

0436P STRAMIT CLADDING - PROFILED SHEET METAL

Branded worksection

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Worksection abstract

This branded worksection *Template* is applicable to lightweight external wall cladding of STRAMIT profiled sheet metal products.

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*.
- 0437 *Cladding - insulated panel systems*.

Related branded worksections include:

- 0311p *STRAMIT Condeck in concrete formwork*.
- 0341p *STRAMIT purlins and girts in structural steelwork*.
- 0423p *STRAMIT roofing - profiled sheet metal*.

Documenting this 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 (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.
- 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.

- 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

The following may be specified by including additional text:

- Metal cladding manufactured from recycled metal and/or is recyclable.
- Metal cladding finished with low VOC or non-VOC finish.

Refer to NATSPEC TECHreport TR 01 on specifying ESD.

1 GENERAL

At STRAMIT, we are dedicated to shaping the future of construction and building design with our unwavering commitment to innovation, quality and excellence. As a leading vertically integrated manufacturer, we provide innovative steel solutions, from roofing and walling solutions to flooring and structural components, that enhance customer value. Our advanced software applications, coupled with cutting-edge ingenuity and precision engineering, enable us to deliver exceptional Australian buildings.

1.1 RESPONSIBILITIES

General

Requirement: Provide STRAMIT external wall cladding and associated work, as documented.

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

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

STRAMIT technical contacts

Website: www.stramit.com.au/resources/technical-services

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*.

1.4 STANDARDS

General

Standard: To AS 1562.1 (2018).

Metal wall cladding conforming to AS 1562.1 (2018) satisfies the weatherproofing requirements for wall cladding in BCA (2025) F1P1 as a NCC Deemed-to-Satisfy Solution. If a Performance Solution is proposed, testing to AS/NZS 4284 (2008) is required.

1.5 MANUFACTURER'S DOCUMENTS

Technical manuals

Website: www.stramit.com.au/products/roofing-and-wall-cladding/

1.6 INTERPRETATION

Definitions

General: For the purposes of this worksection, the definitions given in AS 1562.1 (2018) apply.

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

1.7 TOLERANCES

Permitted deviations

Supporting members for profiled metal sheet cladding: To AS 1562.1 (2018) clause 4.2.3.

Structural steelwork for wall cladding: ± 5 mm between bearing planes of adjacent supports.

Length: -10 mm, +0 mm.

Width: ± 4 mm.

1.8 SUBMISSIONS

Operation and maintenance manuals

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

Products and materials

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**.

Subcontractors

General: Submit names and contact details of proposed suppliers and installers.

Evidence of experience: [complete/delete]

e.g. Check conditions of warranty for panels selected. Delete if supplier/installer details are not required.

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**.

1.9 INSPECTION**Notice**

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

- 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.

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.

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, showing the range of variation available:

- Cladding material.
- Trim and accessories with a colour finish.
- Custom profiled flashings and cappings.
- Profiled sheet metal cladding:
 - . Finishes.
 - . 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 sheets or panels across each other or over other materials.
- Sheeting: Stack flat and off the ground on at least 3 evenly placed bearers.
- Store metal materials away from uncured concrete and masonry on a level base.
- Do not store metal materials in contact with other materials that may cause staining, denting or other surface damage.

- Use gloves when handling metal cladding material.

Tests

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

Resistance to wind pressures:

- Non-cyclonic wind regions: To AS 1562.1 (2018) clause 5.5.
- Cyclonic wind regions: To AS 1562.1 (2018) clause 5.6.

2.2 STRAMIT PROFILED SHEET METAL

General

Requirement: To the **STRAMIT profiled sheet metal cladding schedule**.

Design and installation: To AS 1562.1 (2018).

AS 1562.1 (2018) requires materials to conform to the following standards:

- Steel: 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.

Thickness: As recommended by the manufacturer for the span.

2.3 COMPONENTS

Fastenings

General: Type, size, corrosion resistance class and spacing to the cladding manufacturer's recommendations.

Finish for exposed fasteners on coloured cladding: Prefinish exposed fasteners with an oven baked polymer coating to match the cladding material.

Fastenings to timber battens: Provide fasteners long enough to penetrate the thickness of the batten without piercing the underside.

Flashings

Requirement: To AS/NZS 2904 (1995).

Coordinate with 042 Roofing worksections.

3 EXECUTION

3.1 GENERAL

Preparation

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

Flexible underlay: Check that the underlay or insulation is restrained.

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

Installation

Standard: To AS 1562.1 (2018).

Conform to the manufacturer's recommendations for direct fix or ventilated cavity/rainscreen construction. Document a certified system or a project based Performance Solution.

Requirement: Install cladding as follows:

- Fix firmly against framing to the manufacturer's recommendations.
- 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.

Cladding layout: Cut/fabricate and install cladding to suit the layout as documented.

Document the location of openings and penetrations to avoid waste and minimise panel handling times.

Protection: Protect surfaces and finishes, and retain protective film during installation.

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.

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 STRAMIT PROFILED SHEET METAL CLADDING

General

Ground clearance: Maintain documented clearance.

Cutting sheets: Wherever possible, factory cut to length. Do not use an abrasion disc.

Accessories: Provide material with the same finish as cladding sheets.

Swarf: Remove swarf and other debris as soon as it is deposited.

Fixing

Fixing start location: [complete/delete]

Note the elevation that will allow fixing to proceed from leeward to the windward of prevailing wind.

Joints

Expansion joints: [complete/delete]

Consult manufacturer for recommended maximum expansion joint spacing. Typical spacings are 35 m in sheet length for walls with concealed fasteners and 24 m in sheet length for walls with exposed fasteners.

3.3 COMPLETION

Fasteners

Requirement: Adjust for weathertightness 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 prepainted finish: Replace sheets 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.

Panels: Clean surfaces with soft, clean cloths and clean water to the manufacturer's recommendations.

Operation and maintenance manuals

Requirement: Prepare a manual that includes the manufacturer's published use, care and maintenance requirements.

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

Requirement: Cover materials and workmanship in the terms of the warranty in the form of interlocking warranties from the manufacturer and the installer.

- Form: Against failure of materials and execution under normal environment and use conditions.
- Period: As offered by the manufacturer and the installer.

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.

BlueScope has an internet based system Warranty Estimator and Management System that allows access to warranty advice for Zincalume® and Colorbond® products and sample warranties at warranties.bluescopesteel.com.au/site/.

For UniCote® Coastal product warranties, contact your local Stramit office, as these are offered to projects determined by exposure conditions.

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 PERFORMANCE

Cladding performance schedule

	A	B	C
Solar absorptance			
Light Reflectance Value (LRV)			

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.

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.

4.2 PRODUCT

STRAMIT profiled sheet metal cladding schedule

	A	B	C
Profile			
Fixing system			
Material type			
Base metal thickness (BMT) (mm)			
Colour			
Trim			
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.

Profile: Select from:

- Stramit Corrugated (Available in all states except NT).
- Stramit K-Panel (Available in all states except NT).
- Stramit Longspan (Available in all states except NT).
- Stramit Monoclad (Available in all states except NT).
- Stramit Mini Corry (Available in all states except NT).
- Stramit Minirib (Available in all states except NT).
- Stramit Monopanel (Available in NSW, VIC, SA and TAS. Other states subject to enquiry).
- Stramit C-Clad 280 (Available in QLD. Other states subject to enquiry).
- Stramit Premier 300 (Available in QLD. Other states subject to enquiry).
- Stramit SharpLine (Available in NSW, VIC and QLD. Other states subject to enquiry).
- Stramit AvantaLine (Available in NSW, VIC and QLD).

Fixing system: e.g. Direct fix, clip fix, top hat framing, ventilated cavity/rainscreen.

Material type: Select the product material recommended with reference to the atmospheric corrosivity category nominated for the project in 0171 *General requirements*. Refer also to NATSPEC TECHnote DES 010.

- > 1000 m from breaking surf/exposed marine/calm marine: COLORBOND® steel, COLORBOND® Metallic steel or ZINCALUME®.
- > 800 m from breaking surf/exposed marine or > 200 m from calm marine: COLORBOND® or UniCote® Coastal steel.
- > 500 m from breaking surf/exposed marine or > 100 m from calm marine: UniCote® Coastal steel, COLORBOND® Ultra steel.
- > 0 m from breaking surf/exposed marine/calm marine: UniCote® Coastal steel, SUPERDURA® Stainless steel.

This is a guide only. Contact STRAMIT technical services to determine the appropriate product for the project location.

Base metal thickness (BMT) (mm): Refer to STRAMIT product brochures. Select from the following:

- Generally: 0.42, 0.48 or 0.55.

Colour: Select from the COLORBOND® and UniCote® Coastal steel Colour Charts.

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 0423p STRAMIT roofing - profiled sheet metal.

Fasteners: e.g. Concealed or pierced (crest or valley).

REFERENCED DOCUMENTS

The following documents are incorporated into this worksection by reference:

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

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

AS 1397	2021	Continuous hot-dip metallic coated steel sheet and strip - Coatings of zinc and zinc alloyed with aluminium and magnesium
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 3959	2018	Construction of buildings in bushfire-prone areas
AS/NZS 4284	2008	Testing of building facades
AS 4312	2019	Atmospheric corrosivity zones in Australia
AS 5113	2016	Classification of external walls of buildings based on reaction-to-fire performance
SA HB 39	2015	Installation code for metal roof and wall cladding
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
NCC	2022	National Construction Code
NCC	2025	National Construction Code
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 010		Atmospheric corrosivity categories for ferrous products
NATSPEC DES 018		Bushfire protection
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