

0437P ASKIN® VOLCORE PERFORMANCE PANEL CLADDING

Branded worksection

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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 airtight 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.

How to use this worksection

Customise this worksection *Template* for each project. See [A guide to NATSPEC worksections \(www.natspec.com.au\)](http://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, including:

- 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.
- 0530 *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 if appropriate in addition to this worksection:

- 0432 *Curtain walls*.
- 0433 *Stone cladding*.
- 0434 *Cladding - flat sheets and panels*.
- 0435 *Cladding - planks and weatherboards*.
- 0436 *Cladding - profiled and seamed sheet metal*.

Related branded worksections include:

- 0428p ASKIN VOLCORE performance panel roofing.
- 0428p ASKIN XFLAM roofing system.
- 0437p ASKIN XFLAM performance panel cladding.
- 0762p ASKIN XFLAM performance panels in cool rooms.

Documenting this and related work

You may document this and related work as follows:

- Refer to CodeMark Certificate CM40333 for ASKIN Volcore Exterior Standard, Vivid Acoustic and Vivid Performance Panels.
- Check if your cladding is required to be non-combustible, refer to BCA (2025) Section C and *ABCB Fire performance of external walls and cladding advisory note (2020)*. 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 (2016) may be used as the verification method for external walls.
- Weatherproofing: Conform to BCA (2025) F1D15 for Class 2 to Class 9 buildings or BCA (2025) H2D6 for Class 1 and 10 buildings. Alternatively, document a Performance Solution. Consider adding a requirement for evidence of conformance from the contractor. Refer to NATSPEC TECHnote DES 044 for information on weatherproofing of external walls.
- ASKIN® can provide test reports on request from Ian Bennie and Associates for weatherproofing to AS/NZS 4284 (2008).
- 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.
- In bushfire-prone areas, document bushfire protection requirements to AS 3959 (2018) 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 contractor to confirm availability.
- This worksection includes reference to BCA (2025) Section J. NCC (2025) notes that for Class 2 buildings, BCA (2025) Section J is replaced by the equivalent section in NCC (2022). If your project is required to be to another edition of the NCC, review all NCC citations in this worksection and edit accordingly.

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.
- Site planning and design for bushfire.

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 airflow 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 NATSPEC TECHreport TR 01 on specifying ESD.

1 GENERAL

ASKIN® is an Australian-owned manufacturer and installer of facade systems, roofing systems and temperature-controlled facilities in Australasia. ASKIN® embraces a customer first approach in delivering sustainable, lifetime value. With a network of 12 sites throughout Australia and New Zealand, ASKIN®'s vast experience is built upon a strong foundation dating back to 1964. ASKIN®'s culture of constant improvement, quality and safety assurance is supported by our technical expertise and ISO 9001 (2015) and ISO 14001 (2015) accreditation.

1.1 RESPONSIBILITIES

General

Requirement: Provide an ASKIN® Exterior Volcore 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® Volcore performance panels external wall system is a fully insulated wall and facade system. It is fast to install, weathertight and exceeds the thermal requirements of BCA (2025) Section J. The prefinished internal lining and superior spanning capability reduces in installation cost. With key supply partners, ASKIN® offer a range of skylights, trafficable access walkways and safety systems to complement our roofing systems.

It is available in three configurations: Exterior Volcore panel, Exterior Volcore Vivid Panel, Exterior Volcore Vivid Acoustic Panel.

The ASKIN® Volcore performance panels external wall system can be used in place of traditional built-up layered walls and offers the following advantages:

- Reduced installation costs: Modular and prefinished requiring fewer girts and structure.
- Improved levels of airtightness: External continuous uniform end lap with an internal slip joint.
- Minimised risk of condensation or cold bridging.
- Reduced thickness suitable for residential applications.
- Hygienic and low maintenance finish suitable for food processing, food preparation and cool storage facilities.
- Improved acoustic solution for the requirements of Noise Reduction Co Efficiency.

The responsibility of the designer is to provide a wall or facade system and associated work that is as follows:

- Designed in conformance with the ASKIN® standard wall and façade instructions.
- Resistant to impacts expected in use.
- Free of irregularities.

Corrosion resistance

Material: To the manufacturer's recommendations for distance from marine influence.

Distance from marine influence: [complete/delete]

The distance from marine influence can be used as a guide to determine the finish and grade of steel required, however other factors may also need consideration. For information on determining corrosivity categories in relation to environmental influences, see AS 2312.1 (2014) Table 2.1, AS 4312 (2019) Table 2.1 and Table 4.1. Refer to **CORROSION RESISTANCE, Atmospheric corrosivity category** in 0171 General requirements, for the project corrosivity categories to AS 4312 (2019). Refer also to BlueScope Technical bulletins BlueScope TB-01A (2023) and BlueScope TB-01B (2022), which discuss the selection of steel roofing and walling products, and the correlation of distance to marine influence to the corrosion categories defined in AS 4312 (2019).

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: askin.net.au
- External walls: 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

Non-combustibility: Submit evidence of conformity to **FIRE PERFORMANCE, Non-combustibility**.

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

Fire-resistance level: Submit evidence of conformity to **FIRE PERFORMANCE, Fire-resistance of building elements**.

Operation and maintenance manuals

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

Products and materials

Thermal insulation performance: Submit evidence of performance to AS/NZS 4859.1 (2018) and AS/NZS 4859.2 (2018).

This is primarily to verify claimed R-Values for NCC compliance.

Thermal insulation performance for ASKIN® Volcore performance panel cladding is verified by CodeMark. Refer to CodeMark Certificate CM40333.

Type tests: Submit test results for the following:

- Facade: To PRODUCTS, **GENERAL, Tests**.

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 PRODUCTS.

Evidence of delivery: Submit delivery docket as evidence of delivery of the following:

- [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

Requirement: Submit prototypes to EXECUTION, **GENERAL, Prototypes**.

Include this *Optional* style subclause by changing to *Normal* style text if the *Optional* EXECUTION, **GENERAL, Prototypes** subclause is included.

Samples

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

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.
- Coordination 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.

Substrate acceptance

Requirement: Submit evidence of installer's acceptance of the wall substrate or framing before starting installation.

Warranties

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

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.

Edit 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 **SUBSTITUTIONS** in 0171 General requirements.

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

Samples

Approved samples that define the acceptable limits of colour and texture variations are retained on site. If particular or additional samples are required, list them here.

Requirement: Provide samples of the following including the range of variation available:

- Cladding material.
- Trim and accessories with a colour finish.
- Custom profiled flashings and cappings.
- Sealants.

Sample size: [complete/delete]

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

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 clean, dry and unexposed to weather.
- Do not drag panels across each other or over other materials.
- Store off the ground in 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.

Tests

0171 General requirements defines different tests in **INTERPRETATION, Definitions**.

Water penetration: To AS/NZS 4284 (2008).

BCA (2025) F1P1 requires that external walls prevent the penetration of water so that internal conditions do not become unhealthy or dangerous.

Structural testing: To AS/NZS 4284 (2008).

Resistance to wind pressures:

- Non-cyclonic wind regions: To AS 4040.2 (1992).
- Cyclonic wind regions: To AS 4040.3 (2018).

ASKIN® can provide evidence of ASKIN® Volcore performance panel cladding conformity to NCC weatherproofing requirements. Refer to CodeMark Certificate CM40333.

2.2 FIRE PERFORMANCE

ASKIN® can provide BRANZ, FM, Warrington Fire, AWTa, IGNIS and CSIRO tests reports on request for fire testing.

Non-combustibility

ASKIN® Volcore materials: Tested to AS 1530.1 (1994) and deemed to be non-combustible.

The NCC cites AS 1530.1 (2024), however NCC (2025) Schedule 2 Table Note 2 notes that tests carried out based on AS 1530.1 (1994) and issued before AS 1530.1 (2024) being referenced in the NCC remain valid.

Check if your cladding is required to be non-combustible, refer to BCA (2025) Section C and the *ABCB Fire performance of external walls and cladding advisory note (2020)*.

If using a Performance Solution for facade cladding, type testing to AS 5113 (2016) may be used as the verification method for external walls. Refer to BCA (2025) C1V3 for compliance with BCA (2025) C1P2 for the spread of fire via the external wall.

ASKIN® can provide a Certificate of Conformity (CodeMark Certificate CM40333) that ASKIN® mineral wool core panels can be used where a non-combustible material is required in the NCC.

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 (2015).

ASKIN® Volcore 200 mm panels tested to AS ISO 9705 (2003): Group number 1.

Volcore Vivid Acoustic Panel has been tested to the requirements of AS ISO 9705 (2003), Group 1 with SMOGRArc 1.5. Refer to CodeMark Certificate CM40333.

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 (2015).

Refer to NATSPEC TECHnote DES 020 for information on fire hazard properties.

Bonded laminated materials: Tested to AS/NZS 1530.3 (1999). 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 (2025) C2D10(6). Refer to NATSPEC TECHnote DES 020 for information on fire-resistance levels.

Insulation materials: Tested to AS/NZS 1530.3 (1999). Fire hazard indices as follows:

ASKIN® 50 mm thick with Z275 G300 steel skins tested to AS/NZS 1530.3 (1999):

- Ignitability index: 0.
- Spread-of-Flame Index: 0.
- Heat Evolved Index: 0.

- Smoke Developed Index: 1.

Volcore Acoustic ViviD Exteriors Panels tested to AS/NZS 1530.3 (1999):

- Spread-of-Flame Index: 0.
- Smoke-Developed Index: 2.

Refer to CodeMark Certificate CM40333.

- Spread-of-Flame Index: ≤ 9 .
- Smoke-Developed Index: ≤ 8 if Spread-of-Flame Index is more than 5.

Fire-resistance of building elements

Fire-resistance level: Tested to AS 1530.4 (2014).

Refer to NATSPEC TECHnote DES 020 for information on fire-resistance levels. Refer also to CodeMark Certificate CM40333.

ASKIN® Volcore panels tested to AS 1530.4 (2014) (FAS210329):

- FRL for 100 mm thick panel: -/60/60.
- FRL for 150 mm thick panel: -/120/120.
- FRL requirements for doors and penetrations upon request.

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 (2018).

2.3 ASKIN® EXTERIOR VOLCORE PANEL SYSTEM

General

Requirement: 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.

Certification: CodeMark Certificate of Conformity CM40333.

The date of expiry of this CodeMark Certificate of Conformity is 17/12/2027.

See CodeMark Certificate of Conformity for conditions and limitations. To confirm it has not been withdrawn, suspended or superseded by a later issue, see register.jasanz.org/codemark-register for the CodeMark Register of Certificates of Conformity.

ASKIN® Exterior Volcore Panels 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® Exterior Volcore Panels achieve FM accreditation in all two relevant certifications for Insulated Panel Systems – FM 4880 (2017) and FM 4881 (2016). These Approvals cover full scale fire, severe hail, and hurricane conditions.

ASKIN® Volcore insulation core

Material: Non-combustible mineral wool core.

ASKIN® Volcore insulation core is a market leading, insurer endorsed, innovative product. It is a mineral wool core that has excellent mechanical properties, superior insulation values, low toxicity and is completely recyclable. ASKIN® Volcore achieves a high insulation rating to easily achieve BCA (2025) Section J compliance The high insulation value reduces the energy costs required for maintaining a comfortable and efficient environment within the building. ASKIN® Volcore Performance Panels achieve FM accreditation in all two relevant certifications for Insulated Panel Systems, FM 4880 (2017) and FM 4881 (2016). These Approvals cover full scale fire, severe hail, and hurricane conditions.

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

Standard: To AS 1562.1 (2018).

AS 1562.1 (2018) requires steel conform to AS 1397 (2021) for continuously hot dip metallic-coated sheet and strip or AS/NZS 2728 (2013) for prepainted and organic film/metal laminate products.

Document requirements in the **ASKIN® Exterior Volcore Panel schedule** or **ASKIN® Exterior Volcore ViviD panel schedule** or **ASKIN® Exterior Volcore ViviD acoustic panel schedule**.

Skin material and thickness: As documented.

Perforated internal skins: For high noise reduction coefficient conditions.

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 Colorbond® PVDF steel are available. Special Perforated Internal skin for the Exterior Volcore ViviD Acoustic panel for superior acoustic requirements has 33% perforated holes for improved acoustic performance.

Factory precoating: Polyester to a dry film thickness of 25 µm.

Colorbond® Intramax™ Off-white is standard. All Colorbond®, Colorbond® Intramax™ or Colorbond® PVDF colours are available. Colorbond® PVDF is a paint finish. ASKIN® 200 Plus, a 200 µm 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 Panels are available in lengths up to 13.5 m subject to location.

Panel thickness: As documented.

ASKIN® Volcore Panels are available in thicknesses from 50 to 200 mm. Thickness is dictated by insulation, structural capacity and fire performance required. Contact ASKIN® to discuss your project requirements.

Panel width:

- Standard panel width: As documented.
- Volcore ViviD Panel width: 1000 mm.
- Volcore ViviD Acoustic Panel width: 1000 mm.

Contact ASKIN® for other widths available.

2.4 ASKIN® EXTERIOR VOLCORE PANEL

General

Description: Proprietary exterior facade cladding panels comprising manufactured, prefinished composite panels with metal faces bonded to each side of an insulating, ASKIN® mineral wool core. The ASKIN® Exterior Volcore Panel integrates the ASKIN® Slip Jointing system.

ASKIN® Exterior Volcore Panels 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® Exterior Volcore Panels achieve FM accreditations in relevant certifications for Insulated Panels - FM 4881 (2016) and FM 4880 (2017) Class 1 Unlimited Height.

Thermal conductivity to AS/NZS 4859.1 (2018): $\leq 0.0362 \text{ W/(m.K)}$.

2.5 ASKIN® EXTERIOR VOLCORE VIVID PANEL

General

Description: Proprietary exterior facade cladding panels comprising manufactured, prefinished composite panels with metal faces bonded to each side of an insulating, ASKIN® mineral wool core. The ASKIN® Volcore ViviD panel is a concealed fixing panel system.

ASKIN® Exterior Volcore ViviD Panels 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® Exterior Volcore ViviD Panels achieve FM accreditations in relevant certifications for Insulated Panels - FM 4881 (2016) and FM 4880 (2017) Class 1 Unlimited Height.

Thermal conductivity to AS/NZS 4859.1 (2018): $\leq 0.0362 \text{ W/(m.K)}$.

2.6 ASKIN® EXTERIOR VOLCORE VIVID ACOUSTIC PANELS

General

Description: Proprietary exterior facade cladding panels comprising manufactured, prefinished composite panels with metal faces bonded to each side of an insulating, ASKIN® mineral wool core. The ASKIN® Volcore ViviD Acoustic panel is a concealed fixing panel system with an internal perforated steel skin to expose the high density mineral wool core for its acoustic properties.

ASKIN® Exterior Volcore ViviD Acoustic Panels 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.

Thermal conductivity to AS/NZS 4859.1 (2018): $\leq 0.0362 \text{ W/(m.K)}$.

2.7 COMPONENTS

General

Cladding support: Provide components, as documented.

Document in the **Cladding support schedule**. If using cast-in anchors and/or cast-in fasteners, see *0314 Concrete in situ* and document requirements in *0314 Concrete in situ* or on drawings.

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 (2021) manufactured to suit the selected external and internal sheet.

Flashings: To AS/NZS 2904 (1995).

Coordinate with *0428p ASKIN VOLCORE performance panel roofing*.

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.

2.8 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 (2011). 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.

- 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® Exterior Volcore panel system installation

Standard: To AS 1562.1 (2018).

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.

Installation: 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.

Provide for expansion and contraction of components. Temperature change due to climatic conditions must not cause harmful buckling, opening of joints, undue stress on fastening and anchors, noise 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, and retain protective film 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.

Prototypes

Requirement: Provide 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]

e.g. Not less than 1800 mm long x 1200 mm high or Not less than 4500 mm long x 3000 mm 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.

If a prototype is a project requirement, consider including this *Optional* style text by changing to *Normal* style text and completing the prompts.

Subcontractors

General: Use ASKIN® approved installers.

Joints

Control joints: To coincide with structural movement joints and as documented.

Accessories and trim

Requirement: Provide accessories, flashings and trim required to complete the installation.

Metal separation

Make sure of compatibility or detail separation.

See AS 1562.1 (2018) Table C3 for guidance on the compatibility of metals. See also SA HB 39 (2015) Section 2 on material selection. It is primarily a design responsibility that incompatible metals are not documented or shown to be in contact. Preferably show the separation method on the drawings.

Corrosion can result from water run-off between incompatible surfaces. See AS 1562.1 (2018) clause 3.4.3 and AS 1562.1 (2018) Table C4. There are four conditions to be avoided:

- Run-off from copper and copper alloys onto aluminium, zinc, galvanized, or aluminium/zinc-coated surfaces.
- Run-off from glass onto stainless steel, zinc or galvanized surfaces.
- Run-off from plastic onto zinc or galvanized surfaces.
- Run-off from inert catchment surfaces such as glazed terracotta, prepainted steel, aluminium and aluminium/zinc onto zinc or galvanized surfaces.

In marine or high humidity environments, separate green hardwood from aluminium and coated steel.

Typical methods for metal separation include:

- Applying an anti-corrosion, low moisture transmission coating such as zinc or barium chromate primer or aluminium pigmented bituminous paint to contact surfaces.
- Inserting a separation layer such as polyethylene film, adhesive tape or bituminous felt.

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 fastenings: Do not use.

Defective and damaged parts

Defective components: Do not install component parts that are defective, including warped, bowed, dented, chipped, scratched, abraded or broken members.

3.2 COMPLETION

Fasteners

Requirement: Adjust for weathertightness without distortion of external panel face.

Reinstatement

Requirement: Replace damaged cladding, including cladding with scratches in the prepainted finish.

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 (2022).

Cleaning

Requirement: Remove debris, metal swarf, solder, sealants and unused materials.

Exposed metal surfaces: Remove substances that interfere with uniform weathering or oxidation.

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

Protective film will withstand exposure to weather for a limited period of time before losing its peel-off characteristics and causing staining. The gloss coating changes when exposed to plasticisers.

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

Operation and maintenance manuals

Requirement: Prepare a manual that includes 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.

Compliance with this subclause targets the Building Information requirement within the Minimum Expectation level of the Verification and Handover credit in Green Star Buildings (2025).

Warranties

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

Type: Manufacturer and installer's interlocking warranty.

If the warranty is in the form of separate material and installation warranties, the signatures of both manufacturer and installer are required.

Period: As offered by the manufacturer and the installer.

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.

Form: Against failure of materials and execution under normal environment and conditions of use.

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

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 PRODUCT

ASKIN® Exterior Volcore Panel schedule

	A	B	C
Fire hazard properties: Non-combustible to BCA (2025) C2D10(6)(e)			
Fire hazard properties: Group number			
Fire-resistance level (FRL)			
Internal environment			
Panel thickness (mm)			
Panel width (mm)			
Panel skin material: External			
Panel skin material: Internal			
Panel skin thickness: External (mm)			
Panel skin thickness: Internal (mm)			
Panel profile: External			
Panel profile: Internal			
Panel finish and colour: External			
Panel finish and colour: Internal			
R-Value (m ² .K/W) In			
R-Value (m ² .K/W) Out			
Weighted sound reduction index (R _w)			
Solar absorptance			
Light Reflectance Value (LRV)			
Trim			
Control joint width			
Flashings and cappings			
Fasteners			

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.

Contact ASKIN® to discuss your project requirements.

Fire hazard properties: Non-combustible to BCA (2025) C2D10(6)(e): Select from required or not required.

Fire hazard properties: Group number: Refer to BCA (2025) Spec 7.

Fire-resistance level (FRL): If required, nominate the FRL to AS 1530.4 (2014).

Panel thickness: Select from 50 mm, 75 mm, 100 mm, 120 mm, 150 mm, 175 mm or 200 mm.

Panel width: Select from 1000 mm or 1200 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® Intramax™.
- Stainless steel.

- Aluminium.
- Colorbond® PVDF steel.

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

Panel profile: Internal and external: Select from:

- Flat.
- Mesa.
- Rib.
- Silklane.

Panel finish: External: Select from Colorbond®, Colorbond® Intramax™, Colorbond® PVDF or ASKIN® 200 Plus ranges.

Panel finish: Internal: Select from Colorbond®, Colorbond® Intramax™, Colorbond® PVDF or ASKIN® 200 Plus ranges.

R-Value (m².K/W) In: Select from the manufacturer's range. AS/NZS 4859.1 (2018) requires that R-Value is declared at 23°C for insulation products sold in Australia.

R-Value (m².K/W) Out: Select from the manufacturer's range. AS/NZS 4859.1 (2018) requires that R-Value is declared at 23°C for insulation products sold in Australia.

Weighted sound reduction index (R_w): Select from:

- 75 mm thick: 28.
- 100 mm thick: 29.
- 120 mm thick: 30.
- 150 mm thick: 31.
- 200 mm thick: 33.

Solar absorptance: Select from manufacturer's range. Light (< 0.40), medium (0.40 to 0.60), dark (> 0.60). See BCA (2025) J3D8 for external walls to a Class 4 part of a building.

Light Reflectance Value (LRV): If required, nominate the light reflectance value. Some local authorities limit the light reflectance value for building exteriors. Refer to the relevant local authority for any requirements.

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

Flashings and cappings: e.g. Prefinished sheet metal to match cladding colour. Coordinate with 042 Roofing worksections.

Fasteners: e.g. Concealed, expressed.

ASKIN® Exterior Volcore Vivid panel schedule

	A	B	C
Fire hazard properties: Non-combustible to BCA (2025) C2D10(6)(e)			
Fire hazard properties: Group number			
Internal environment			
Panel thickness (mm)			
Panel width (mm)			
Panel skin material: External			
Panel skin material: Internal			
Panel skin thickness: External (mm)			
Panel skin thickness: Internal (mm)			
Panel profile: External			
Panel profile: Internal			
Panel finish and colour: External			
Panel finish and colour: Internal			
R-Value (m².K/W) In			
R-Value (m².K/W) Out			
Weighted sound reduction index (R_w)			
Solar absorptance			
Light Reflectance Value (LRV)			
Trim			

	A	B	C
Control joint width			
Flashings and cappings			
Fasteners			

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.

Contact ASKIN® to discuss your project requirements.

Fire hazard properties: Non-combustible to BCA (2025) C2D10(6)(e): Select from required, not required.

Fire hazard properties: Group number: Refer to BCA (2025) Spec 7.

Panel thickness: Select from 75 mm, 100 mm, 120 mm, 150 mm, 175 mm or 200 mm.

Panel width: 1000 mm standard. (Contact ASKIN® for other widths available.)

Panel skin material: Internal and external Select from:

- AM100 colour coated steel.
- Z275 colour coated steel.
- AZ150 colour coated steel.
- ASKIN® 200 Plus.
- Colorbond® Intramax™.
- Stainless steel.
- Aluminium.
- Colorbond® PVDF 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® Intramax™, Colorbond® PVDF or ASKIN® 200 Plus ranges.

Panel finish: Internal: Select from Colorbond®, Colorbond® Intramax™, Colorbond® PVDF or ASKIN® 200 Plus ranges.

R-Value (m².K/W) In: Select from the manufacturer's range. AS/NZS 4859.1 (2018) requires that R-Value is declared at 23°C for insulation products sold in Australia.

R-Value (m².K/W) Out: Select from the manufacturer's range. AS/NZS 4859.1 (2018) requires that R-Value is declared at 23°C for insulation products sold in Australia.

Weighted sound reduction index (R_w): Select from:

- 75 mm thick: 28.
- 100 mm thick: 29.
- 120 mm thick: 30.
- 150 mm thick: 31.
- 200 mm thick: 33.

Solar absorptance: Select from manufacturer's range. Light (< 0.40), medium (0.40 to 0.60), dark (> 0.60). See BCA (2025) J3D8 for external walls to a Class 4 part of a building.

Light Reflectance Value (LRV): If required, nominate the light reflectance value. Some local authorities limit the light reflectance value for building exteriors. Refer to the relevant local authority for any requirements.

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

Flashings and cappings: e.g. Prefinished sheet metal to match cladding colour. Coordinate with 042 Roofing worksections.

Fasteners: e.g. Concealed, expressed.

ASKIN® Exterior Volcore ViviD acoustic panel schedule

	A	B	C
Fire hazard properties: Non-combustible			

	A	B	C
to BCA (2025) C2D10(6)(e)			
Fire hazard properties: Group number			
Internal environment			
Panel thickness (mm)			
Panel width (mm)			
Panel skin material: External			
Panel skin material: Internal			
Panel skin thickness: External (mm)			
Panel skin thickness: Internal (mm)			
Panel profile: External			
Panel profile: Internal			
Panel finish and colour: External			
Panel finish and colour: Internal			
R-Value (m ² .K/W) In			
R-Value (m ² .K/W) Out			
Weighted sound reduction index (R _w)			
Noise reduction coefficient (NRC)			
Solar absorptance			
Light Reflectance Value (LRV)			
Trim			
Control joint width			
Flashings and cappings			
Fasteners			

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.

Contact ASKIN® to discuss your project requirements.

Fire hazard properties: Non-combustible to BCA (2025) C2D10(6)(e): Select from required or not required.

Fire hazard properties: Group number: Refer to BCA (2025) Spec 7.

Panel thickness: Select from 75 mm, 100 mm, 120 mm, 150 mm, 175 mm or 200 mm.

Panel width: 1000 mm standard. (Contact ASKIN® for other widths available.)

Panel skin material: Internal and external Select from:

- AM100 colour coated steel.
- Z275 colour coated steel.
- AZ150 colour coated steel.
- ASKIN® 200 Plus.
- Colorbond® Intramax™
- Stainless steel.
- Aluminium.
- Colorbond® PVDF 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
- Silklane.
- Ambience.
- Infinite.
- Transform.

Panel finish: External: Select from Colorbond®, Colorbond® Intramax™, Colorbond® PVDF or ASKIN® 200 Plus ranges.

Panel finish: Internal: Select from Colorbond®, Colorbond® Intramax™, Colorbond® PVDF or ASKIN® 200 Plus ranges.

R-Value (m².K/W) In: Select from the manufacturer's range. AS/NZS 4859.1 (2018) requires that R-Value is declared at 23°C for insulation products sold in Australia.

R-Value (m².K/W) Out: Select from the manufacturer's range. AS/NZS 4859.1 (2018) requires that R-Value is declared at 23°C for insulation products sold in Australia.

Weighted sound reduction index (R_w): Select from:

- 75 mm thick: 28.
- 100 mm thick: 29.
- 120 mm thick: 30.
- 150 mm thick: 31.
- 200 mm thick: 33.

Noise reduction coefficient (NRC): Refer to Askin's product data sheets.

Solar absorptance: Select from manufacturer's range. Light (< 0.40), medium (0.40 to 0.60), dark (> 0.60). See BCA (2025) J3D8 for external walls to a Class 4 part of a building.

Light Reflectance Value (LRV): If required, nominate the light reflectance value. Some local authorities limit the light reflectance value for building exteriors. Refer to the relevant local authority for any requirements.

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

Flashings and cappings: e.g. Prefinished sheet metal to match cladding colour. Coordinate with 042 Roofing worksections.

Fasteners: e.g. Concealed, expressed.

Cladding support schedule

	A	B	C
Product			
Material			
Vertical members			
Horizontal members			
Spacing: Vertical members			
Spacing: Horizontal members			

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.

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, anodised aluminium, stainless steel appropriate to the project's location.

If using cast-in anchors and/or cast-in fasteners, see 0314 *Concrete in situ* and document requirements in 0314 *Concrete in situ* or on drawings.

REFERENCED DOCUMENTS

The following documents are incorporated into this worksection by reference:

AS 1397	2021	Continuous hot-dip metallic coated steel sheet and strip - Coatings of zinc and zinc alloyed with aluminium and magnesium
AS 1530		Methods for fire tests on building materials, components and structures
AS 1530.1	1994	Combustibility test for materials
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 1562		Design and installation of sheet roof and wall cladding
AS 1562.1	2018	Metal
AS/NZS 2904	1995	Damp-proof courses and flashings
AS 4040		Methods of testing sheet roof and wall cladding
AS 4040.2	1992	Resistance to wind pressures for non-cyclone regions
AS 4040.3	2018	Resistance to wind pressures for cyclone regions
AS/NZS 4284	2008	Testing of building facades
AS/NZS 4859		Thermal insulation materials for buildings
AS/NZS 4859.1	2018	General criteria and technical provisions
AS/NZS 4859.2	2018	Design
AS 5637		Determination of fire hazard properties

AS 5637.1	2015	Wall and ceiling linings
BCA C2D10	2025	Fire resistance - Fire resistance and stability - Non-combustible building elements
CM40333	2025	Volcore External Wall & Facade System
The following documents are mentioned only in the Guidance text:		
AS 1530		Methods for fire tests on building materials, components and structures
AS 1530.1	2024	Combustibility test for materials (ISO 1182:2020, NEQ)
AS/NZS 2312		Guide to the protection of structural steel against atmospheric corrosion by the use of protective coatings
AS 2312.1	2014	Paint coatings
AS/NZS 2728	2013	Prefinished/prepainted sheet metal products for interior/exterior building applications - Performance requirements
AS/NZS 3666		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 4312	2019	Atmospheric corrosivity zones in Australia
AS 5113	2016	Classification of external walls of buildings based on reaction-to-fire performance
AS ISO 9705	2003	Fire tests - Full-scale room test for surface products
SA HB 39	2015	Installation code for metal roof and wall cladding
BCA C1P2	2025	Fire resistance - Fire resistance - Spread of fire
BCA C1V3	2025	Fire resistance - Fire resistance - Fire spread via external walls
BCA F1D15	2025	Health and amenity - Water management - Wall cladding
BCA F1P1	2025	Health and amenity - Water management - Managing rainwater impact on the building and adjoining properties
BCA H2D6	2025	Class 1 and 10 buildings - Damp and weatherproofing - Roof and wall cladding
BCA J3D8	2025	Energy efficiency - Elemental provisions for a Class 4 part of a building - External walls of a Class 4 part of a building
BCA Section C	2025	Fire resistance
BCA Section J	2025	Energy efficiency
BCA Spec 7	2025	Fire resistance - Fire hazard properties
NCC	2022	National Construction Code
NCC	2025	National Construction Code
NCC Schedule 2	2025	Schedule 2 Referenced documents
ABCB Fire performance	2020	Fire performance of external walls and cladding advisory note
BlueScope TB-01A	2023	Steel roofing products - Selection guide
BlueScope TB-01B	2022	Steel walling products - Selection guide
BlueScope TB-02	2022	Overpainting and restoration of exterior BlueScope coated steel products
GBCA Buildings	2025	Green Star Buildings
NATSPEC DES 003		Fire hazard properties of insulation and pliable membranes
NATSPEC DES 018		Bushfire protection
NATSPEC DES 020		Fire behaviour of building materials and assemblies
NATSPEC DES 031		Specifying R-Values
NATSPEC DES 044		Weatherproofing of external walls
NATSPEC GEN 006		Product specifying and substitution
NATSPEC GEN 024		Using NATSPEC selections schedules
NATSPEC TR 01		Specifying ESD
FM 4880	2017	Approval standard for Evaluating the Fire Performance of Building Panel Assemblies and Interior Finish Materials
FM 4881	2016	Approval standard for Class 1 exterior wall systems
ISO 9001	2015	Quality management systems - Requirements
ISO 14001	2015	Environmental management systems - Requirements with guidance for use