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

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.