

0458P ASSA ABLOY AUTOMATIC DOORS

Branded worksection

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Worksection abstract

This branded worksection *Template* is applicable to the supply and installation of ASSA ABLOY automatic doors for commercial installations including contactless revolving, sliding, swing and folding models. These models suit hospitality, transportation, healthcare and retail applications.

How to use this worksection

Customise this worksection *Template* for each project. See A guide to NATSPEC worksections (www.natspec.com.au) for information on *Template* structure, word styles, and completing a worksection.

Related material located elsewhere in NATSPEC

If a listed worksection is not part of your subscription package and you wish to purchase it, contact NATSPEC.

Related material may be found in other worksections. See for example:

- *0451 Windows and glazed doors.*
- *0453 Doors and access panels.*
- *0455 Door hardware.*

Related branded worksections by ASSA ABLOY:

- *0455p ASSA ABLOY door hardware.*

Documenting this and related work

You may document this and related work as follows:

- Coordinate aluminium finishes with *0451 Windows and glazed doors.*
- Show dimensions, locations and elevations on drawings and a door schedule to your office documentation policy.
- Coordinate electrical requirements with the electrical consultant.

The *Normal* style text of this worksection may refer to items as being documented elsewhere in the contract documentation. Make sure they are documented.

Specifying ESD

The following may be specified by retaining default text:

- Re-use of recovered hardware.

The following may be specified by including additional text:

- Recycled material content, e.g. steel, brass, aluminium.
- Selecting products, if chrome-plated, using the trivalent instead of hexavalent process.
- Door closers for self-closing doors to minimise air leakage.
- Selecting durable products for low maintenance and to extend material/product life cycle.
- Selecting electronic access control products using reduced energy in operation.

Refer to the NATSPEC TECHreport TR 01 on specifying ESD.

1 GENERAL

ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience. Under the iconic brands such as Interlock, Lockwood, Whitco, Yale and Record, ASSA ABLOY Australia has long been developing innovative products. In the growing electromechanical security sector, the Group has a leading position in access control, identification technology, automatic doors and security.

1.1 RESPONSIBILITIES

General

General: Provide **ASSA ABLOY** automatic door systems, as documented.

Documented is defined in 0171 General requirements as meaning contained in the contract documents.

1.2 COMPANY CONTACTS

ASSA ABLOY technical contacts

ASSA ABLOY: www.assaabloyentrance.com/au/en/contact-us

Record Doors: www.recorddoors.com.au/en/contact

1.3 CROSS REFERENCES

General

Requirement: Conform to the following:

- 0171 General requirements.

0171 General requirements contains umbrella requirements for all building and services worksections.

List the worksections cross referenced by this worksection. 0171 General requirements references the 018 Common requirements subgroup of worksections. It is not necessary to repeat them here. However, you may also wish to direct the contractor to other worksections where there may be work that is closely associated with this work.

NATSPEC uses generic worksection titles, whether or not there are branded equivalents. If you use a branded worksection, change the cross reference here.

1.4 STANDARDS

General

ASSA ABLOY and Record products: To AS 5007 (2007), DIN 18650-1 (2005), DIN 18650-2 (2005), EN ISO 13849-1 (2015), EN 16005 (2012) and EN 60335-2-103 (2015).

The current editions are DIN 18650-1 (2010), DIN 18650-2 (2010), EN ISO 13849-1 (2023), EN 16005 (2023) and EN 60335-2-103 (2023).

AS 5007 (2007) clause 3.1.2 lists a number of pre-construction design issues that are mandatory for conformance. The standard calls for consultation with the doorset manufacturer to select the correct equipment for the anticipated usage. Other issues include the avoidance of congestion and entrapment, the minimising of slips and trips and access for maintenance.

Consider keeping records of satisfactory consideration of these requirements.

Contact ASSA ABLOY for design consultation.

Design for access and mobility: To the NCC cited AS 1428.1 (2009).

The NCC cites AS 1428.1 (2001) and AS 1428.1 (2009). The current edition is AS 1428.1 (2021).

Glazing

Materials and installation: To AS 1288 (2021).

Safety glazing: To AS 2208 (2023).

Quality requirements for cut-to-size and processed glass: To AS/NZS 4667 (2000).

The standard specifies requirements for the following:

- *Cut sizes of flat, clear ordinary annealed and tinted heat-absorbing glass with glossy, apparently plane and smooth surfaces, which are used for general and architectural glazing or similar.*
- *Cut sizes of flat, clear ordinary annealed and tinted heat-absorbing processing glass used for Grade A safety requirements (i.e. toughened or laminated).*
- *Cut sizes of ordinary annealed, patterned and wired glass used in decorative and general glazing applications.*
- *Cut sizes of wired glass used for Grade B safety and general glazing applications.*
- *Processed laminated and toughened glass.*

1.5 MANUFACTURER'S DOCUMENTS

ASSA ABLOY technical manuals

ASSA ABLOY: www.assaabloyentrance.com/au/en/solutions/products

Record Doors: www.recorddoors.com.au/en/documents

1.6 INTERPRETATION

Definitions

General: For the purposes of this worksection, the definitions given in AS 5007 (2007) and the following apply:

- Door system: An assembly comprising a door or doors and supporting frame, guides and tracks and the hardware and accessories.
- Swing door operator: Swing door operator that automates swing doors, consisting of a motorised system that can be installed on new or existing swing doors and opens and closes the door automatically with the help of a motor.
- Sliding door operator: Door operator that automates sliding doors, such as single lead, bi-parting or folding doors, and that can be installed on new or existing sliding doors.

Edit the **Definitions** subclause to suit the project or delete if not required. List alphabetically.

1.7 SUBMISSIONS

Certification

Sealant compatibility: Submit statements from all parties to the installation that certify the compatibility of sealants and glazing systems to all substrates.

Operation and maintenance manuals

Requirement: Submit manual to **COMPLETION, Operation and maintenance manuals.**

Products and materials

Safety glazing materials: Submit evidence of conformity to AS 2208 (2023) Appendix A.

Environmental Product Declaration (EPD): Submit an EPD to ISO 14025 (2006) with a Product Category Rule (PCR), used to calculate environmental impact indicators, to EN 15804 (2012) or ISO 21930 (2017).

Nominate which products are required to have an EPD either here or in PRODUCTS.

An EPD is an independently verified and registered document that quantifies environmental information on the life cycle of a product to enable comparisons between products fulfilling the same function. EPDs can support carbon emission reduction by allowing a fair and equitable comparison of the impacts of different materials and products within specific product categories.

Samples

Requirement: Submit samples to PRODUCTS, **GENERAL, Samples.**

Shop drawings

Requirement: Submit shop drawings to a scale that best describes the detail, showing the following

- Full size sections of members.
- Junctions and trim to adjoining surfaces.
- Layout (sectional plan and elevation) of the door system assembly.
- Methods of assembly.
- Methods of installation, including fixing, caulking and flashing.

See BCA (2022) J5D5(4) Windows and doors and BCA (2022) H6D2(1)(b)(iii) for the sealing of windows and doors.

- Provision for vertical and horizontal expansion.
- Method of glazing, including the following:
 - . Rebate depth.
 - . Edge restraint.
 - . Clearances and tolerances.
 - . Glazing gaskets and sealant beads.

Subcontractors

General: Submit names and contact details of proposed installers

Delete if installer details are not required.

Warranties

Requirement: Submit warranties to **COMPLETION, Warranties.**

Notice

Inspection: Give notice so inspection may be made of the following:

- Openings prepared to receive door system.
- Fabricated door system assemblies at the factory ready for delivery to the site.
- Fabricated door system assemblies delivered to the site, before installation.
- Commencement of door system installation.

Edit to suit the project adding critical stage inspections required.

Hold points, if required, should be inserted here.

2 PRODUCT

2.1 GENERAL

Product substitution

Other products: Conform to **SUBSTITUTIONS** in *0171 General requirements*.

Refer also to NATSPEC TECHnote GEN 006 for more information on proprietary specification.

Product identification

Products marked to show the following:

- Manufacturer's identification.
- Product brand name.
- Product type.
- Quantity.
- Product reference code and batch number.
- Date of manufacture.

Edit the list to suit the project or delete if not required.

Sample

Door systems: Provide samples of the following, labelled with the series code reference and date of manufacture:

- Prefinished production material showing the limits of the range of variation in the documented colour.
- Joints made by proposed techniques.
- Sections for frames.

2.2 RECORD REVOLVING DOORS

RECORD Fullview revolving doors

Description: Revolving door system with motor drive and control system mounted in the canopy. Accommodates illuminated canopy signage.

Ambient operating temperature range: -15°C to +50°C.

Maximum carousel diameter: 4800 mm.

Dependant on height. Contact ASSA ABLOY for assistance.

Maximum carousel height: 4000 mm.

Dependant on diameter. Contact ASSA ABLOY for assistance.

Maximum carousel door weight: 750 kg.

Canopy height:

- Minimum: 300 mm.

Maximum height is variable. Contact ASSA ABLOY for assistance.

Operating speed: To AS 5007 (2007).

Document the required operating speed in SELECTIONS.

RECORD Hybrid revolving doors

Description: Semi-frameless glass side wall revolving door system with a motor drive and control system mounted in the canopy and perimeter lighting around door.

Ambient operating temperature range: -15°C to +50°C.

Maximum carousel diameter: 4000 mm.

Maximum carousel height: 3000 mm.

Maximum carousel door weight: 750 kg.

Canopy height:

- Minimum: 300 mm.
- Maximum: 500 mm.

Dependant on diameter and placement. Contact ASSA ABLOY for assistance.

Operating speed: To AS 5007 (2007).

Document the required operating speed in SELECTIONS.

RECORD Diamond revolving doors

Description: Glass roofed frameless glass revolving door system with structurally recessed floor track, frameless glass centre to carousel and waterproof floor pit or under-slab mounted drive motors.

Triple laminated low iron curved glass side walls and roof panels.

Ambient operating temperature range: -15°C to +50°C.

Maximum carousel diameter: 4200 mm.

Maximum carousel height: 4000 mm.

Dependant on diameter. Contact ASSA ABLOY for assistance.

Maximum carousel door weight: 750 kg.

Operating speed: To AS 5007 (2007).

Document the required operating speed in SELECTIONS.

2.3 RECORD SLIDING DOOR OPERATORS

RECORD STA 20 sliding door operator

Description: Double leaf single or bi-parting sliding door operator with cushioned, noise reducing, replaceable track section and hinging cover options.

Motor brake locking with battery backup and integrated failsafe: To BCA (2022) D3D24.

Configuration maximum door weight:

- Single: 1 x 200 kg.
- Bi-parting: 2 x 150 kg.

Ambient operating temperature range: -15°C to +50°C.

Maximum opening width (passage width): 3250 mm.

Two operators can be synced to double the entrance size to 6500 mm for bi-parting doors.

Maximum opening height (passage height): 4000 mm.

Larger sizes possible dependent on door weight and engineering restrictions. Contact ASSA ABLOY for assistance.

Opening speed: To AS 5007 (2007).

Document the required opening speed in SELECTIONS.

Closing speed: To AS 5007 (2007).

Document the required closing speed in SELECTIONS.

Hold open time: To AS 5007 (2007).

Document the required hold open time in SELECTIONS.

RECORD STA 22 sliding door operator

Description: Heavy duty, double leaf single or bi-parting sliding door system with cushioned, noise reducing, replaceable track section and hinging cover.

Motor brake locking with battery backup and integrated failsafe: To BCA (2022) D3D24.

Configuration maximum door weight:

- Single: 1 x 300 kg.
- Bi-parting: 2 x 220 kg.

Ambient operating temperature range: -15°C to +50°C.

Maximum opening width (passage width): 3250 mm.

Two operators can be synced to double the entrance size to 6500 mm for bi-parting doors.

Maximum opening height (passage height): 4000 mm.

Larger sizes possible dependent on door weight and engineering restrictions. Contact ASSA ABLOY for assistance.

Opening speed: To AS 5007 (2007).

Document the required opening speed in SELECTIONS.

Closing speed: To AS 5007 (2007).

Document the required closing speed in SELECTIONS.

Hold open time: To AS 5007 (2007).

Document the required hold open time in SELECTIONS.

RECORD STA CS cavity sliding door operator

Description: Single or bi-parting internal sliding door operator with sliding panel located within cavity.

Motor brake locking with battery backup and integrated failsafe: To BCA (2022) D3D24.

Configuration maximum door weight:

- Single: 1 x 140 kg.
- Bi-parting: 2 x 100 kg.

Ambient operating temperature range: -15°C to +50°C.

Maximum opening width (passage width): 3250 mm.

Two operators can be synced to double the entrance size to 6500 mm for bi-parting doors.

Maximum opening height (passage height): 4000 mm.

Larger sizes possible dependent on door weight and engineering restrictions. Contact ASSA ABLOY for assistance.

Opening speed: To AS 5007 (2007).

Document the required opening speed in SELECTIONS.

Closing speed: To AS 5007 (2007).

Document the required closing speed in SELECTIONS.

Hold open time: To AS 5007 (2007).

Document the required hold open time in SELECTIONS.

RECORD RST 20 curved sliding door operator

Description: Radial single or bi-parting sliding automatic door for feature entrances.

Motor brake locking with battery backup and integrated failsafe: To BCA (2022) D3D24.

Configuration maximum door weight:

- Single: 1 x 250 kg.
- Bi-parting: 2 x 200 kg.

Ambient operating temperature range: -15°C to +50°C.

Curved standard:

- Diameter:
 - . Minimum: 1600 mm.
 - . Maximum: 3600 mm.
- Opening width (passage width):
 - . Minimum: 1000 mm.
 - . Maximum: 2400 mm.
- Opening height (passage height):
 - . Minimum: 2200 mm.
 - . Maximum: 3000 mm.
- Canopy height:
 - . Minimum: 200 mm.
 - . Maximum: 300 mm.

Curved convex:

- Minimum diameter: 1600 mm.
- Minimum opening width (passage width): 1000 mm.
- Opening height (passage height):

- . Minimum: 2200 mm.
- . Maximum: 3000 mm.
- Canopy height:
 - . Minimum: 200 mm.
 - . Maximum: 300 mm.

Curved concave:

- Minimum diameter: 1600 mm.
- Minimum opening width (passage width): 1000 mm.
- Opening height (passage height):
 - . Minimum: 2200 mm.
 - . Maximum: 3000 mm.
- Canopy height:
 - . Minimum: 200 mm.
 - . Maximum: 300 mm.

Curved special:

- Diameter:
 - . Minimum: 1600 mm.
 - . Maximum: 6000 mm.
- Opening width (passage width):
 - . Minimum: 1000 mm.
 - . Maximum: 3300 mm.
- Opening height (passage height):
 - . Minimum: 2200 mm.
 - . Maximum: 4000 mm.
- Canopy height:
 - . Minimum: 200 mm.
 - . Maximum: 1000 mm.

Opening speed: To AS 5007 (2007).

Document the required opening speed in SELECTIONS.

Closing speed: To AS 5007 (2007).

Document the required closing speed in SELECTIONS.

Hold open time: To AS 5007 (2007).

Document the required hold open time in SELECTIONS.

2.4 ASSA ABLOY SLIDING DOOR SYSTEMS

ASSA ABLOY SL500 with ADS frame system

Description: Wall mounted automatic telescopic single leaf or double leaf bi-parting sliding door system, with sidelights and overlight.

The system composes doors, operators, safety units, side screens and overlights.

Configuration maximum door weight:

- Single: 1 x 260 kg.
- Bi-parting: 2 x 200 kg.

Ambient operating temperature range: -15°C to +50°C.

Maximum opening width (passage width):

- Single: 1500 mm.
- Bi-parting: 3000 mm.
- Telescopic: 3600 mm.

Maximum opening height (passage height): 3000 mm.

Opening speed: To AS 5007 (2007).

Document the required opening speed in SELECTIONS.

Closing speed: To AS 5007 (2007).

Document the required closing speed in SELECTIONS.

Hold open time: To AS 5007 (2007).

Document the required hold open time in SELECTIONS.

ASSA ABLOY SL500 Intrusion

Description: Automatic telescopic single leaf or double leaf bi-parting sliding door system with enhanced security measures and side lights. Composed of interlocking profiles and mechanical multi-point locks with locating pins.

The system composes doors, operators, safety units, side screens and overlights. Provides protection against burglary, vandalism and intrusion. The protection consists of strengthened electromechanical locking system at the top of the door, interlocking profiles, multi-point locating pins and high impact resistant in ground floor guide system. Building management system integration can monitor forced entry and security-based alerts.

Glass: AssaultGuard 9.52 mm laminated safety glass with security barrier interlayer.

Configuration maximum door weight:

- Single: 1 x 260 kg.
- Bi-parting: 2 x 200 kg.

Ambient operating temperature range: -15°C to +50°C.

Maximum opening width (passage width):

- Single: 1500 mm.
- Bi-parting: 3000 mm.

Maximum opening height (passage height): 2600 mm.

Opening speed: To AS 5007 (2007).

Document the required opening speed in SELECTIONS.

Closing speed: To AS 5007 (2007).

Document the required closing speed in SELECTIONS.

Hold open time: To AS 5007 (2007).

Document the required hold open time in SELECTIONS.

2.5 RECORD / ASSA ABLOY AUTOMATIC SWING DOOR OPERATORS

RECORD DFA 127 internal swing door operator

Description: Swing door operator with automatic reverse function, touch control and electro-magnetic brake. Closes in the event of a fire alarm for fire and smoke protection and can be locked for one way traffic.

Motor brake locking with battery backup and integrated failsafe: To BCA (2022) D3D24.

Sequence selector: Integrated mechanical sequence control SFR 127.

Note a sequence selector is a mechanism to allow double doors with rebates to close in order.

Operator size: 600 mm x 85 mm x 124 mm.

Adjustable power size: EN4 to EN6 for standard door weight and slide arm.

Maximum door leaf width: 1400 mm.

Dependant on door weight. 1400 mm width for a maximum 100 kg door. Contact ASSA ABLOY for assistance.

Maximum opening height (passage height): 4000 mm.

Larger sizes possible dependent on door weight and width. Contact ASSA ABLOY for assistance.

Maximum door weight: 250 kg.

Dependant on door width. 250 kg weight for a maximum 900 mm width door. Contact ASSA ABLOY for assistance.

Opening speed: To AS 5007 (2007).

Document the required opening speed in SELECTIONS.

Closing speed: To AS 5007 (2007).

Document the required closing speed in SELECTIONS.

Hold open time: To AS 5007 (2007).

Document the required hold open time in SELECTIONS.

Opening angle:

- Minimum: 70°.
- Maximum: 115°.

ASSA ABLOY SW200 internal universal swing door operator

Description: Heavy duty, electromechanical door operator for heavy doors including fire doors, which can be locked for one way traffic.

Suitable for fire doors and escape routes.

Motor brake locking with battery backup and integrated failsafe: To BCA (2022) D3D24.

Operator size: 716 mm x 110 mm x 130 mm.

Adjustable power size: EN4 to EN6 for standard door weight and slide arm.

Maximum door leaf width: 1500 mm.

Dependant on door weight. Contact ASSA ABLOY for assistance.

Maximum opening height (passage height): 4000 mm.

Larger sizes possible dependent on door weight and width. Contact ASSA ABLOY for assistance.

Maximum door weight: 450 kg.

Dependant on door width. 450 kg weight for a maximum 1030 mm width door. Contact ASSA ABLOY for assistance.

Opening speed: To AS 5007 (2007).

Document the required opening speed in SELECTIONS.

Closing speed: To AS 5007 (2007).

Document the required closing speed in SELECTIONS.

Hold open time: To AS 5007 (2007).

Document the required hold open time in SELECTIONS.

Opening angle: 180° in both the push and pull applications.

Dependant on arm type.

Manual operation: Manually openable and manual push force in power-off.

ASSA ABLOY SW300 slim internal swing door operator

Description: Heavy duty electromechanical swing slim door operator including fire doors, which can be locked for one way traffic.

Suitable for fire doors and escape routes.

Motor brake locking with battery backup and integrated failsafe: To BCA (2022) D3D24.

Adjustable power size: EN4 to EN6 for standard door weight and slide arm.

Maximum door leaf width: 1400 mm.

Dependant on door weight. 1400 mm width for a maximum 220 kg door. Contact ASSA ABLOY for assistance.

Maximum opening height (passage height): 4000 mm.

Larger sizes possible dependent on door weight and width. Contact ASSA ABLOY for assistance.

Maximum door weight: 450 kg.

Dependant on door width. 450 kg weight for a maximum 950 mm width door. Contact ASSA ABLOY for assistance.

Opening speed: To AS 5007 (2007).

Document the required opening speed in SELECTIONS.

Closing speed: To AS 5007 (2007).

Document the required closing speed in SELECTIONS.

Hold open time: To AS 5007 (2007).

Document the required hold open time in SELECTIONS.

Opening angle: 180° in both push and pull applications.

Dependent on arm type.

Manual operation: Manually openable and manual push force in power-off.

RECORD C127X door operator

Description: Concealed watertight underfloor drive for swing doors including fire doors, which can be locked for one way traffic.

Low maintenance drive designed for ease and speed of installation. The design of offset drive allows it to be mounted very close to the facade.

Motor brake locking with battery backup and integrated failsafe: To BCA (2022) D3D24.

Braking in high winds: Integrated wind load brake.

The door slows down in case of wind loads and prevents damage to the facade or to the safety of pedestrians.

Operator size: 710 mm x 200 mm x 130 mm.

Maximum door leaf weight: 600 kg.

Adjustable power size: EN4 to EN6 for standard door weight and slide arm.

Opening speed: To AS 5007 (2007).

Document the required opening speed in SELECTIONS.

Closing speed: To AS 5007 (2007).

Document the required closing speed in SELECTIONS.

Hold open time: To AS 5007 (2007).

Document the required hold open time in SELECTIONS.

Opening angle: 180° in both push and pull applications.

Dependent on arm type.

2.6 RECORD AUTOMATIC FOLDING DOORS

RECORD FTA 20 bi-folding door

Description: Automatic single or bi-parting bi-folding door system with aluminium frame, which can be locked for one way traffic.

Configuration maximum door weight:

- Single sided 2 x 37.5 kg.
- Bi-parting double-sided 4 x 37.5 kg.

Ambient operating temperature range: -15°C to +50°C.

Finish: Powder coat to RAL colour.

Glass thickness: 10.38 mm.

Maximum opening width (passage width): 2000 mm.

Maximum opening height (passage height): 2500 mm.

Opening speed: To AS 5007 (2007).

Document the required opening speed in SELECTIONS.

Closing speed: To AS 5007 (2007).

Document the required closing speed in SELECTIONS.

Hold open time: To AS 5007 (2007).

Document the required hold open time in SELECTIONS.

2.7 MATERIALS

Standards

Flashings: To AS/NZS 2904 (1995).

Aluminium extrusions: To AS/NZS 1866 (1997).

2.8 GLAZING

Safety glazing materials

Standard: To AS 2208 (2023).

AS 2208 (2023) includes toughened, laminated, wired, and organic-coated glass, and safety plastic glazing sheets. The required grade (A or B) is specified in AS 1288 (2021) Section 5 for each application.

Type: Grade A to AS 1288 (2021).

Certification: Required.

- Certification provider: An organisation accredited by the Joint Accreditation System of Australia and New Zealand (JASANZ).

Marking: To AS 2208 (2023) clause 1.6.

Inconspicuous permanent labelling of tempered glass to identify inner and outer surfaces, strength grades, manufacturer, processor and standard.

3 EXECUTION

3.1 INSTALLATION

Automatic door operators

Coordinate the specification for automatic door operators with the requirements for automatic sliding or revolving doorsets in 0453 Doors and access panels and 0455p ASSA ABLOY door hardware.

General: Complete automatic door operators for opening and closing doors, including door hanging (hinges, pivots or sliding gear) and electrical connection to distribution board.

Requirement: Installation to be completed by trained technicians as per ASSA ABLOY's instruction manuals.

Testing

Site acceptance test: Standard: To AS 5007 (2007) Section 5.

3.2 COMPLETION

Operation and maintenance manuals

Requirement: Prepare a manual that includes the following:

- Automatic doors systems and door operators: ASSA ABLOY's installer proposal for continuing maintenance after completion, on an annual renewal basis.
- Hardware: ASSA ABLOY's installer published recommendations for use, care and maintenance.

Compliance with this subclause targets the Operations and Maintenance requirement within the Minimum Expectation level of the Verification and Handover credit in Green Star Buildings (2021).

Warranties

Type: Manufacturer warranty and installer warranty (or interlocking warranties) for the automatic door systems, door operators and the installation.

Refer to 0171 General requirements for appropriate warranty type and the terms covered in the warranty.

Period: Minimum 2 years for parts, and 1 year labour from the date of practical completion.

3.3 MAINTENANCE

General

Standard: To AS 5007 (2007) Appendix E.

4 SELECTIONS

Schedules are a tool to specify properties required for products or systems. If the principal permits documentation of the product or system by proprietary name, some of the properties may be unnecessary and can be deleted. Document the product or system's location or application here and/or on the drawings with a matching project code. Refer to NATSPEC TECHnote GEN 024 for guidance on using and editing schedules.

4.1 RECORD REVOLVING DOORS

Revolving door schedule

	A	B	C
ASSA ABLOY product			
Carousel diameter (mm)			
Carousel height (mm)			
Glass type			
Glass thickness (mm)			
Glass colour			
Safety markings			
Finish			
Finish colour			
Operating speed (m / s) to AS 5007 (2007)			
Lighting			
Sidelight			
Overlight			
Activation			
Control			
Entrance mat			
Ultimate limit state (ULS) wind pressure (Pa)			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

ASSA ABLOY product: Select from:

- RECORD Fullview.
- RECORD Hybrid.
- RECORD Diamond.

Carousel diameter (mm): Nominate diameter.

Carousel height (mm): Nominate height.

Glass type: Select from:

- Toughened.
- Laminated.

Glass thickness (mm):

- 12 mm.
- 13.52 mm.
- 17.52 mm.
- 21.52 mm.

Glass colour: Select from:

- Clear.
- Grey.
- Green.
- Bronze.

Safety markings: Describe line or patterns to AS 1288 (2021) clause 5.19 on making glass visible. AS 1428.1 (2009) clause 6.6 requires a solid and non-transparent contrasting line to the full width of the glazing where a building is required to be accessible. The NCC cites AS 1428.1 (2001) and AS 1428.1 (2009). The current edition is AS 1428.1 (2021).

Finish: Nominate required finish. Contact ASSA ABLOY for available finish options, such as powder coat, stainless, etc.

Finish colour: Full powder coat range available for all local products from Dulux / Interpon.

Operating speed (m / s): Nominate the required operating speed. Standard operating speed to AS 5007 (2007) is 0.75 m / s.

Lighting: Select from:

- None.
- LED lights to rotating carousel.
- Halo design to perimeter.

Sidelight: Refers to the glazing panels to the side of the door Select from:

- None.
- Left side only.
- Right side only.
- Both sides.

Overlight: Also known as Highlight, refers to a glazing panel above the door. Select from:

- Not required.
- Required.

Activation: Select from:

- Motion sensor Radar movement detectors.
- Continuous rotation.

Control: Nominate Record revolving door key switch.

Entrance mat: To capture dirt and moisture. Select from:

- None.
- Flush. Set in recess to finish flush with finished floor, with fixing trim and sealant.
- Surface. Set on finished floor with fixing trim and sealant.

Ultimate limit state (ULS) wind pressure (Pa): Nominate the design wind pressures for the project to AS/NZS 1170.2 (2021) (for residential and commercial buildings) or AS 4055 (2021) (for Class 1 and 10a buildings).

4.2 RECORD / ASSA ABLOY SLIDING DOOR OPERATORS

Sliding door operator schedule

	A	B	C
ASSA ABLOY product			
Configuration			
Opening width (mm)			
Opening height (mm)			
Exterior diameter (mm)			
Opening speed (m / s) to AS 5007 (2007)			
Closing speed (m / s) to AS 5007 (2007)			
Hold open time (s) to AS 5007 (2007)			
Breakout			
Glass thickness (mm)			
Aluminium finish			
Finish colour			
Operator access			
Activation			
Control			
Battery backup			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

ASSA ABLOY product: Select from:

- RECORD STA 20.
- RECORD STA 22.
- RECORD STA CS.
- RECORD RST 20

Configuration: Select from:

- Single.
- Bi-parting.

Opening width (mm): Nominate opening width.

Opening height (mm): Nominate opening height.

Exterior diameter (mm): For RECORD RST 20 only. Nominate the exterior diameter.

Opening speed (m / s): Nominate the required opening speed to AS 5007 (2007).

Closing speed (m / s): Nominate the required closing speed to AS 5007 (2007).

Hold open time (s): Nominate the required hold open time to AS 5007 (2007).

Breakout: Select from:

- Not required.
- Required.
- Reverse required.

Glass thickness (mm): Select from:

- 6.38 mm Laminated – single glazed.
- 10.38 mm Laminated – single glazed..
- 6 mm Toughened – single glazed.
- 10 mm Toughened – single glazed.
- 12 mm Toughened – single glazed.
- 15 mm Toughened – single glazed..
- 19 mm Toughened – single glazed..
- 21.52 mm Laminated – single glazed..
- 24 mm (6-12-6) – double glazed.
- Other profiles available – contact ASSA ABLOY for assistance.

Aluminium finish: Select from:

- Powder coat.
- Anodised.

Finish colour: Full powder coat range available for all local products from Dulux / Interpon.

Operator access: Select from:

- Pelmet.
- Wall cover plate.
- Ceiling access panel.

Activation: Select from:

- Motion sensor (Radar movement detectors, or Infra-red movement and safety detectors with monitoring).
- Proximity card reader.
- Push button.
- Break glass.
- Lockitwell spring return key switch.

Control: Select from:

- Lockitwell mode key switch.
- Electronic mode pad.
- Rotary switch.

Battery backup: Select from:

- Not required.
- Required.

4.3 ASSA ABLOY SLIDING DOOR SYSTEMS

Sliding door system schedule

	A	B	C
ASSA ABLOY product			
Configuration			
Opening width (mm)			
Opening height (mm)			
Opening speed (m / s) to AS 5007 (2007)			
Closing speed (m / s) to AS 5007 (2007)			
Hold open time (s) to AS 5007 (2007)			
Breakout			
Glass type			
Glass thickness (mm)			
Glass colour			
Safety markings			
Frame thermo			
Aluminium finish			
Finish colour			
Sidelight			
Overlight			
Activation			
Control			
Entrance mat			
Ultimate limit state (ULS) wind pressure (Pa)			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

ASSA ABLOY product: Select from:

- SL500 with ADS frame.
- SL500 Intusion.

Configuration: Select from:

- Single.
- Bi-parting.
- Telescopic.

Opening width (mm): Nominate opening width.

Opening height (mm): Nominate opening height.

Opening speed (m / s): Nominate the required opening speed to AS 5007 (2007).

Closing speed (m / s): Nominate the required closing speed to AS 5007 (2007).

Hold open time (s): Nominate the required hold open time to AS 5007 (2007).

Breakout: Select from:

- Not required.
- Required.
- Reverse required.

Glass type: Select from:

- Tempered.
- Insulated.

- Laminated.

Glass thickness (mm): Select from:

- 6.38 mm Laminated – single glazed.
- 8.38 mm Laminated – single glazed.
- 9.52 mm Laminated – single glazed.
- 10.38 mm Laminated – single glazed.
- 10 mm Toughened. – single glazed.
- 22 mm – double glazed.
- 40 mm – double glazed.

Glass colour: Select from:

- Clear.
- Grey.
- Green.
- Bronze.

Safety markings: Describe line or patterns to AS 1288 (2021) clause 5.19 on making glass visible. AS 1428.1 (2009) clause 6.6 requires a solid and non-transparent contrasting line to the full width of the glazing where a building is required to be accessible. The NCC cites AS 1428.1 (2001) and AS 1428.1 (2009). The current edition is AS 1428.1 (2021).

Frame thermo: A thermally broken profile: Select from:

- -Not required.
- -Required.

Aluminium finish: Select from:

- Powder coat.
- Anodised.

Finish colour: Full powder coat range available for all local products from Dulux / Interpon.

Sidelight: Refers to the glazing panels to the side of the door Select from:

- None.
- Left side only.
- Right side only.
- Both sides.

Overlight: Also known as Highlight, refers to a glazing panel above the door. Select from:

- Not required.
- Required.

Activation: Select from:

- Motion sensor (Radar movement detectors, or Infra-red movement and safety detectors with monitoring).
- Proximity card reader.
- Push button.
- Break glass.
- Lockitwell spring return key switch.
- Control: Select from:
 - Lockitwell mode key switch.
 - Electronic mode pad.
 - Rotary switch.

Entrance mat: To capture dirt and moisture. Select from:

- None.
- Flush. Set in recess to finish flush with finished floor, with fixing trim and sealant.
- Surface. Set on finished floor with fixing trim and sealant.

Ultimate limit state (ULS) wind pressure (Pa): Nominate the design wind pressures for the project to AS/NZS 1170.2 (2021) (for residential and commercial buildings) or AS 4055 (2021) (for Class 1 and 10a buildings).

4.4 RECORD / ASSA ABLOY AUTOMATIC SWING DOOR OPERATORS

Swing door operator schedule

	A	B	C
ASSA ABLOY product			
Configuration			
Door leaf width (mm)			
Opening height (mm)			
Opening speed (m / s) to AS 5007 (2007)			
Closing speed (m / s) to AS 5007 (2007)			
Hold open time (s) to AS 5007 (2007)			
Opening angle (°)			
Breakout			
Glass thickness (mm)			
Aluminium finish			
Finish colour			
Operator access			
Activation			
Control			
Battery backup			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

ASSA ABLOY product: Select from:

- RECORD DFA 127.
- RECORD DFA 127F.
- SW200.
- SW200 fire.
- SW300.
- RECORD C127X.

Configuration: Select from:

- Single.
- Double.
- Bi-parting.

Door leaf width (mm): Nominate door leaf width.

Opening height (mm): Nominate opening height.

Opening speed (m / s): Nominate the required opening speed to AS 5007 (2007).

Closing speed (m / s): Nominate the required closing speed to AS 5007 (2007).

Hold open time (s): Nominate the required hold open time to AS 5007 (2007).

Opening angle (°): Nominate the required opening angle.

Breakout: Select from:

- Not required.
- Required.
- Reverse required.

Glass thickness (mm): Select from:

- 6.38 mm Laminated – single glazed.
- 10.38 mm Laminated – single glazed..

- 6 mm Toughened – single glazed.
- 10 mm Toughened – single glazed.
- 12 mm Toughened – single glazed.
- 15 mm Toughened – single glazed..
- 19 mm Toughened – single glazed..
- 21.52 mm Laminated – single glazed..
- 24 mm (6-12-6) – double glazed.
- Other profiles available – contact ASSA ABLOY for assistance.

Aluminium finish: Select from:

- Powder coat.
- Anodised.

Finish colour: Full powder coat range available for all local products from Dulux / Interpon.

Operator access: Select from:

- Pelmet.
- Ceiling access panel.

Activation: Select from:

- Motion sensor (Radar movement detectors, or Infra-red movement and safety detectors with monitoring).
- Proximity card reader.
- Push button.
- Break glass.
- Lockitwell spring return key switch.

Control: Select from:

- Lockitwell mode key switch.
- Electronic mode pad.
- Rotary switch.

Battery backup: Select from:

- Not required.
- Required.

4.5 ASSA ABLOY AUTOMATIC FOLDING DOORS

RECORD FTA 20 bi-folding door schedule

	A	B	C
Opening width (mm)			
Opening height (mm)			
Opening speed (m / s) to AS 5007 (2007)			
Closing speed (m / s) to AS 5007 (2007)			
Hold open time (s) to AS 5007 (2007)			
Glass type			
Glass colour			
Safety markings			
Finish colour			
Sidelight			
Overlight			
Activation			
Entrance mat			
Ultimate limit state (ULS) wind pressure (Pa)			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Opening width (mm): Nominate opening width.

Opening height (mm): Nominate opening height.

Opening speed (m / s): Nominate the required opening speed to AS 5007 (2007).

Closing speed (m / s): Nominate the required closing speed to AS 5007 (2007).

Hold open time (s): Nominate the required hold open time to AS 5007 (2007).

Glass type: Select from:

- Toughened.
- Laminated.

Glass colour: Select from:

- Clear.
- Grey.
- Green.
- Bronze.

Safety markings: Describe line or patterns to AS 1288 (2021) clause 5.19 on making glass visible. AS 1428.1 (2009) clause 6.6 requires a solid and non-transparent contrasting line to the full width of the glazing where a building is required to be accessible. The NCC cites AS 1428.1 (2001) and AS 1428.1 (2009). The current edition is AS 1428.1 (2021).

Finish colour: Select from RAL colour range.

Sidelight: Refers to the glazing panels to the side of the door. Select from:

- None.
- Left side only.
- Right side only.
- Both sides.

Overlight: Also known as Highlight, refers to a glazing panel above the door. Select from:

- Not required.
- Required.

Activation: Select from:

- Motion sensor (Radar movement detectors, or Infra-red movement and safety detectors with monitoring).
- Proximity card reader.
- Lockitwell key switch.
- Electronic mode pad.
- Rotary switch.
- Push button.

Entrance mat: To capture dirt and moisture. Select from:

- None.
- Flush. Set in recess to finish flush with finished floor, with fixing trim and sealant.
- Surface. Set on finished floor with fixing trim and sealant.

Ultimate limit state (ULS) wind pressure (Pa): Nominate the design wind pressures for the project to AS/NZS 1170.2 (2021) (for residential and commercial buildings) or AS 4055 (2021) (for Class 1 and 10a buildings).

REFERENCED DOCUMENTS

The following documents are incorporated into this worksection by reference:

AS 1288	2021	Glass in buildings - Selection and installation
AS 1428		Design for access and mobility
AS 1428.1	2009	General requirements for access - New building work
AS/NZS 1866	1997	Aluminium and aluminium alloys - Extruded rod, bar, solid and hollow shapes
AS 2208	2023	Safety glazing materials in buildings
AS/NZS 2904	1995	Damp-proof courses and flashings
AS/NZS 4667	2000	Quality requirements for cut-to-size and processed glass
AS 5007	2007	Powered doors for pedestrian access and egress
BCA D3D24	2022	Access and egress - Construction of exits - Doorways and doors
BCA H6D2	2022	Class 1 and 10 buildings - Energy efficiency - Application of Part H6
BCA J5D5	2022	Energy efficiency - Building sealing - Windows and doors
DIN 18650		Powered pedestrian doors
DIN 18650-1	2005	Product requirements and test methods

DIN 18650-2	2005	Safety at powered pedestrian doors
EN ISO 13849		Safety of machinery - Safety-related parts of control systems
EN ISO 13849-1	2015	General principles for design (ISO 13849-1:2015)
EN 15804	2012	Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products
EN 16005	2012	Power operated pedestrian doorsets - Safety in use - Requirements and test methods
EN 60335		Household and similar electrical appliances
EN 60335-2-103	2015	Particular requirements for drives for gates, doors and windows
ISO 14025	2006	Environmental labels and declarations - Type III environmental declarations - Principles and procedures
ISO 21930	2017	Sustainability in buildings and civil engineering works - Core rules for environmental product declarations of construction products and services
The following documents are mentioned only in the <i>Guidance</i> text:		
AS/NZS 1170		Structural design actions
AS/NZS 1170.2	2021	Wind actions
AS 1428		Design for access and mobility
AS 1428.1	2001	General requirements for access - New building work
AS 1428.1	2021	General requirements for access - New building work
AS 4055	2021	Wind loads for housing
GBCA Buildings	2021	Green Star Buildings
NATSPEC GEN 006		Product specifying and substitution
NATSPEC GEN 024		Using NATSPEC selections schedules
NATSPEC TR 01		Specifying ESD
DIN 18650		Powered pedestrian doors
DIN 18650-1	2010	Product requirements and test methods
DIN 18650-2	2010	Safety at powered pedestrian doors
EN ISO 13849		Safety of machinery - Safety-related parts of control systems
EN ISO 13849-1	2023	General principles for design (ISO 13849-1:2023)