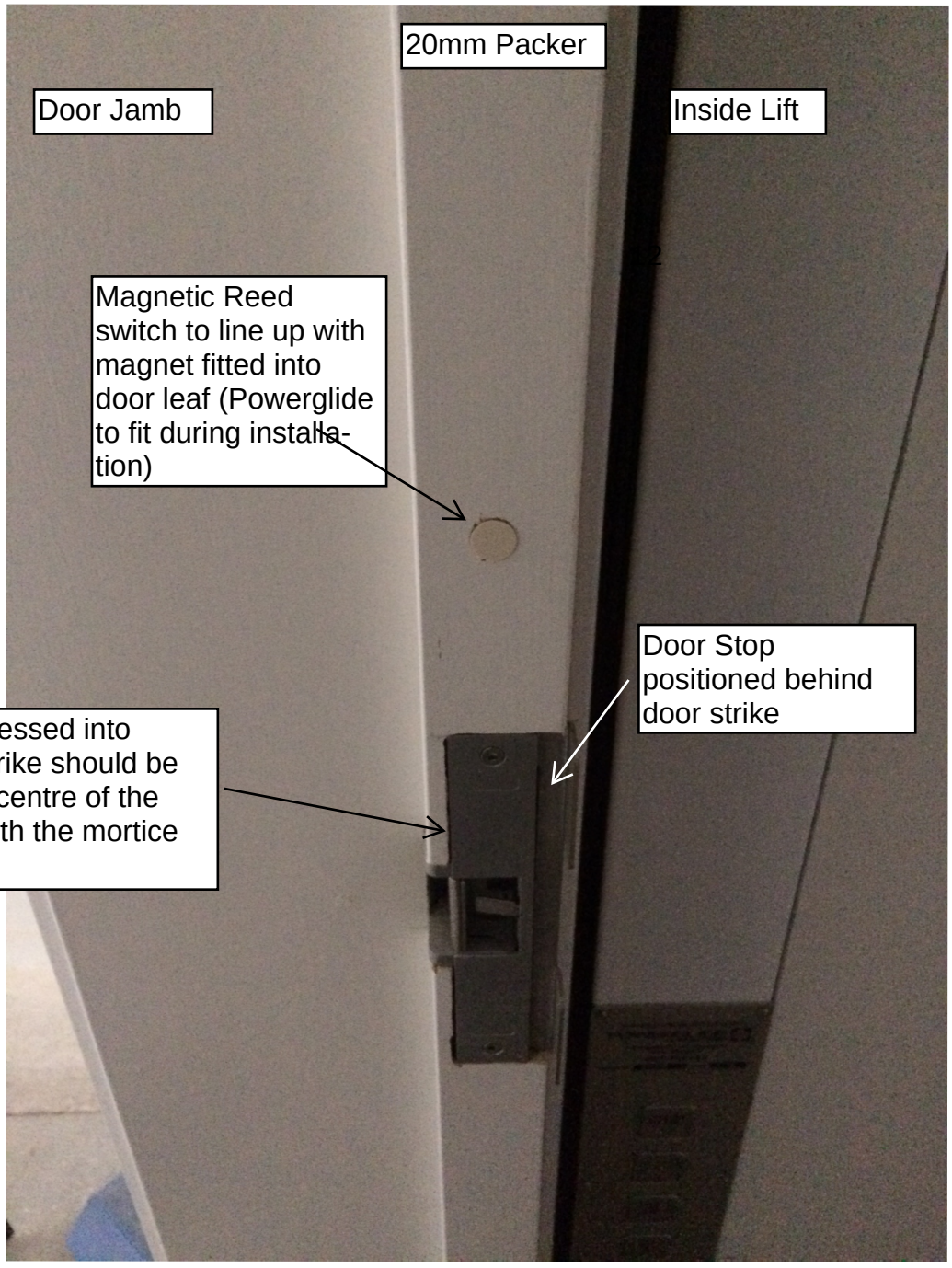


Figure 9 – Disabled access vision panel

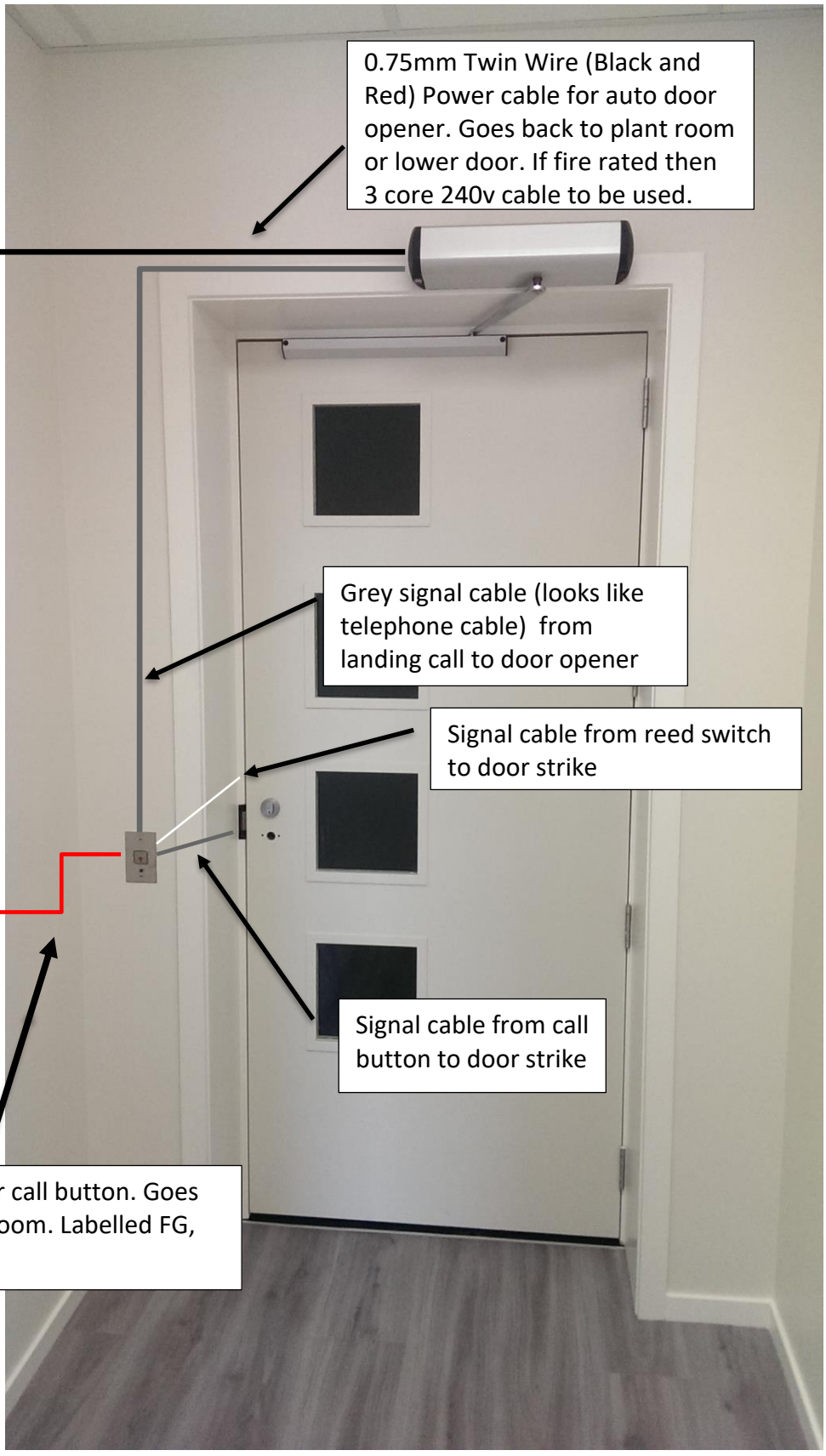
Important! The NZS4334:2012 standard also calls for automatic door openers and closers. Powerglide will include the cost of the supplying and fitting these door openers, but solid doors are required for the mounting of the door opener brackets (see page 10)

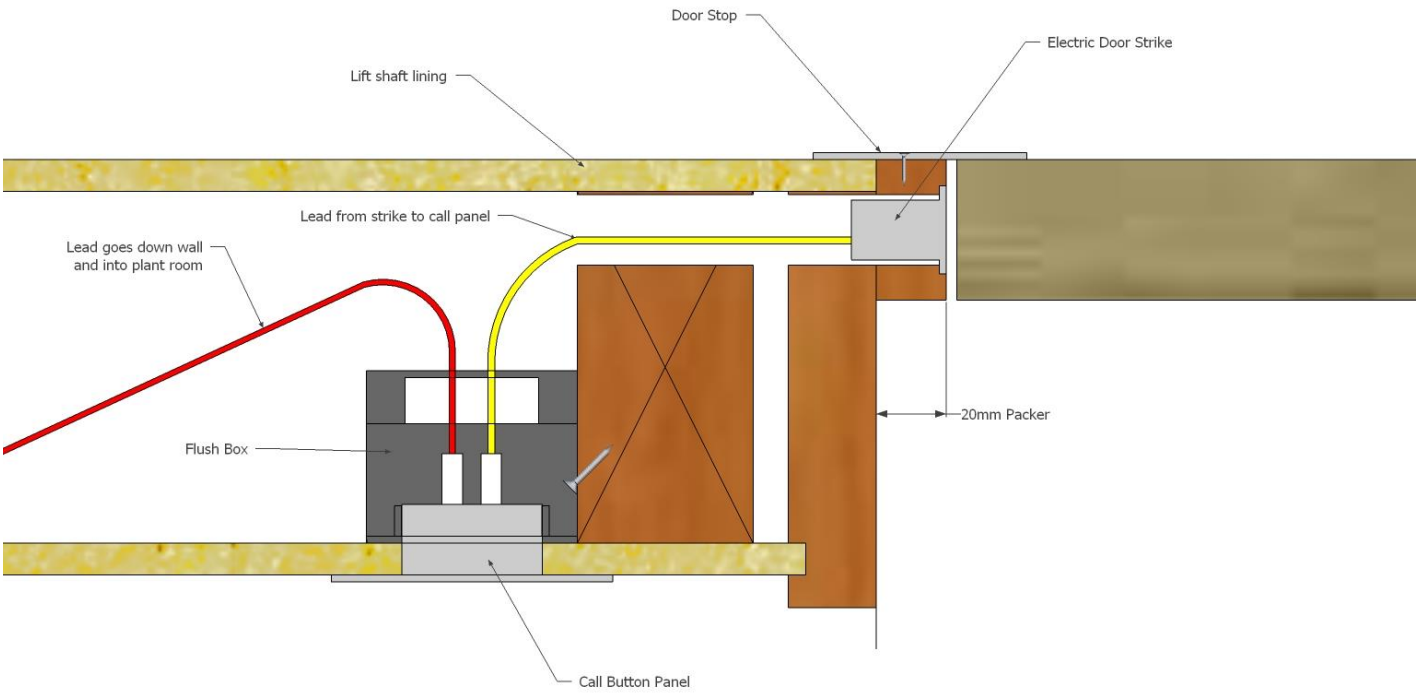
POWERGLIDE ELEVATORS



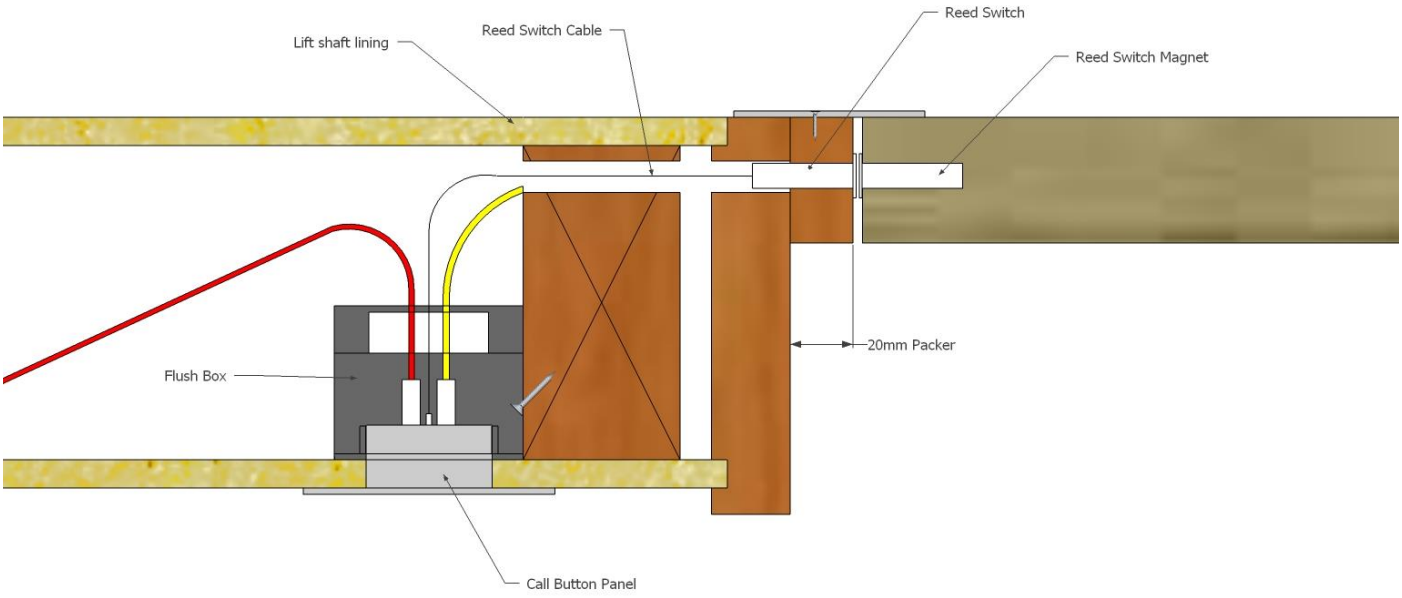

20mm Packer
Door Jamb
Inside Lift
Magnetic Reed switch to line up with magnet fitted into door leaf (Powerglide to fit during installa-tion)
Door Stop positioned behind door strike
Electric strike recessed into 20mm packer. Strike should be positioned in the centre of the packer to align with the mortice latch

POWERGLIDE ELEVATORS





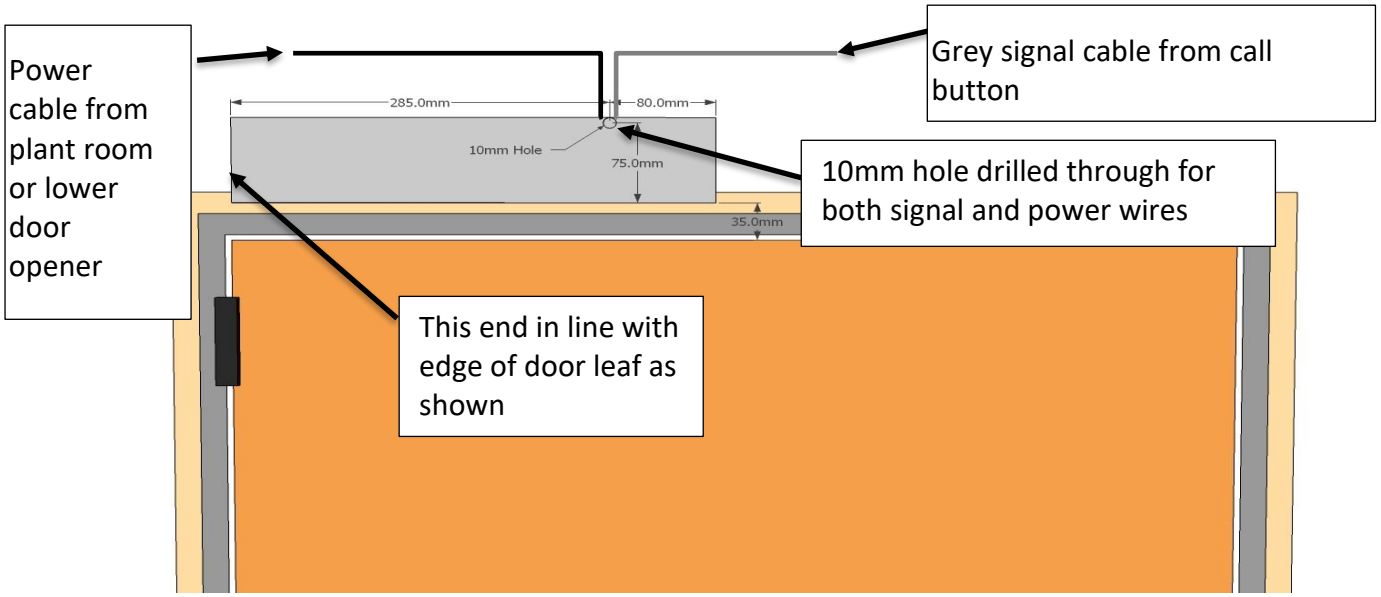
Door Frame and Jamb Preparation for Door Strike



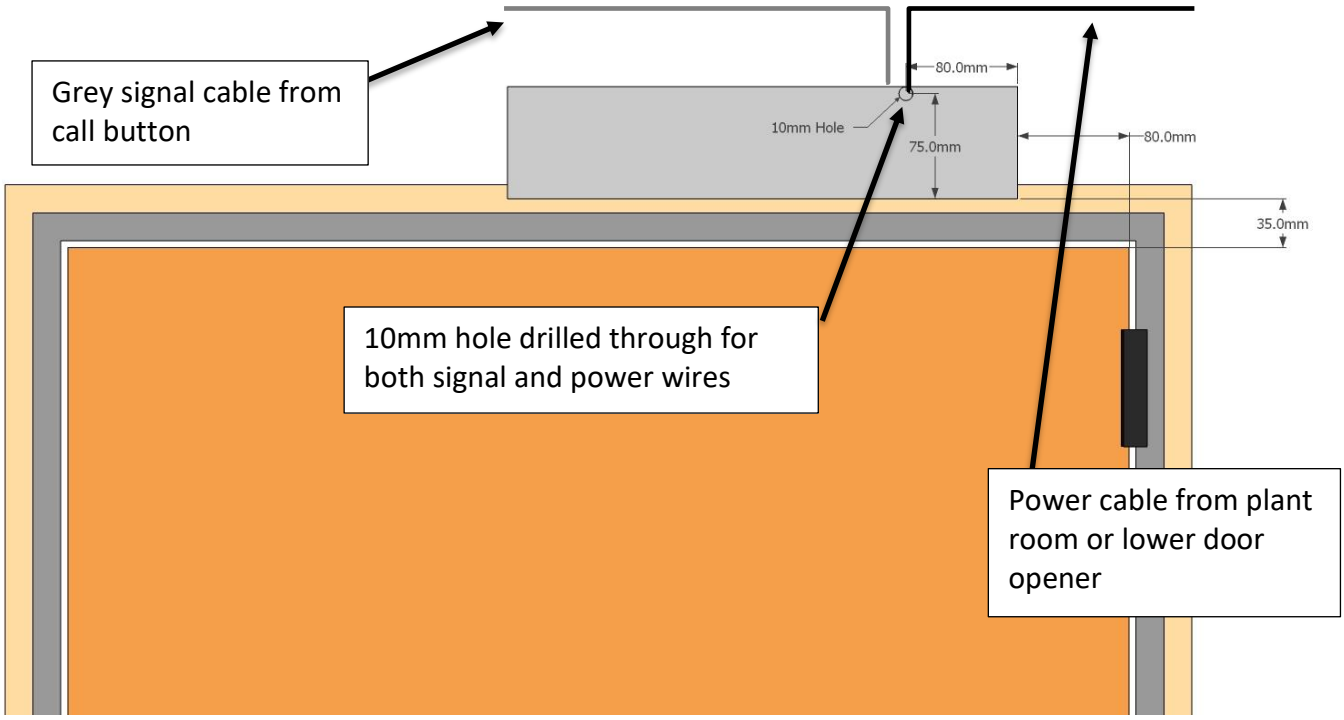
Door Frame and Jamb Preparation for Reed Switch (above Door Strike)

POWERGLIDE ELEVATORS

Left Hung Door with non fire rated Door Opener



Right Hung Door with non fire ratedDoor Opener



Side Section showing Auto Door Opener Fitted