



GA Aluminium Corrugated Panel System

INTRODUCTION

A series of tests on Gooding Aluminium's Corrugated Panel System (natural anodised finish) were carried out to establish the performance of the system under the effects of extreme heat and cold.

SAMPLE

A timber framed 3200mm x 2600mm (L x H) wall was constructed using 38mm x 63mm (W x D) C16 Timber, with stud centres set at 600mm.

The frame was then clad with 2400mm x 1200mm x 12mm (L x W x T) cement fibre construction boards.

18 no. 2500mm lengths of profile GA CP78 (natural anodised) and 2 sets of 2500mm (male/female) profile GA EP78 were used to clad the construction boards.

The aluminium profiles were then assembled by technicians from Lucideon Limited in accordance with the installation instructions provided by Gooding Aluminium Ltd.

TEST METHOD

Heat/Cold Cyclic Testing

A completed corrugated panel system sample was installed in a hygrothermal chamber such that the face of the cladding system was exposed to the following heat/cold cycles for 5 days, taken from EAD 090062-00-0404 2018 Kits for external wall claddings mechanically fixed:

1. Exposure to 50 degrees C (rise for 1 hour) and maximum of 30% Relative Humidity (RH) for 7 hours (total of 8 hours)
2. Exposure to -20 +/- 5 degrees C (fall for 2 hours) for 14 hours (total of 16 hours).

The test sample was inspected 3 times daily during each of the 5 cycles to establish whether there was any sign of buckling or loss of junction at the tongue and groove panel joint.

RESULTS

Visual inspections before, during and after showed that there was no deterioration of the aluminium panel sample.

This data sheet is an abbreviated version of Lucideon Ltd., Test Report No. UK232503 (QT-71395/1/1B) Ref.1.

GA Helpline for professional assistance 020 8692 2255 Mon-Fri 8.30am -5pm
www.goodingalum.com

Email: sales@goodingalum.com

© Gooding Aluminium Limited

