



Summary concerning fire classification of wood products

Metsä Wood Spruce FireResist

Kerto FireResist

Metsä Wood Birch Phoenix

Metsä Wood Spruce Phoneix

FRITZOE
ENGROS

Requested by: Metsä Wood

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Order 22 March 2016 / Anu Huovinen

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Assignment **Summary concerning fire classification of wood products**

Products Metsä Wood Spruce FireResist
Kerto FireResist
Metsä Wood Birch Phoenix
Metsä Wood Spruce Phoenix

According to the customer both surfaces of the products are similar.

The products are described in the classification reports mentioned below.

Classification reports Summary is based on the following classification reports:

Metsä Wood Spruce FireResist and Kerto FireResist:
Classification report No. VTT-S-3338-11 dated 10 May 2011
Classification report No. VTT-S-00781-16 dated 11 March 2016

Metsä Wood Spruce FireResist and Kerto FireResist as floorings:
Classification report No. VTT-S-2-12 dated 17 January 2012

Metsä Wood Birch Phoenix:
Classification report No. VTT-S-2510-12 dated 29 March 2012

Metsä Wood Spruce Phoenix:
Classification report No. VTT-S-2511-12 dated 29 March 2012

The test results relate only to the sample tested.

Classes of the products and validity of classification

The reaction to fire classification of **Metsä Wood Spruce FireResist** and **Kerto FireResist** is B-s1,d0. This classification is valid for the following product parameters and end use conditions:

- thickness of the products ≥ 15 mm
- without joints or with closed vertical and horizontal joints
- fixed mechanically to wooden or metallic frames
- without an air gap between the products and a substrate of class A1 or A2-s1,d0 with a density of at least 30 kg/m^3

The reaction to fire classification of **Metsä Wood Spruce FireResist** and **Kerto FireResist** is B-s2,d0. This classification is valid for the following product parameters and end use conditions:

- thickness of the products ≥ 15 mm
- without joints or with closed vertical and horizontal joints
- fixed mechanically to wooden or metallic frames
- with or without an air gap between the products and a substrate of class A1 or A2-s1,d0 and density of at least 540 kg/m^3

The reaction to fire classification of **Metsä Wood Spruce FireResist** and **Kerto FireResist** as floorings is B_{fl}-s1. This classification is valid for the following product parameters and end use conditions:

- thickness of the products ≥ 12 mm
- with or without an air gap between the products and a wood based substrate or any substrate of class A1 or A2-s1,d0 with density of at least 470 kg/m^3 ; the air gap can be filled with a thermal insulation of class A1 or A2-s1,d0 with density at least 23 kg/m^3
- without an air gap between the products and a plywood substrate with a density of at least 400 kg/m^3

The test results relate only to the sample tested.

The reaction to fire classification of **Metsä Wood Birch Phoenix** is B-s1,d0. This classification is valid for the following product parameters and end use conditions:

- thickness of the product ≥ 12 mm
- without joints or with vertical and horizontal 2 mm butt joints
- fixed mechanically to wooden or metallic frames
- the substrate is of class A1 or A2-s1,d0 and density of at least 30 kg/m^3

The reaction to fire classification of **Metsä Wood Spruce Phoenix** is B-s1,d0. This classification is valid for the following product parameters and end use conditions:

- thickness of the product ≥ 12 mm
- without joints or with vertical and horizontal ≤ 8 mm open joints
- fixed mechanically to wooden or metallic frames
- the substrate is of class A1 or A2-s1,d0 and density of at least 30 kg/m^3

Espoo, 20 April 2016



Kai Renholm
Business Manager



Tiia Ryyänen
Product Manager

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The test results relate only to the sample tested.