

0436P COLORBOND® STEEL AND ZINCALUME® STEEL IN CLADDING

Branded worksection

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Worksection abstract

This branded worksection *Template* is applicable to lightweight external wall cladding of COLORBOND® steel and ZINCALUME® steel profiled sheet metal products.

How to use this worksection

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

Related material located elsewhere in NATSPEC

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

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

- 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:

- 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*.

Related branded worksections include:

- 0423p *COLORBOND® steel and ZINCALUME® steel in roofing*.

Material not provided by BlueScope

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

- Seamed sheet metal cladding.

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 Fire performance of external walls and cladding advisory note. 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.
- Weatherproofing of Class 2-9 buildings: There is no NCC Deemed-to-Satisfy solution for BCA FP1.4. Document wall construction to the performance solution. Class 1 buildings: Conform to BCA P2.2.2 or Part 3.5 acceptable construction methods. Consider adding a requirement for evidence of conformance from the contractor. Refer to NATSPEC TECHnote DES 044 for information on weatherproofing of 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.
- In bushfire-prone areas, document bushfire protection requirements 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.
- 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

BlueScope is a leader in the provision of high quality metallic-coated and painted steel products for the building and construction sector in Australia. Our most notable brands are **COLORBOND®** steel and **ZINCALUME®** steel.

BlueScope products are now an integral part of both new and retrofit housing, commercial and industrial projects.

Steel Supply Channel Overview

BlueScope manufacture **COLORBOND®** steel and **ZINCALUME®** steel coils.

Rollformers take steel coils and use proprietary machinery to shape steel into different profiles and cut sheets to length.

Distributors break down steel coils into smaller coils and on sell these. Distributors also slit coils into various widths.

Installers take off material quantities, order and install often as subcontractors to the Builder.

1.1 RESPONSIBILITIES

General

Requirement: Provide COLORBOND® steel and ZINCALUME® steel 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 Table 2.1, AS 4312 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. Refer also to BlueScope Technical bulletins BlueScope TB-01A and BlueScope TB-01B 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.

1.2 COMPANY CONTACTS

BlueScope technical contacts

Website: www.steel.com.au/support

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: www.steel.com.au/library.

1.5 TOLERANCES

Permitted deviations

Profiled metal sheet cladding: To AS 1562.1 clause 4.2.3.

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

Length: ± 7 mm.

Width: ± 4 mm.

1.6 SUBMISSIONS

Products and materials

Type tests: As appropriate for the project, submit results of facade testing as follows:

- Water penetration to AS/NZS 4284.
- Structural testing to AS/NZS 4284.
- Resistance to wind pressure:
 - . For non-cyclone regions to AS 4040.2.
 - . For cyclone regions to AS 4040.3.

BCA FP1.4 requires that cladding prevent the penetration of water so that internal conditions do not become unhealthy or dangerous.

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, when there are no SELECTIONS.

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

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

Samples

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

Finish: Submit samples of the cladding materials.

Subcontractors

Seamed sheet metal: Submit evidence of experience with non-ferrous cladding installation.

Evidence of experience: [complete/delete]

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

Warranties

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

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

Cladding materials: Submit the manufacturer's product warranties.

1.7 INSPECTION

Notice

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

- Framing, pliable membranes and insulation before covering up or concealing.

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

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.

Storage and handling

Requirement: Store and handle materials to the manufacturer's recommendations and the following:

- Protect materials including edges and surfaces from damage.
- Do not drag sheets or panels across each other or over other materials.
- Store metal materials away from uncured concrete and masonry on a level base.
- Do not store metal materials in contact with other materials which may cause staining, denting or other surface damage.
- Use gloves when handling precoated metal cladding material.

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 COLORBOND® STEEL AND ZINCALUME® STEEL COMPONENTS

General

Flashing: To AS/NZS 2904.

Material and colour: To match the cladding material.

Rib notching: To match the cladding material.

Fasteners

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.

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

2.3 COLORBOND® STEEL AND ZINCALUME® STEEL

General

Requirement: COLORBOND® steel or ZINCALUME® steel profiled sheet metal cladding.

Design and installation: To AS 1562.1.

AS 1562.1 requires materials to conform to the following standards:

- Aluminium: AS/NZS 1734.
- Copper: AS 1566.

- Steel: AS 1397 for continuously hot-dip metallic-coated sheet and strip or AS/NZS 2728 for prepainted and organic film/metal laminate products.

Selection: To the **COLORBOND® steel and ZINCALUME® steel profiled sheet metal cladding schedule**.

2.4 SEAMED SHEET METAL SYSTEM

General

Requirement: Sheet metal roll formed into pan profiles, laid with seamed joints on a separation layer on flush finished continuous plywood sheathing or to manufacturer's recommendations.

Plywood sheathing

Standard: To AS/NZS 2269.0:

- Surface grade: D.

AS/NZS 2269.0 defines five veneer qualities A, S, B, C and D, the lowest grade.

- Bond: Type A.
- Formaldehyde emission class: E₁.

Super E₀ and E₀ class may be available at additional cost and lead time. A formaldehyde emission class E₁ or less can improve indoor air quality.

Compliance with this subclause targets the Engineered Wood Products requirement for structural plywood within the Minimum Expectation level of the Exposure to Toxins credit in Green Star Buildings:

- Structural plywood: 1.0 mg/L, (E₁).

Thickness: 15 mm.

Identification: Sheets labelled under the authority of a recognised certification scheme to *0185 Timber products, finishes and treatment*.

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

Underlayer

Requirement: Breathable waterproof membrane to internal face of cavity when cladding including a plywood or FC substrate, is installed as a vented cavity or rainscreen system. Minimum 40 mm ventilation gap between substrate and framing.

Separation layer

Requirement: Breathable waterproof membrane between cladding material and substrate.

Accessories

Solder (tin/lead): 40/60 soft solder.

Flux: Z-04-S.

Sealant: 100% natural cure non-acid based silicone rubber to match cladding.

Fasteners: Provide starter clips, fixing clips and fastenings as recommended by the cladding system supplier.

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.

Requirement: Install cladding as follows:

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

Select either direct fixed cladding or a ventilated cavity/rainscreen construction to conform to the manufacturer's recommendations. Document a certified system or a project based performance solution.

- 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 of 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.

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

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

Protection: Protect surfaces and finishes, including the retention of protective coatings during installation.

Accessories and trim

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

Corner flashing for profiled and seamed metal sheets: Finish off at corners with purpose-made folded flashing strips.

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.

Louvre sunscreens

Installation: Fix sunscreen systems in accordance with the current written recommendations and instructions of the manufacturer or supplier.

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, chipped, scratched, abraded or broken members.

Damaged parts: Remove and replace damaged parts during installation.

3.2 COLORBOND® STEEL AND ZINCALUME® STEEL CLADDING

General

Installation: To AS 1562.1.

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]

As a minimum, expansion joints should be provided every 35 m in sheet length for walls with concealed fixings and 24 m in sheet length for walls with exposed fixings. Refer to manufacturer's recommendation.

3.3 SEAMED SHEET METAL CLADDING

Plywood sheathing

Installation: Lay the length of the sheets at right angles to the supports.

End joints: Stagger the end joints and locate centrally over framing members.

Edge support: If panels are not tongue and grooved, provide noggings or trimmer joists to support the edges.

Fixing: 300 mm centres to each support:

- Timber: Adhesive and nail.
- Steel: Metallic-coated self-drilling/tapping screws with the heads finishing below the surface.

Control joints: 12 mm gap at abutting building elements.

Fabrication

Requirement: Factory fabricate pans.

Installation: To AS 1562.1.

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.

Minimum bending radius: 1.75 mm.

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

Fixing

Requirement: Fix pans to the sheeting with concealed clips at 250 mm maximum centres or to manufacturer's recommendations.

Seams

Walls: Single angle standing seams.

3.4 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 panels with scratches in the prepainted finish.

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.

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 plasticizers.

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

Warranties

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

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

Use only where 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, require the signatures of both manufacturer and installer. BlueScope has an internet based system Warranty Estimator and Management System that allows access to warranty advice for BlueScope building products and pre-approved warranties at www.warranties.bluescopesteel.com.au/site/.

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 PERFORMANCE

Cladding performance schedule

	A	B	C
Combustibility			
Fire hazard property: Group number			
Fire hazard property: Spread-of-Flame Index			
Fire hazard property: Smoke-Developed Index			
Fire-resistance level (FRL)			
R-Value (m ² .K/W)			
Acoustic characteristic			
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.

Combustibility: e.g. Non-combustible.

Fire hazard property: Group Number: Refer to BCA Spec C1.10.

Fire hazard property: Spread-of-Flame Index: e.g. 0.

Fire hazard property: Smoke-Developed Index: e.g. 3.

Fire-resistance level: If required, nominate the FRL to AS 1530.4. See NATSPEC TECHnote DES 020 on fire behaviour of building materials and assemblies.

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

Acoustic characteristic: Consult manufacturer. Schedule values if required.

Solar absorptance: Select from manufacturer's range. Light (L < 0.40), Medium (M < 0.60), Dark (D > 0.60).

Light Reflectance Value: When calculating Luminance Contrast to comply with AS 1428.1.

4.2 PRODUCT SCHEDULES

COLORBOND® steel and ZINCALUME® steel profiled sheet metal cladding schedule

	A	B	C
Profile			
Fixing system			
Material type			
Thickness (mm)			
Colour			
Trims			
Flashing and cappings			

	A	B	C
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 cladding product manufactured from COLORBOND® steel and ZINCALUME® steel by visiting www.steel.com.au/products.

Fixing system: e.g. waterproof direct 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.

- Benign: COLORBOND® steel, COLORBOND® Metallic steel or ZINCALUME® steel.
- Moderate: COLORBOND® steel.
- Severe marine: COLORBOND® Ultra steel.
- Very severe marine: COLORBOND® Stainless steel.

This is a guide only. Contact BlueScope to determine the appropriate product for the project location. Please note that a different grade of COLORBOND® steel for walling applications within the same project may be required.

Thickness: Select from:

- COLORBOND® Stainless steel: 0.42.
- COLORBOND® Ultra steel: 0.42 or 0.48.
- COLORBOND® steel or ZINCALUME® steel: 0.35, 0.42 (economical/domestic/light industrial), 0.48 (commercial / industrial).
- COLORBOND® Metallic steel: 0.48.
- Pre curved sheeting: Contact FIELDERS. (The recommended thickness varies with the extent of curve.)

Colour: Consult the COLORBOND® Colour Charts.

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

Flashings and capping types: List here or delete and refer to details.

Fasteners: e.g. Concealed or Pierced: Crest or Valley to suit the profile.

Select flashing components by visiting www.steel.com.au/products/building-and-construction/products/roofing-accessories.

Seamed sheet metal cladding schedule

	A	B	C
Product			
Fixing system			
Material			
Minimum thickness (mm)			
Width between seams			
Colour			
Finish			
Trims			
Control joints			
Flashing and capping type			
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.

Product: Seamed sheet metal or Flat lock tiles. Tiles and panels are an alternative to seamed sheeting.

Fixing system: e.g. waterproof direct fix, top hat framing, ventilated cavity/rainscreen.

Material: e.g. Soft temper copper to AS 1566 or Titanium zinc pre weathered by pickling process.

Minimum thickness:

- Copper: 0.7 mm.
- Zinc: 0.8 mm.

Width between seams:

- Copper: 500 mm.
- Zinc: 600 mm.

Finish: e.g. Polished, Sandblast, Varnish coated, Pre-weathered.

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

Flashings and capping types: List here or delete and refer to details.

Fasteners: e.g. Concealed or Pierced: Crest or Valley to suit the profile.

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 2269		Plywood - Structural
AS/NZS 2269.0	2012	Specifications
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

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 1428		Design for access and mobility
AS 1428.1	2021	General requirements for access - New building work
AS 1530		Methods for fire tests on building materials, components and structures
AS 1530.4	2014	Fire-resistance tests for elements of construction
AS 1566	1997	Copper and copper alloys - Rolled flat products
AS/NZS 1734	1997	Aluminium and aluminium alloys - Flat sheet, coiled sheet and plate
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 4312	2019	Atmospheric corrosivity zones in Australia
AS/NZS 4859		Thermal insulation materials for buildings
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 Fire performance	2020	Fire performance of external walls and cladding advisory note
BCA Section C	2019	Fire resistance
BCA Spec C1.10	2019	Fire resistance - Fire hazard properties
BCA FP1.4	2019	Health and amenity - Damp and weatherproofing - Performance requirements - Weatherproofing
BCA P2.2.2	2019	Performance provisions - Damp and weatherproofing - Weatherproofing
BlueScope TB-01A	2021	Steel roofing products - Selection guide
BlueScope TB-01B	2021	Steel walling products - Selection guide
Green Star	2021	Green Star Buildings
NATSPEC DES 010	2021	Atmospheric corrosivity categories for ferrous products
NATSPEC DES 018	2019	Bushfire protection
NATSPEC DES 031	2019	Specifying R-Values
NATSPEC DES 044	2021	Weatherproofing of external walls
NATSPEC GEN 006	2015	Product specifying and substitution
NATSPEC GEN 024	2021	Using NATSPEC selections schedules
NATSPEC TR 01	2021	Specifying ESD