



REPORT

issued by an Accredited Testing Laboratory

Handled by, department
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Reference
F908519

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Nordic E Trade AB
Hallvägen 27
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Heat release and smoke generation according to SS 02 48 23 (NT FIRE 004)

(1 appendix)

Product

Wall covering called "Photowall-WP", consisting of Non-Woven. The product has a nominal area weight of 150 g/m² and a nominal thickness of 187 µm.

Manufacturer

Nordic E Trade AB, Johanneshov, Sweden.

Purpose of test

Basis for technical fire classification.

Sampling

The sample was delivered by the client. It is not known to SP Fire Technology if the product received is representative of the mean production characteristics.

The sample was received May 15, 2009 at SP Fire Technology.

Test results

The test results are given in appendix 1.

The test results relate only to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

Criteria

According to the guidelines for type approval "Boverkets riktlinjer för typgodkännande, Brandskydd, Allmänna råd 1993:2, utgåva 2" section 1.3 a surface finish is classified as class I if in three tests in accordance with SS 02 48 23 (NT FIRE 004), over a test period of 10 minutes, the following two criteria are met:

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- The mean temperature curve for the three tests does not exceed limit curve I for a total period greater than 30 seconds, and the area thus enclosed between the mean temperature curve and the limit curve is not greater than 15 (minutes times °C).
- The area below the mean smoke density curve for the three tests is not greater than 50 (minutes times %). The mean density curve for the smoke is the density curve for the smoke as an average for the three tests.

According to the above mentioned guidelines for type approval, a surface finish is classified as class II or III if in three tests in accordance with SS 02 48 23 (NT FIRE 004), over a test period of 5 minutes, the following two criteria are met:

- The mean temperature curve for the three tests does not exceed the given limit curve for a total period greater than 30 seconds, and the area thus enclosed between the mean temperature curve and the limit curve is not greater than 15 (minutes times °C).
- The area below the mean smoke density curve for the three tests is not greater than 150 (minutes times %). The mean density curve for the smoke is the density curve for the smoke as an average for the three tests.

Assessment

The tested sample of the product called "Photowall-WP", when applied to a type approved plaster board having a nominal density of 725 kg/m^3 , meet the technical fire requirements for surface finish class I, according to the criteria mentioned above.

The tested sample of the product, applied as specified above, also meet the common Nordic approval rules for surface finishes releasing a slight amount of heat and generating a slight amount of smoke according to "NKB Produktregler 14" section 2.2.2 and 2.2.3.

NS-INSTA 412 and SS 02 48 23 correspond, why the tested surface finish, applied as specified above, also meet the requirements for "svakt varmeavgivende materiale" and "svakt røykutviklende materiale" according to NS 3919.

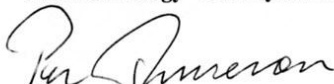


Note

According to the approval rules, "NKB Produktregler 14", an approval can be given for application of the product on the current backing (type approved plaster board) and on non-combustible backings having a density of more than 550 kg/m³.

According to the approval rules, "NKB Produktregler 14", a report should normally not be older than two years when used for application for a type approval.

**SP Technical Research Institute of Sweden
Fire Technology - Fire Dynamics**


Per Thureson
Technical Manager


Hans Wetterlund
Technical Officer

Appendix: 1. Test results.



Appendix 1

Test results - SS 02 48 23, 1987 (NT FIRE 004)

Product

Wall covering called "Photowall-WP", consisting of Non-Woven. The product has a nominal area weight of 150 g/m² and a nominal thickness of 187 µm.

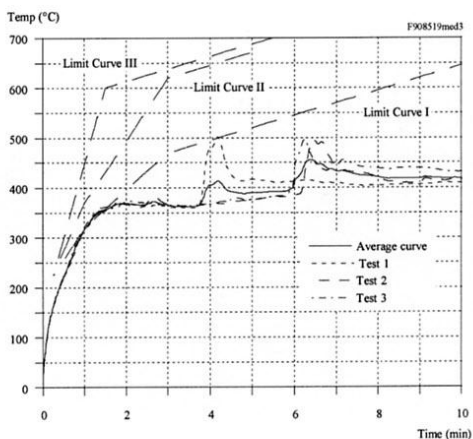
Application

The specimen was glued to a type approved plaster board having a density of 725 kg/m³ approximately, with "Hernia PVP Extra", glue amount 250 g/m² approximately.

Heat release

The average curve exceeds limit curve I during 24 seconds and with an area of 2 degree x minutes.

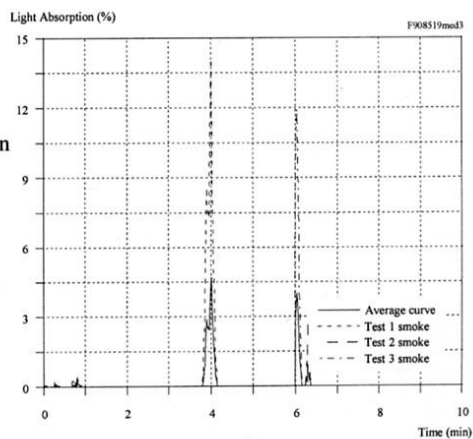
The average curve does not exceed limit curve II.



Smoke generation

Average light absorption 0.1 %
Maximum light absorption 4.7 %

The average smoke density curve forms an area of 1.1 (min x %) during the 10 minutes test period.





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Appendix 1

Measured data

Thickness approx. 0.20 mm.
Area weight approx. 163 g/m².

Conditioning

Temperature (23 ± 2) °C.
Relative humidity (50 ± 5) %.

Date of test

June 11, 2009.