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Reaction to fire classification report

1 Introduction

This classification report defines the classification assigned to the product "iQ Optima" in accordance with the procedure given in EN 13501-1:2007.

2 Details of classified product

2.1 General

The product "iQ Optima" is defined as a resilient floor covering. Its classification is valid for the end use application as floor covering for indoor use.

According to the owner of this classification report, this product complies with the European product specification EN 14041:2004.

2.2 Product description

The product, "iQ Optima", is fully described below.

According to the client: Homogeneous vinyl flooring, with organic content consisting of polyvinylchloride, plasticizer, stabilizer and with a surface of PU-coating. The nominal area weight is 2.8 kg/m² and the nominal thickness is 2.0 mm.

3 Test reports & test results in support of classification

3.1 Test reports

This classification is based on the test report listed below:

| Name of laboratory | Name of sponsor | Test report ref no | Accredited test method |
|--------------------|-----------------|--------------------|---------------------------------|
| SP | Tarkett AB | P900035 | EN ISO 9239-1 EN ISO 11925-2 |

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3.2 Test results

| Test method | Parameter | Number of tests | Results | |
|----------------|---|-----------------|-------------------------------|----------------------|
| | | | Continuous parameter mean (m) | Compliance parameter |
| EN ISO 11925-2 | | 6 | | |
| 15 s exposure | $F_s \leq 150$ mm | | (-) | Compliant |
| EN ISO 9239-1 | | 4 | | |
| | <i>Critical flux</i> (kW/m ²) | | 8.8 | Compliant |
| | <i>Smoke</i> (%.min) | | 261 | Compliant |

(-) : not applicable

4 Classification and field of application

4.1 Reference and direct field of application

This classification has been carried out in accordance with clause 12 and 15 of EN 13501-1:2007.

4.2 Classification

The product called “iQ Optima” in relation to its reaction to fire behaviour is classified:

B_{fl}

The additional classification in relation to smoke production is:

s1

The format of the reaction to fire classification for floorings is:

| Fire Behaviour | | Smoke Production | |
|----------------|---|------------------|---|
| B_{fl} | - | s | 1 |

Reaction to fire classification: B_{fl-s1}

4.3 Field of application:

This classification is valid for the following product parameters:

Nominal thickness: 2.0 mm.

Nominal area weight: 2.8 kg/m².

This classification is valid for the following end use applications:

Substrates

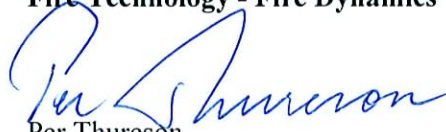
- Wood based substrates or substrates of Euroclass A1_n or A2_n having a density ≥ 510 kg/m³.

The sample was delivered by the client. SP Fire Technology was not involved in the sampling procedure.

5 Limitations

This classification document does not represent type approval or certification of the product.

SP Technical Research Institute of Sweden
Fire Technology - Fire Dynamics



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