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Date	Reference	Page
2011-12-15	PX17276C	1 (2)
Rev.date	English version 2018-04-27	
Akustikmiljö i Falkenberg AB Box 77 SE-311 21 Falkenberg Sweden		

Fire testing according to NT FIRE 002 (2 appendices)

Abstract

Fire testing of acoustic fibre was performed by commission of Akustikmiljö i Falkenberg AB, Sweden. The testing involved measurements of the ignitability according to NT FIRE 002.

The test results are given in Appendix 1.

Material

Acoustic board EcoSUND, type FTX-100 without surface layer and with production date 2011-04-19, Batch 1116-5318, Quarter 2. with nominal

Manufacturer: Akustikmiljö i Falkenberg AB.

Measuring data: Thickness 55 mm, Density 32,9 kg/m³.

The test material arrived to SP Trätekt on 23 September 2011.

Fire testing

The fire tests were according to Nordtest Metod NT FIRE 002, Edition 2, 1985-11 (Svensk Standard SS 02 48 21). Two single tests were performed on 18 and 26 October 2011.

All test specimens were conditioned in a controlled climate chamber at 23±2 °C temperature and 50±5 % RH.

Test results

The test results are given in Appendix 1.

Guidelines on type approval

The Swedish National Housing Board general recommendations 1993:2, issue 2, fire protection part 1.1.2 Hardly Ignitable material, Appendix 2.

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Results

The performed investigation of delivered material shows that Acoustic fibre satisfies the requirements according to the Swedish National Housing Board general recommendations 1993:2, issue 2, fire protection part 1.1.2, for a hardly ignitable material.

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Lazaros Tsantaridis
Performed by

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Appendices

1. Test results NT FIRE 002
2. Extract from Swedish National Housing Board general recommendations: 1.1.2 Hardly Ignitable material

Appendix 1

Client: Akustikmiljö I Falkenberg AB.

Product: Acoustic board EcoSUND, type FTX-100 without surface layer.

Test results NT FIRE 002

Testing time in minutes:seconds

Test No.	1	2
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Observations during the fire test

Burner placed perpendicular to the test board A	0:00	0:00
Fire on test board A	0:02	0:02
Fire 20 cm on test board A	0:07	0:07
Fire 30 cm on test board A	0:15	0:14
Fire 40 cm on test board A	0:21	0:20
The fire abated	0:30	0:27
The fire died out on test board A	15:00	15:00
The gas flame was extinguished	15:00	15:00
All glow had ceased on test board A	15:00	15:00
No fire or glow on test board B		

Extract from the guidelines on type approval of fire protection in the general recommendations of the Swedish National Housing Board, 1993:2, issue 2.

1.1.2 Hardly Ignitable material

Material with thickness more than 3,5mm

A material with thickness more than 3,5mm is deemed to be hardly ignitable if it at three single tests according to SS 02 48 21 (NT FIRE 002) - however with the test time reduced to 15 minutes - in all cases meets the following two requirements:

- a) ignition does not arise within 15 minutes in the test board not attacked by the gas flame, and
- b) when the gas flame is removed, possible fire in the test board directly attacked by the gas flame extinguishes within 1 minute and possible glow ceases in both the test boards within 3 minutes.