## Branded worksection

This branded worksection *Template* has been developed by NATSPEC in conjunction with **ASKIN®** (the Product Partner) and may be used whilst the Product Partner is licensed to distribute it. The copyright remains with NATSPEC. As with all NATSPEC worksections, it is the responsibility of the user to make sure it is completed appropriately for the project. The user should also review its applicability for local conditions and regulations. Check [www.natspec.com.au](http://www.natspec.com.au) for the latest updated version.

## Worksection abstract

This branded worksection Template is applicable to a lightweight exterior facade cladding system by **ASKIN®**. The system comprises prefinished composite panels with metal faces bonded to each side of an insulating **ASKIN®** mineral wool core. It is designed to provide insulated and air-tight connections and with a range of colours, prints and profiles to suit any commercial or residential application. Some applications include:

- Sports arenas.
- Residential.
- School/University facilities.
- Hospitals.
- Data facilities.
- Shopping centres.
- Medical centres.
- Aquatic centres.
- Sunshades.
- Awnings.

### 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 hidden text *Hide* and *Delete* functions of your word processing system. For additional information visit FAQs at [www.natspec.com.au](http://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:

- 0182 Fire-stopping.
- 0331 Brick and block construction for brick veneer.
- 0342 Light steel framing for subframing.
- 0382 Light timber framing for subframing.
- 0471 Thermal insulation and pliable membranes for wall insulation, thermal break strips and vapour permeable membranes.
- 0511 Lining for internal lightweight linings.
- 0531 Suspended ceilings – combined for suspended soffits.
- 0671 Painting for in situ paint finishes.
- 0672 Textured and membrane coatings for in situ application of membrane and surface coatings.

Each of the following worksections contains a single cladding system and may be used where appropriate in addition to this worksection.

- 0428p ASKIN XFLAM performance panel roofing.
- 0432 Curtain walls.
- 0433 Stone cladding.
- 0434 Cladding – flat sheets and panels.
- 0435 Cladding – planks and weatherboards.
- 0436 Cladding – profiled and seamed sheet metal.
- 0437 Cladding – insulated panel systems.
0437p ASKIN® VOLCORE performance panel cladding

Cross references
Worksections that cross reference this worksection are:
- None.

Documenting cladding and related work
You may document this and related work as follows:
- Check if your cladding is required to be non-combustible, refer to BCA Section C and ABCB Advisory Note 3. Consider adding a requirement in SUBMISSIONS for evidence of conformance from the contractor. If using a performance solution for facade cladding, type testing to AS 5113 may be used as the verification method for external walls.
- For proprietary cladding systems, import information from suppliers.
- Document the structural support system to your office documentation policy.
- Locate the extent of cladding types, accessories and finishes on drawings to your office documentation policy.
- Penetrations: Show on the drawings the location and extent of penetrations for services and structural elements including flashing details.
- Document the location of openings and penetrations to avoid waste and panel handling times.
- For flush jointed fibre cement soffit lining import the relevant material from 0511 Lining.
- If required, state the minimum thermal resistance (R-Value) (m².K/W). See NATSPEC TECHnote DES 031 for information on specifying R-Values.
- Document bushfire protection requirements to conform to AS 3959 and the NCC. See NATSPEC TECHnote DES 018 for information on bushfire protection.
- Check lead time for imported selections and consider adding a requirement, in SUBMISSIONS, for the builder to confirm availability.

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

For example:
- Location of control joints.

Search acumen.architecture.com.au, the Australian Institute of Architects’ practice advisory subscription service, for notes on the following:
- Guarantees and warranties.

Specifying ESD
ASKIN® VOLCORE Performance Panels have the following sustainable product attributes:
- Thermal and acoustic performance.
- Easy to seal slip joint facilitating efficient hermetically sealed construction to allow controlled air flow and heating and cooling of the internal environment.
- 100% recyclable and may incorporate a proportion of granulated offcuts. The steel skins are recovered and recycled into new steel.
- Measures to minimise condensation leading to greater equipment life and limiting risk of microbial growth.
- Prohibition on use of CFCs and HCFCs as blowing agents.
- Durable components, particularly for corrosion resistance.
- Provision to reduce transmitted noise and vibration.
- pH neutral matrix which is inert and resistant to water ingress.
- Production plants with extremely low carbon footprint, nil water use and minimal atmospheric or other emissions.
- During its lifetime, ASKIN® VOLCORE insulating material will save many times more energy through reduction of heating and cooling requirements than the energy or resources required for its manufacture.

The following may be specified by including additional text:
- Metal cladding finished with low VOC or non-VOC finish.

Refer to the NATSPEC TECHreport TR 01 on specifying ESD.

1 GENERAL

ASKIN® is a leading manufacturer and installer of insulated architectural facade systems, roofing systems and temperature controlled facilities in Australasia. We embrace a customer first approach in delivering sustainable, lifetime value. With a
network of 12 sites throughout Australia and New Zealand, ASKIN®’s vast experience has been built upon a strong foundation dating back to 1964. ASKIN®’s culture of customer first, constant improvement, quality and safety assurance is supported with our technical expertise and ISO 9001:2015 accreditation.

1.1 RESPONSIBILITIES

General
Requirement: Provide an ASKIN® VOLCORE Performance Panel fully insulated exterior facade cladding system and associated work, as documented.

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

The ASKIN® external wall and façade panel system is fast to install, weather tight and exceeds the thermal requirements of BCA Section J. The prefinished internal lining and superior spanning capability reduces in installation cost.

Atmospheric corrosivity
Atmospheric corrosivity category: To 0171 General requirements.

Refer to 0171 General requirements for the designation of the Exterior atmospheric corrosivity category of the project.

Distance from marine influence: [complete/delete]

Where the corrosive factor is a marine influence, the distance from marine influence determines the finish and grade of steel required.

1.2 COMPANY CONTACTS

ASKIN® contacts
Website: www.askin.net.au/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 MANUFACTURER’S DOCUMENTS

Technical manuals
Website: For more technical information:
- General: www.askin.net.au
- External walls: www.askin.net.au/downloads/#askin-spec-sheets

1.5 TOLERANCES

Permitted deviations
Requirement: To ASKIN®’s recommendations.
Structural steelwork for ASKIN® wall cladding: ± 5 mm between bearing planes of adjacent supports.

1.6 SUBMISSIONS

Fire performance
Combustibility: Submit evidence of conformity to PRODUCTS, FIRE PERFORMANCE, Combustibility.

Fire hazard properties: Submit evidence of conformity to PRODUCTS, FIRE PERFORMANCE, Fire hazard properties.

Operation and maintenance manuals
Requirement: Submit ASKIN® Warranty and maintenance for care and maintenance of ASKIN® VOLCORE Performance Panel exterior facade system, including frequency of inspection and recommended methods of access, cleaning, repair and replacement.
Products and materials
Type tests: As appropriate for the project, submit evidence of conformity to the following:
- Air infiltration test to AS/NZS 4284 clause 8.4 for test pressures of ± 150 Pa or ± 300 Pa as documented.
- Water penetration test by static pressure to AS/NZS 4284 clause 8.5 at test pressure of 300 Pa.
- Water penetration test by cyclic pressure to AS/NZS 4284 clause 8.6 at test pressure of 600 Pa.

BCA FP1.4 requires that cladding prevent the penetration of water so that internal conditions do not become unhealthy or dangerous. ASKIN® can provide evidence of ASKIN®VOLCORE performance panel cladding conformity to NCC weatherproofing requirements.

Type tests are carried out off site. However, submission of evidence of a successful type test may be called up here for requirements specified in SELECTIONS or PRODUCTS if there are no SELECTIONS. Refer to AS 1562.3 clause 5.3 for resistance of metal cladding to wind pressures for cyclone regions.

Evidence of delivery: Submit delivery docket as evidence of delivery: [complete/delete]

If evidence of delivery to site is required for particular products, consider including this Optional style text by changing to Normal style.

Prototypes
General: Erect a prototype of each panel type, including at least one example of each component in the system to verify selections submitted as samples, to demonstrate aesthetic effects, to set quality standards for materials and execution, and to verify performance, including wind loading.
Inclusions:
- Typical components, attachments to building structure and methods of installation.
- Window opening with cladding panel, trim and returns.
- Sealant filled joint.

Type: [complete/delete]

Extent: [complete/delete]

Not less than 1800 mm long x 1200 mm high or Not less than 4.5 m long x 3 m high.

Location: [complete/delete]

Preferably show on the drawings the location and extent of the prototype and the number and type of components to be included. Delete if the size of the project does not justify a prototype.

Incorporation: Subject to approval, incorporate the prototype in the completed works.

This Optional style text may be included by changing to Normal style text.

Samples
Approved samples are retained on site and define the acceptable limits of colour and texture variation.

Finish: Submit samples of the cladding material showing the range of variation available.

Sample size: [complete/delete]

Sample sizes are generally 300 x 300 mm or 600 x 600 mm.

Shop drawings
Insulated panel systems: Submit shop drawings to a scale that best describes the detail, showing the following:
- Dimensioned elevations of all elements.
- Details of construction, connections and all support systems.
- Dimensions of all typical elements and of any special sizes and shapes.
- Provision for the exclusion and/or drainage of moisture.
- Jointing details and method of fixing between individual elements and between this installation and adjacent work, including provision for adjustment.
- Sealant types and full size sections of all sealant-filled joints and backing rods.
- Provision for thermal movement.
- Provision for movement under seismic and wind loads.
- Sequence of installation.
- Co-ordination requirements with other work.
- Schedule of materials, finishes, componentry, hardware and fittings.

**Subcontractors**
General: Submit names and contact details of proposed ASKIN® approved installers.

| Contact ASKIN® for details of ASKIN® approved installers appropriate to construction in your area. |

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

| Describe the requirements of warranties in PRODUCTS or EXECUTION, as appropriate, and list the submissions required here. |

**Weatherproofing performance**
Requirement: Submit evidence of conformity to EXECUTION, GENERAL, Weatherproofing.

| There is no NCC Deemed-to-Satisfy solution for BCA FP1.4. Products and their installation will require both the manufacturers and installers certification or a performance solution. |

1.7 **INSPECTION**

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

- Workshop assemblies before delivery to the site.
- Framing, pliable membranes and insulation before covering up or concealing.
- Completion of a prototype.

| Amend to suit the project, adding critical stage inspections required. |
| Hold points, if required, should be inserted here. |
| Coordinate with requirements for prototypes or delete. |

2 **PRODUCTS**

2.1 **GENERAL**

ASKIN® can provide Branz, FM, Exova and CSIRO tests reports on request for fire testing and Ian Bennie and associates testing to AS/NZS 4284 for weatherproofing.

| 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. |

**Storage and handling**
Requirement: Store and handle materials to the manufacturer’s recommendations and the following:

- Protect materials including edges and surfaces from damage.
- Keep dry and unexposed to weather.
- Do not drag sheets or panels across each other or over other materials.
- Store off the ground.
- Sealed, unopened packaging on a slightly sloped surface to prevent ponding on panel faces.

**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.

| Edit the list to suit the project or delete if not required. |
2.2 FIRE PERFORMANCE

ASKIN® can provide Branz, Exova, AWTA and CSIRO tests reports on request for fire testing and Ian Bennie and associates testing to AS/NZS 4284 for weatherproofing.

**Combustibility**
Cladding: Tested to AS 1530.1.

ASKIN® can provide a Certificate of Assessment (SFC 48282900.3) that ASKIN® mineral wool core panels can be used where a non-combustible material is required in the NCC and satisfies BCA C1.9(e).

Check if your cladding is required to be non-combustible, refer to BCA Section C and ABCB Advisory Note 3.

If using a performance solution for facade cladding, type testing to AS 5113 may be used as the verification method for combustible external walls. Refer BCA CV3 for compliance with BCA CP2 for the spread of fire via the external wall.

**Fire hazard properties**
See NATSPEC TECHnote DES 003 for more information on the fire hazard properties of insulation materials and NATSPEC TECHnote DES 020 on fire behaviour of building materials and assemblies.

Group number: To AS 5637.1.

ASKIN® VOLCORE 100 mm panels tested to AS ISO 9705: Group number 1.
Non-sprinklered buildings: Wall and ceiling linings must either have an average specific extinction area less than 250 m²/kg or a smoke growth rate index not more than 100 as determined by AS 5637.1.
Refer to NATSPEC TECHnote DES 020 for information on fire hazard properties.

Insulation materials: Tested to AS/NZS 1530.3. Fire hazard indices as follows:

- ASKIN® 50 mm thick with Z275 G300 steel skins tested to AS/NZS 1530.3:
  - Ignitability index: 0.
  - Spread-Of-Flame Index: 0.
  - Heat Evolved Index: 0.
  - Smoke Developed Index: 1.

- Spread-of-Flame Index: ≤ 9.
- Smoke-Developed Index: ≤ 8 if Spread-of-Flame Index > 5.

**Fire hazard properties – bonded laminate**
Bonded laminated materials: Tested to AS/NZS 1530.3. Fire hazard indices, as follows:

- Spread of Flame Index: 0.
- Smoke-Developed Index: ≤ 3.

Include if bonded laminated material is being used where a non-combustible material is required. See BCA C1.9(e). Refer to NATSPEC TECHnote DES 020 for information on fire-resistance levels.

**Fire-resistance of building elements**
Fire-resistance level: Tested to AS 1530.4.

Refer to NATSPEC TECHnote DES 020 for information on fire-resistance levels.

ASKIN® VOLCORE panels tested to AS 1530.4:

- FRL for 100 mm thick panel: ≤60/60.
- FRL for 100 mm thick panel: ≤120/120.

The FRL of ASKIN® VOLCORE panels is more than required for a non-loading external wall in a Bushfire Attack Level FZ (BAL-FZ) to AS 3959.

**Fire stops**
Requirement: Where fire-stops and smoke flashings are placed between inner faces of the cladding and building elements (such as beam, slab or column faces), install and seal to meet fire test requirements.

Product: [complete/delete]
Nominate the product here. Delete if the selection of the proprietary products is the responsibility of the contractor.
2.3 ASKIN® VOLCORE PERFORMANCE PANEL

ASKIN® VOLCORE External Wall and Facade Performance Panel 1000 mm
Description: Proprietary panel exterior facade cladding system comprising manufactured, prefinished structural composite panels with metal faces bonded to each side of an insulating, ASKIN® mineral wool core.

ASKIN® VOLCORE External Wall and Facade Performance Panels 1000 mm are locally manufactured and can be installed vertically or horizontally either mechanically through fixed or with a concealed fixing system. Other width panels are available to suit job specific requirements. Contact your local ASKIN sales representative to discuss your project requirements.

ASKIN® VOLCORE VivID Architectural Performance Panel 1000 mm
Description: Proprietary panel exterior facade cladding system comprising manufactured, prefinished structural composite panels with metal faces bonded to each side of an insulating, ASKIN® mineral wool core.

ASKIN® VOLCORE VivID Architectural Performance Panels 1000 mm are locally manufactured and can be installed vertically or horizontally with a weathertight concealed fixing system. Other width panels are available to suit job specific requirements. Contact your local ASKIN sales representative to discuss your project requirements.

ASKIN® VOLCORE insulation core
Material: Non-combustible mineral wool core.

ASKIN® VOLCORE achieves a high insulation rating to easily achieve BCA Section J compliance (R-Values of 1.5 to 8.10 m²K/W). The high insulation value reduces the energy costs required for maintaining a comfortable and efficient environment within the building.

Application: Recommended for general commercial construction, specifically coolstores, supermarkets, municipal facilities, schools, hospitals, food and drug manufacture, storage, distribution and cold chain.

Internal and external skins
Document requirements in the ASKIN® VOLCORE External Wall and Facade Performance Panel 1000 mm schedule or ASKIN® VOLCORE VivID Architectural Performance Panels 1000 mm schedule.

Skin material and thickness: As documented.

The standard external skin material is 0.6 mm AM100 colour coated steel. The standard internal skin is 0.6 mm Z275 colour coated steel. AZ150, PVDF or ASKIN® 200 Plus are available for alternate performance. All Colorbond® colours or Printech® (PVDF) steel are available.

Factory pre-coating: Polyester to a dry film thickness of 25 microns.

Colorbond®, Permagard® Off-white is standard. All Colorbond®, Colorbond® Permagard® or Printech® (PVDF) colours are available. Printech® (PVDF) is a paint finish. ASKIN® 200 Plus, a 200 micron thick polymer coating, is also available.

Internal skins for highly corrosive conditions (AQUATIC): ASKIN® 200 Plus.

The integrated plastisol 200 µm coating is durable, abrasion-resistant and provides outstanding colour retention and corrosion resistance for the lifetime of the building.

Profile: Internal and external panels profiles, as documented.

Internal wall profile is generally Flat or Rib.

Dimensions
ASKIN® VOLCORE Performance Panels are available in lengths up to 13.5 m subject to location.

Panel thickness: As documented.

ASKIN® VOLCORE Performance Panels are available in thicknesses from 50 - 150 mm. Thickness is dictated by insulation, structural capacity and fire performance required. Contact ASKIN® to discuss your project requirements.

Panel width:
- Standard panel width: 1000 mm.
- VivID Architectural Performance Panel width: 1000 mm.

2.4 COMPONENTS

System accessories
Requirement: ASKIN® system accessories colour matched to performance panels, as documented:
- Top hats.

Steel top hats maximum length 3 m. Aluminium top hats maximum lengths 6 m.
- Preformed insulated corners.

A range of preformed insulated corners as an alternative to traditional corner flashing. Contact ASKIN® Technical regarding suitability of preformed corners and limitations.

Flashings
Prefabricated flashings: Minimum 0.6 mm coated steel to AS 1397 manufactured to suit the selected external and internal sheet.

Fasteners (non-cyclonic)
Primary: Self-tapping, self-drilling screws manufactured from carbon steel, anti-corrosion coated and fitted with a 16 mm diameter bonded washer. If the panel's tongue is removed on site, use face fixed fasteners to ASKIN® recommendations.

Cyclonic applications: Contact ASKIN® technical services for recommendations and testing documentation. This system has been tested to: AS/NZS 1170 for all regions.

Coordinate with 0428p ASKIN XFLAM performance panel roofing.

2.5 SUNDRY COMPONENTS

Sealants
Materials: One-component compounds with a neutral curing mechanism, vulcanising at room temperature. Provide sealants that:
- Do not foster microbial growth.

The requirement that sealants not foster microbial growth is consistent with AS/NZS 3666.1. Sealants that support mould growth (e.g. some grades of silicone) and are unsuitable for use in food preparation areas, laboratories, health facilities and the like.
- Maintain sealing performance for the life of the cladding.
- Bond to the surface of application without primers.
- Are resistant to oils, food acids and water after curing.
- Are non-toxic.
- After curing retain their elastomeric properties over the range of room operating temperatures.
- Are suitable for application by gun or hand tools.
- Are ASKIN® approved for the application.

3 EXECUTION

3.1 GENERAL

Preparation
Substrates or framing: Before fixing cladding, check the alignment of substrates or framing and adjust if required.

Cladding: Make sure the cladding is clean and free of dust and loose particles.

ASKIN® VOLCORE performance panel installation
Requirement: Conform to ASKIN®’s recommendations and standard construction drawings, using ASKIN® approved installers.

Detail control joints, flashing at windows and abutments, and penetrations. Consult ASKIN® for further information.

General: Install cladding as follows:
- Plumb, level, straight and to documented tolerances.
- Fixed or anchored to the building structure in conformance with the wind action loading recommendations.
- Isolated from any building loads, including loads caused by structural deflection or shortening.
- Allow for thermal movement.

Expansion and contraction for the components needs to be provided for. Temperature change due to climatic conditions must not cause harmful buckling, opening of joints, undue stress on fastening and anchors, noise of any kind or other defects.

Site cut panels:
- Provide accurate, true lines with no distortion.
- Cut with a suitable metal cutting circular type saw and treat exposed edges with a suitable edge protection lacquer.
- Cut openings to the minimum size necessary. Penetrations larger than 300 x 300 mm: Provide additional structural support.
Swarf: Remove swarf and any foreign matter immediately from the external surface of panels.
Protection: Protect surfaces and finishes, including the retention of protective coatings during installation.
Fasteners, laps, seals and fillers: Install as documented.
Fixing method: As documented or to one of the following fixing methods to ASKIN®’s recommendations:
- Steel and timber framing: Screw.
- Timber framing: Screw.

Subcontractors
General: Use ASKIN® approved installers for installation and commissioning.

Accessories and trim
Requirement: Provide accessories and trim necessary to complete the installation, or as documented.

Weatherproofing
Requirement: Install cladding as documented. Conform to BCA FP1.4.

Document wall construction to conform to BCA FP1.4 or refer to conforming manufacturers details.

Metal separation
Design for compatibility or detail separation.
Requirement: Prevent direct contact between incompatible metals, and between green hardwood or chemically treated timber and aluminium or coated steel, by either of the following methods:
- Apply an anti-corrosion, low moisture transmission coating to contact surfaces.
- Insert a separation layer.
Incompatible metal fixings: Do not use.

Horizontal cladding
Horizontal cladding surface:
- Minimum slope: 1:15.
- Staining: Slope away from visible vertical facade areas to prevent staining.

Defective and damaged parts
Defective components: Do not install component parts which are defective, including warped, bowed, dented, abraded or broken members.
Damaged parts: Remove and replace damaged parts during installation.

Joints
Requirement: Rigidly secure joints other than movement and open joints. Reinforce as required and fix with hairline abutments or as documented.
Control joints:
- Location: To coincide with structural movement joints and as documented.
- Joint width: To match structural movement joint requirements.

Joints

3.2 COMPLETION

Fasteners
Requirement: If required, adjust for weather tightness without distortion of external panel face.

Reinstatement
Extent: Repair or replace damage to the cladding. If the work cannot be repaired satisfactorily, replace the whole area affected.
Damage to pre-painted finish: Replace panels with scratches in the pre-painted finish greater than 2 mm in width visible from the ground.

BlueScope does not recommend the use of touch-up paint to repair damage or scratches to the painted surface of COLORBOND® or ZINCALUME® steel. See BlueScope TB-02.

Cleaning
Requirement: Remove excess debris, metal swarf, solder, sealants and unused materials.
Exposed metal surfaces: Clean surfaces of substances that interfere with uniform weathering or oxidation.

Protection: Remove protective coatings using methods required by the manufacturer after completion.

ASKIN® panels: Clean surfaces to the manufacturer’s recommendations.

Warranties
General: Provide warranties for materials and workmanship in the form of interlocking warranties from the supplier and the installer.

Form: Against failure of materials and execution under normal environment and use conditions.
- Warranty for workmanship: As offered by the installer.
- Warranty for materials: Submit the manufacturer's published product warranties.

Use only if warranties extending beyond the defects liability period are available for the particular system. Insert the required warranty period and terms, which should be negotiated beforehand. If the warranty is in the form of separate material and installation warranties, the signatures of both manufacturer and installer are required.

The form(s) required should be provided as part of the contract documentation.

ASKIN® standard warranty is up to 25 years. Contact ASKIN® for project specific warranties.

Subject to maintenance conforming to ASKIN® Warranty and maintenance, ASKIN® standard warranty for corrosion or blistering of the skin material is 10 years for general application subject to location and can be up to 25 years depending on the substrate used and the application.

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 ASKIN® EXTERIOR FACADE SYSTEM

ASKIN® VOLCORE External Wall and Facade Performance Panel 1000 mm schedule

<table>
<thead>
<tr>
<th>Property</th>
<th>A</th>
<th>B</th>
<th>C</th>
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</thead>
<tbody>
<tr>
<td>Fire hazard properties:</td>
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<td>Group number</td>
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<td>Panel finish and colour:</td>
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<td>R-Value (m².K/W)</td>
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<td>Trims</td>
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### Property Schedule

<table>
<thead>
<tr>
<th>Property</th>
<th>A</th>
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<tr>
<td>Control joint width</td>
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<td>Flashings and cappings</td>
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<tr>
<td>Fasteners</td>
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</table>

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.

Contact ASKIN® to discuss your project requirements.

Fire hazard properties: Group number: Refer to BCA Spec C1.10.
Fire-resistance level (FRL): If required, nominate the FRL to AS 1530.4.
Panel thickness: Select from 50 mm, 75 mm, 100 mm, 120 mm or 150 mm.

Panel skin material: Internal and external Select from:
- AM100 colour coated steel.
- Z275 colour coated steel.
- AZ150 colour coated steel.
- ASKIN® 200 Plus.
- Colorbond® Permagard®
- Stainless steel.
- Aluminium.
- Printech® steel.

Panel skin thickness: Internal and external: e.g. 0.6 mm.

Panel profile: Internal and external: Select from:
- Flat.
- Mesa.
- Rib.
- Silkline.

Panel finish: External: Select from Colorbond®, Colorbond®, Permagard®, Printech® (PDVF) or ASKIN® 200 Plus ranges.
Panel finish: Internal: Select from Colorbond®, Colorbond®, Permagard®, Printech® (PDVF) or ASKIN® 200 Plus ranges.

R-Value: Select from the manufacturer’s range. AS/NZS 4859.1 requires that R-Value is declared at 23°C for insulation products sold in Australia.

Trims: e.g. Proprietary accessories for sills, reveals or corner returns.
Flashings and cappings: e.g. Prefinished sheet metal to match cladding colour. Coordinate with 0421 Roofing – combined.
Fasteners: e.g. Concealed or Pierced: Crest or Valley.

---

### ASKIN® VOLCORE ViviD Architectural 1000 mm performance panel schedule

<table>
<thead>
<tr>
<th>Property</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire hazard properties:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Group number</td>
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</tr>
<tr>
<td>Fire-resistance level (FRL)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internal environment</td>
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<td></td>
</tr>
<tr>
<td>Panel thickness (mm)</td>
<td>75-150 mm</td>
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<td></td>
</tr>
<tr>
<td>Panel skin material:</td>
<td>AM100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>External</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Panel skin material:</td>
<td>Z275</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internal</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Panel skin thickness:</td>
<td>0.7 mm</td>
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</tr>
<tr>
<td>External (mm)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Panel skin thickness:</td>
<td>0.6 mm</td>
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<td></td>
</tr>
<tr>
<td>Internal (mm)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Property

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel profile: External</td>
<td>Silkline</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Panel profile: Internal</td>
<td>Flat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Panel finish and colour: External</td>
<td>Colorbond® Surfmist®</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Panel finish and colour: Internal</td>
<td>Colorbond® Surfmist®</td>
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</tr>
<tr>
<td>R-Value (m².K/W)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trims</td>
<td></td>
<td></td>
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<tr>
<td>Control joint width</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flashings and cappings</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fasteners</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

Contact ASKIN® to discuss your project requirements.

Fire hazard properties: Group number: Refer to BCA Spec C1.10.

Fire-resistance level (FRL): If required, nominate the FRL to AS 1530.4.

Panel thickness: Select from 75 mm, 100 mm, 120 mm or 150 mm.

Panel skin material: Internal and external Select from:
- AM100 colour coated steel.
- Z275 colour coated steel.
- AZ150 colour coated steel.
- ASKIN® 200 Plus.
- Colorbond® Permagard®
- Stainless steel.
- Aluminium.
- Printech® steel.

Panel skin thickness: Internal and external: e.g. 0.4, 0.5 or 0.6 mm.

Panel profile: Internal and external: Select from:
- Seamless
- Silkline.
- Ambience.
- Infinite.
- Transform.

Panel finish: External: Select from Colorbond®, Colorbond®, Permagard®, Printech® (PDVF) or ASKIN® 200 Plus ranges.

Panel finish: Internal: Select from Colorbond®, Colorbond®, Permagard®, Printech® (PDVF) or ASKIN® 200 Plus ranges.

R-Value: Select from the manufacturer’s range. AS/NZS 4859.1 requires that R-Value is declared at 23°C for insulation products sold in Australia.

Trims: e.g. Proprietary accessories for sills, reveals or corner returns.

Flashings and cappings: e.g. Prefinished sheet metal to match cladding colour. Coordinate with 0421 Roofing – combined.

Fasteners: e.g. Concealed or Pierced: Crest or Valley.

### Cladding support schedule

<table>
<thead>
<tr>
<th>Property</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
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<tbody>
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<td>Material</td>
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<tr>
<td>Vertical members</td>
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<tr>
<td>Property</td>
<td>A</td>
<td>B</td>
<td>C</td>
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</tr>
<tr>
<td>Horizontal members</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Spacing: Vertical members</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spacing: Horizontal members</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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: Nominate proprietary items or describe the cladding support system and document the subframe to your office documentation policy. Fabricated panels are usually secret fixed to the structural support or the subframe. Cross reference 0342 Light steel framing for the subframe or import the relevant clauses, if required.

Material: e.g. Galvanized steel, Anodized aluminium or Stainless steel appropriate to the project’s location.

If using anchors or attachments cast in the concrete structure, refer to information on embedded anchors in 0432 Curtain walls and documented in the selected concrete worksections.

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 1530 1999 Methods for fire tests on building materials, components and structures
- AS/NZS 1530.3 1999 Simultaneous determination of ignitability, flame propagation, heat release and smoke release
- AS 1530.4 2014 Fire-resistance tests for elements of construction
- AS/NZS 4284 2008 Testing of building facades
- AS 5637 1999 Determination of fire hazard properties
- AS 5637.1 2015 Wall and ceiling linings
- BCA FP1.4 2019 Health and amenity - Damp and weatherproofing - Performance requirements

The following documents are mentioned only in the Guidance text:

- AS/NZS 1170 2010 Structural design actions
- AS 1562 2006 Design and installation of sheet roof and wall cladding
- AS 1562.3 2011 Plastics
- AS/NZS 3666 2011 Air-handling and water systems of buildings - Microbial control
- AS/NZS 3666.1 2011 Design, installation and commissioning
- AS 3959 2018 Construction of buildings in bushfire-prone areas
- AS/NZS 4859 2018 Structural design actions
- AS/NZS 4859.1 2018 General criteria and technical provisions
- AS 5113 2016 Classification of external walls of buildings based on reaction-to-fire performance
- ABCB Advisory Note 3 2016 Fire performance of external walls and cladding
- BCA Section C 2019 Fire Resistance
- BCA C1.9(e) 2019 Fire resistance - Fire resistance and stability - Non-combustible building elements
- BCA CP2 2019 Fire resistance - Performance requirements - Spread of fire
- BCA CV3 2019 Fire resistance - Verification method - Fire spread via external walls
- BCA Spec C1.10 2019 Fire resistance - Fire hazard properties
- BCA Spec J 2019 Energy efficiency
- BlueScope TB-02 2019 Overpainting and restoration of exterior BlueScope Steel products
- NATSPEC DES 003 2018 Fire hazard properties of insulation and pliable membranes
- NATSPEC DES 018 2019 Bushfire protection
- NATSPEC DES 020 2018 Fire behaviour of building materials and assemblies
- NATSPEC DES 031 2019 Specifying R-Values
- NATSPEC GEN 006 2015 Product specifying and substitution
- NATSPEC GEN 024 2015 Using NATSPEC selections schedules
- NATSPEC TR 01 2015 Specifying ESD
- ISO 9001 2015 Quality management systems - Requirements