



# Acupanel® Fire Rated Acoustic Wood Wall Panels

## Technical Sheet

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### Contact us

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# Acupanel® Fire Rated Acoustic Wood Wall Panels

We're proud to present our next generation of acoustic, fire-rated panels to the UK! Our Acupanel® Fire Rated range consists of beautifully designed wood strip decorative wall and ceiling panels, certified to b - s1, d0 fire rating. The panels can be easily applied to walls and ceilings, be it for domestic and commercial use. Now available in our Luxe range as well as our standard 15-slat panel, there is a panel option that suits all environments.



## Fire rating

Fire-rated to b - s1, d0 according to EN 13501-1:2018. Please see Fire Rating Graphs on [page 8](#).



## Care and maintenance

Wipe the panels clean with a dry cloth. A light dusting or vacuuming will also prevent any dust build-up.



## Finishes

Real wood veneer finished plywood slats, available in our standard 15-slat panel and Luxe range.



## Superior sound absorption

These panels have Class A superior sound absorption. See [page 9](#) for more details. Backing felt material produced from recycled material.



## Residential & commercial

Perfect for both residential and commercial environments. The best choice for commercial environments.

# Dimensions

All finishes are available on a range of colour backings;  
please [contact our sales team](#) for further information.

| Product name                                                 | Felt Colour | Materials                       | Panel Dimensions (mm)    | Slat width (mm) | SQM per panel | Weight (kg) |
|--------------------------------------------------------------|-------------|---------------------------------|--------------------------|-----------------|---------------|-------------|
| <b>Fire Rated</b>                                            |             |                                 |                          |                 |               |             |
| Acupanel® Fire Rated Oak Wood Wall Panel - Black Felt        | ■ Black     | Wood Veneer / Fire-Rated        | 2480(H) x 600(W) x 21(D) | 31              | 1.48          | 11.9        |
|                                                              |             | Plywood / Acoustic Felt Backing | 3000(H) x 600(W) x 21(D) | 31              | 1.8           | 14.5        |
| Acupanel® Fire Rated Oak Wood Wall Panel - Grey Felt         | ■ Grey      | Wood Veneer / Fire-Rated        | 2480(H) x 600(W) x 21(D) | 31              | 1.48          | 11.9        |
|                                                              |             | Plywood / Acoustic Felt Backing | 3000(H) x 600(W) x 21(D) | 31              | 1.8           | 14.5        |
| Acupanel® Fire Rated Oak Wood Wall Panel - White Felt        | □ White     | Wood Veneer / Fire-Rated        | 2480(H) x 600(W) x 21(D) | 31              | 1.48          | 11.9        |
|                                                              |             | Plywood / Acoustic Felt Backing | 3000(H) x 600(W) x 21(D) | 31              | 1.8           | 14.5        |
| Acupanel® Fire Rated Walnut Wood Wall Panel - Black Felt     | ■ Black     | Wood Veneer / Fire-Rated        | 2480(H) x 600(W) x 21(D) | 31              | 1.48          | 11.9        |
|                                                              |             | Plywood / Acoustic Felt Backing | 3000(H) x 600(W) x 21(D) | 31              | 1.8           | 14.5        |
| Acupanel® Fire Rated Walnut Wood Wall Panel - Grey Felt      | ■ Grey      | Wood Veneer / Fire-Rated        | 2480(H) x 600(W) x 21(D) | 31              | 1.48          | 11.9        |
|                                                              |             | Plywood / Acoustic Felt Backing | 3000(H) x 600(W) x 21(D) | 31              | 1.8           | 14.5        |
| Acupanel® Fire Rated Walnut Wood Wall Panel - White Felt     | □ White     | Wood Veneer / Fire-Rated        | 2480(H) x 600(W) x 21(D) | 31              | 1.48          | 11.9        |
|                                                              |             | Plywood / Acoustic Felt Backing | 3000(H) x 600(W) x 21(D) | 31              | 1.8           | 14.5        |
| Acupanel® Fire Rated Smoked Oak Wood Wall Panel - Black Felt | ■ Black     | Wood Veneer / Fire-Rated        | 2480(H) x 600(W) x 21(D) | 31              | 1.48          | 11.9        |
|                                                              |             | Plywood / Acoustic Felt Backing | 3000(H) x 600(W) x 21(D) | 31              | 1.8           | 14.5        |
| Acupanel® Fire Rated Smoked Oak Wood Wall Panel - Grey Felt  | ■ Grey      | Wood Veneer / Fire-Rated        | 2480(H) x 600(W) x 21(D) | 31              | 1.48          | 11.9        |
|                                                              |             | Plywood / Acoustic Felt Backing | 3000(H) x 600(W) x 21(D) | 31              | 1.8           | 14.5        |
| Acupanel® Fire Rated Smoked Oak Wood Wall Panel - White Felt | □ White     | Wood Veneer / Fire-Rated        | 2480(H) x 600(W) x 21(D) | 31              | 1.48          | 11.9        |
|                                                              |             | Plywood / Acoustic Felt Backing | 3000(H) x 600(W) x 21(D) | 31              | 1.8           | 14.5        |
| Acupanel® Fire Rated White Oak Wood Wall Panel - Black Felt  | ■ Black     | Wood Veneer / Fire-Rated        | 2480(H) x 600(W) x 21(D) | 31              | 1.48          | 11.9        |
|                                                              |             | Plywood / Acoustic Felt Backing | 3000(H) x 600(W) x 21(D) | 31              | 1.8           | 14.5        |
| Acupanel® Fire Rated White Oak Wood Wall Panel - Grey Felt   | ■ Grey      | Wood Veneer / Fire-Rated        | 2480(H) x 600(W) x 21(D) | 31              | 1.48          | 11.9        |
|                                                              |             | Plywood / Acoustic Felt Backing | 3000(H) x 600(W) x 21(D) | 31              | 1.8           | 14.5        |
| Acupanel® Fire Rated White Oak Wood Wall Panel - White Felt  | □ White     | Wood Veneer / Fire-Rated        | 2480(H) x 600(W) x 21(D) | 31              | 1.48          | 11.9        |
|                                                              |             | Plywood / Acoustic Felt Backing | 3000(H) x 600(W) x 21(D) | 31              | 1.8           | 14.5        |
| Acupanel® Fire Rated Grey Oak Wood Wall Panel - Black Felt   | ■ Black     | Wood Veneer / Fire-Rated        | 2480(H) x 600(W) x 21(D) | 31              | 1.48          | 11.9        |
|                                                              |             | Plywood / Acoustic Felt Backing | 3000(H) x 600(W) x 21(D) | 31              | 1.8           | 14.5        |
| Acupanel® Fire Rated Grey Oak Wood Wall Panel - Grey Felt    | ■ Grey      | Wood Veneer / Fire-Rated        | 2480(H) x 600(W) x 21(D) | 31              | 1.48          | 11.9        |
|                                                              |             | Plywood / Acoustic Felt Backing | 3000(H) x 600(W) x 21(D) | 31              | 1.8           | 14.5        |
| Acupanel® Fire Rated Grey Oak Wood Wall Panel - White Felt   | □ White     | Wood Veneer / Fire-Rated        | 2480(H) x 600(W) x 21(D) | 31              | 1.48          | 11.9        |
|                                                              |             | Plywood / Acoustic Felt Backing | 3000(H) x 600(W) x 21(D) | 31              | 1.8           | 14.5        |

# Dimensions

All finishes are available on a range of colour backings;  
please [contact our sales team](#) for further information.

| Product name                                                      | Felt Colour | Materials                         | Panel Dimensions (mm)    | Slat width (mm) | SQM per panel | Weight (kg) |
|-------------------------------------------------------------------|-------------|-----------------------------------|--------------------------|-----------------|---------------|-------------|
| Fire Rated Continued                                              |             |                                   |                          |                 |               |             |
| Acupanel® Fire Rated Pine Wood Wall Panel - Black Felt            | ■ Black     | Wood Veneer / Fire-Rated          | 2480(H) x 600(W) x 21(D) | 31              | 1.44          | 11.9        |
|                                                                   |             | Plywood / Acoustic Felt Backing   | 3000(H) x 600(W) x 21(D) | 31              | 1.8           | 14.5        |
| Acupanel® Fire Rated Pine Wood Wall Panel - Grey Felt             | ■ Grey      | Wood Veneer / Fire-Rated          | 2480(H) x 600(W) x 21(D) | 31              | 1.44          | 11.9        |
|                                                                   |             | Plywood / Acoustic Felt Backing   | 3000(H) x 600(W) x 21(D) | 31              | 1.8           | 14.5        |
| Acupanel® Fire Rated Pine Wood Wall Panel - White Felt            | □ White     | Wood Veneer / Fire-Rated          | 2480(H) x 600(W) x 21(D) | 31              | 1.44          | 11.9        |
|                                                                   |             | Plywood / Acoustic Felt Backing   | 3000(H) x 600(W) x 21(D) | 31              | 1.8           | 14.5        |
| Acupanel® Fire Rated Black Oak Wall Panel - Black Felt            | ■ Black     | Wood veneer / Fire-rated plywood  | 2480(H) x 600(W) x 21(D) | 31              | 1.44          | 11.9        |
|                                                                   |             | / Black Acoustic PET Felt Backing | 3000(H) x 600(W) x 21(D) | 31              | 1.8           | 14.5        |
| Acupanel® Fire Rated Black Oak Wall Panel - Grey Felt             | ■ Grey      | Wood veneer / Fire-rated plywood  | 2480(H) x 600(W) x 21(D) | 31              | 1.44          | 11.9        |
|                                                                   |             | / Black Acoustic PET Felt Backing | 3000(H) x 600(W) x 21(D) | 31              | 1.8           | 14.5        |
| Acupanel® Fire Rated Black Oak Wall Panel - White Felt            | □ White     | Wood veneer / Fire-rated plywood  | 2480(H) x 600(W) x 21(D) | 31              | 1.44          | 11.9        |
|                                                                   |             | / Black Acoustic PET Felt Backing | 3000(H) x 600(W) x 21(D) | 31              | 1.8           | 14.5        |
| Fire Rated Luxe                                                   |             |                                   |                          |                 |               |             |
| Acupanel® Fire Rated Luxe Oak Wood Wall Panel - Black Felt        | ■ Black     | Wood Veneer / Fire-Rated          | 2480(H) x 600(W) x 21(D) | 40              | 1.48          | 11.9        |
|                                                                   |             | Plywood / Acoustic Felt Backing   | 3000(H) x 600(W) x 21(D) | 40              | 1.8           | 14.5        |
| Acupanel® Fire Rated Luxe Oak Wood Wall Panel - Grey Felt         | ■ Grey      | Wood Veneer / Fire-Rated          | 2480(H) x 600(W) x 21(D) | 40              | 1.48          | 11.9        |
|                                                                   |             | Plywood / Acoustic Felt Backing   | 3000(H) x 600(W) x 21(D) | 40              | 1.8           | 14.5        |
| Acupanel® Fire Rated Luxe Oak Wood Wall Panel - White Felt        | □ White     | Wood Veneer / Fire-Rated          | 2480(H) x 600(W) x 21(D) | 40              | 1.48          | 11.9        |
|                                                                   |             | Plywood / Acoustic Felt Backing   | 3000(H) x 600(W) x 21(D) | 40              | 1.8           | 14.5        |
| Acupanel® Fire Rated Luxe Walnut Wood Wall Panel - Black Felt     | ■ Black     | Wood Veneer / Fire-Rated          | 2480(H) x 600(W) x 21(D) | 40              | 1.48          | 11.9        |
|                                                                   |             | Plywood / Acoustic Felt Backing   | 3000(H) x 600(W) x 21(D) | 40              | 1.8           | 14.5        |
| Acupanel® Fire Rated Luxe Walnut Wood Wall Panel - Grey Felt      | ■ Grey      | Wood Veneer / Fire-Rated          | 2480(H) x 600(W) x 21(D) | 40              | 1.48          | 11.9        |
|                                                                   |             | Plywood / Acoustic Felt Backing   | 3000(H) x 600(W) x 21(D) | 40              | 1.8           | 14.5        |
| Acupanel® Fire Rated Luxe Walnut Wood Wall Panel - White Felt     | □ White     | Wood Veneer / Fire-Rated          | 2480(H) x 600(W) x 21(D) | 40              | 1.48          | 11.9        |
|                                                                   |             | Plywood / Acoustic Felt Backing   | 3000(H) x 600(W) x 21(D) | 40              | 1.8           | 14.5        |
| Acupanel® Fire Rated Luxe Smoked Oak Wood Wall Panel - Black Felt | ■ Black     | Wood Veneer / Fire-Rated          | 2480(H) x 600(W) x 21(D) | 40              | 1.48          | 11.9        |
|                                                                   |             | Plywood / Acoustic Felt Backing   | 3000(H) x 600(W) x 21(D) | 40              | 1.8           | 14.5        |
| Acupanel® Fire Rated Luxe Smoked Oak Wood Wall Panel - Grey Felt  | ■ Grey      | Wood Veneer / Fire-Rated          | 2480(H) x 600(W) x 21(D) | 40              | 1.48          | 11.9        |
|                                                                   |             | Plywood / Acoustic Felt Backing   | 3000(H) x 600(W) x 21(D) | 40              | 1.8           | 14.5        |
| Acupanel® Fire Rated Luxe Smoked Oak Wood Wall Panel - White Felt | □ White     | Wood Veneer / Fire-Rated          | 2480(H) x 600(W) x 21(D) | 40              | 1.48          | 11.9        |
|                                                                   |             | Plywood / Acoustic Felt Backing   | 3000(H) x 600(W) x 21(D) | 40              | 1.8           | 14.5        |

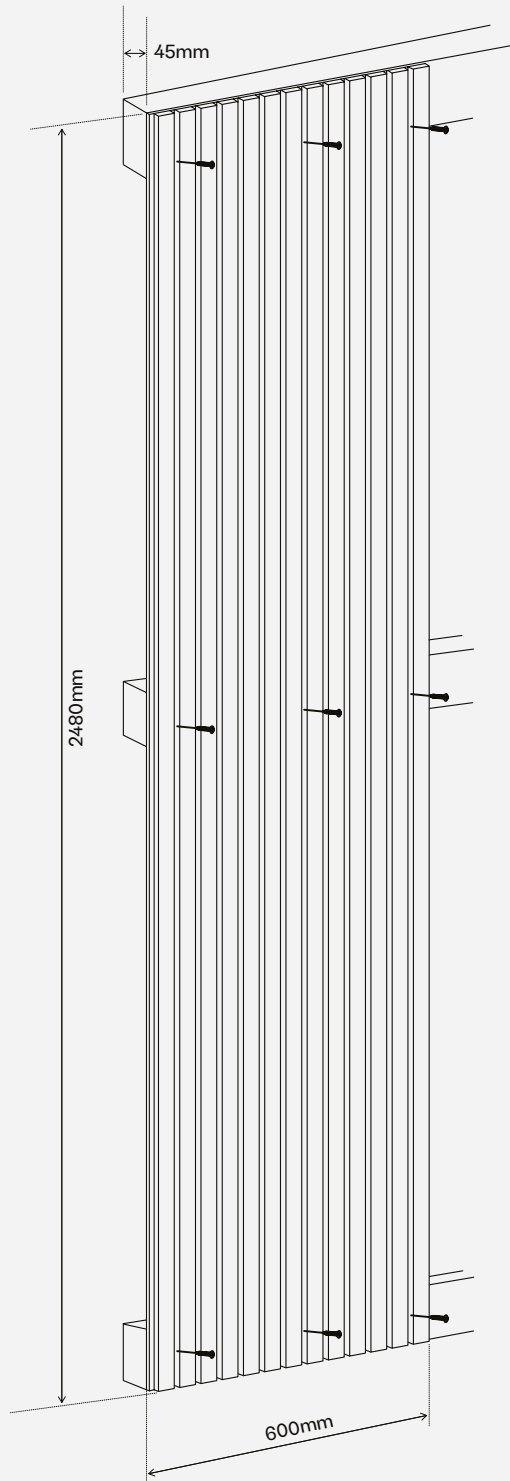
# Dimensions

All finishes are available on a range of colour backings;  
please [contact our sales team](#) for further information.

| Product name                                                     | Felt Colour | Materials                         | Panel Dimensions (mm)    | Slat width (mm) | SQM per panel | Weight (kg) |
|------------------------------------------------------------------|-------------|-----------------------------------|--------------------------|-----------------|---------------|-------------|
| <b>Fire Rated Luxe Continued</b>                                 |             |                                   |                          |                 |               |             |
| Acupanel® Fire Rated Luxe White Oak Wood Wall Panel - Black Felt | ■ Black     | Wood Veneer / Fire-Rated          | 2480(H) x 600(W) x 21(D) | 40              | 1.48          | 11.9        |
|                                                                  |             | Plywood / Acoustic Felt Backing   | 3000(H) x 600(W) x 21(D) | 40              | 1.8           | 14.5        |
| Acupanel® Fire Rated Luxe White Oak Wood Wall Panel - Grey Felt  | ■ Grey      | Wood Veneer / Fire-Rated          | 2480(H) x 600(W) x 21(D) | 40              | 1.48          | 11.9        |
|                                                                  |             | Plywood / Acoustic Felt Backing   | 3000(H) x 600(W) x 21(D) | 40              | 1.8           | 14.5        |
| Acupanel® Fire Rated Luxe White Oak Wood Wall Panel - White Felt | □ White     | Wood Veneer / Fire-Rated          | 2480(H) x 600(W) x 21(D) | 40              | 1.48          | 11.9        |
|                                                                  |             | Plywood / Acoustic Felt Backing   | 3000(H) x 600(W) x 21(D) | 40              | 1.8           | 14.5        |
| Acupanel® Fire Rated Luxe Grey Oak Wood Wall Panel - Black Felt  | ■ Black     | Wood Veneer / Fire-Rated          | 2480(H) x 600(W) x 21(D) | 40              | 1.48          | 11.9        |
|                                                                  |             | Plywood / Acoustic Felt Backing   | 3000(H) x 600(W) x 21(D) | 40              | 1.8           | 14.5        |
| Acupanel® Fire Rated Luxe Grey Oak Wood Wall Panel - Grey Felt   | ■ Grey      | Wood Veneer / Fire-Rated          | 2480(H) x 600(W) x 21(D) | 40              | 1.48          | 11.9        |
|                                                                  |             | Plywood / Acoustic Felt Backing   | 3000(H) x 600(W) x 21(D) | 40              | 1.8           | 14.5        |
| Acupanel® Fire Rated Luxe Grey Oak Wood Wall Panel - White Felt  | □ White     | Wood Veneer / Fire-Rated          | 2480(H) x 600(W) x 21(D) | 40              | 1.48          | 11.9        |
|                                                                  |             | Plywood / Acoustic Felt Backing   | 3000(H) x 600(W) x 21(D) | 40              | 1.8           | 14.5        |
| Acupanel® Fire Rated Luxe Pine Wood Wall Panel - Black Felt      | ■ Black     | Wood Veneer / Fire-Rated          | 2480(H) x 600(W) x 21(D) | 40              | 1.48          | 11.9        |
|                                                                  |             | Plywood / Acoustic Felt Backing   | 3000(H) x 600(W) x 21(D) | 40              | 1.8           | 14.5        |
| Acupanel® Fire Rated Luxe Pine Wood Wall Panel - Grey Felt       | ■ Grey      | Wood Veneer / Fire-Rated          | 2480(H) x 600(W) x 21(D) | 40              | 1.48          | 11.9        |
|                                                                  |             | Plywood / Acoustic Felt Backing   | 3000(H) x 600(W) x 21(D) | 40              | 1.8           | 14.5        |
| Acupanel® Fire Rated Luxe Pine Wood Wall Panel - White Felt      | □ White     | Wood Veneer / Fire-Rated          | 2480(H) x 600(W) x 21(D) | 40              | 1.48          | 11.9        |
|                                                                  |             | Plywood / Acoustic Felt Backing   | 3000(H) x 600(W) x 21(D) | 40              | 1.8           | 14.5        |
| Acupanel® Fire Rated Luxe Black Oak Wall Panel - Black Felt      | ■ Black     | Wood veneer / Fire-rated plywood  | 2480(H) x 600(W) x 21(D) | 40              | 1.48          | 11.9        |
|                                                                  |             | / Black Acoustic PET Felt Backing | 3000(H) x 600(W) x 21(D) | 40              | 1.8           | 14.5        |
| Acupanel® Fire Rated Luxe Black Oak Wall Panel - Grey Felt       | ■ Grey      | Wood veneer / Fire-rated plywood  | 2480(H) x 600(W) x 21(D) | 40              | 1.48          | 11.9        |
|                                                                  |             | / Black Acoustic PET Felt Backing | 3000(H) x 600(W) x 21(D) | 40              | 1.8           | 14.5        |
| Acupanel® Fire Rated Luxe Black Oak Wall Panel - White Felt      | □ White     | Wood veneer / Fire-rated plywood  | 2480(H) x 600(W) x 21(D) | 40              | 1.48          | 11.9        |
|                                                                  |             | / Black Acoustic PET Felt Backing | 3000(H) x 600(W) x 21(D) | 40              | 1.8           | 14.5        |

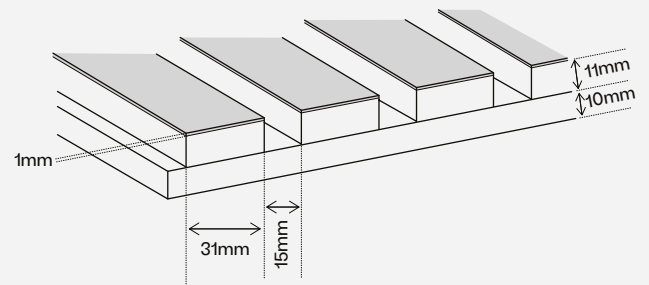
# Technical drawings: Fire Rated

## Batten mounted



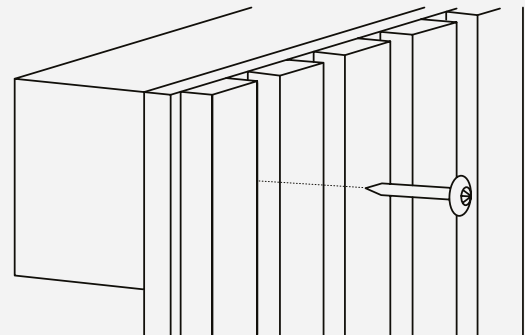
Not to scale

## Slat Dimensions



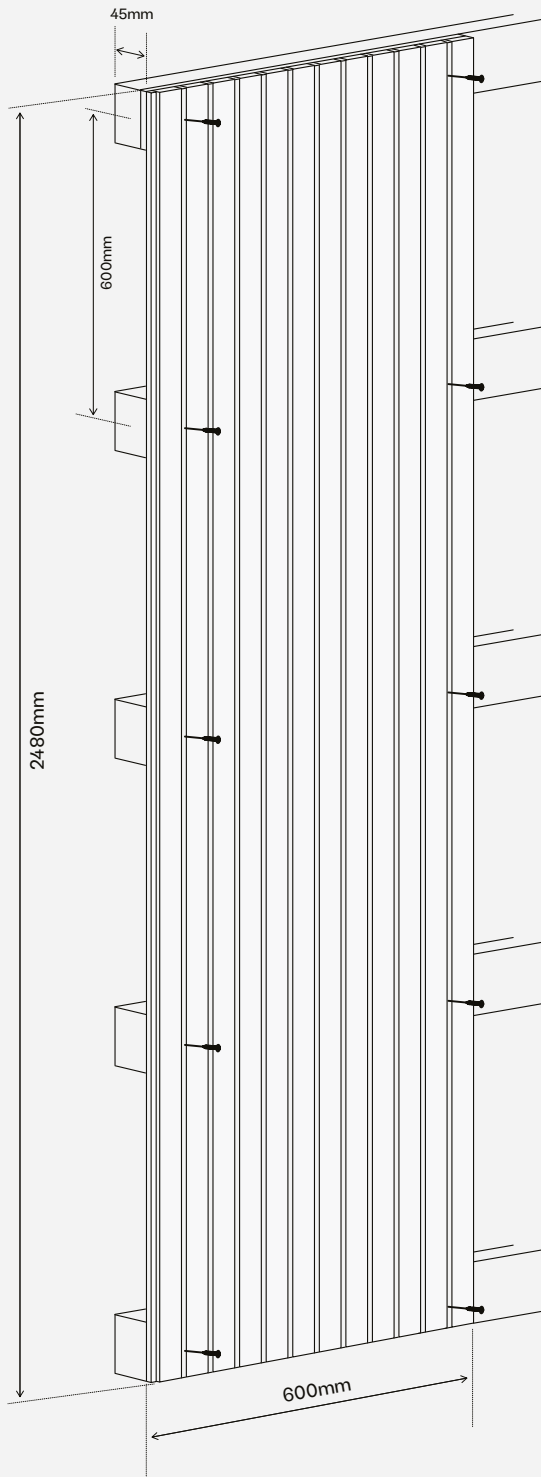
Not to scale

## Screw placement



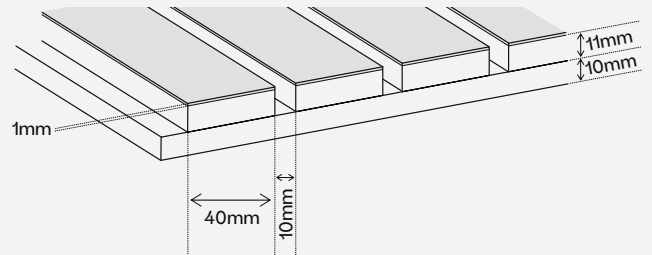
# Technical drawings: Fire Rated Luxe

## Batten mounted

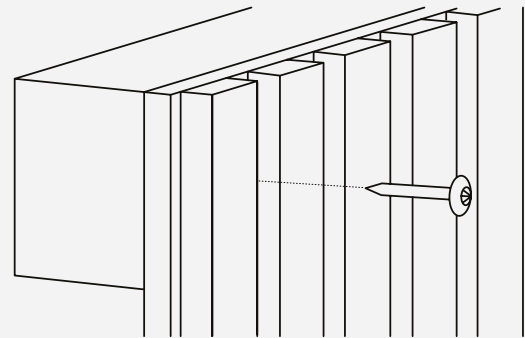


Not to scale

## Slat Dimensions



## Screw placement



# Fire rating

A completely fire-rated panel for your projects. Acupanel®'s fire rated panel achieves a b - s1, d0 standard, as tested against the European EN13501-1:2018 standard.

## Overview

|      |                            |
|------|----------------------------|
| A2/B | Classification class       |
| s1   | Smoke production           |
| d0   | Flaming droplets/particles |

Figure 1: HRR and HRR(30) Graph

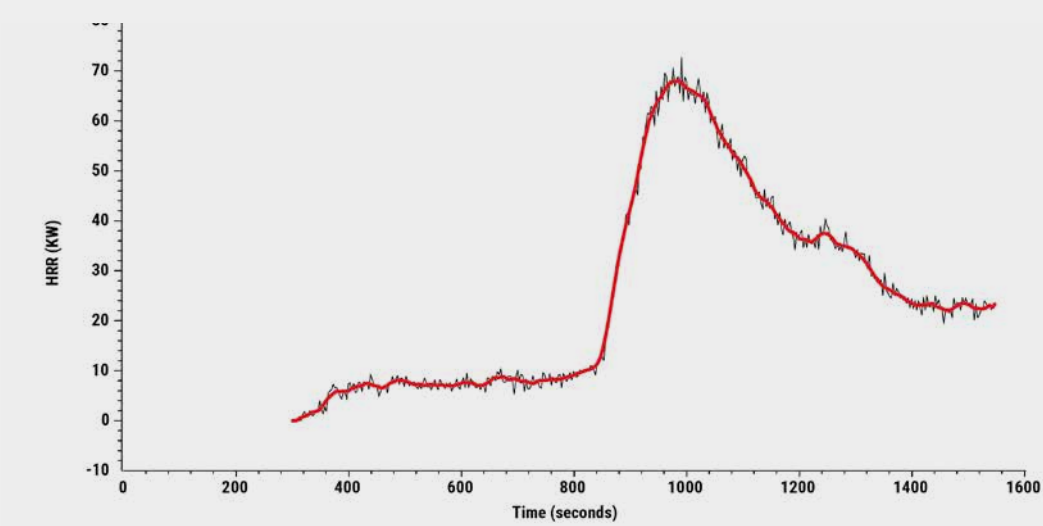
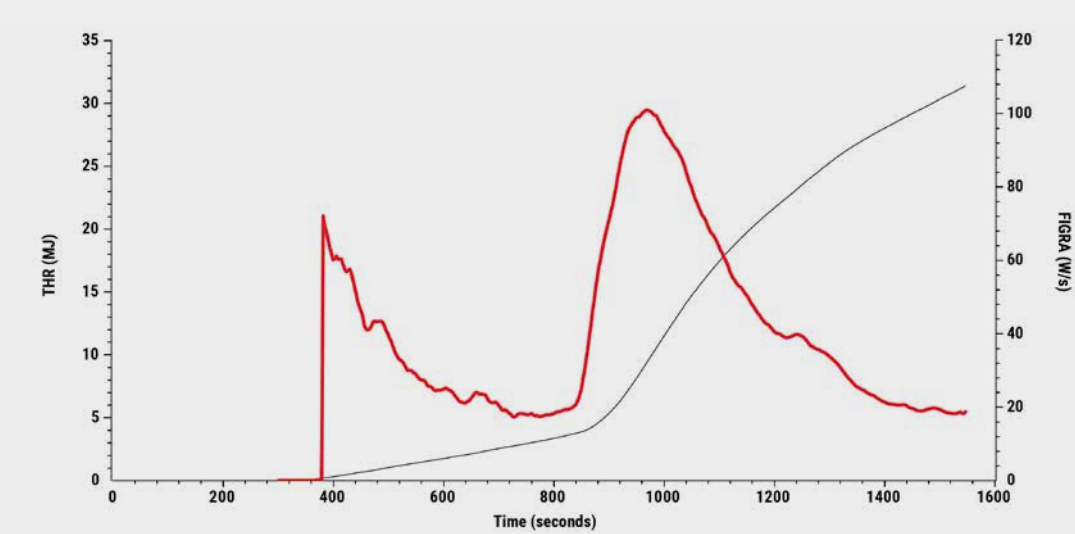


Figure 2: THR and FIGRA Graph



# Sound absorption

Figure 1: (Batten Mounted) Sound Absorption:

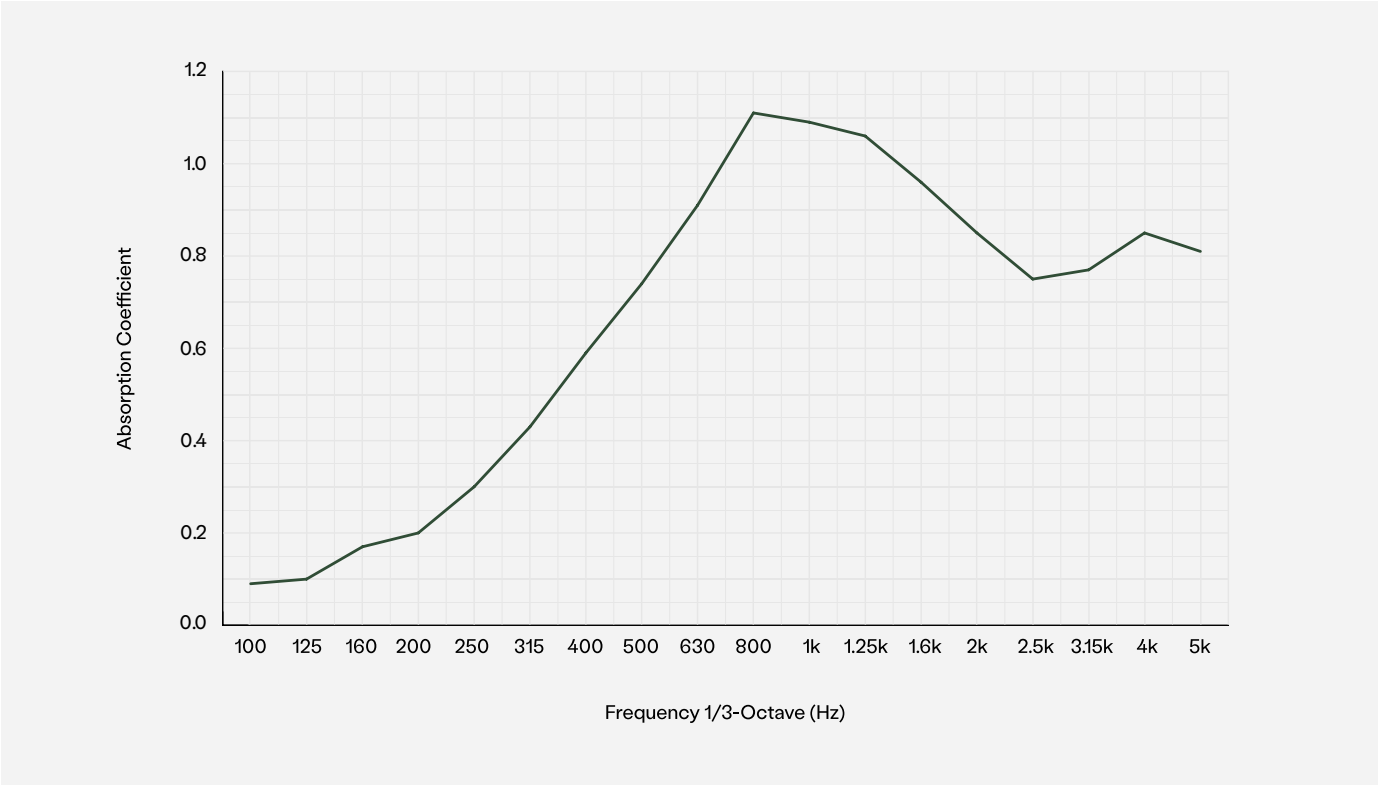
Measurement of sound absorption coefficient acc. DS/EN ISO 354:2003.

Mounting with battens: Spacing 45mm behind panels. Closed frame around edges.

Test Area: 15.84m² Sab - Room volume 215m³ - Room surface area 238m².

If a product like Rockwool sound insulation is installed in-between the batten, behind the panels this will achieve Class A sound absorption.

| Freq. Hz       | 100  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1k   | 1.25k | 1.6k | 2k   | 2.5k | 3.15k | 4k   | 5k   |
|----------------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|
| a <sup>s</sup> | 0.09 | 0.10 | 0.17 | 0.20 | 0.30 | 0.43 | 0.59 | 0.74 | 0.91 | 1.11 | 1.09 | 1.06  | 0.96 | 0.85 | 0.75 | 0.77  | 0.85 | 0.81 |



# Installation instructions

## How to cut the Acupanel® Fire Rated Acoustic Wood Wall Panels

For the Acupanel® Fire Rated Acoustic Wood Wall Panels, if you are cutting width ways, we recommend a sharp, fine-tooth saw to cut through the slats and felt cleanly. To cut length ways, a Stanley knife can be used to cut through the felt.

## Tools needed



Measuring tape



Fine tooth or sharp saw



Masking tape



Sandpaper



Colour screws



Battens (Optional)



Level



Hand drill

## How to install the Acupanel® Fire Rated Acoustic Wood Wall Panels

### Disclaimer:

**The fire rated panels only achieve the full b - s1, d0 fire rating and class A acoustic rating when installed on a gypsum plasterboard substrate rated A2- s1, d0, with 45mm battens and insulation material. There is to be no air gap. You can also mount the panels on substrates reaction to fire class A2 - s1, d0 or A1, where the minimum density of the substrate is 525kg/meters cubed.**

**If you are only installing the panels for the fire-rating benefits, there is no need for the 45mm battens or acoustic insulation - you can install straight onto your suitable substrate, as outlined above, with no air gap.**

**Valid for vertical and horizontal slat installations.**

### Screwing directly into the wall:

By using black screws for the black backing option or silver or grey screws for the grey-backed option, the panels can be screwed directly into the wall through the acoustic felt.

We recommend a minimum of 9 screws per panel to ensure the panel is secured safely to the wall.

If installing into ceilings then make sure they are screwed into ceiling joists.

Please ensure you are using the relevant fixtures and fittings for the surface you are installing onto

### Screwing the panels into 45mm timber battens:

We recommend screwing 45mm timber battens to the wall and then screwing the panels directly into the battens through the acoustic felt to achieve optimum sound absorption. Combined with Rockwool sound insulation behind the panels in between the battens, this will achieve Class A sound absorption.

This is also a fantastic way to hide wires and work around pipework.

For panel dimensions and technical drawings, please see [pages 4-5](#).

# Test reports

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|                                                       |         |
|-------------------------------------------------------|---------|
| Test report for Acupanel® Fire Rated Wood Wall Panels | Page 10 |
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|                                                            |         |
|------------------------------------------------------------|---------|
| Test report for Acupanel® Fire Rated Luxe Wood Wall Panels | Page 14 |
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# Test report for Acupanel® Fire Rated Wood Wall Panels



FOREST AND WOOD PRODUCTS  
RESEARCH AND DEVELOPMENT INSTITUTE

Page 1 of 4

„MEŽA UN KOKSNES PRODUKTU PĒTNIECĪBAS UN ATTĪSTĪBAS INSTITŪTS” SIA  
VAT No. LV 43603022749  
Dobeles iela 41, Jelgava, LV-3001, Latvia  
Phone +371 63010605 \* E-mail meka@e-koks.lv \* Web www.e-koks.lv



## Classification of reaction to fire in accordance with EN 13501-1:2018

Issue number: K116/2023

Date of issue: 18.12.2023.

**Sponsor:** Fog & Venø A/S.

Address: Buntmagervej 5, 7490 Aulum, Denmark.  
Reg. No. 7670.

**Manufacturer and owner of classification report:** Fog & Venø A/S.

**Prepared by:** SIA “Meža un koksnes produktu pētniecības un attīstības institūts” (*Forest and Wood Products Research and Development Institute Ltd*).

Test performed at: SIA “Meža un koksnes produktu pētniecības un attīstības institūts” (*Forest and Wood Products Research and Development Institute Ltd*), “Pienavas katlu māja”, Pienava, Džūkstes pagasts, Tukuma novads, LV-3147, Latvia (“*Pienava heat plant*”, Pienava, Džūkste parish, Tukums region, LV-3147, Latvia).

**Product name:** Fire retardant felt panel with plywood slats.

Laboratory involved in testing is accredited by the Latvian National Accreditation Bureau (LATJAK) according to the standard LVS EN ISO/IEC 17025 under the terms of Latvian legislation with reg. No. T-316. Laboratory is a notified body with reg. No. NB 2040 under construction product regulation No. 305/2011.

*Classification report refers only to these test objects. This classification report may not be reproduced otherwise than in full text, excepted with the prior written approval of the Forest and Wood Products Research and Development Institute*

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## 1. Introduction

This classification report defines the reaction to fire classification assigned to Fire retardant felt panel with plywood slats in accordance with the procedures given in EN 13501-1:2018.

## 2. Details of classified product

### 2.1. General

Fire retardant felt panel with plywood slats is defined as acoustic and decorative panelling in buildings. Product is not described by harmonised specification standard.

### 2.2. Product description

- Product name: Fire retardant felt panel with plywood slats.
- Manufacturer: Fog & Venø A/S.
- Materials used for manufacturing:
  - white felt with VA-fire stop, thickness – 9 mm;
  - fire retardant plywood slats with veneer on top, dimension 12 x 31 mm with 15 mm gap between.
- Nominal thickness: 21 mm.

## 3. Test reports and test results in support of classification

### 3.1. Specific conditions

Not applicable

### 3.2. Test reports

| Name of laboratory                                                                    | Name of sponsor | Test reports | Test method           |
|---------------------------------------------------------------------------------------|-----------------|--------------|-----------------------|
| SIA „Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory | Fog & Venø A/S  | 8784-1/2023  | EN 13823:2020+A1:2022 |
| SIA „Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory | Fog & Venø A/S  | 8784-2/2023  | EN ISO 11925-2:2020   |

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## 3.3. Test results

| Test method                                                           | Parameter                                      | Number of tests | Results                   |                        |
|-----------------------------------------------------------------------|------------------------------------------------|-----------------|---------------------------|------------------------|
|                                                                       |                                                |                 | Continuous parameter mean | Compliance parameters  |
| EN 13823:2020+A1:2022                                                 | FIGRA <sub>0,2MJ</sub> (W/s)                   | 4               | 106.0                     | (-)                    |
|                                                                       | FIGRA <sub>0,4MJ</sub> (W/s)                   |                 | 83.5                      | (-)                    |
|                                                                       | THR <sub>600s</sub> (MJ)                       |                 | 4.3                       | (-)                    |
|                                                                       | LFS                                            |                 | no                        | Compliant              |
|                                                                       | SMOGRA(m <sup>2</sup> /s <sup>2</sup> )        |                 | 6.6                       | (-)                    |
|                                                                       | TSP <sub>600s</sub> (m <sup>2</sup> )          |                 | 35.8                      | (-)                    |
|                                                                       | Flaming droplets <10s<br>Flaming droplets >10s |                 | (-)<br>(-)                | Compliant<br>Compliant |
| EN ISO 11925-2:2020<br><br>Exposure time 30 s.<br>Test duration 60 s. | Flame spread (Fs)                              | 12              | (-)                       | Compliant              |
|                                                                       | Ignition of filter paper                       |                 | (-)                       | Compliant              |
|                                                                       | Flaming droplets/particles                     |                 | (-)                       | Compliant              |
| (-) not applicable                                                    |                                                |                 |                           |                        |

## 4. Classification and field of application

## 4.1. Reference of classification

This classification has been carried out in accordance with clause 11 of EN 13501-1:2018.

## 4.2. Classification

Fire retardant felt panel with plywood slats in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets/particles is:

d0

The format of the reaction to fire classification for construction product excluding floorings and linings is:

| Fire behaviour |   | Smoke production |   |   | Flaming droplets |   |
|----------------|---|------------------|---|---|------------------|---|
| B              | - | s                | 1 | , | d                | 0 |

Reaction to fire classification: B-s1, d0

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#### 4.3. Field of application

##### 4.3.1 This classification is valid for the following product end use applications:

Product is intended to use as acoustic and decorative panelling in buildings.

##### 4.3.2. This classification is also valid for following product parameters:

- valid for product thickness as tested;
- valid for product composition and geometry as tested;
- valid for product mounting without air gap between product and substrate;
- product performance determined on gypsum plasterboard substrate A2-s1,d0 reaction to fire class and classification is valid for product mounting on substrates reaction to fire class A2-s1,d0 or A1 product with a minimum density of 525 kg/m<sup>3</sup>;
- Valid for vertical and horizontal plywood slats orientation.

#### 5. Limitations.

5.1. No restrictions on the duration of validity of this classification report as long as the product specifications remain unchanged.

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

Prepared by

E. Bukšāns

(signature and name)

Reviewed by

K. Būmanis

(signature and name)

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# Test report for Acupanel® Fire Rated Luxe Wood Wall Panels



FOREST AND WOOD PRODUCTS  
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„MEŽA UN KOKSNES PRODUKTU PĒTNIECĪBAS UN ATTĪSTĪBAS INSTITŪTS” SIA  
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## Classification of reaction to fire in accordance with EN 13501-1:2018

Issue number: K117/2023

Date of issue: 18.12.2023.

**Sponsor:** Fog & Venø A/S.

Address: Buntmagervej 5, 7490 Aulum, Denmark.  
Reg. No. 7670.

**Manufacturer and owner of classification report:** Fog & Venø A/S.

**Prepared by:** SIA “Meža un koksnes produktu pētniecības un attīstības institūts” (*Forest and Wood Products Research and Development Institute Ltd*).

Test performed at: SIA “Meža un koksnes produktu pētniecības un attīstības institūts” (*Forest and Wood Products Research and Development Institute Ltd*), “Pienavas katlu māja”, Pienava, Džūkstes pagasts, Tukuma novads, LV-3147, Latvia (“*Pienava heat plant*”, Pienava, Džūkste parish, Tukums region, LV-3147, Latvia).

**Product name:** Grey ND-felt panel with plywood slats with veneer on top.

Laboratory involved in testing is accredited by the Latvian National Accreditation Bureau (LATJAK) according to the standard LVS EN ISO/IEC 17025 under the terms of Latvian legislation with reg. No. T-316. Laboratory is a notified body with reg. No. NB 2040 under construction product regulation No. 305/2011.

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## 1. Introduction

This classification report defines the reaction to fire classification assigned to Grey ND-felt panel with plywood slats with veneer on top in accordance with the procedures given in EN 13501-1:2018.

## 2. Details of classified product

### 2.1. General

Grey ND-felt panel with plywood slats with veneer on top is defined as acoustic and decorative panelling in buildings. Product is not described by harmonised specification standard.

### 2.2. Product description

- Product name: Grey ND-felt panel with plywood slats with veneer on top.
- Manufacturer: Fog & Venø A/S.
- Materials used for manufacturing:
  - Grey ND - felt with VA-fire stop, thickness – 9 mm;
  - fire retardant plywood slats with veneer on top, dimension 12 x 40 mm with distance 10 mm between.
- Nominal thickness: 21 mm.

## 3. Test reports and test results in support of classification

### 3.1. Specific conditions

Not applicable

### 3.2. Test reports

| Name of laboratory                                                                    | Name of sponsor | Test reports | Test method           |
|---------------------------------------------------------------------------------------|-----------------|--------------|-----------------------|
| SIA „Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory | Fog & Venø A/S  | 8784-3/2023  | EN 13823:2020+A1:2022 |
| SIA „Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory | Fog & Venø A/S  | 8784-4/2023  | EN ISO 11925-2:2020   |

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## 3.3. Test results

| Test method                                                           | Parameter                                      | Number of tests | Results                   |                        |
|-----------------------------------------------------------------------|------------------------------------------------|-----------------|---------------------------|------------------------|
|                                                                       |                                                |                 | Continuous parameter mean | Compliance parameters  |
| EN 13823:2020+A1:2022                                                 | FIGRA <sub>0,2MJ</sub> (W/s)                   | 4               | 92.6                      | (-)                    |
|                                                                       | FIGRA <sub>0,4MJ</sub> (W/s)                   |                 | 75.8                      | (-)                    |
|                                                                       | THR <sub>600s</sub> (MJ)                       |                 | 4.3                       | (-)                    |
|                                                                       | LFS                                            |                 | no                        | Compliant              |
|                                                                       | SMOGRA(m <sup>2</sup> /s <sup>2</sup> )        |                 | 4.0                       | (-)                    |
|                                                                       | TSP <sub>600s</sub> (m <sup>2</sup> )          |                 | 36.4                      | (-)                    |
|                                                                       | Flaming droplets <10s<br>Flaming droplets >10s |                 | (-)<br>(-)                | Compliant<br>Compliant |
| EN ISO 11925-2:2020<br><br>Exposure time 30 s.<br>Test duration 60 s. | Flame spread (Fs)                              | 12              | (-)                       | Compliant              |
|                                                                       | Ignition of filter paper                       |                 | (-)                       | Compliant              |
|                                                                       | Flaming droplets/particles                     |                 | (-)                       | Compliant              |
| (-) not applicable                                                    |                                                |                 |                           |                        |

## 4. Classification and field of application

## 4.1. Reference of classification

This classification has been carried out in accordance with clause 11 of EN 13501-1:2018.

## 4.2. Classification

Grey ND-felt panel with plywood slats with veneer on top in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets/particles is:

d0

The format of the reaction to fire classification for construction product excluding floorings and linings is:

| Fire behaviour |   | Smoke production |   |   | Flaming droplets |   |
|----------------|---|------------------|---|---|------------------|---|
| B              | - | s                | 1 | , | d                | 0 |

Reaction to fire classification: B-s1, d0

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#### 4.3. Field of application

4.3.1 This classification is valid for the following product end use applications:

Product is intended to use as acoustic and decorative panelling in buildings.

4.3.2. This classification is also valid for following product parameters:

- valid for product thickness as tested;
- valid for product composition and geometry as tested;
- valid for product mounting without air gap between product and substrate;
- product performance determined on gypsum plasterboard substrate A2-s1,d0 reaction to fire class and classification is valid for product mounting on substrates reaction to fire class A2-s1,d0 or A1 product with a minimum density of 525 kg/m<sup>3</sup>;
- Valid for vertical and horizontal plywood slats orientation.

#### 5. Limitations.

5.1. No restrictions on the duration of validity of this classification report as long as the product specifications remain unchanged.

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

Prepared by

E. Bukšāns

(signature and name)

Reviewed by

K. Būmanis

(signature and name)

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