

Infrastructure Sustainability

Understanding the IS rating scheme Earning credits with BlueScope Steel



The Australian Green Infrastructure Council (AGIC)

AGIC was formed in 2008 with the purpose of advancing sustainability in the design, construction and operation of infrastructure in Australia.

Among the Council's objectives is the delivery of a national assessment, certification and award program for sustainability in new and existing infrastructure. It also aims to promote a vision for sustainable infrastructure and provide the knowledge and communication necessary to achieve this vision.

AGIC has developed a rating system designed to assess the sustainability of infrastructure projects. This system called, the Infrastructure Sustainability (IS) rating tool, evaluates sustainability across design, construction and operation of an infrastructure project.

As part of our commitment to sustainability, BlueScope Steel has been involved with AGIC since its inception in 2008. Our company is proud to be an organisational member of AGIC, and co-sponsor of the materials category of this rating tool.



The Infrastructure Sustainability rating scheme

The IS rating scheme supports the

ratings systems such as the US Green Building Council's Leadership in Energy and Environmental Design (LEED) and the Green Building Council of Australia's Green Star system. While LEED and

The rating tool addresses six broad areas, referred to as 'themes'. Within these themes are 15 categories.

Management and Governance

2 Using Resources

- Water Materials
- Emissions, Pollution and Waste
 - Discharges to air, land & water

4 Ecology

5 People and Place

- Urban & Landscape Design

Innovation

Green Star have specific definitions

The rating process involves self-assessment, followed by independent verification from an IS appointed verifier, then formal certification.

These categories comprise a total of 51 credits, providing a detailed framework for evaluating a project's sustainability. Each credit is allocated a certain number

Criteria – a table with 1 to 3 benchmark levels, all above the business-as-usual level

Evidence – suggests the evidence that applicants can include to demonstrate compliance. (Other evidence can also be included).

Additional Guidance - advice to help

Credits earned across all 15 categories are used to determine a project's level of sustainability. This rating is expressed as a score on a 100 point scale, as follows:

Good 25 – 49 points

Excellent 50 – 74 points

Leading 75 – 100 points

Projects that score less than 25 points are not eligible to apply for a certified rating.



What types of projects are covered by the IS rating system?

The IS rating tool is designed to assess most types of infrastructure, including projects that fall into the following classes.

Transport

- Roads & bridges
- Bus & cycle ways
- Footpaths
- Ports & harbours
- Airports
- Railways

Communication

- Communication transmission & distribution

Water

- Water storage & supply
- Sewerage & drainage

Energy

- Energy transmission & distribution

At what development phase can sustainability be rated?

A project's sustainability can be rated at the Design, As Built, or Operational stages. (The initial planning process falls outside the scope of the IS rating tool).

Certification obtained at the Design stage is interim and must be converted to an As Built certification upon completion of the project.

When a project has been operating for a minimum of two years, it becomes eligible for an Operational rating. Existing infrastructure can also be rated under the Operations certification. Operation ratings must be renewed every 5 years.

Earning IS credits with BlueScope Steel

Within the IS rating tool, a number of opportunities exist to gain credits using BlueScope Steel products. Some examples are listed below.

Theme	Category	Total category point score	Indication of credits available with BlueScope Steel products	Summary of credit	Description	Aim	How steel made by BlueScope Steel can
Using resources	Materials	7	2 points	Mat-1: Materials Life Cycle Impact Measurement and Reduction	This credit uses a materials calculator to assess lifecycle impact. The applicant enters product volume and transport distance and the calculator compares the impact of a project's materials with a pre-programmed reference project for a range of raw materials.	To reward the reduction of life cycle environmental impact of materials	As an organisaitonal member of AGIC and sp (LCI) data is accurate and conforms to the re-
				Mat-2: Environmentally Labelled Products and Supply Chains	Maximum points are earned when more than 20% of materials (by value) have eco labels or are from sustainable supply chains. Responsible Steel Certification or an ISO Type 1 Ecolablel for steel products (including GECA or Ecospecifier GreenTag [™]) will potentially meet the requirements of this credit.	To reward the use of environmentally-labelled materials and those from sustainable supply chains. (This credit only applies to the 'As Built' and 'Operation' versions of the rating tool).	To make the right decision, it is essential that is BlueScope Steel is a leading member of the S project, which aims to develop a comprehens from mining to scrap recovery. A number of existing environmental labels co is also examining which of these labels are m
Management and Governance	Procurement and Purchasing	5	3 points	Pro-2, Pro-3 and Pro-4: Procurement and Purchasing	Pro-2 involves identification of appropriate suppliers; Pro-3 rewards the consideration of sustainability in contract allocation; Pro-4 covers duration-of-contract and long-term initiatives.	This group of credits encourages sustainability among suppliers by rewarding the engagement of suppliers with environmental and sustainability policies and procedures.	BlueScope Steel is an industry leader in enviro Our sustainability credentials and our local su We hold ISO 14001 Environmental Managem policies. Our company is an active member of sponsor of the Steel Stewardship Forum and Steels (ACRS). Our aspirational environmental targets have be cycle inventories (LCI) of our products can be LCI database. BlueScope Steel continues to develop creden
Management and Governance	Climate change adaptation	5	1 point	Cli-2: Adaptation Measures	Cli-2 involves accounting for the risks associated with climate change. Maximum points are awarded when high risk is treated and scale and timing issues are addressed.	This credit rewards the implementation of measures that help in adapting to climate change.	BlueScope Steel products offer strength, resil of climate change events, ie: Bushfires: Sureline® power poles, COLORBO proven fire resistance. Heat impacts: COLORBOND® steel with There reflectivity and are ideal for roofing and shade Hail and storm damage: roofing made from Coused, along with framing made from TRUECC Drought: Steel water tank manufacturers have reduce your potable water usage. With the rig AQUAPLATE® steel can even provide drinking
Using Resources	Water	7	2 points	Wat-2, Wat-3: Water	Wat-2 recognises initiatives that reduce water use; Wat-3 rewards the replacement of potable water with water from other sources, across the infrastructure life cycle.	To reward water conservation and preservation of potable water.	Steel water tanks offer a wide range of rainwa application. Pioneer Tanks, a BlueScope Stee to 12 million litres for industrial, commercial a
Emissions, Pollution and Waste	Waste	7	2 points	Was-2: Diversion from landfill Was-3: Deconstruction/ Disassembly/ Adaptability	Was-2 rewards the diversion of non-hazardous and inert waste from landfill. Was-3 encourages designs that can be dissembled for re-use at the end of a project's useful life.	To reduce present and future waste.	BlueScope Steel products have intrinsic scrap Therefore, a lower percentage of steel ends u assist in achieving a Was-2 credit. Steel bolte and disassembled, allowing beams and colur deconstruction plan, helping gain a Was-3 cre Steel can also meet the suggested IS guidand self-supporting and standardised.
Community Health Wellbeing and Safety	Crime prevention	5	1 point	Hea-2: Prevention of crime	Hea-2 rewards the adoption of Crime Prevention Through Environmental Design (CPTED) principles. The credit also requires end-to-end visibility in tunnels and underpasses and CPTED-compliant temporary construction diversions.	To reward design and practice that reduces the likelihood of crime.	Tough, durable steel lighting poles, security g CPTED standards. Steel is also ideal for CPT
Innovation	Innovation	5	1 point	Inn-1: Innovative strategies and technologies	Inn-1 rewards new technology or processes and the contribution a project makes to sustainable development at state, national or global level. This category offers an additional five points, over and above points earned in other categories.	To reward pioneering initiatives in sustainable design, process or advocacy.	BlueScope Steel products appear in some of such as COLORBOND [®] steel and TRUECOR capacity to meet the most innovative design

help earn credits for your project

sponsor of this credit, we can ensure that our life cycle inventory requirements of the IS materials calculator.

at buyers can assess the total sustainability of a product or material. e Steel Stewardship Forum and a driver of the Responsible Steel ensive certification process covering the entire steel supply chain,

cover aspects of supply chain sustainability and BlueScope Steel most applicable to our products.

vironment and sustainability. We have a dedicated sustainability team. supplier status can earn points in Pro-2, Pro-3 and Pro-4 credits.

ement System accreditation and have documented environmental r of the World Steel Climate Action Program, a leading member and nd a member of the Australian Certification Authority for Reinforcing

e been signed off by our Board of Directors. Comprehensive life be accessed through the Building Products Innovation Council

lentials that will help meet the aims of this group of credits.

esilience and thermal qualities necessary for adapting to a range

BOND[®] steel fencing, roofing and walling and water tanks provide

hermatech® or COLORBOND® Coolmax® offer excellent solar ade structures.

n COLORBOND[®] steel is highly resistant to hail damage. It is also CORE® steel, in houses designed to withstand 300 km/h winds.

ave a range of rainwater harvesting and storage systems to right accessories, water tanks made with BlueScope Steel's ing-quality water for your facility.

water harvest, storage and buffer systems, for almost any teel company, offers Australian-built tanks with capacities up I and rural use.

rap value and steel has a well-established recycling sector. s up as landfill, compared with other building materials. This can olted construction allows prefabricated units to be easily separated lumns to be re-used in other projects, according to the project credit.

ance around being reusable and recyclable, potentially modular,

grills, fencing and other features can be used to achieve required PTED-compliant temporary fixtures.

of Australia's most advanced sustainable buildings. Our products, DRE® steel are favoured by engineers and architects for their n requirements.



Where can I find more information?

BlueScope Steel sustainability website

sustainability.bluescopesteel.com.au

Contact BlueScope Steel Direct

1800 800 789



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