

## TYPICAL PROPERTIES (cont.)

Mark Resistance	Good
Scratch Resistance	Good
Impact Resistance	≥10 Joules (AS 2728)
Pencil Hardness	HB minimum (AS 1580)
Flexibility	7T or less, no cracking (AS 2935)
Heat Resistance	Suitable for continuous service up to 100°C. Continuous service at higher temperatures may cause some colour change of the paint film.
Taber Abrasion Resistance	≤ 20mg paint removal per 100 cycles (AS 2105)

TABLE 2 – Early Fire Hazard Ratings (AS1530)

INDEX	RATING	RANGE
Ignitability Index	0	0 - 20
Spread of Flame Index	0	0 - 10
Heat Evolved Index	0	0 - 10
Smoke Evolved Index	0 - 1	0 - 10

## EXPECTED PRODUCT SERVICE PERFORMANCE

Film Integrity	Clean COLORBOND® steel under normal well-washed exposure conditions should show no cracking (other than that which may occur during forming), flaking or peeling of the paint for 15 years.
Change in appearance	The appearance of Clean COLORBOND® steel and other coil-coated products can change over time on exterior weathering not only due to pick-up of dirt but also to changes in the paint system itself such as gloss loss, chalking and fading of pigmentation. Colour change, which is largely due to the changes in pigmentation will depend on the colour chosen. It is measured using a spectrophotometer, according to ASTM D 2244 on surfaces thoroughly cleaned of dirt, chalk, oxidised film and foreign contaminants. The typical appearance change of standard Clean COLORBOND® steel colours in normal environment after 15 years of service are given in TABLE 3.

TABLE 3 – Expected colour change after 15 years

Colour Shade	Typical Appearance Change (Δ E unit Hunterlab)
Dark (eg Homestead)	≤ 6
Intermediate (eg Beige)	≤ 9
Dark (eg Autumn Red)	≤ 15

Some chalking may occur up to maximum chalk rating of not greater than 4 (i.e. not worse than a moderate level of chalking) after 10 years exposure, measured in accordance with Tapeoff Test, ISO 4628-6.

Note: Improper storage or the use of non-approved rollforming lubricants may adversely affect colour stability. Wet storage should be avoided, however, materials which become wet while in bundles should be separated and dried.

Corrosion Resistance (Salt Spray ASTM B117)	No more than (2) blister density, less than size S2 blisters, less than 2 mm undercutting from a score and no visible loss of adhesion after 1000 hours.
Humidity Resistance (AS2728)	No more than (2) blister density, less than size S2 blisters and no visible loss of adhesion after 1000 hours.
QUV Resistance (ASTM G53)	A chalk rating of not greater than 4 (Tapeoff Test, ISO 4628-6), is typical after 2000 hours testing i.e. moderate chalk as a maximum.
Chemical Resistance	The integrity of the paint film on Clean COLORBOND® steel is expected to be largely unaffected by accidental spillage of solvents such as methylated spirits, white spirits, mineral turpentine, toluene, trichlorethylene and dilute acids and alkali as long as these spillage are removed immediately by wiping or washing. However, contact with certain of these chemicals may reduce the resistance of the product to dirt pick-up.
Use Under Adverse Conditions	If it is intended to use Clean COLORBOND® steel in an exterior application within 1 km of salt marine locations, severe industrial or unusually corrosive environments, in areas not washed by rain, or in end uses where it will be wholly or partly buried in the ground, please contact your BHP sales office for specialised advice.

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Please ensure you have the current data sheet for this product.

## BHP Steel – Thailand

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