

COLORBOND® steel for roofing and walling

Circular thinking and resilience

All COLORBOND® steel contains recycled content¹ and the steel itself is 100% recyclable. COLORBOND® steel is durable and resilient to Australia's harsh climate and its long life helps keep resources in use for longer.

BlueScope embraces circular economy principles in product development, including designing products for durability and resilience.


Continual investment in innovation and product development alongside over 50 years of rigorous testing has seen the introduction of Activate® technology². Incorporated in BlueScope's industry-leading metallic coating, Activate® technology enhances the protective coating of COLORBOND® steel's substrate to provide enhanced corrosion resistance. The result makes COLORBOND® steel durable and resilient to Australia's harsh climate and delivers a long life that helps conserve resources and energy that may otherwise be invested in products with a shorter life span.

COLORBOND® steel is renowned for its durability, and is backed up by BlueScope. BlueScope offers a variety of warranties subject to application and eligibility criteria.³

For more holistic sustainable project outcomes, it is increasingly recognised that materials should be assessed across a range of environmental impacts in the context of the whole life cycle of the project.

Roofing, walling, gutters and downpipes made from COLORBOND® steel may be used as part of a compliant system in bushfire prone areas including in the most extreme, BAL-FZ (Bushfire Attack Level – Flame Zone) as defined in AS 3959:2018.

All COLORBOND® steel contains recycled content¹ and the steel itself is 100% recyclable. In some cases it can be reused without reprocessing, saving on energy and resource use.



COLORBOND® steel is durable and resilient to Australia's harsh climate and its long life helps conserve resources and energy.

1. Across the range of steel products manufactured by BlueScope in Australia, the average recycled content (according to recycled content categories defined in ISO 14021:2016) in the steel is 25.0%, which includes pre- and post-consumer recycled materials. Scrap and iron-bearing materials generated and reclaimed from BlueScope's steelmaking, including the BF-BOS process up to slab casting, represent 1.7% of the product mass, which is not reported as recycled content. Scrap arising from downstream processes, such as plate and coil milling, rolling, tempering, annealing, pickling, metallic coating, painting, rollforming and/or fabrication are included as pre-consumer recycled content. The figures provided are based on FY23 data.

2. Aluminium/zinc/magnesium alloy coated steel substrate incorporating Activate® technology is not available for COLORBOND® steel products with a galvanised steel substrate.

3. Warranties subject to exclusions, application, and eligibility criteria. For full terms and conditions visit www.bluescopesteel.com.au/warranties

Embodied carbon and climate action

BlueScope strives to reduce the embodied carbon of our products, supported by our climate strategy, plans and targets.

BlueScope is driving towards a 'net zero GHG emissions by 2050' goal⁴, with progress targets established for 2030⁵:

- 12% emissions intensity reduction for steelmaking by 2030 (2018 baseline)
- 30% emissions intensity reduction for non-steelmaking by 2030 (2018 baseline)

BlueScope is aware of the critical and global importance of climate change to our business and our stakeholders. We have embedded climate action into our corporate strategy, recognising it is crucial to our long-term success, and we have publicly stated our commitment to taking action to reduce our greenhouse gas emissions.

We regularly report on our progress on climate action in our Sustainability Report, available at bluescope.com.

BlueScope is driving towards 'net zero GHG emissions by 2050', covering direct (Scope 1) and indirect (Scope 2) emissions across our operational footprint.⁴

4. This goal applies to all of our global operational Scope 1 and 2 GHG emissions, and is dependent on several enablers, including the commerciality of emerging and breakthrough technologies, the availability of affordable and reliable renewable energy and hydrogen, the availability of quality raw materials and appropriate policy settings.

5. Applies to our Scope 1 and 2 emissions, relative to a 2018 baseline, across our steelmaking and non-steelmaking activities.

Credentials and certifications

BlueScope's Port Kembla Steelworks is certified to the ResponsibleSteel™ Standard v1.1. Specifying products from a ResponsibleSteel™ certified site can give businesses and consumers confidence that the steel they use has been sourced and produced responsibly.

BlueScope's Port Kembla Steelworks site, where the steel for COLORBOND® steel for roofing and walling is manufactured, is certified to the ResponsibleSteel™ Standard v1.1.

ResponsibleSteel™ is the steel industry's first global multi-stakeholder standard and certification initiative. ResponsibleSteel™ certification can give organisations in the steel value chain confidence in the environmental, social and governance performance of steelmaking facilities, and may help them to meet their climate objectives and manage supply chain risks.

Specifying steel from a ResponsibleSteel™ certified site supports steel manufacturers such as BlueScope who are committed to climate action and sustainability.

An Environmental Product Declaration (EPD) is available for COLORBOND® steel⁶.

COLORBOND® steel is certified to internationally recognised ecolabel Global GreenTag^{Cert™} GreenRate™, achieving the highest rating, Level A.



Cooler Roofing for Housing

COLORBOND® steel cool roofing colours bring together a number of BlueScope's proprietary coatings and manufacturing technologies whilst offering a higher level of thermal performance. They have the potential to improve thermal comfort, reduce the need for air conditioning and lower ongoing energy bills.⁷

COLORBOND® steel cooler roofing colours for housing help to address environmental issues such as Urban Heat Islands. These colours bring together a number of BlueScope's proprietary coatings and manufacturing technologies whilst offering a higher level of thermal performance. They have the potential to improve thermal comfort, reduce the need for air conditioning and lower ongoing energy bills.⁷


The 17 cooler roofing colours for housing in the COLORBOND® steel core colour range all feature Solar Absorptance (SA) values of less than or equal to 0.64. These colours meet the deemed-to-satisfy compliance for roof cladding material for climate

zones 1 to 5 within the National Construction Code (NCC) ABCB Housing Provisions Section 13 on energy efficiency and help mitigate against the effect created by Urban Heat Islands.

COLORBOND® steel for roofing and walling's core colour range in the Classic and Matt finish (excluding Night Sky®) features our scientifically designed Thermatech® solar reflectance technology. With Thermatech® solar reflectance technology, even the darker colours in the COLORBOND® steel range have solar reflective properties which may help a building stay cooler.

6. Visit steel.com.au to view the Environmental Product Declaration

7. Actual cool roofing performance, including potential energy savings and thermal comfort improvements, depends on a wide range of factors including roof colour, roof shape, level of insulation, type, location, shape, and function of the building, and the type and efficiency of heating and cooling systems.



COLORBOND® steel cooler roofing colours for housing have the potential to improve thermal comfort, reduce the need for air conditioning and lower ongoing energy bills.⁷

Green Star

EPDs, GreenRate™ and ResponsibleSteel™ certification are recognised initiatives under the Green Star Responsible Products Framework and can contribute to a project's Green Star rating. COLORBOND® steel for roofing and walling has an EPD, GreenRate™ 'Level A' and is manufactured using steel from a ResponsibleSteel™ certified site, making it a 'Best Practice' product.

The combination of the product-specific EPD for COLORBOND® steel for roofing and walling, alongside its Global GreenTag^{Cert}™ GreenRate™ 'Level A' rating and the ResponsibleSteel™ certification for Port Kembla Steelworks, where the steel in COLORBOND® steel is manufactured, equates to a Responsible Product Value (RPV) of 21 in the Green Building Council of Australia's (GBCA) Responsible Products Score Checker.

This is considered 'Best Practice' under the GBCA's Responsible Products Framework and may contribute to a project's Green Star rating. Information on initiatives, and how products can contribute to a Green Star rating can be found at new.gbca.org.au.

The EPD for COLORBOND® steel for roofing and walling can also contribute information to credits relating to life cycle impacts and upfront carbon.

Select COLORBOND® steel products (typically light colours), may comply with minimum Solar Reflectance Index (SRI) requirements set out by Green Star.

Additional information on Green Star SRI requirements and COLORBOND® steel SRI values is available at steel.com.au.

This product is recognised as 'Best Practice' under the Green Star Responsible Products Framework, and may contribute to a project's Green Star rating.



Sustainability at BlueScope

Our product sustainability credentials are supported by our company-wide sustainability initiatives including responsible sourcing and supply chain sustainability.

Always guided by Our Purpose, Our Bond and our Code of Conduct, we are determined to do what's right. We act in the best interests of our business, people and stakeholders, behave ethically and honour our environmental and economic responsibilities.

BlueScope's Australian manufacturing facilities are certified to the globally recognised standard ISO 14001 (Environmental Management Systems), demonstrating BlueScope's commitment to continual improvement.

Our commitment to sustainability extends beyond our own operations and includes the way we source materials, engage with all those we do business with and support our local communities.

Our sustainability commitments, progress and performance, are publicly available in our annual Sustainability Report.



BlueScope's Australian manufacturing facilities are certified to the globally recognised standard ISO 14001 (Environmental Management Systems).



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