

0453P CS CAVITY SLIDERS IN DOORS AND ACCESS PANELS

Branded worksection

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Worksection abstract

This branded worksection *Template* is applicable to cavity sliding doors supplied by CS Cavity Sliders and conventional door frames of metal and timber with flush panel and joinery doors of timber and various timber and plastic products. This worksection only covers some key generic requirements as the range of available products, performance requirements and design choices is so wide.

Guidance text

All text within these boxes is provided as guidance for developing this worksection and should not form part of the final specification. This *Guidance* text may be hidden or deleted from the document using the NATSPEC Toolbar or the hidden text *Hide* and *Delete* functions of your word processing system. For additional information visit FAQs at www.natspec.com.au.

Optional style text

Text in this font (blue with a grey background) covers items specified less frequently. It is provided for incorporation into *Normal* style text where it is applicable to a project.

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.*
- *0454 Overhead doors* for sectional and tilting overhead doors, roller shutters (including fire shutters), grilles and garage doors.

Material not provided by CS Cavity Sliders

This branded worksection includes generic material which may not be provided by the Product Partner including:

- Joinery doors, duct access doors, fire-resistant doors, automatic sliding door assemblies, and revolving doors.
- Security and bushfire screens and doors.

Documenting this and related work

You may document this and related work as follows:

- Doors and access panels need comprehensive detailing and scheduling beyond the scope of this worksection.
- Bushfire protection: Depending on the level of construction to AS 3959 the doors should satisfy the construction requirements of AS 3959 and the NCC. See AS 3959 clause 3.7 for bushfire shutters and NATSPEC TECHnote DES 018 for information on bushfire protection.
- Document glazed joinery doors in *0451 Windows and glazed doors.*

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:

- Door seals to minimise air leakage when door is shut.

The following may be specified by including additional text:

- Low VOC adhesives, stains and finishes.
- Re-use of salvaged doors.
- Recycled/reconstituted materials, e.g. paper honeycomb infill manufactured from post-consumer reclaimed cardboard.
- Frames and infills manufactured from off-cuts, e.g. engineered, laminated or finger jointed members.
- Timber from a sustainable source.

Refer to the NATSPEC TECHreport TR 01 on specifying ESD.

1 GENERAL

CS Group is Australasia's premier manufacturer of innovative door solutions. We cater for the residential, architectural, commercial and healthcare markets.

CS Group started out in 1986 manufacturing CS Cavity Sliders. Our mission is to engineer and manufacture the best and most innovative door solutions. Over the years we have continued to rapidly develop new products, including track systems, wardrobe sliders, aluminium door leaves and most recently, automated cavity sliders.

1.1 RESPONSIBILITIES

General

Requirement: Provide CS Cavity Sliders sliding pockets, doors and associated hardware, as documented.

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

1.2 COMPANY CONTACTS

CS Cavity sliders technical contacts

Website: www.cavitysliders.com.au.

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.

- 0185 Timber products, finishes and treatment.
- 0455 Door hardware.

1.4 STANDARDS

General

Timber and composite doors: To AS 2688.

1.5 MANUFACTURER'S DOCUMENTS

Technical manuals

Products: www.cavitysliders.com.au/products.

Specifier's guide: www.cavitysliders.com.au/architects.

1.6 INTERPRETATION

Definitions

General: For the purposes of this worksection the definitions given in AS 2688 and the following apply:

- Fire-resisting doorset: A doorset which retains its integrity, provides insulation and limits, if required, the transmittance of radiation in a fire.
- Smoke-doorset: A doorset which restricts the passage of smoke.

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

1.7 SUBMISSIONS

Operation and maintenance manuals

Recommendations: Submit CS Cavity Sliders published recommendations for service use.

Products and materials

The 0171 General requirements worksection covers tests in Definitions and calls for an inspection and testing plan under SUBMISSIONS, Tests.

Type tests: Submit results, as follows:

- Fire-resisting and smoke doorsets: To AS 1905.1 and BCA Spec C3.4.

BCA Spec C3.4 requires that a fire-resisting door will not fail by radiation through any glazed part but does not specify how this is assessed. See NATSPEC TECHnote DES 020 on fire behaviour in building materials and assemblies.

- Acoustic performance of doorset.

Samples

General: Submit 2 samples as follows:

- Colour range from prefinished production material (e.g. anodised or organic coated extrusions and sheet). Following the colour selection, submit 5 sets of samples showing the colour range.
- Door manufacturer's standard hardware items.
- Finishes to prepared surfaces.
- Joints using proposed techniques.
- Proposed sections for frames, louvres and slats.

Warranty

Requirement: Submit CS Cavity Sliders warranty.

1.8 INSPECTION

Notice

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

- Door frames in place before building in to masonry.
- Door frames installed before fixing trim.

Amend to suit the project adding critical stage inspections required.

Hold points, if required, should be inserted here.

2 PRODUCTS

2.1 GENERAL

Product substitution

Other products: Conform to PRODUCTS, **GENERAL, Substitutions** in *0171 General requirements*.

The *0171 General requirements* clause sets out the submissions required if the contractor proposes alternative products. Refer also to NATSPEC TECHnote GEN 006 for more information on proprietary specification.

Product identification

General: Marked to show the following:

- Manufacturer's identification.
- Product brand name.
- Product type.
- Quantity.
- Product reference code and batch number.
- Date of manufacture.
- Material composition and characteristics such as volatility, flash point, light fastness, colour and pattern. Edit the list to suit the project or delete if not required.

2.2 FRAMES

Aluminium frames

Construction: Assembled from aluminium sections, including accessories such as buffers, pile strips, strike plates, fixing ties or brackets and cavity flashings, with provision for fixing documented hardware.

Threshold: If the frame includes a threshold member, provide a self-draining section with anti-skid surface.

Aluminium frames for sliding doors forming parts of standard aluminium window suites are documented in *0451 Windows and glazed doors*. Use this clause for separate door frames not associated with aluminium windows, e.g. door frames in lightweight (non fire-resisting) partitions. In the latter case the door itself may be timber.

A wide range of sections is available. The required section profiles and dimensions are best shown on the drawings or nominated as a proprietary item.

Steel frames

Construction: Continuously welded from metallic-coated steel sheet sections, including accessories such as buffers, strike plates, spreaders, mortar guards, switch boxes, fixing ties or brackets, and cavity flashing with provision for fixing documented hardware and electronic security assemblies, and prefinished with a protective coating.

Base metal thickness (minimum):

- General: 1.1 mm.
- Fire-resisting doorsets: 1.5 mm.
- Security doorsets: 1.6 mm.

A wide range of steel door frames is available from heavy duty types, suitable for fire-resisting doorsets, to light gauge domestic frames. The required section profiles and dimensions are best shown on the drawings.

1.1 mm base metal thickness is suitable only for the lightest frame types, and for accessories such as switch boxes and glazing beads. It is however, a standard commercial thickness.

Metallic-coating class to AS 1397 interior: ZF100.

Metallic-coating class to AS 1397 exterior: [complete/delete]

The industry standard metallic coating is ZF100. This may not be suitable for all locations, e.g. external doors and doors subject to moisture or corrosive atmosphere, where a Z275 or Z450 coating or a stainless steel frame maybe more appropriate.

Finish: Grind the welds smooth, cold galvanize the welded joints and shop prime.

Hardware and accessories: Provide 4 mm backplates and lugs for fixing hardware including hinges and closers. Screw fix the hinges into tapped holes in the backplates.

Timber frames

Hardwood: To AS 2796.1:

- Grade: Select.

Softwood: To AS 4785.1:

- Grade: Select.

Joints:

- Morticed head and through tenons.
- Trenched head:
 - . Bare faced tenons on jambs.
 - . Full let-in jambs.

If required, select a material and grade and detail fully.

2.3 DOORS

General

Doors: Proprietary products manufactured for interior or exterior applications and for the finish required.

Materials

Standards: Conform to the following:

- Decorative laminated sheets: To AS/NZS 2924.1.
- Wet process fibreboard (including hardboard): To AS/NZS 1859.4.
- Dry process fibreboard (including medium density fibreboard): To AS/NZS 1859.2.
- Particleboard: To AS/NZS 1859.1.
- Plywood and blockboard for interior use: To AS/NZS 2270.
- Plywood and blockboard for exterior use: To AS/NZS 2271.
- Seasoned cypress pine: To AS 1810.
- Timber – hardwood: To AS 2796.1.
- Timber – softwood: To AS 4785.1.

Identification

Panel doors: Provide panels branded under the authority of a recognised certification scheme to *0185 Timber products, finishes and treatment*, as applicable to the product. Locate the brand on faces or edges which will be concealed in the works.

Nominate relevant classification schemes in *0185 Timber products, finishes and treatment*.

Joinery doors

General: Provide joinery doors, as documented.

Flush panel doors

General: Provide flush panel doors of balanced construction, as documented.

Medium density fibreboard doors: Single thickness of moisture resistant general purpose medium density fibreboard with the same surface finish to both sides, for internal use.

Smoke doors: Solid core not less than 35 mm thick.

Construction

Adhesives:

- Internal: To AS/NZS 2270.
- External: To AS/NZS 2271.

Door thickness:

- General: 35 mm.
- External doors and doors over 900 mm wide: 40 mm.

Omit thicknesses if noted in a door schedule.

Cut-outs: If openings are required in flush panel doors (e.g. for louvres or glazing), do not make cut-outs closer than the width of the stiles at the edges of the doors.

Edge strips: Minimum thickness 10 mm. Increase overall thickness to greater than 15 mm to accommodate the full depth of the rebate in rebated doors. Apply to the external edges of door after the facings are bonded to the door framing/core and finish flush with outside surface of the facings.

Edge strip location: [complete/delete]

Choose Fix to stiles or Fix all round.

Louvre grilles: Construct by inserting the louvre blades into a louvre frame, and fix the frame into the door.

Louvre grilles fitted to cut-outs in door leaves are often defined in the mechanical specification and listed on door schedules.

Double doors

Square edged doors: Bevel as necessary to prevent binding between the leaves.

Rebated meeting stiles: If not double acting doors, provide rebated meeting stiles or fix equivalent metal T stop to one leaf. Form rebates to suit standard rebated hardware.

Tolerances

Standard: To AS 2688 clauses 4.1 and 5.3.

2.4 CS CAVITY SLIDERS PRODUCTS**CavitySliders™**

General: Proprietary product comprising architectural grade extruded aluminium top track, back stud, bottom plate, and vertical split jambs and incorporating 2-wheel or 4-wheel fully enclosed carriages with fully ground bearings, guides, stops and timber jamb linings including closing jamb.

Delete cavity sliding doors not applicable to the project.

CS TimberFormed™: Extruded aluminium frame and track with timber jambs.

CS AluSealed™: Extruded aluminium frame, track and jambs.

CS FramelessGlass™: Extruded aluminium frame and track with timber jambs and frameless toughened safety glass door.

CS SpaceMaker™: Extruded aluminium frame and track with timber jambs, ready-made to standard residential sizes.

CS SlimSlider™: Extruded aluminium frame and track with split aluminium and timber jambs to suit 70 mm stud walls

CS SoundStop™: Extruded aluminium frame, track and jambs with acoustic tile cavity insulation and sound rated door.

CS EasyOpen™: Extruded aluminium frame and track with timber jambs with lever handle hardware and suitable for disabled access.

CS Ultimate™: Extruded aluminium frame and track with aluminium or timber jambs and for use with 120 mm walls and door thickness to 68 mm.

CS Ultimate™ HeavyDuty: Extruded aluminium frame and track with aluminium or timber jambs and for use with 120 mm walls and door thickness to 68 mm and doors rated up to 500 kg for each leaf.

CS RakingHead™: Extruded aluminium frame and track with timber jambs and with gravity self-close and soft close technology.

SofStop®: Extruded aluminium frame and track with timber jambs and soft close technology.

CS Hi-ImpactJambs™: Extruded aluminium frame and track with 3.5 mm thick aluminium jambs.

CS OvertakingDoors™: Extruded aluminium frame and track with timber jambs with multiple tracks, overtaking pick-up and door guide system.

CS Cavity Sliders optional features

A range of architectural detail optional features for cavity sliders. Delete optional features not applicable to project.

Optional features:

- Full-Height™: Track flush with ceiling.
- CornerMeeting™: Overlapping corner detail with doors meeting at 90° angle.
- NoClosingJamb™: Flush finish at wall/door junction.

Minimalist finish allowing for a concealed door installation.

- Shadowline™: Shadowline detail around jambs and head.
- SquareStop™: For concealing jambs.
- Extra-wideJambs™: Jambs for non-standard wall linings.

CS Cavity Sliders doors

A range of aluminium, glass and specialised door systems to suit cavity sliders, hinged or surface sliding applications. Delete doors not applicable to project.

Doors:

- NewYorker™: Prefinished aluminium framed glazed door.
- AluLite™: Aluminium door with polystyrene core, flush finish with no visible fastenings. Optional finishes – mill, powder coated, powder coated primer or stainless steel skin.
- AluTec™: Aluminium door with 7 mm vertical edge profile. Optional finishes – mill, powder coated or powder coated primer.
- MirrorLite™: Aluminium framed door faced with mirror to both sides.
- WhiteBoard™: Steel porcelain whiteboard, aluminium edge strips and polystyrene core.
- AluJambs™: Hinged door systems to complement AluSealed™ aluminium cavity slider jamb profiles.

CS Cavity Sliders TrackSystems™

A range of track systems for surface sliding applications based on cavity slider tracks and use with the range of CS Cavity Slider doors. Delete track systems not applicable to project.

WallMountTrack™: Wall mounted extruded aluminium track with removable aluminium pelmet and end panels.

Partition-TopMountTrack™: Ceiling mounted extruded aluminium track for concealed or exposed applications.

FH-CeilingMountTrack™: Ceiling mounted extruded aluminium track for flush finish.

CS Cavity Sliders WardrobesSliders™

A range of wardrobe door system incorporating track, carriages and timber or aluminium jambs. Delete wardrobe sliding door systems not applicable to project.

CS Premier™ 2T-140: Extruded aluminium track with aluminium or timber jambs and head for 2, 3 or 4 doors.

CS Premier™ 3T-190: Extruded aluminium track and floor guide with aluminium or timber jambs and head for 3, 6 or more doors.

CS TopFix™ 2T-90: Extruded aluminium track/head with optional timber jambs for 2 doors.

CS Cavity Sliders AutomaticUnits™

A range of automated cavity sliding units with individually designed parts, providing security and accommodating oversized, custom made and heavy doors. Delete automatic units not applicable to project.

AutoCav90™: General purpose motorised operation with programmable controller and choice of access controls.

AutoCavWC™: Motorised operation for toilet facilities with programmable controller and internal and external indicator plates.

AutoCavBi-Linked™: Mechanically linking for bi-parting doors.

AutoCavHydraulic™: Hydraulic operation to open or close door.

CS CaviLock™ Locks and latches

A range of architectural door hardware to suit any sliding door application.

CS CaviLock™ CL100: Commercial range mortise lock.

CS CaviLock™ CL200: Residential range of passage and privacy locks.

CS CaviLock™ CL400: Commercial and residential range of mortise, passage and privacy locks.

CS CaviLock™ CL800: Light duty mortise lock.

2.5 DOORSETS

Acoustic performance

Windows and doors: Tested to AS 5218.

Automatic door assemblies

Standard: To AS 5007.

AS 5007 clause 3.1.2 lists a number of pre-construction mandatory design requirements. Consider keeping records of satisfactory consideration of these requirements.

Control systems: To *0455 Door hardware*.

Duct access panels

General: Proprietary products comprising metal-faced doors side hung to steel door frames, including hardware and accessories such as hinges and lock and installation lugs.

Types other than metal are available. If fire-resisting is required, specify as a fire-resisting doorset.

Fire-resisting doorsets

Standard: To AS 1905.1 and BCA Spec C3.4.

See also for requirements for radiation through glass.

Floor access panels

Frame: Weld from 50 x 50 x 6 mm angle, with two 40 mm cogged fixing lugs each side and shop prime.

Covers: 6.5 mm checker floorplate, on 40 x 40 x 6 mm angle welded frame with 32 x 6 mm diagonal stiffening flats. Cut, radius and grind off 100 x 25 mm lifting slots in each end of covers.

The member sizes and thickness are typical only. For large access panels or high floor loadings, the members may need to be heavier, and should be shown on the drawings.

Revolving doorsets

Standard: To AS 5007.

AS 5007 clause 3.1.2 lists a number of pre-construction mandatory design requirements. Consider keeping records of satisfactory consideration of these requirements.

Control systems: To *0455 Door hardware*.

Security screen doorsets

Standard: To AS 5039.

2.6 ANCILLARY MATERIALS

Trims

Timber: Solid timber at least 19 mm thick, mitred at corners.

Extruded gaskets and seals

Materials: Non-cellular (solid) elastopressive seals as follows:

- Flexible polyvinyl chloride (PVC): To BS 2571, 100% solids with high consistency, ultraviolet stabilised.
- Rubber products (neoprene, ethylene propylene diene monomer (EPDM) or silicone rubber): To BS 4255-1.

Flashings

General: Corrosion resistant, compatible with the other materials in the installation, and coated with a non-staining compound where necessary.

Standard: To AS/NZS 2904.

Jointing materials

General: Compatible with each other and with the contact surfaces and non-staining to finished surfaces. Do not provide bituminous materials on absorbent surfaces.

Nylon brush seals

General: Dense nylon bristles locked into galvanized steel strips and fixed in a groove in the edge of the door or in purpose-made anodised aluminium holders fixed to the door with double sided PVC foam tape.

Pile weather strips

General: Polypropylene or equivalent pile and backing, low friction silicone treated, ultraviolet stabilised.

Standard: To AAMA 701/702.

AAMA 701/702 is a guide to selecting pile weatherstrip and weatherseals used in windows and doors. It defines requirements to restrict air and water infiltration. See BCA 3.12.3 and BCA J3.4 for the sealing of windows and doors.

Weather bars

General: Provide a weather bar under hinged external doors, locate under the centres of closed doors.

Type: [complete/delete]

Document here or refer to a detail. Weather bars are used either as a barrier between sill and building fabric (or sub sill), at the junction between sill and door leaf or in place of a sill. Weather bars have been traditionally associated with purpose made joinery. Where sill profiles or proprietary profiles do not allow for the inclusion of a weather bar; specify a proprietary seal or threshold section. As a secondary role, the weather bar can serve to protect the sill rebate from damage in high traffic areas. When used as a single item without a sill and acting as a floor finish divider, specify under the appropriate worksection (e.g. 0526 Terrazzo precast, 0612 Cementitious toppings, 0631 Ceramic tiling). The profile, material and method of fixing to the building fabric require clearance from the edges of the building fabric, e.g. concrete slabs. For embedded weather bars, document corrosion resistant materials. The NCC covers thresholds at BCA D2.15.

3 EXECUTION

For positioning of changes of floor finishes at doorways, refer to the relevant floor finish worksection in the **FINISHES** group.

The installation methods described here are only some of the methods that may be required (if any). Do not rely on the specification for other than basic requirements and coordinate with the drawings and schedules.

3.1 FRAMES**General**

Frames: Install the frames as follows:

- Plumb, level, straight and true.
- Fixed or anchored to the building structure.
- Isolated from any building loads, including loads caused by structural deflection or shortening.

Frame fixing

Brackets: Metallic-coated steel:

- Width: ≥ 25 mm.
- Thickness: ≥ 1.5 mm.

Depth of fixing for building into masonry:

- Brackets: ≥ 200 mm.
- Expansion anchors: ≥ 50 mm.

- Plugs: ≥ 50 mm.
- Rods: ≥ 60 mm.

Jamb fixing centres: ≤ 600 mm.

Joists

General: Make accurately fitted joints where fasteners, pins, screws, adhesives and pressure indentations are not visible on exposed surfaces.

Aluminium frames

Building in to masonry: Screw galvanized steel brackets twice to jambs and build in.

Fixing to masonry openings: Build in seasoned timber plugs to masonry joints or use proprietary expansion anchors and screw twice through jambs at each fixing.

Fixing to stud frame openings: Screw once to studs at each fixing.

Steel frames

Building in to masonry: Attach galvanized steel rods to jambs, build in and grout up.

Fixing to masonry openings: Build in hairpin anchors and install locking bars, or use proprietary expansion anchors and screw twice through jambs at each fixing.

Fixing to stud frame openings: Attach galvanized steel brackets to jambs and screw twice to studs at each fixing.

Solid grouting is advisable even in domestic construction. It is essential for fire doorsets.

Timber frames

Building in to masonry: Screw galvanized steel brackets twice to jambs and build in.

Fixing to masonry openings: Build in seasoned timber plugs to masonry joints or use proprietary expansion anchors and screw twice through jambs at each fixing.

Fixing to stud frame openings: Back screw twice to jambs at each fixing.

Fixing to thresholds: Dowel external door frames to thresholds other than timber with 10 mm diameter brass dowels, 100 mm long.

Heads of fasteners: Conceal if possible, otherwise sink the head below the surface and fill the sinking flush with a material compatible with the surface finish.

Finishing

Trim: Provide mouldings, architraves, reveal linings, and other internal trim using materials and finishes matching the door frames to make neat and clean junctions between the frame and the adjoining building surfaces.

Seals

General: Provide the fixings, rebates, grooves, and clearances required for installation and operation of the seals. Allow seals unwound from coils to settle before use.

Weatherproofing

Flashings and weatherings: Install flashings, weather bars, drips, storm moulds, caulking and pointing to prevent water from penetrating the building between the door frame and the building structure under the prevailing service conditions, including normal structural movement of the building.

Document particular requirements for architraves, backmoulds, pelmets, etc., if different from the general requirement in the text clause, and if not shown on the drawings e.g. medium density fibreboard (MDF) 12 to 15 mm thick instead of solid timber.

3.2 DOORS

Priming

General: Prime timber door leaves on top and bottom before installation.

3.3 CS CAVITY SLIDERS

Installation

Requirement: Conform to CS Cavity Sliders installation recommendations and standard construction drawings.

3.4 DOORSETS

Security screen doorsets

Standard: To AS 5040.

3.5 COMPLETION

Operation

General: Make sure moving parts operate freely and smoothly, without binding or sticking, at correct tensions or operating forces and that they are lubricated where appropriate.

Protection

Temporary coating: On or before the date for practical completion, or before joining up to other surfaces, remove all traces of temporary coatings used as a means of protection.

Warranties

CS Cavity Sliders: Provide manufacturer's warranties as follows:

Product: [complete/delete]

Period: [complete/delete]

Select from the following:

- 10 years: Cavity Sliders, Wardrobe Sliders, Pre- Hung Jambs, Track Systems, Gate Systems.
- 5 years: Door Leaves, Automatic Units.
- 2 years: CaviLock.
- 1 year: Electrical components and parts.

4 SELECTIONS

Schedules are a way of documenting a selection of proprietary or generic products or systems by their properties. Indicate their locations here and/or on the drawings. Refer to NATSPEC TECHnote GEN 024 for guidance on using and editing schedules.

4.1 DOOR TYPES SCHEDULE

Flush panel doors construction schedule

Property	A	B	C
Door type			
Thickness (mm)			
Core material			
Facing material			
Face veneers: Timber species or group			
Face veneers: Veneer quality			
Face veneers: Matching arrangement			
Edge strip thickness (mm)			
Inset panels: Type			
Inset panels: Clear opening size (mm)			
Finish			
Floor clearance			

A, B, C: These designate each instance or type or location of the item scheduled.

Edit codes in the **Schedule** to match those on drawings.

Door type: e.g. Hollow core, Semi-solid core, Solid core or MDF.

Thickness: Minimum thicknesses are documented in the worksection. Other thicknesses may be specified here if applicable. Most door lock furniture cannot be fitted to doors less than 35 mm thick.

Core material: Blockboard, particleboard or MDF (for solid core); Cellular paper or Wood curls (for cellular core).

Facing material: Hardboard, Laminate, Plywood or MDF.

Face veneers:

- Veneer quality: e.g. A for clear finishes, B for opaque.
- Matching arrangement: (clear finishes only) e.g. Book, Centre, Diamond, Random or Slip.

Edge strip thickness (mm): State, if thicker than the minimum documented in the worksection.

Inset panels: Delete if there are no panels or openings in flush panel doors. Metal grilles may be documented in the mechanical worksections.

- Type: Glazed panel, Timber louvres, or Metal grille.
- Clear opening size (h x w) (mm): Size and position on the door should preferably be shown on the drawings.

Finish: e.g. a paint or clear finish system, or Melamine faced (state colour or pattern).

Floor clearance: For fire-resisting doorsets, AS 1905.1 clause 5.5.1 requires not less than 3 mm and not more than 10 mm.

Joinery doors construction schedule

Property	A	B	C
Door type			
Door thickness (mm)			
Adhesive			
Timber species or group			
Timber grade			
Finished sizes (mm): Top rails and stiles			
Finished sizes (mm): Intermediate rails			
Finished sizes (mm): Bottom rails			
Finished sizes (mm): Muntins			
Panels: Material			
Panels: Thickness (mm)			
Finish			
Floor clearance			

A, B, C: These designate each instance or type or location of the item scheduled.

Edit codes in the **Schedule** to match those on drawings.

Door type: e.g. Framed and glazed, Framed and panelled, Framed, double sheeted, Louvred, Insect screen door. Delete any headings which do not apply to the joinery door types in the project.

Door thickness: Minimum thicknesses are specified in the worksection. Other thicknesses may be specified here if applicable. Most door lock furniture cannot be fitted to doors less than 35 mm thick. Large glazed doors should be 45 mm thick or more.

Adhesive: Internal or external.

Grade:

- Hardwood: To AS 2796.1.
- Softwood: To AS 4785.1.

Finished sizes (mm): Insert preferred sizes here, or show member arrangement and sizes on the drawings.

Panels:

- Material: Plywood with veneer quality, or Hardboard or Particleboard, or Insect screen mesh (for insect screen doors) - state mesh type (bronze, aluminium or fibreglass) and fibreglass colour (black or grey).

Finish: e.g. a paint or clear finish system.

Floor clearance: For fire-resisting doorsets, AS 1905.1 clause 2.5 requires not less than 3 mm and not more than 10 mm.

Door seal schedule

Property	A	B	C

Property	A	B	C
Product			
Function			
Carrier material and finish			
Seal insert type and material			
Complementary seal			

A, B, C: These designate each instance or type or location of the item scheduled. Edit to align with the project's codes or tags.

Edit codes in the **Schedule** to match those on drawings.

Product: Full identification will allow deletion of the following generic descriptions.

Refer to subgroup 019 *Sundry items* for proprietary seals.

Function: Select:

- Acoustic seals.
- Fire and smoke seals.
- Cold draught, dust and ember seals.
- Light seals.
- Insect and vermin seals.
- Weather seals.

Carrier: e.g. brass, anodised aluminium.

Seal insert: e.g. polypropylene pile.

Complementary seal: Describe that part of a sealing system that is fixed to the frame and threshold.

4.2 CS CAVITY SLIDERS

CS CAVITY SLIDERS cavity sliding door schedule

Property	A	B	C
Product type			
Location			
Stud size (H x W) (mm)			
Leaf size (H x W) (mm)			
Jamb finish			
Door type			
Door thickness (mm)			
Door finish			
Lining thickness (mm)			
Optional features			
Lock type			
Handle type			
Automatic units			

A, B, C: These designate each instance or type or location of the item scheduled.

Edit codes in the **Schedule** to match those on drawings.

Product type: Select from the following range of CS Cavity Sliders cavity sliding doors:

- CS TimberFormed™.
- CS AluSealed™.

- CS FramelessGlass™.
- CS SpaceMaker™.
- CS SlimSlider™.
- CS SoundStop™.
- CS EasyOpen™.
- CS Ultimate™.
- CS Ultimate™ HeavyDuty.
- CS RakingHead™.
- SofStop™.
- CS Hi-ImpactJambs™.
- CS OvertakingDoors™.

Stud size: Select from 70 mm, 90 mm or 120 mm.

Jamb finish: e.g. Timber, Aluminium anodised, Aluminium powder coated.

Door type: e.g. Solid core, or select from the following range of CS Cavity Sliders doors:

- NewYorker™.
- AluLite™.
- AluTec™.
- MirrorLite™.
- WhiteBoard™.
- AluJambs™.

Door finish: e.g. Paint, Anodised, Powder coated.

Optional features: Select from the following range of CS Cavity Sliders optional features:

- Full-Height™.
- CornerMeeting™.
- NoClosingJamb™.
- Shadowline™.
- SquareStop.
- Extra-wideJambs.

Lock type: Select from the following range:

- CS CaviLock™ CL100.
- CS CaviLock™ CL200.
- CS CaviLock™ CL400.
- CS CaviLock™ CL800.

Handle type: Select from the following range:

- CL100 Lever.
- CL100 LaviLock.
- CL100 Flush turn.
- CL100 Louise.
- CL100 DigiLock.
- CL200 Privacy.
- CL200 Passage.
- Timber door edge pull.
- Aluminium door edge pull.
- Louey.

Automatic Units: Select from the following range:

- AutoCav90™.
- AutoCavWC™.
- AutoCavBi-Linked™.
- AutoCavHydraulic™.

CS CAVITY SLIDERS wardrobe sliders schedule

Property	A	B	C
Product type			
Location			
Framing size (H x W) (mm)			
Leaf size (H x W) (mm)			
Jamb finish			
Door type			
Door finish			
Number of doors			
Lining thickness (mm)			
Optional features			
Track finish			
Handle type			

A, B, C: These designate each instance or type or location of the item scheduled.

Edit codes in the **Schedule** to match those on drawings.

Product type: Select from the following range of CS Cavity Sliders wardrobe sliders:

- CS Premier™ 2T-140.
- CS Premier™ 3T-190.
- CS TopFix™ 2T-90.

Jamb finish: e.g. Timber, Aluminium anodised, Aluminium powder coated.

Door type: e.g. Solid core, or select from the range of CS Cavity Sliders doors.

Door finish: e.g. Paint, Anodised, Powder coated,

Optional features: Select from the following range of CS Cavity Sliders optional features:

- Full-Height™.
- NoClosingJamb™.
- Shadowline™.
- SquareStop.

Track finish: e.g. Anodised, Powder coated.

Handle type: Select from the following range:

- CL200 Passage.
- CL400 Passage
- Timber door edge pull.
- Aluminium door edge pull.
- Louey.

CS CAVITY SLIDERS track systems schedule

Property	A	B	C
Product type			
Number of tracks			
Stacking system			
Pelmet			
Door type			
Door hardware			

A, B, C: These designate each instance or type or location of the item scheduled.

Edit codes in the **Schedule** to match those on drawings.

Product type: Select from the following range of CS Cavity Sliders track systems:

- WallMountTrack™.
- Partition-TopMountTrack™.
- FH-CeilingMountTrack™.

Stacking system: e.g. Required.

Pelmet (for partition top mount track): e.g. Flush, Horizontal leg.

Door type: Door type: e.g. Solid core, or select from the range of CS Cavity Sliders doors.

Door hardware: Select from CS Cavity Sliders range of locks, latches and handles.

4.3 DOORSETS SCHEDULE

Doorsets performance schedule

Property	A	B	C
Fire-resistance level (FRL)			
Weighted sound reduction index (R_w and $R_w + C_{tr}$)			

A, B, C: These designate each instance or type or location of the item scheduled.

Edit codes in the **Schedule** to match those on drawings.

Fire resistance level (FRL): State the required level to AS 1530.4, delete or state Not applicable. See NATSPEC TECHnote DES 020 on fire behaviour of building materials and assemblies.

Weighted sound reduction index: State the requires rating to AS/NZS ISO 717.1. It is advisable to obtain the advice of an acoustic consultant on the selection of an R_w or $R_w + C_{tr}$ rating for sound transmission reduction. Refer to NATSPEC TECHnote DES 032 for information on airborne sound insulation.

Security screen doors construction schedule

Property	A	B	C
Type			
Material			
Finish			
Hinges: Material			
Hinges: Fixing			
Lock			

A, B, C: These designate each instance or type or location of the item scheduled.

Edit codes in the **Schedule** to match those on drawings.

Specification by proprietary item (manufacturer's standard door suite), will automatically cover most of the descriptive items in this schedule.

Type: Hinged to Type I or II or III. Sliding to Type I, II or III. AS 5039 clause 5.2 describes the following three types.

- Type I prevents an arm from passing through.
- Type II allows an arm but prevents bodily entry.
- Type III prevents insects passing through.

Material: Steel or aluminium.

Finish: See AS 5039 clause 6.2 for corrosion protection finishes.

Hinges:

- Material: e.g. Aluminium.

- Fixing: Rivets or fastening devices. See AS 5039 clause 6.7 and AS 5039 clause 6.8.

Lock: See AS 5039 clause 6.5. If the manufacturer's standard lock and hardware are not acceptable, nominate non-standard hardware using the titles of items specified in detail in *0455 Door hardware*, or by the designations (trade names, etc.) of proprietary products.

Fire-resisting doorsets construction schedule

Property	A	B	C
Automatic closure: Action			
Edge strips thickness			
Face veneers: Veneer quality			
Face veneers: Timber species or group			
Face veneers: Matching arrangement			
Fire resistance level			
Glazing			
Hardware: Item			
Hardware: Material			
Hardware: Finish			

A, B, C: These designate each instance or type or location of the item scheduled.

Edit codes in the **Schedule** to match those on drawings.

Specification by proprietary item (manufacturer's standard door suite), will automatically cover most of the prescriptive items in this schedule.

Automatic closure: As defined in AS 1905.1 Required, or delete.

- Action: Hinged, Double acting or Sliding (may be shown on the drawings).

Face veneers:

- Veneer quality: e.g. A for clear finish, B for opaque.
- Matching arrangement: (clear finishes only) e.g. Book, Centre, Diamond, Random or Slip.

Fire-resistance level: State required level to AS 1530.4 (in minutes structural adequacy/integrity/insulation).

Glazing: A non-insulated Vision panel up to 65,000 mm² clear opening area is permitted by AS 1905.1, clause 2.5, but regulations may override.

Hardware: e.g. Locksets, latchsets, hinges, floor springs and pivots, closers, handles, flush pulls. The hardware is an integral part of the certified installation (see AS 1905.1 clause 5.6). Consult the manufacturers. The description may be cross-referred to items specified in detail in the *0451 Windows and glazed doors and glazed doors* and *0455 Door hardware* worksections. List non-standard hardware here.

See NATSPEC TECHnote DES 018 on bushfire protection.

Automatic doorset schedule

Property	A	B	C
Pedestrian traffic			
Door configuration			
Drive type			
Drive location			
Motion sensor control device			
Proprietary door suite			
Glazing			

Property	A	B	C
Aluminium frame finish			
Powder coating: Service condition category			
Powder coating: Coating performance			
Powder coating: Coating type			
Powder coating: Polyester coating grade			
Powder coating: Product			
Powder coating: Gloss level			
Colour			
Design wind pressure			
Lock type			

A, B, C: These designate each instance or type or location of the item scheduled.

Edit codes in the Schedule to match those on drawings.

Pedestrian traffic: e.g. Light, Medium or Heavy.

Door configuration: e.g. Single slide, Bi-part slide or Revolving.

Drive type: e.g. Electromechanical, or specify a proprietary product.

Drive location: e.g. Overhead-concealed or Surface-applied.

Motion sensor control device: e.g. Infra-red, or specify a proprietary product.

Proprietary suite: Nominate proprietary window and glazed door suite if applicable.

Glazing: Nominate here or refer to *0461 Glazing*.

Aluminium frame finish: e.g. Powder coat or anodised.

Powder coating

Service condition category: AS 3715 clause 1.4 describes service condition categories for powder coated aluminium architectural applications based on the severity of the environment. Select from the following atmospheric environments:

- Category 3 – Exterior mild to moderate.
- Category 4 – Tropical.
- Category 5 – Exterior severe.

Categories 1 and 2, applicable to interior environments, are not included in this standard. See also NATSPEC TECHnote DES 010 on atmospheric corrosivity categories for ferrous products.

Coating performance: The American Architectural Manufacturers Association's (AAMA) standards represent the various warranty performances available and should be selected appropriate to the class of the project and the application. Select from:

- To AAMA 2603 or AS 3715. Applicable to class 1 and 10A of the NCC.
- To AAMA 2604. Applicable to all classes of the NCC.
- To AAMA 2605. Applicable to all classes of the NCC.

Coating type: Thermoset polyester powder coating or Thermoset fluoropolymer powder coating.

Polyester coating grade: General or Commercial. Delete if using fluoropolymer powder coating.

Product: Contact the manufacturer's data sheets for a complete product description.

Gloss level: e.g. Texture, Matt, Satin or Gloss. Not all gloss levels are available across the colour ranges.

Colour: Consult the manufacturer's colour charts.

Design wind pressure: Nominate the design wind pressure for the project to AS/NZS 1170.2 or AS 4055 as required by the supplier.

Lock type: e.g. Entrance lock. Refer to *0455 Door hardware*.

REFERENCED DOCUMENTS

The following documents are incorporated into this worksection by reference:

AS 1397	2011	Continuous hot-dip metallic coated steel sheet and strip - Coatings of zinc and zinc alloyed with aluminium and magnesium
AS 1810	1995	Timber - Seasoned cypress pine - Milled products
AS/NZS 1859		Reconstituted wood-based panels - Specifications
AS/NZS 1859.1	2017	Particleboard
AS/NZS 1859.2	2017	Dry process fibreboard
AS/NZS 1859.4	2018	Wet process fibreboard
AS 1905		Components for the protection of openings in fire-resistant walls
AS 1905.1	2015	Fire-resistant doorsets
AS/NZS 2270	2006	Plywood and blockboard for interior use
AS/NZS 2271	2004	Plywood and blockboard for exterior use
AS 2688	2017	Timber and composite doors
AS 2796		Timber - Hardwood - Sawn and milled products
AS 2796.1	1999	Product specification
AS/NZS 2904	1995	Damp-proof courses and flashings
AS/NZS 2924		High pressure decorative laminates - Sheets made from thermosetting resins
AS/NZS 2924.1	1998	Classification and specifications
AS 4785		Timber - Softwood - Sawn and milled products
AS 4785.1	2002	Product specification
AS 5007	2007	Powered doors for pedestrian access and egress
AS 5039	2008	Security screen doors and security window grilles
AS 5040	2003	Installation of security screen doors and window grilles
AS 5218	2018	Acoustic performance of windows and doors - Methods of test
BCA Spec C3.4	2019	Fire resistance - Fire doors, smoke doors, fire windows and shutters
BS 2571	1990	Specification for general-purpose flexible PVC compounds for moulding and extrusion
BS 4255		Rubber used in preformed gaskets for weather exclusion from buildings
BS 4255-1	1986	Specification for non-cellular gaskets
AAMA 701/702	2011	Voluntary specification for pile weatherstripping and replaceable fenestration weatherseals

The following documents are mentioned only in the *Guidance text*:

AS ISO 717		Acoustics - Rating of sound insulation in buildings and of building elements
AS/NZS ISO 717.1	2004	Airborne sound insulation
AS/NZS 1170		Structural design actions
AS/NZS 1170.2	2011	Wind actions
AS 1530		Methods for fire tests on building materials, components and structures
AS 1530.4	2014	Fire-resistance tests for elements of construction
AS 3715	2002	Metal finishing - Thermoset powder coating for architectural applications of aluminium and aluminium alloys
AS 3959	2018	Construction of buildings in bushfire prone areas
AS 4055	2012	Wind loads for housing
BCA 3.12.3	2019	Acceptable construction - Energy efficiency - Building sealing
BCA D2.15	2019	Access and egress- Construction of exits - Thresholds
BCA J3.4	2019	Energy efficiency - Building sealing - Windows and doors
NATSPEC DES 010	2015	Atmospheric corrosivity categories for ferrous products
NATSPEC DES 018	2008	Bushfire protection
NATSPEC DES 020	2018	Fire behaviour of building materials and assemblies
NATSPEC DES 032	2014	Airborne sound insulation
NATSPEC GEN 006	2007	Product specifying and substitution
NATSPEC GEN 024	2015	Using NATSPEC selections schedules
NATSPEC TR 01	2018	Specifying ESD
AAMA 2603	2017	Voluntary specification, performance requirements and test procedures for pigmented organic coatings on aluminium extrusions and panels
AAMA 2604	2017	Voluntary specification, performance requirements and test procedures for high performance organic coatings on aluminium extrusions and panels
AAMA 2605	2017	Voluntary specification, performance requirements and test procedures for superior performing organic coatings on aluminum extrusions and panels