

ClimateLine™ Performance Testing Data Sheet

Independent Product Testing - ClimateLine™ test samples were evaluated for:

- Abrasion resistance
- Resistance to washing
- Chemical resistance
- Steam resistance
- Water resistance

Abrasion Resistance

AS/NZS 1580.403.2: Abrasion Resistance – Taber abraser

Abrasion resistance tests were carried out on ClimateLine™ samples and control samples of standard plasterboard painted with a leading brand of Waterborne Enamel Interior Paint.

The test results demonstrate that the ClimateLine™ test samples have excellent abrasion resistance and have demonstrated better abrasion resistance than the Waterborne Enamel Paint control test samples.

Results Summary

The control samples (Waterborne Enamel Paint) were found to wear faster than the test samples (ClimateLine™). All control coating samples (Waterborne Enamel Paint) were abraded to the substrate at 1000 cycles. The ClimateLine™ test samples did not abrade through to the substrate after 1000 cycles.

What this means: The ClimateLine™ powder coat finish has excellent resistance to abrasive activities, providing a durable finish that will continue to protect the plasterboard substrate, ensure serviceability and integrity of the finish and maintain its original appearance for longer. The abrasive resistant characteristics of ClimateLine™ make it an ideal lining for high wear environments such as schools, commercial buildings, offices, home hallways etc.

Resistance to Washing

AS/NZS 1580.459.1: Resistance to Washing

Resistance to Washing test results were carried out on ClimateLine™ test samples and control samples of standard plasterboard painted with a leading brand of Waterborne Enamel Interior Paint.

Results demonstrate that ClimateLine™ is not affected by repeated washing cycles. The ClimateLine™ test samples were less affected by regular cleaning than the Waterborne Enamel Paint control samples, as determined by a change in coating gloss levels.

What this means: The ClimateLine™ powder coated surface will continue to retain its original appearance for longer when cleaned repeatedly over time.

	ClimateLine™	Control (Waterborne Enamel Paint)
Mean Change in Gloss Levels at 85° perpendicular	No Change	18% increase in gloss % points (14.3% gloss rating increase to 16.9% @ 85°)
Mean Change in Gloss Levels at 60° perpendicular	No measurable change	12% Increase in gloss % points (12.33% gloss rating increase to 13.87%)

Report Summary – Abrasion Resistance and Resistance to Washing

“It is clear from the results obtained from both the Taber abraser testing and the washing resistance testing that ClimateLine samples have resisted surface damage better than the control samples (Waterborne Enamel Paint). However, it is not systematically defined in either standard how results from these tests will translate into in-service performance.”

Early Fire Indices

Tested to AS/NZS 1530.3:1999

NB: Test result to AS/NZS 3837/ISO 9705 to meet the revised BCA C1.10a is pending

Indices	Ignitability (0-20)	Spread of Flame (0-10)	Heat Evolved (0-10)	Smoke Developed (0-10)
Climate powder coat finish, single side, over 10mm Std Plasterboard	0	0	0	3

Stain, Steam and Water Resistance Test Results Summary

Stain Resistance Tested to ASTM D3023	Excellent resistance to household cleaners
Steam Resistance	Coating unaffected by steam after 24 hours: Excellent resistance to steam
Water Resistance	Coating unaffected by water after 96 hours: Excellent resistance to water

Hardness Rating

Hardness Pencil Hardness	Minimum Pencil Hardness H: Excellent Surface Hardness
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Test reports available on request from Climate Coating LTD

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