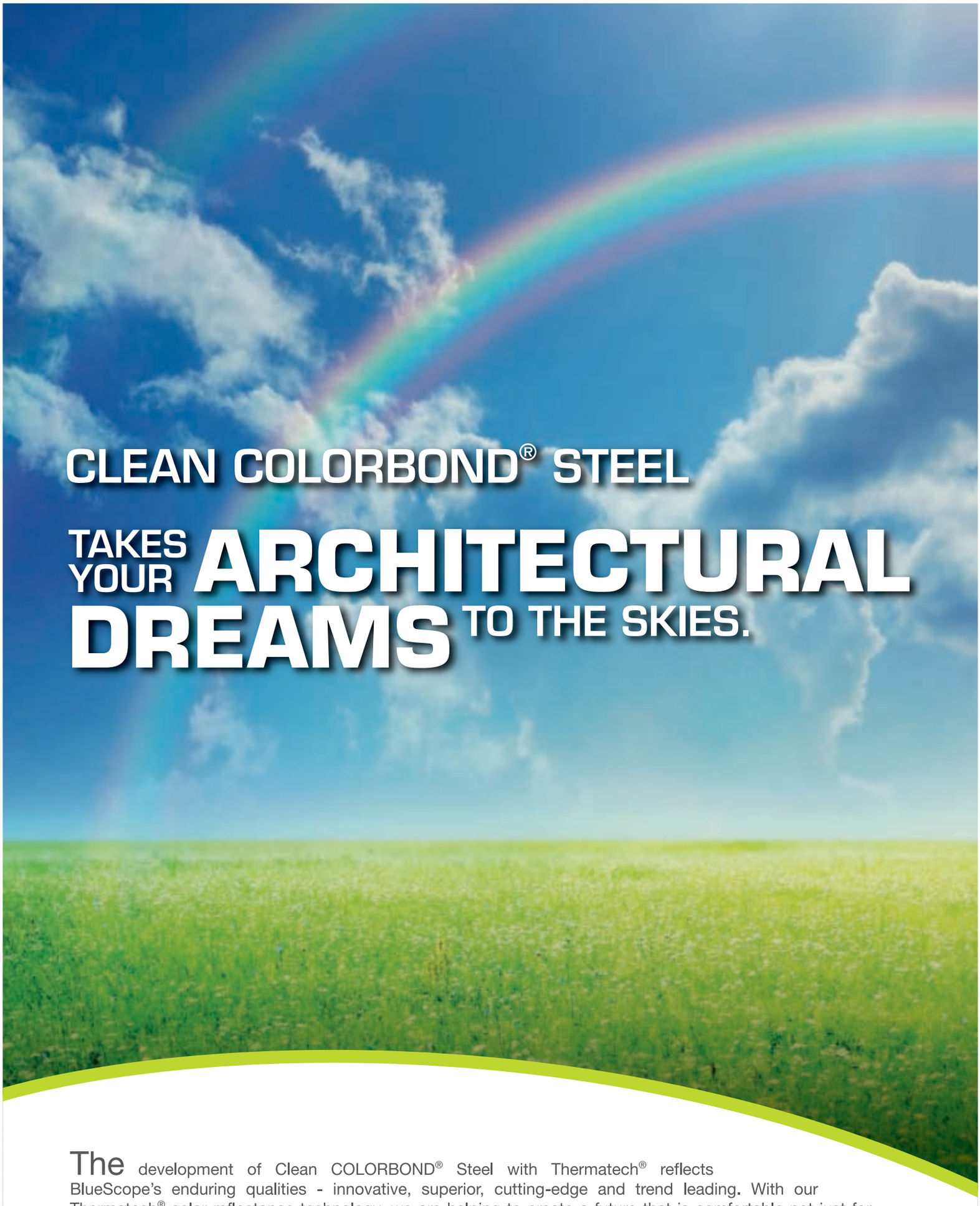


DESIGNED FOR VISIONARIES
BUILD FOR NATURE

clean Colorbond®

THERMATECH®



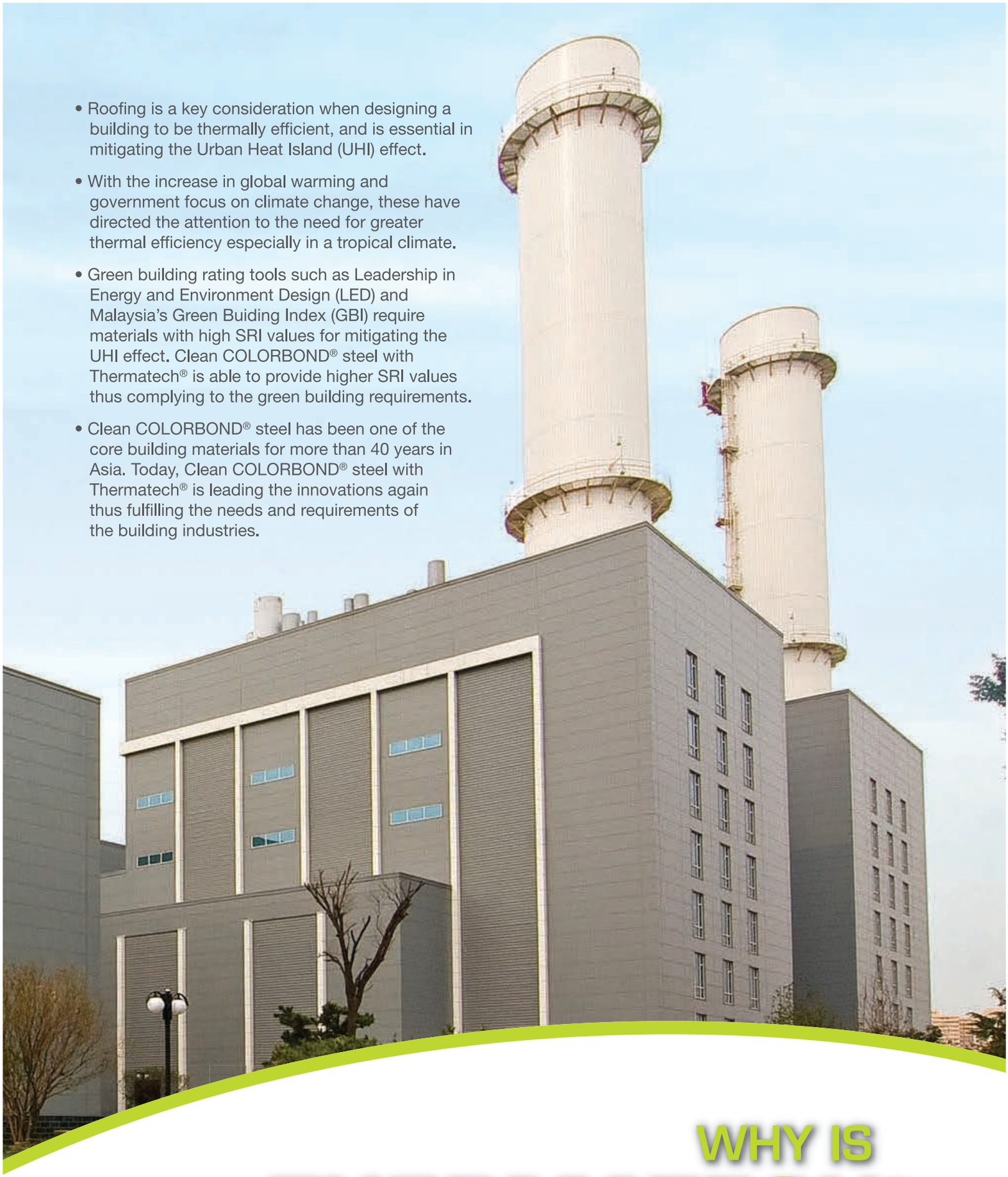
The development of Clean COLORBOND® Steel with Thermatech® reflects BlueScope's enduring qualities - innovative, superior, cutting-edge and trend leading. With our Thermatech® solar reflectance technology, we are helping to create a future that is comfortable not just for people, but for the environment too. Combined with Clean COLORBOND® steel's renowned durability, colour retention and flexibility, you now have the power to shape the landscape to suit both your architectural vision and conscience.


CLIMATE
CONTROL
STARTS HERE
BLUESCOPE

WHAT IS THERMATECH® SOLAR REFLECTANCE TECHNOLOGY?

- Thermatech® solar reflectance technology is incorporated into Clean COLORBOND® steel to lower surface temperature by absorbing less heat from the sun. In other words, Thermatech® is able to reflect the solar heat of a roofing material.
- Solar Reflectance Index (SRI) is a numerial value used to represent a constructed surface's ability to reflect solar heat. The SRI for standard black is 0 and a standard white is 100. Higher SRI values indicate a roof whose surface temperature is lower.
- Thermatech® technology optimizes the thermal perfomance of every colour in the standard Clean COLORBOND® steel without changing their appearance therefore consumes less energy for air-conditioning and helps to mitigate the Urban Heat Island (UHI) effect.





- Roofing is a key consideration when designing a building to be thermally efficient, and is essential in mitigating the Urban Heat Island (UHI) effect.
- With the increase in global warming and government focus on climate change, these have directed the attention to the need for greater thermal efficiency especially in a tropical climate.
- Green building rating tools such as Leadership in Energy and Environment Design (LED) and Malaysia's Green Buiding Index (GBI) require materials with high SRI values for mitigating the UHI effect. Clean COLORBOND® steel with Thermatech® is able to provide higher SRI values thus complying to the green building requirements.
- Clean COLORBOND® steel has been one of the core building materials for more than 40 years in Asia. Today, Clean COLORBOND® steel with Thermatech® is leading the innovations again thus fulfilling the needs and requirements of the building industries.

WHY IS THERMATECH® IMPORTANT?

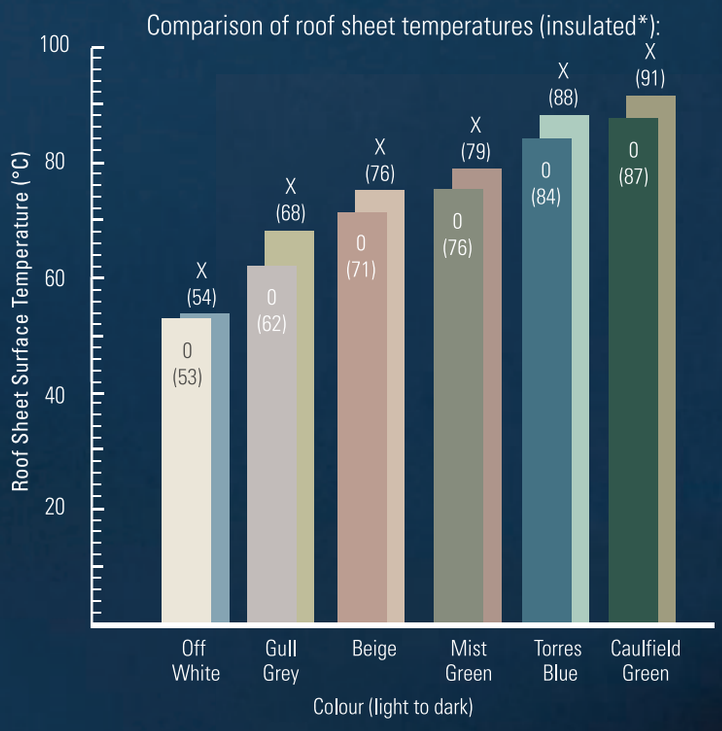


LOWER ENERGY CONSUMPTION FOR THE SAME COMFORT

- Thermatech® solar reflectance technology acts as an added insulation in hot weather, making it easier for air-conditioning to keep buildings cool.
- In moderate to hot climates, compared to roofing material of similar colour with lower solar reflectance, Clean COLORBOND® steel can reduce annual cooling energy consumption by up to 15%*.

  * Depending on level of insulation, colour, building shape and function.
- Clean COLORBOND® steel with Thermatech® technology reduces peak roof temperature by up to 6°C*, depending on the colour.

  * Depending on level of insulation, colour, building shape and function.
- Greater comfort while using less energy helps to reduce cost and is friendlier to the environment.



0 - Clean COLORBOND® steel
X - Standard pre-painted steel

*Assume 1000W/sq.m.;
Exterior Temperature = 36°C, no wind
Thermal emittance = 0.85;
100mm bulk insulation

The temperature of the roof sheet is lowered due to the Thermatech® technology in Clean COLORBOND® steel. This in turn cuts down the heat radiation into the building, making the interior of the building cooler.





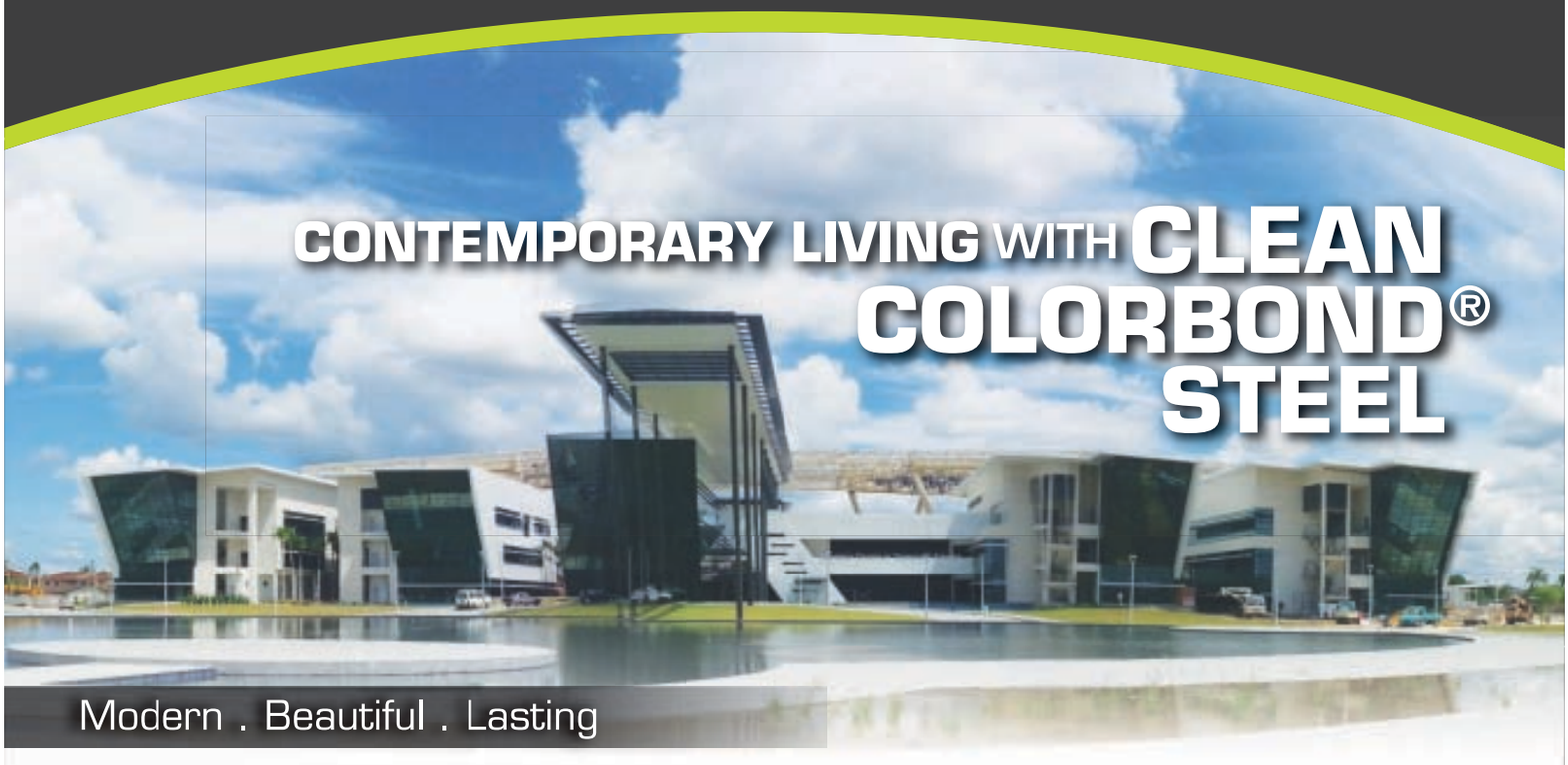
MORE OF EVERYTHING PEOPLE LOVE ABOUT CLEAN COLORBOND® STEEL





- Now, with the inclusion of Thermatech® solar reflectance technology, Clean COLORBOND® steel gives the building industry even more than what it wants. A wider choice of thermally efficient colours and even greater durability because of reduced heat stress on the entire roofing system.
- Clean COLORBOND® steel is backed by BlueScope's material warranty* against perforation by corrosion for up to 25 years, warranty against flake and peel for up to 15 years, warranty against colour fading for up to 10 years and warranty against dirt staining for up to 5 years.
- Elegant colour, design versatility, lightweight strength and durability are just some of the features that have made Clean COLORBOND® steel a favourite to architects, developers, builders, designers and the public alike.
- Corrosion resistance performance is a key focus for Clean COLORBOND® steel with AZ150 coating which is able to provide stronger and durable resistance against corrosion as compared to conventional pre-painted steel. Research has shown that the AZ150 coating class ia able to provide up to 4 times additions lifespan as compared to the conventional galvanized coating. Quality from BlueScope gives the assurance of minimum AZ150 coatings using our ZINCALUME® steel as the base material.

* Warranty terms and conditions apply.



YEAR-ROUND CLIMATE CONTROL

- Designing and building homes to be comfortable all year round can be a challenge with many considerations, including aspect, cross-ventilation, insulation, climate and more.
- Clean COLORBOND® steel roof not only reduces the amount of solar radiation absorbed, but is also very effective at re-radiating heat. With the addition of Thermatech® solar reflectance technology, darker coloured Clean COLORBOND® steel products also absorb less energy, creating the same advantages of a cooler roof and a cooler building.
- Thermal comfort is maintained by the dirt resistance property in Clean COLORBOND® steel. The solar reflectance of roofing sheets will be influenced by the amount of dirt staining. Therefore retaining a cleam appearance is very important for maximizing the cooling effect of roofing sheets.

Green accreditation for the environment

Environment sustainability is a continuous effort and commitment from all of us. We ensure our customers receive the highest standard in both quality and efficiency with the environment's best interest at heart. There is no better way to demostrate our commitment than receiving green accreditation from renowed independent bodies.

Our Clean COLORBOND® steel range of products are accredited with Eco-Label by SIRIM QAS Internaitonal, a member of the Global Ecolabelling Network (GEN) and certified with Singapore Green Building Product by Singapore Green Building Council (SGBC).

The SIRIM Eco-Label and Singapore Green Building Product certifications identify a product's overall environmental impact and the communication of its environmental information to consumers and businesses. Through these schemes, the product has undergone independant evaluation; and certified by both independent bodies on its environment performance against criteria which include the composition of raw materials used, hazardous substances management and waste and energy management in the entire manufacturing operation cycle.

clean Colorbond®

THERMATECH® STEEL Colour Chart

Offering you a vibrant selection to match your most prestigous designs.

85 African White	84 Off White	69 Almond Beige	55 Beige
40 Autumn Red	32 Heritage Red	28 Hunter Red	30 Copperstone
69 Gull Grey	47 Armour Grey	29 Volcanic Grey	19 Cape Charcoal
49 Cold Blue	27 Lazurite Blue	65 Sunflower Gold	24 Gun Metal Grey
29 Torres Blue	46 Mist Green	40 Aquamarine	23 Caulfield Green

Note: 1. Solar Reflectance Index (SRI) - ASTM E1980. This data is approximate values only - may vary based on paint formulation and/or metallic coating thickness
2. SRI is calculated using ASTM E1980 and Medium Convection Coefficient (12) value reported.

Note: The Clean COLORBOND® steel colours shown in the brochure have been reproduced to represent actual product colours as accurately as possible. However, we recommend you to check your chosen colour against actual sample of the product before purchasing, as varying light conditions and limitations of the printing process affect colour tones.

SOLAR REFLECTANCE INDEX (SRI) - ASTM E1980



For product identification and originality, please check the reverse side of the coil for the following branding text.

Clean COLORBOND (R) steel made by BlueScope 16:18 01.APR.13 ||

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