

5. CLASSIFICATION IN ACCORDANCE WITH NCC VOLUME ONE SPECIFICATION C1.10

Calculations were carried out according to Specification A2.4. The classification for the specimens as described in Section 1 is as follows:

	Sample 1	Sample 2	Sample 3	Classification
Group number Classification	1	1	1	1

The average specific extinction area for the sample of 12.8 m²/kg is less than the 250 m²/kg limit and therefore it may be used in buildings without a sprinkler system complying with Specification E1.5 in accordance with Specification C1.10 Table 2.

6. DISCUSSION

The specimen tested in full and reported herein was nominally 25 mm thick. A sample of Woodtex lining nominally 38 mm thick was prepared as described in Section 2 and subjected to a single indicative test in accordance with the test standard. The results were analysed in accordance with Specification A2.4 achieving a Group 1 classification and specific extinction area less than the 250 m²/kg limit.

The key results are summarised in the table below.

Specimen	Number of tests	Time to Ignition (s)	Peak Heat Release Rate (kW/m ²)	Mean Total Heat Release (MJ/m ²)	Average Specific Extinction Area (m ² /kg)	Indicated Group Number Classification
FH4964-50-30M-1	1	No ignition	18.7	7.1	<250	1

It is therefore considered that for the specimens described in Section 1, the increased thickness of specimen is unlikely to adversely affect the Group 1 classification or specific extinction area of less than the 250 m²/kg limit achieved by specimen as tested and reported herein.



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7. CONCLUSION

The cone calorimeter testing was carried out on the specimens described in Section 1. For the purposes of compliance with the NCC Volume One Specification C1.10 for the Classification of Fire Performance of Wall and Ceiling Lining Materials, the following classification is considered applicable to the material as described in Section 1, and others in the same product range with the same fabrication and density as the products tested.

Group Number Classification

1

The average specific extinction area was less than the 250 m²/kg limit.



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