Door leaves shall have a mid rail not less than 200mm wide, and shall be glazed with safety glass.

Framing shall have an anodised finish not less than 20 microns thick to both doors and frames.

All building entry doors shall be glazed doors.

Doors leaves exceeding standard sizes must be fitted with appropriate hinges, closers, etc. to accommodate the door weight and to prevent movement and misalignment. Preference is for a single door leaf with a side light rather than a pair of doors.

Double action swing doors shall not be permitted.

Sliding doors shall be used for all main exit/entry doors fitted with an automatic opening/closing mechanism.

At least one external door to each building should be fitted with an approved automatic opening and closing device. This door or doors shall also be linked into the Electronic Access Control system.

Viewing panels in laboratory doors shall have '3M Ultra 400 Series' security film applied as previously described in Clause 10.09 of

11.07 Locks

Except where otherwise scheduled, the requirements for door locking are as follows;

Mechanical locks/latches shall be 'Dorma ST9600' or 'Lockwood 3P70' dead latching series. All locks must be of the same manufacture, and mixing lock brands within the same building is not desirable. In refurbishment projects, the lock brand used must match the existing lock brand throughout the building;
Locks shall be mounted such that the strike is 1000mm above finished floor level except where an indicator bolt is fitted to toilet entry doors.
No locks are to be mounted in the bottom rails of doors.
All locks shall have cams which prevent over 90 key rotation wherever possible.
Doors to fire isolated stairs are to be fitted with 'Boyd Roller Bolts No. RB1/1' (stainless steel roller) to the top edge of -/120/30 fire doors in accordance with CSIRO Certificate of approval No. 192.

Electric locks shall be:

Electric locks shall be '*Fail Safe*' or '*Fail Secure*' if on an external door and activated by the building Fire Alarm System, as determined by CLF. If the internal and external handles are secure, a key override must be installed on both sides, however if the inside handle is free and the outside handle is secure, a key override is to be installed on the outside only unless otherwise advised by the Security & Traffic Manager.
Mortice locks and magnetic locks shall be as nominated in Appendix 1 of the *'Griffith University Electronic Security Systems Specifications & Installation Guidelines'*.

Note: Drop Bolts are not to be installed in the mid rails of aluminium doors.

Where electronic locks are installed, any required card readers shall be located so as to be accessible to people with disabilities, and where possible installed on a solid or sheeted walls and not on glass walls with thin (less than 75mm wide) aluminium mullions.

When installing electronic or magnetic locks, the Contractor shall provide the following for connection to the EAC system by an approved specialist Sub-Contractor;

Conduit access to from the card reader position to an access point in the ceiling space.
Conduit access from door frame head to ceiling space for magnetic locking devices.
Conduit access from the electric locking power transfer device to an access point in the ceiling space.

11.09 Door Closers

Surface Mounted door closers shall be provided to entrance doors, external doors, internal doors from general office space to public corridors, lecture theatre doors and doors to all teaching spaces, plant rooms, toilets, air-locks and fire doors. Closers shall not be mounted on the outside face of the door leaf.

Closer type shall be 'Dorma TS 73' with hold open and delayed action controls for disabled access as directed. Non hold open door closers shall be provided between all air conditioned spaces and non-air conditioned spaces, except for individual staff offices. Non hold open door closers shall be provided for all electronically locked doors, unless specified otherwise by the Security & Traffic Manager. A mounting plate is to be used when mounting door closers on aluminium doors.

Care shall be taken to ensure that closers do not puncture wall linings when the door is opened.

When mounting door closers in conjunction with acoustic seals, provide suitable mounting packers to keep the arm of the door closer clear of the seal. In all cases screws are not to penetrate glazing beads or acoustic seals.

Note: All outward opening doors shall have parallel arms and inward opening doors shall be regular arms.

11.10 Electro Magnetic Hold-Open Devices

Electro magnetic hold-open devices (EMHODs) as required shall be 'Dorma' type and be provided to all fire doors in high traffic areas and all fire isolated stairs used for circulation. These shall be activated by the Building Fire Alarm System, and be mounted at 1800mm above finished floor level near the leading edge of the door.

Where fitted to external doors, Electro magnetic hold-open devices will be linked to the EAC system for time controlled lock down of the building.

11.11 Kick Plates

Kick plates, where required, e.g. toilets, shall be 0.9mm satin stainless steel, screw fixed with countersunk head screws. Where timber doors are subject to excessive damage from trolleys etc, the stainless steel kick plates shall be provided and shall extend to the top of the door furniture.

11.12 Door Stops

To any door where the door may strike a wall, provide an aluminium and rubber door stop, floor/or wall mounted, in a position that will allow full access clear of door furniture.

11.13 Cabin Hooks

Cabin Hooks shall be provide4(v)-7.1(i3rei.d2(/TT4 1 tBu)-6.5(r(e)-6.5(4(v)-)-7.1(to)-7.1(doors)-13.1( )-7.1(w)1078(i)-7.5(tHo)-6