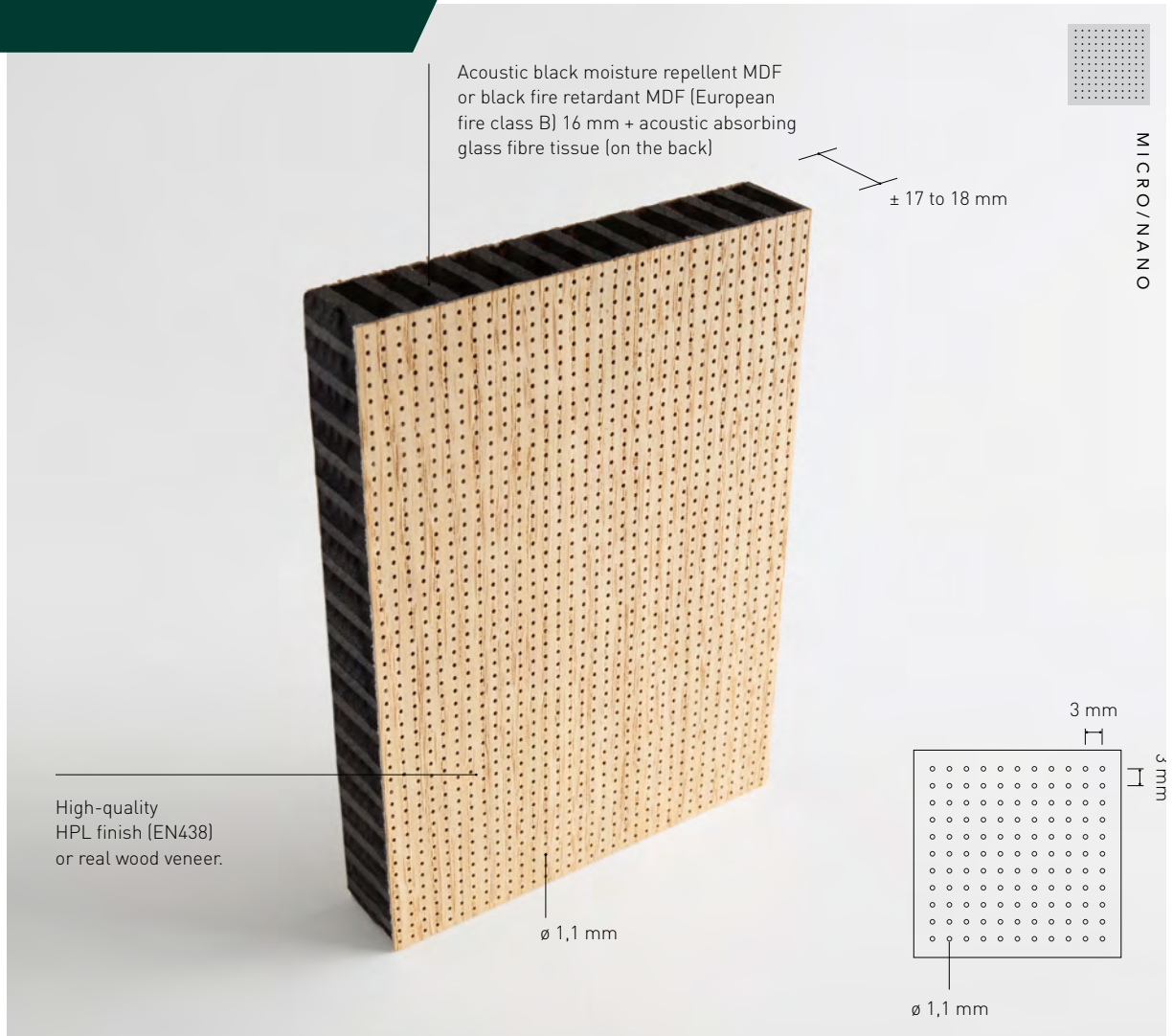


# tripla coustics

YOUR SILENT PARTNER

TECHNICAL DATA SHEET

## type ML wall-ceiling



**MATERIAL COMPOSITION**

- Top layer** High-quality HPL finish (EN438) or real wood veneer
- Core** Acoustic black moisture repellent MDF 16 mm
- Backing** Backing HPL finish (EN438) or backing veneer + acoustic absorbing glass fibre tissue (on the back)

**WEIGHT** 10 kg/m<sup>2</sup>

**PERFORATION**

Type ML with top layer perforations of 10.6%, core perforations of 44.2%: provided with perforated top layer and backing with micro perforations with a diameter of 1.1 mm across the entire surface area (linear, 3/3/1.1 mm) in combination with 2 x perforated core (provided with a full MDF of 55 mm and a perforated zone in the core [linear, 8/8/6 mm]) and acoustic absorbing glass fibre tissue (back)

**STANDARD MEASUREMENTS FULL PANEL**

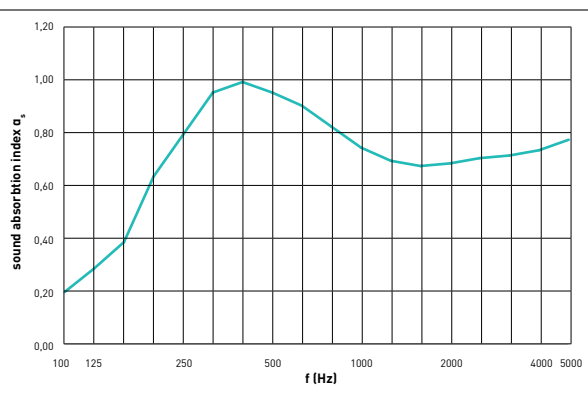
- (square-sawn)
- 3000x1270x±18 mm (HPL)
- 3000x1200x±17 mm (veneer)
- (composition of full board, see page 4-5)

**OPTIONS**

- Made-to-measure on request
- Cladding panel on request (see page 5)
- Curved wall application radius > 0,30m:  
Ms Flex soft PET core:  
final thickness 14mm

TEST SET-UP IN LABORATORY:  
**TOTAL THICKNESS WALLS**  
**88 mm**

f(Hz)	T1 (s)	T2 (s)	α <sub>s</sub>
100	11,82	7,22	0,20
125	<b>11,43</b>	<b>6,03</b>	<b>0,29</b>
160	9,06	4,66	0,39
200	9,30	3,56	0,64
250	<b>9,25</b>	<b>3,09</b>	<b>0,80</b>
315	9,35	2,73	0,96
400	8,89	2,61	1,00
500	<b>9,18</b>	<b>2,72</b>	<b>0,96</b>
630	10,00	2,89	0,91
800	9,89	3,08	0,83
1000	<b>9,62</b>	<b>3,25</b>	<b>0,75</b>
1250	8,88	3,32	0,70
1600	7,80	3,21	0,68
2000	<b>6,83</b>	<b>3,01</b>	<b>0,69</b>
2500	5,65	2,72	0,71
3150	4,51	2,40	0,72
4000	<b>3,60</b>	<b>2,09</b>	<b>0,74</b>
5000	2,76	1,75	0,78

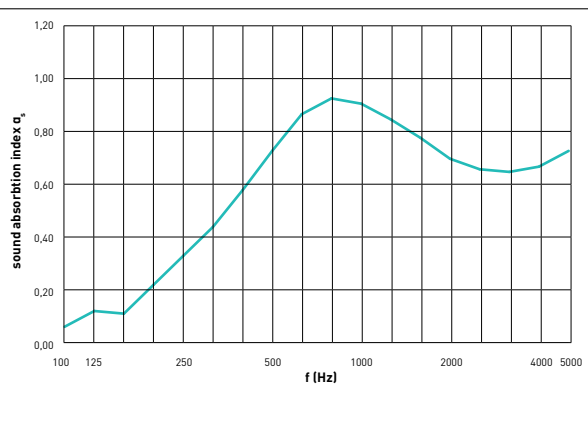


f(Hz)	α <sub>p</sub>
125	0,30
250	0,80
500	0,95
1000	0,75
2000	0,70
4000	0,75

Total thickness	% perfo top layer	% perfo core	α <sub>w</sub>	f(Hz)	Sound class	NRC	SAA
<b>88mm</b>	10,6%	44,2%	<b>0,75</b>	L	C	0,80	0,80
<b>Installation</b> Mounted on a wooden frame with a thickness of 70mm, filled with 50mm of mineral wool with a density of 40kg/m <sup>3</sup> .							
Values according to reverberation room test EN ISO 354:2003 - EN ISO 11654:1997							

TEST SET-UP IN LABORATORY:  
**TOTAL THICKNESS WALLS**  
**38 mm**

f(Hz)	T1 (s)	T2 (s)	α <sub>s</sub>
100	11,80	9,81	0,06
125	<b>11,34</b>	<b>8,30</b>	<b>0,12</b>
160	9,04	7,09	0,11
200	9,39	6,02	0,22
250	<b>9,01</b>	<b>5,03</b>	<b>0,33</b>
315	9,28	4,44	0,44
400	8,84	3,70	0,58
500	<b>9,31</b>	<b>3,30</b>	<b>0,73</b>
630	10,03	3,01	0,87
800	10,17	2,86	0,93
1000	<b>9,83</b>	<b>2,88</b>	<b>0,91</b>
1250	9,14	2,95	0,85
1600	7,98	2,99	0,78
2000	<b>6,93</b>	<b>3,02</b>	<b>0,70</b>
2500	5,74	2,86	0,66
3150	4,53	2,58	0,65
4000	<b>3,62</b>	<b>2,24</b>	<b>0,67</b>
5000	2,76	1,84	0,73



f(Hz)	α <sub>p</sub>
125	0,10
250	0,35
500	0,80
1000	0,95
2000	0,70
4000	0,70

Total thickness	% perfo top layer	% perfo core	α <sub>w</sub>	f(Hz)	Sound class	NRC	SAA
<b>38mm</b>	10,6%	44,2%	<b>0,65</b>	M	C	0,70	0,67
<b>Installation</b> Mounted on a wooden frame with a thickness of 20 mm, filled with 20 mm PRIMAWOOL of 22,5 kg/m <sup>3</sup> .							
Values according to reverberation room test EN ISO 354:2003 - EN ISO 11654:1997							

# installation drilled - micro-nano / full panel

Fastening on single or double-spaced wooden battens (max 600 mm spacing) can be with underlying mounting laths (slant lath). These are screwed and/or glued to the back of the panels and the counter batten is fitted to the rear wall or on the framework.

Types Ms, Ns, Ls and Ls m can also be fixed by gluing at the back or by using a black screw at the front. Glueing can be done with an MS polymer adhesive sealant. First a primer is applied and then MS polymer.

The front side can also be mounted with black screws in case e.g. ceiling fixing / assured fixing is required. In the openings of the framework, a sound-absorbing sound-absorbing material (e.g. rock wool or Primawool) should be placed .

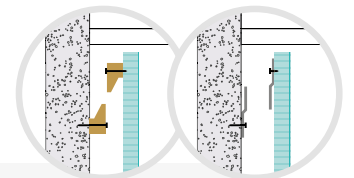
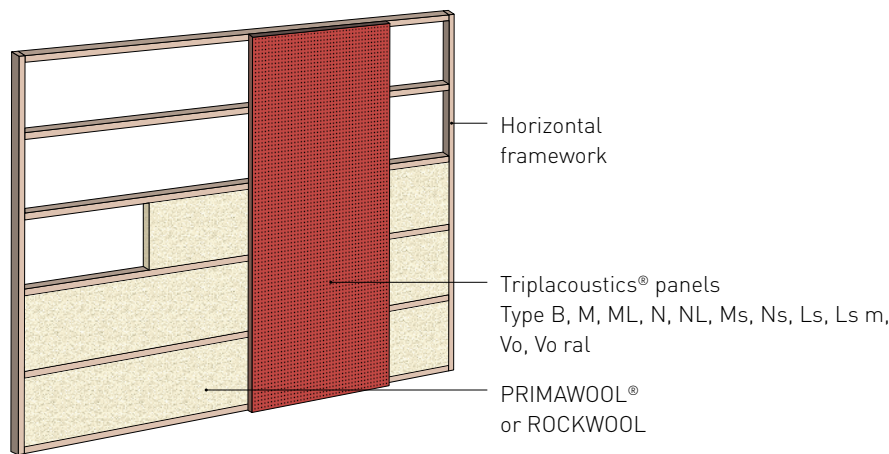
The 4 sides of the board must always be supported by the battens.

For impact-sensitive areas, we recommend longitudinal connections of 2 panels to an underlying common batten with 2 to 3 mm spacing.

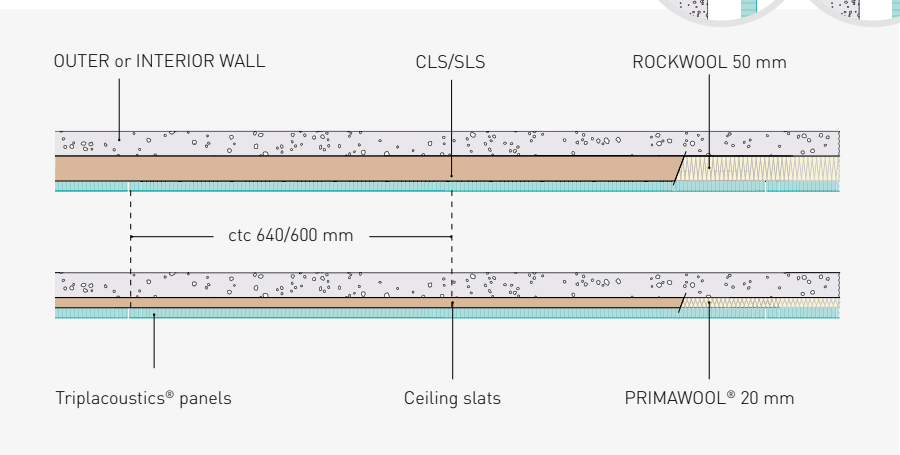
End connections of 2 panels are mounted on a common underlying common battens with an intermediate joint of 2 to 3 mm. A space should be provided at the top between the panel and the ceiling to allow you to hook the panel into the slant lath.

We recommend working with a clearance of at least 1 mm per running metre to allow for possible expansion; and this over the total height and/or width of the wall.

On request, you can receive specific installation instructions and certificates for: walls where increased impact is likely (sports halls venues, ...) in accordance with standard ETAG 003 & EN 13964 and for ceiling mounting.



TEST SET-UP  
IN LABORATORY:  
**TOTAL THICKNESS  
WALLS**  
88/90 mm  
  
**TOTAL THICKNESS  
WALLS**  
38/40 mm

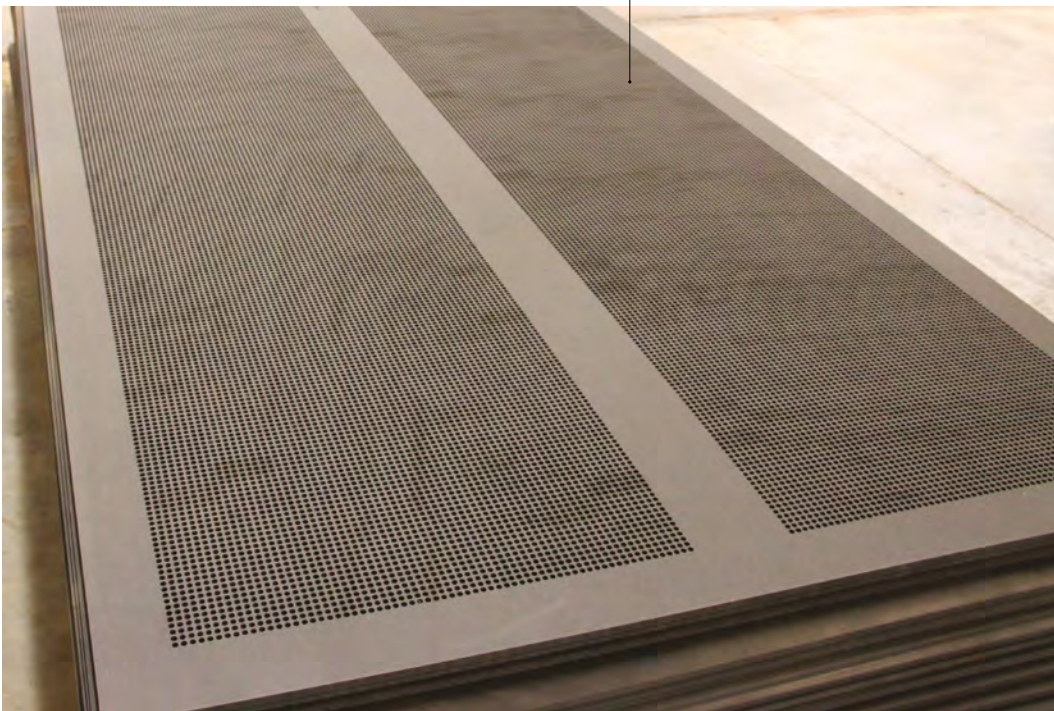


## composition micro/nano

### Core

- > 3000 x 1270 or 3000 x 1200 mm
- > In black moisture repellent or fire retardant MDF with a non-perforated area around and at the centre of the panel (full edge not visible on visible side)

Two perforated areas  
in the core (linear 8/8/6 mm)



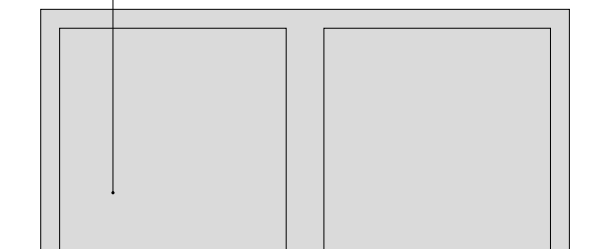
Perforated top layer with micro or nano perforations. Micro perforations standardly up to the edge of the panel. The perforations can differ slightly near the edge.

# composition micro/nano

## Full panel core dimensions

> 3000 x 1270 or 3000 x 1200 mm

Perforated area in the core  
(linear 8/8/6 mm)



**HPL** width 1270

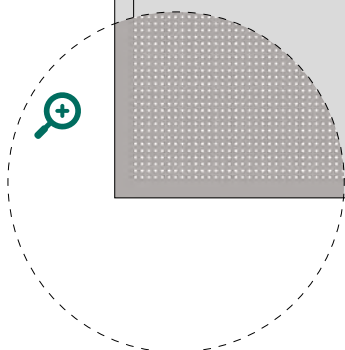
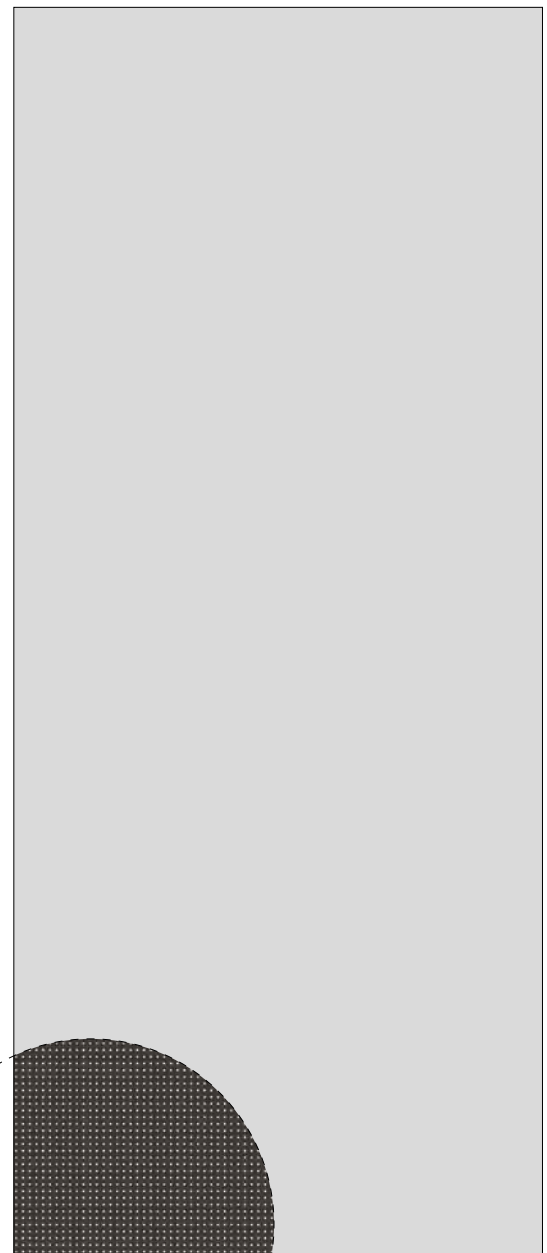
57 mm    526 mm    104 mm    526 mm    57 mm

**VENEER** width 1200

54 mm    494 mm    104 mm    494 mm    54 mm

## Visible side of top layer of full panel

Perforated top layer with micro perforations (linear, 3/3/1.1 mm) or nano perforations (diagonally, 1.97/1.97/0.5 mm). Perforations standardly up to the edge of the panel.



Non-perforated area  
around and in the  
centre of the panel.

## finishes

### HPL

The HPL high pressure laminates consist of layers of cellulose fibrous material combined with a decorative top layer impregnated with thermosetting resins and bonded together using a high pressure (9 Mpa = 90 kg/cm<sup>2</sup>), high temperature (150 ° C) process. All top layers are manufactured according to the European norm EN 438 I/II. The HPL top layer has a thickness of 0.9 mm and is therefore one of the highest-quality top layers on the market.

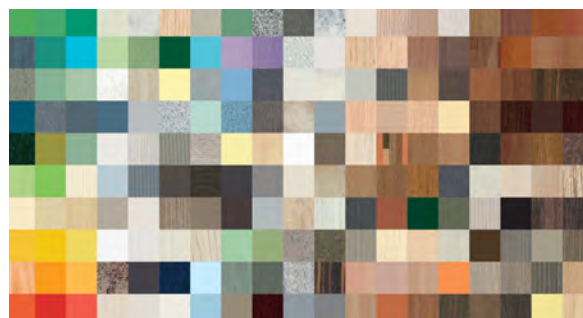
The complete technical details of HPL and the available colours and textures (more than 500 uni-colours and wood imitations) are available on request (by telephone or via e-mail).

You can also find information on [www.triplacoustics.be](http://www.triplacoustics.be).

STOCK HPL 2 BRANDS :

**ABET LAMINATI**

**PFLEIDERER**



### digital print

We can print your image on our acoustic panels by means of digital printing on a HPL laminate sublayer. This is carried out with a four-colour printing process.

To have a good representation of your image, the digital file provided must have a minimum size of 150 dpi in CMYK on scale 1/1.

**Only vertical application due to limited scratch resistance.**

### veneer

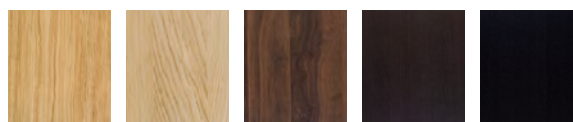
**DECOSPAN**

Our acoustic panels are also available with a top layer in real wood veneer (choices are plain cut oak, quarter cut oak, beech, birch, walnut, ash, etc.). The panels can be delivered untreated so that the interior designer can stain or varnish them, or we can deliver them finished. Finishing options include: UV varnish, matt varnish, stain, colour oil...



### Shinnoki®

Shinnoki offers a wide choice of sturdy and high quality veneer products for architects and furniture makers to design and create stylish and distinctive interiors . Unlike standard veneered panels, Shinnoki products are ready-made for use and as easy to process as a melamine panel but with the same unique look and feel typical of real wood veneer.

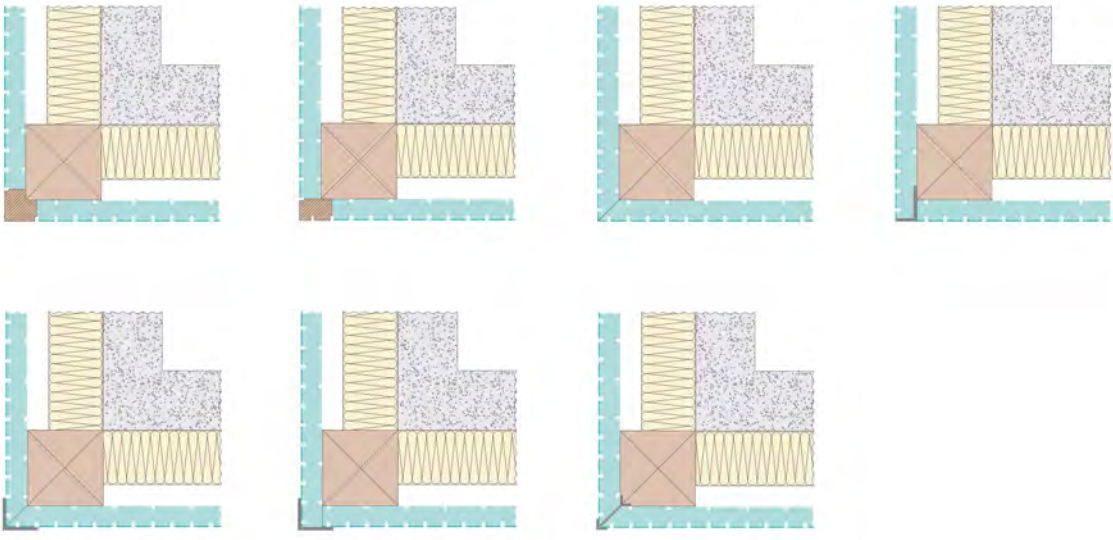


### lacquer

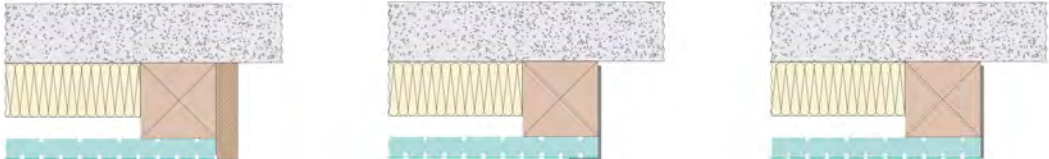
The grooved panels can be delivered in a RAL or NCS colour finished with transparent matt lacquer. This is done in-house at our production site. (the quality of the lacquer in the groove is less covering than the lacquer of the top layer).

# inspiration corner + plinths

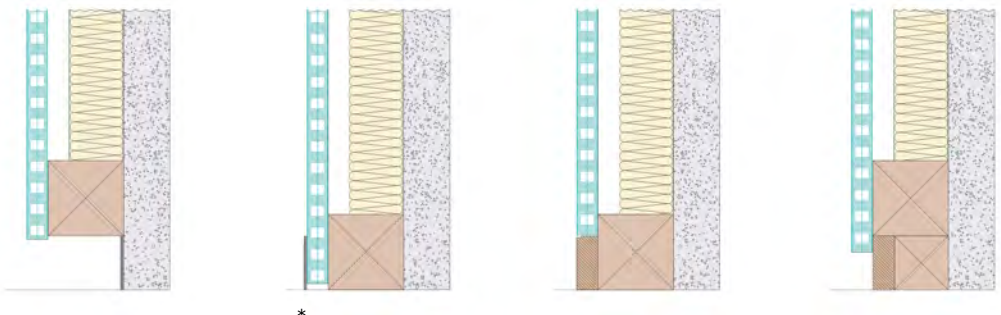
## Corner solutions



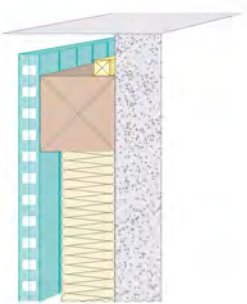
## Wall connections










## Floor connections



## Ceiling LED line

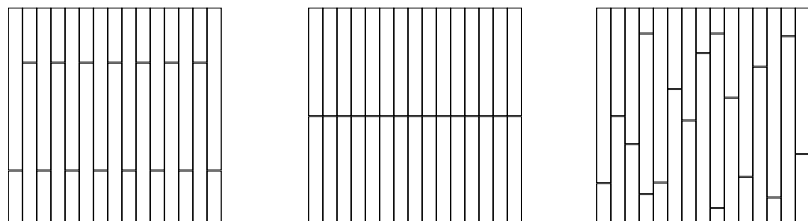


-  Primawool or rockwool
-  Triplacoustics panel
-  wooden structure
-  wall
-  profile available at specialist shop
-  decorative full panel material or massive wood
-  LED line

\* Required plinth position in case of type F or Ds

## installation patterns

There are different possible installation patterns for panels and planks.  
A couple of examples of patterns with planks are given in the drawings below.



## Primawool®

### Description

- > Low density absorber
- > 100% polyester fibre
- > 1-sided drum membrane: white
- > Colour of polyester fibre: white
- > Applications: walls, ceilings and baffle filling

### Features

- > 100 % recyclable PET
- > Inodorous
- > No emission of volatile organic compounds (VOCs) (A+ level)
- > Moisture and rot resistant
- > Non irritating for skin and eyes
- > European fire class B-s2-d0

### Figures

Density ISO 9073-1

Thickness E0 (without load) ISO 9073-2

Thickness E1 (load of 50g/50cm<sup>2</sup>)

Thickness E10 (load of 500g/500cm<sup>2</sup>)

Inflammability FMVSS 302

Dimensions of roll (length / width / width tolerances)

Package

450 gr/m<sup>2</sup>

22 mm (measured without package)

21 mm (measured without package)

13 mm (measured without package)

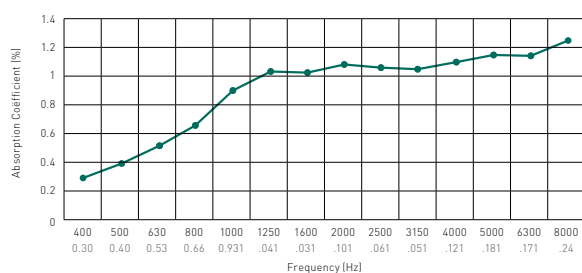
<100 mm/min (self-extinguishing)

30 m / 600 mm / -0 +2 cm

36 m<sup>2</sup> (2 separate rolls of 30 m)

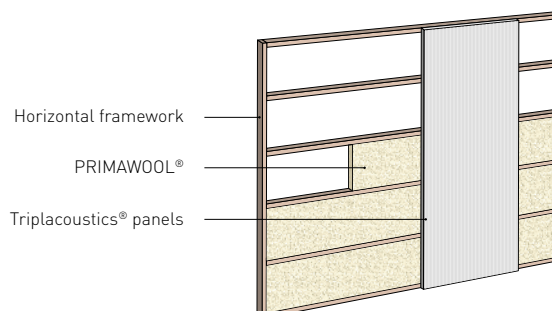
### Acoustic features

Absorption coefficient is determined by measuring a sample of PRIMAWOOL® in the reverberation room.



### Installation PRIMAWOOL®

Installation in a framework with vertical or horizontal slats.



## made-to-measure solutions



### Acou Sliding door elements

Triplacoustics can produce Made To Measurement acoustic absorbing cupboard door elements with straight top-running and bottom guiding system. Both sides of the door elements are Type Db, Dr, Dw, I, M, N and the core has a full frame filled with Primawool.

Total Thickness  $\pm 60\text{mm}$

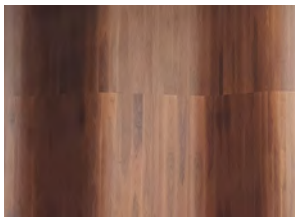


### Cladding panels for interior doors (non acou)

We can deliver 'false' acou panels for cladding of an interior door.

This to preserve the esthetics of the project. These panels are delivered full oversize and are to be glued on an existing door.

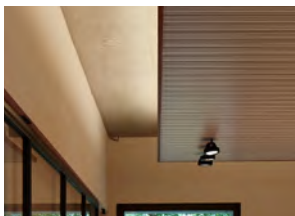
extra thickness  $\pm 11\text{mm}$



### Curved walls & ceilings

Our acoustic panels can be installed in various ways on a curved back structure. Which producten and which radii are possible can be found in the overview in our catalog on pages 76 and 77.

catalog

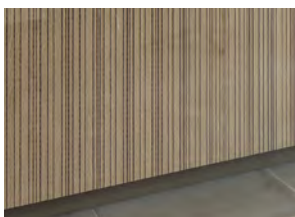


### Akoest-object

You can also opt for acoustic baffles to absorb the sound in a room.

These baffles are available as individual wall or ceiling elements.

They can be made to measure on the basis of all our types.



### Akoest-lambris

All walls/ceilings are available in woodpanelling non acou on request

> 0% Perforation (no absorption)

> On full black core board

Can be used as outer corner panel



### Akoest-box-type

On request, we can deliver frames (colour-coordinated or otherwise) in veneer, HPL or solid timber on various depths and widths. Assembled or loose.

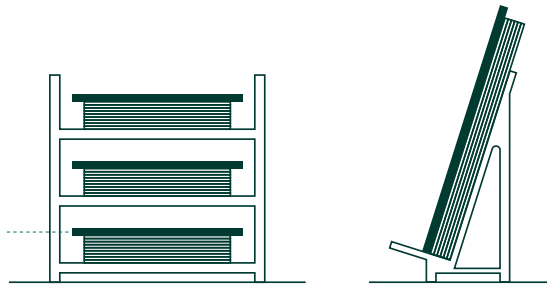
## storage and handling of finished panels

The acoustic panels/planks can be mounted horizontally and vertically. For conditioning, we recommend to store the panels in the room at least 48 hours before mounting them. These panels are by nature and composition only to be mounted in a well-conditioned room with a relative humidity between 35 and 55 % and a temperature between 14 and 30 °C. Large temperature and humidity differences between front and plenum are not allowed.

Flat storage with larger cover plate

Handle with care (delicate panels)

Larger cover plate than the Triplacoustics® panels.



**tripla**  
**coustics**

YOUR SILENT PARTNER

PRINT  
ACOUSTICS

WOOD  
COUSTICS

BI  
COUSTICS

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