

THERMATECH™

SOLAR REFLECTANCE INDEX (SRI) - ASTM E1980

85 	81 	69 	43 
Enduring White (Off-White)	* Cosmic Grey * (Non Standard)	Ultimate Grey (Gull Grey)	* Gracious Grey * (Marine Grey) (Non Standard)
83 	55 	80 	64 
* Urban Beige * (Non Standard)	* Forever Beige * (Beige) (Non Standard)	* Solaris Yellow * (Non Standard)	* Luxury Gold * (Gold) (Non Standard)
82 	46 	23 	41 
* Wasabi Green * (Non Standard)	* Intimate Green * (Mist Green) (Non Standard)	Ever Green (Caulfield Green)	Eternal Red (Autumn Red)
82 	30 	40 	30 
* Nexus Blue * (Non Standard)	Constant Blue (Torres Blue)	* Inspiring Ocean * (Aquamarine) (Non Standard)	Mesmerizing Brown (Copperstone)

NOTE: 1. All colors shown are close to the actual Clean COLORBOND® preprinted steel colour as modern printing techniques permit.
2. SRI figures are approximate values only - may vary based on paint formulation and/or metallic coating thickness.
3. SRI calculated using ASTM E1980-01 and Medium Convexion Coefficient (12) value reported.

* Minimum ordering quantity 1500m² and five weeks lead-time applies for non-standard color.

DESIGNED FOR VISIONARIES, BUILD FOR NATURE

The development of Clean COLORBOND® Ultra steel with THERMATECH® reflects BlueScope Steel'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® Ultra steel's renowned durability, colour retention and flexibility, you now have the power to shape the Singapore landscape to suit both your architectural vision and conscience.

FOR BUILDINGS THAT LAST LONGER

Clean COLORBOND® ULTRA steel offers an attractive, long lasting roofing material that comes with an excellent protection against severe environment. From severe coastal to severe industrial environments, Clean COLORBOND® ULTRA steel consists an AZ200 coating class or a minimum 200 gram of zinc/aluminium coating. With the higher metallic coating mass and the custom formulated corrosion resistant polyester paint system with inorganic pigments, it is the most cost effective building material available for harsh environment.

YEAR-ROUND CLIMATE CONTROL

THERMATECH® solar reflectance technology is incorporated into Clean COLORBOND® Ultra steel to lower surface temperature by absorbing less heat from the sun. In other words, THERMATECH® is able to increase the Solar Reflectance Index (SRI) of a roofing material. SRI is a numerical number of a constructed surface's ability to reflect solar heat. A standard black is 0 and a standard white is 100. Higher SRI values indicate a roof whose surface temperature is lower. THERMATECH® technology optimizing the thermal performance of every colour in the standard Clean COLORBOND® Ultra steel without changing their appearance and providing greater thermal comfort all year round, whilst using less energy for air-conditioning besides mitigating the Urban Heat Island (UHI) effect.

CROSS SECTION OF CLEAN COLORBOND ULTRA STEEL



- Finish Coat (Nominal 20µm)
- Corrosion Inhibitive Primer (Nominal 5µm)
- Conversion Coating
- ZINCALUME® AZ200 steel Substrate
- Conversion Coating
- Corrosion Inhibitive Primer (Nominal 5µm)
- Backing Coat (Bass Grey, Nominal 10µm)

THE TECHNOLOGY BEHIND 'CLEAN'

Tropical staining (or dirt staining) is caused by a combination of airborne pollution, heat and humidity in tropical countries. It occurs frequently and causes dark stains to quickly form on all building materials. Overtime, dirt particles settle onto pre-painted steel surfaces. The heat and humidity cause them to embed themselves onto the finish coating (*figure a*). Realising the need for a special dirt resistant building material, R&D experts at BlueScope Steel developed a revolutionary coating system that prevents tropical staining. The unique Clean Colorbond steel coating system prevents dirt from sinking into its surface (*figure b*). Since adhesion of dirt and other airborne particles are prevented, tropical staining is also prevented. Surface dirt is then easily washed away with rainfall.

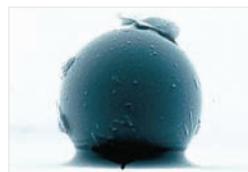
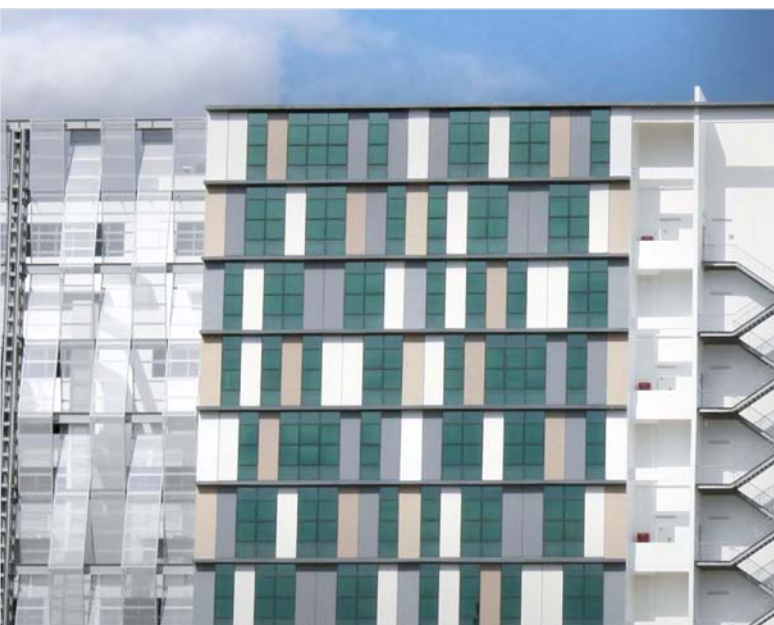


Figure A
Microscopic picture shows dirt bonding onto the surface of conventional pre-painted steel.



Figure B
Microscopic picture shows dirt not bonding onto the surface of Clean COLORBOND® steel



COATING



COLOUR CHOICES



DESIGN FLEXIBILITY



DURABILITY / SECURITY



HI-TECH PRODUCTION



RECYCLING



TERMITE PROOF



THERMAL EFFICIENCY



WARRANTY

* Warranty terms and conditions apply

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