

Report 20/3039

December 4th, 2020

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Customer: Enviro Square Ltd
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AUCKLAND

P 2348/1

Attention: Soon Chin

Thermal Tests on KAPO Board

1.0 Method

Two 200 x 200 mm samples of 9 mm thick KAPO calcium silicate board were subjected to a temperature over 620 °C for a period of 96 hours and were then subjected to the tests described in AS/NZS 2918:2018 Appendix C. One sample was subjected to the falling ball impact test set out in AS/NZS 2918:2018 clause C5(c) and then allowed to cool while the other was allowed to cool without impact. Both samples were examined against the criteria of AS/NZS 2918:2018 clause C6.

Tests were carried out in our Beatty St laboratory in December 2020 by G. Looman.

2.0 Results

Both samples were found to conform to the requirements of AS/NZS 2918:2018 clause C6 in that there were no:

- (i) visible cracks or fractures
- (ii) visible indications of de-lamination
- (iii) linear distortions in excess of 10 mm/m
- (iv) did not apply – there was no surface finish applied to the sample supplied for testing

We note that the samples discoloured during the heating process but there was no deterioration of the surface.

AS/NZS 2918:2018 defines a heat resistant material as a material with an allowable service temperature of 600 °C or greater.


The KAPO calcium silicate board tested has a heat tolerance rating of 620 °C.

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Prepared by: G. Looman



Approved by: W.S. Webley



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