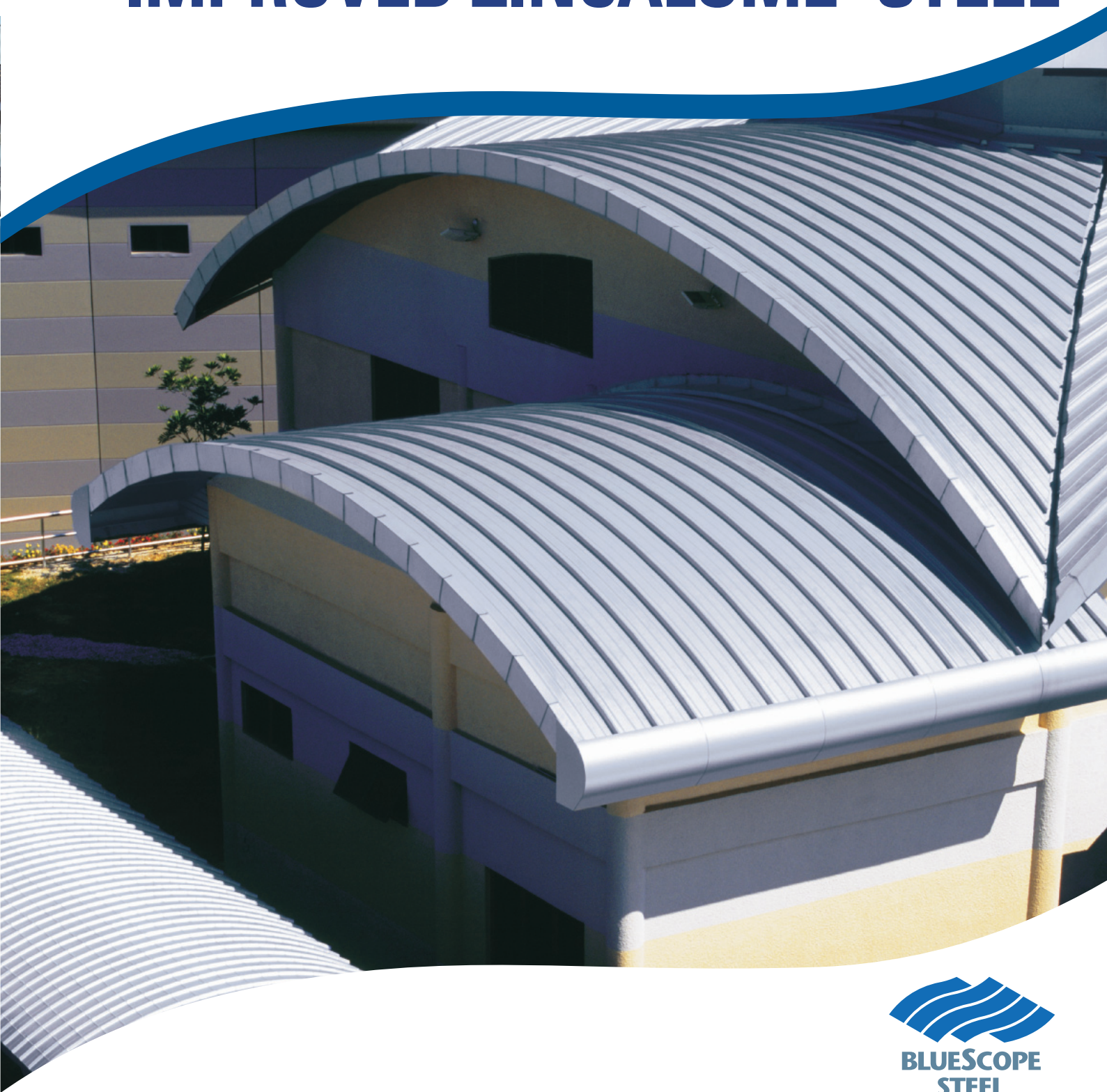


Zincalume[®]

Made Only By BlueScope Steel

IMPROVED ZINCALUME[®] STEEL



30 YEARS ON ZINCALUME® STEEL KEEPS GETTING BETTER

HOW DO YOU IMPROVE AN ICONIC PRODUCT LIKE ZINCALUME® STEEL? YOU DO IT ONE STEP AT A TIME. AND AFTER 30 YEARS OF PROVEN RELIABILITY, BLUESCOPE STEEL IS PROUD TO INTRODUCE ITS LATEST DEVELOPMENT – IMPROVED ZINCALUME® STEEL.

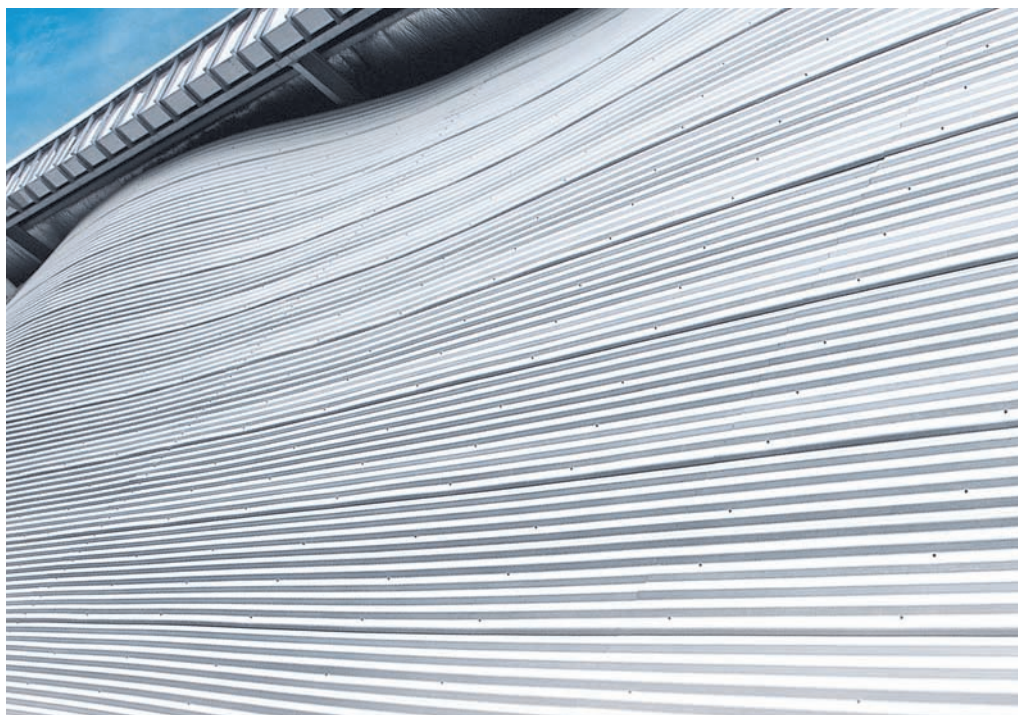
With excellent corrosion resistance and a lifespan of up to 4 times longer than ordinary galvanised steel, over the last 30 years ZINCALUME® steel has provided our customers with peace of mind. New and improved weathering performance helps ZINCALUME® steel hold its distinctive metallic look for longer.

With its excellent forming capabilities and incredible design versatility, ZINCALUME® steel gives you the confidence and peace of mind to embark on the most innovative and imaginative construction concepts.

As a pioneering manufacturer of ZINCALUME® steel, BlueScope Steel continues to invest in research and development to ensure that ZINCALUME® steel is able to withstand some of the harshest environments in Asia. This dedication to development ensures that ZINCALUME® steel continues to set world-leading standards for the next generation of metallic steel products, allowing our customers to use it with confidence in many applications.

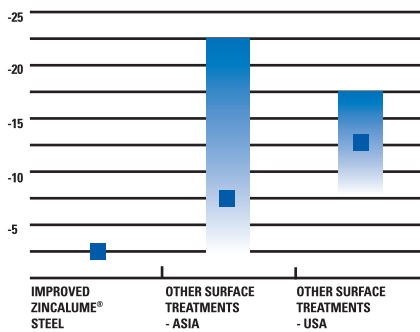
WHY IMPROVE A CLASSIC LIKE ZINCALUME® STEEL?

BlueScope Steel is committed to continually improving the quality of all the products it supplies to give our customers the best possible coated steel products available. As part of this commitment, BlueScope Steel has developed a better performing ZINCALUME® steel products. Improved ZINCALUME® steel combines all the existing qualities of the ZINCALUME® steel you know and trust with improved weathering performance.

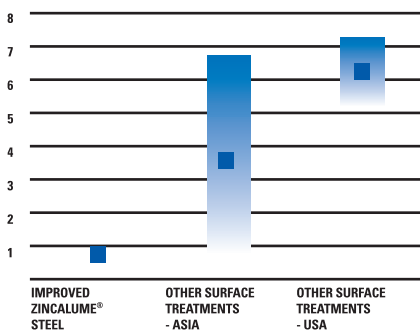




GENERAL COLOUR CHANGE
AFTER 3 YEARS AT ROCKHAMPTON



MODELLED DIFFERENCE IN COLOUR CHANGE
BETWEEN HOT AND COLD AREAS OF SHEET



■ RANGE ■ AVERAGE

PROVEN PERFORMANCE

Exposure of improved ZINCALUME® steel on commercial roofs show significantly less general and differential weathering than other metallic steel products, giving you a building that maintains its distinctive metallic look for longer.

Improved ZINCALUME® steel exhibits superior long-term surface appearance when compared with other competitive metallic coated steel products. The improvements to ZINCALUME® steel slow down the development of surface patina, keeping your building looking newer for longer.

Improved ZINCALUME® steel has been designed to minimise differential patina development caused by the temperature difference between hot and cold areas on a roof. Again, ZINCALUME® steel delivers best-in-class performance relative to other metallic coated steel products here by ensuring uniform weathering over time.

USE WITH CONFIDENCE

Now in its 30th year of production, ZINCALUME® steel continues to be manufactured to the most stringent production standards to ensure its superior performance and durability. It not only meets Australian Standards AS1397, it is also backed by BlueScope Steel's guarantee of quality. As a technologically advanced supplier of high quality steel building solutions, with a 30-year track record, BlueScope Steel is firmly committed to maintaining the premium status of ZINCALUME® steel.

Warranty available upon application, refer to back page of this brochure for further details.



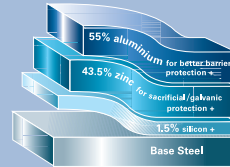
UNSURPASSED SUPERIORITY

The coating on ZINCALUME® steel comprises of 55% aluminium, 43.5% zinc and 1.5% silicon and was developed after extensive research into improving the traditional performance of galvanised iron. By blending aluminium with zinc in an alloy coating, BlueScope Steel researchers discovered a way to greatly enhance corrosion resistance. This coating protects the steel base in two ways. Firstly, the aluminium components of the coating provides a tough physical barrier between the extreme atmospheric conditions and the inner core of steel. Secondly, the zinc in the coating protects the steel at the cut edges.

Galvanic action causes zinc compounds to automatically build up at cut edges and around scratches through an electrolytic reaction when water is present. It slows the rate at which surrounding coating is consumed around the damaged areas. Atmospheric exposure tests confirm in correct application, BlueScope Steel ZINCALUME® steel's corrosion resistance is far superior to that of ordinary zinc coatings, lasting up to four times longer in an identical environment.

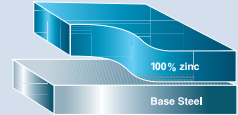
Coating Elements

ZINCALUME® steel



Double protection of zinc and aluminium coating

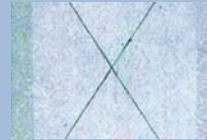
Galvanised steel (G.I.)



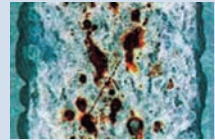
Single protection

After 240 Hours of Salt Spray Testing

(Conducted in accordance to the ASTM test method B117 and AS1580)



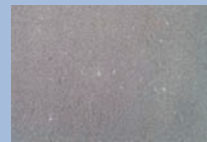
No sign of red rust



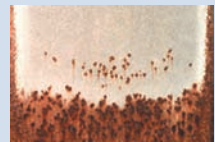
Significant signs of red rust

6 Years in Severe Marine Environment

(Bellambi Point, Australia)

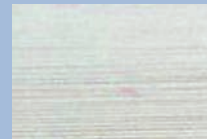


Still in good condition with no signs of red rust

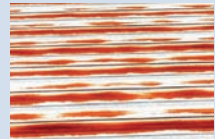


Loss of coating with the appearance of red rust on the surface near edges

After 20 Years of Atmospheric Exposure



No sign of red rust



Shows significant red rust

26 Years in Heavy Industrial Environment on 10 degrees slope

(Flemalle, Belgium)

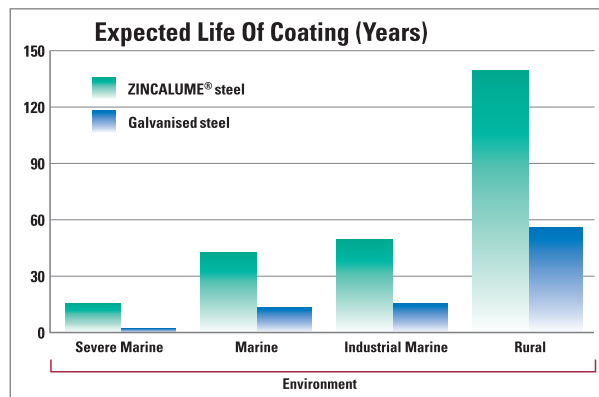


No sign of red rust



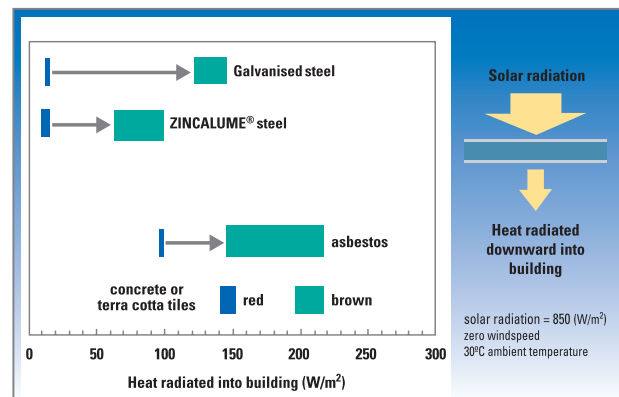
Significant signs of red rust

RESISTANCE TO ATMOSPHERIC CORROSION



The coating life expectancy of ZINCALUME® AZ150 steel compared to Galvanised steel (G.I.) Z275 after exposure at East Coast Australia test sites ranging from rural to severe marine.

THERMALLY EFFICIENT



Research has shown that, compared to Galvanised steel (G.I.) which tends to weather more, a roof made from ZINCALUME® steel:

- reflects heat and sunlight better
- keeps the interior of the building much cooler

The level of heat radiated into the building from tiles and asbestos cement is particularly high, and tiles have a higher thermal mass which takes longer to cool in the evening.

YOU CAN RELY ON US FOR EXCELLENCE IN FABRICATION



EASY TO FASTEN

ZINCALUME® steel can be easily fastened using integral fastener systems including seam, tab and recess, and extruded interlock systems.

EASY TO JOIN

The best sealed joints are made using neutral-cure silicon sealants in conjunction with recommended fasteners.

EASY TO HANDLE

ZINCALUME® steel is less slippery because it reduces the need for lubricants during roll-forming. This makes it safer to walk on and easier to handle, especially for roof fixers on steeply pitched roofs.

ZINCALUME® steel is also more cost effective as lubricants are not required, resulting in lower manufacturing costs.

MARK RESISTANT

The special resin coating protects the surface from marks made during roll-forming. Wear and tear on rolls can also be reduced. The resin coating also resists marks made by dirt from sweaty hands, moisture, boots, etc. for a better-looking finish after installation.

SAFE & SECURE

One of the advantages of having a roof or wall made from ZINCALUME® steel is its ability to deter intruders. Unlike roof tiles which can be easily lifted off or smashed, the superior strength of ZINCALUME® steel made entirely in one whole sheet makes it almost impossible for intruders to break in.



Zincalume®

Made Only By BlueScope Steel



This simple checklist is your guarantee of confidence in ZINCALUME® steel

- ☒ Manufactured only by BlueScope Steel.
- ☒ Termite proof.
- ☒ Non-combustible.
- ☒ Product performance is field tested.
- ☒ Durable, strong and lightweight.

To make sure your product is from BlueScope Steel, look for the ZINCALUME® steel brand mark.



ZINCALUME® is a registered trade mark of BlueScope Steel Limited.

BlueScope is a trade mark of BlueScope Steel Limited.

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*Warranty is available on application prior to commencement of project. Warranty terms and conditions apply. To determine eligibility of your project contact BlueScope Steel Southern Africa (Pty) Ltd at Ground Floor, Black River Park North, Block D, Fir Street, Observatory 7925, Cape Town, South Africa. Tel: 021 442 5420 Fax: 021 448 9132. No warranties or representations, express or implied or tacit whether bylaw, contract or otherwise which are not set forth in the order accepted by [BlueScope Steel Southern Africa (Pty) Ltd] shall be binding on [BlueScope Steel Southern Africa (Pty) Ltd], and the customer irrevocably waives any right (common law or otherwise) it may have to rely thereon or on any non-disclosure.



TERMITE
PROOF



THERMAL
EFFICIENCY



DESIGN
FLEXIBILITY



DURABILITY/
SECURITY



RECYCLING



WARRANTY



COATING



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