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## TEST REPORT

**Lucideon Reference:** 155545 (QT38443/1/DT)/Ref. 1/Supp1

**Project Title:** Accelerated Weathering Tested to ETAG 034 and TS EN 772-22 on a Jesmonite GRC Grade 18. Metallic Panel

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**Work Location:** Lucideon UK

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Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation.

This report supersedes the report issued on 22.01.16.

Miss Lisa Cobden  
**Consultancy Team  
Reviewer**

Mr Chris Rushton  
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<b>CONTENTS</b>		<b>Page</b>
<b>1</b>	<b>INTRODUCTION</b>	<b>3</b>
<b>2</b>	<b>SAMPLES</b>	<b>3</b>
<b>3</b>	<b>SAMPLE PREPARATION</b>	<b>3</b>
<b>4</b>	<b>TEST PROGRAMME</b>	<b>3</b>
<b>4.1</b>	<b>Heat-Rain Cycles</b>	<b>3</b>
<b>4.2</b>	<b>Freeze/Thaw Cycles</b>	<b>3</b>
<b>5</b>	<b>TEST METHOD</b>	<b>3</b>
<b>6</b>	<b>RESULTS</b>	<b>4</b>
<b>7</b>	<b>CONCLUSION</b>	<b>4</b>
	<b>PLATE</b>	<b>5</b>



## 1 INTRODUCTION

Telling Architectural Ltd required a programme of testing in order to investigate the durability of a Jesmonite GRC Grade 18. Metallic panel when subject to Accelerated Weathering in accordance with ETAG 034 and TS EN 77-22.

## 2 SAMPLE

One Jesmonite GRC Grade 18. Metallic panel.

## 3 SAMPLE PREPARATION

The sample was prepared by the client and submitted for test as a finished panel.

## 4 TEST PROGRAMME

The panel was subjected to Accelerated Weathering based on ETAG 034 and TS EN 772-22.

### 4.1 Heat-Rain Cycles

The sample was subjected to a series of 80 cycles comprising the following phases:

- 1 – Heating to +70°C (rise for 1 hour) and maintaining at (+70 ± 5)°C and 10 to 30% RH of air for 2 hours (total of 3 hours).
- 2 – Spraying for 1 hour (water temperature (+15 ± 5)°C, amount of water 1 l/m<sup>2</sup>min).
- 3 – Leave for 2 hours (drainage).

### 4.2 Freeze/Thaw Cycles

After at least 48 hours of subsequent conditioning at temperatures between + 10 and + 25°C and a minimum relative humidity of 50%, the same test rig is exposed to a series of 100 cycles of 24 hours comprising of the following phases:

- 1 – Exposure to (+ 20 ± 3)°C for 20 minutes.
- 2 – Exposure to spraying for 2 minutes.
- 3 – Exposure to (-15 ± 3)°C for 2 hours.

Visual observations were carried out after 50 and 100 freeze/thaw cycles.

## 5 TEST METHOD

The sample was photographed before and after being subject to the Accelerated Weathering.



## 6 RESULTS

Upon completion of the weathering cycles each panel was visually inspected to determine if any deterioration had taken place.

## 7 CONCLUSION

Visual inspection concludes that there was no damage to the Jesmonite GRC Grade 18. Metallic panel tested.

**PLATE**



**Plate 1** - Before and After Weathering of the Jesmonite GRC Grade 18. Metallic Panel

Note variation in colour due to lighting conditions. No visual damage.

**NOTE: The results given in this report apply only to the samples that have been tested.**

**END OF REPORT**