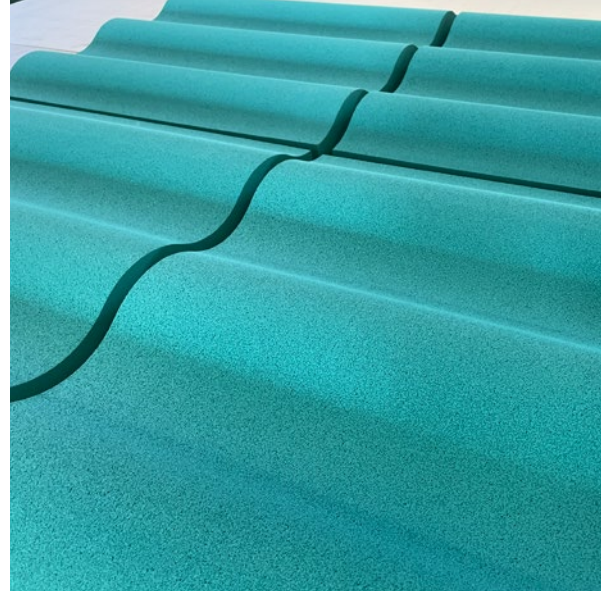
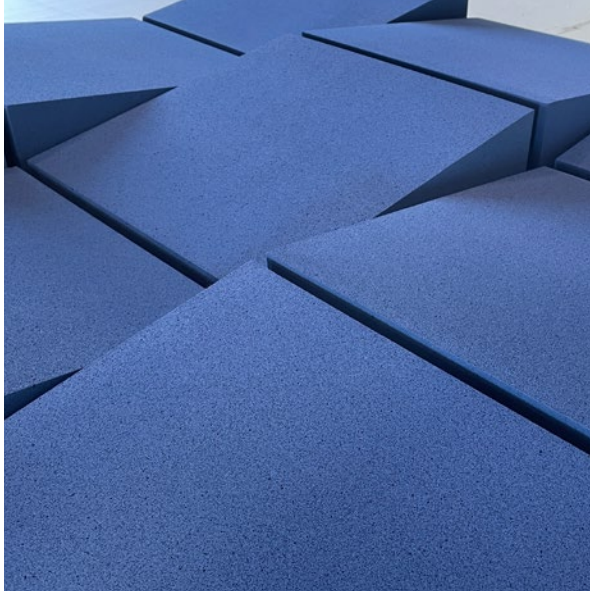


PLANO 3D from pinta acoustic delivers excellent absorption values – in both low and high frequency ranges. Thanks to its low weight and minimal installation height, the absorber is suitable for a wide variety of applications.

>> **Service**

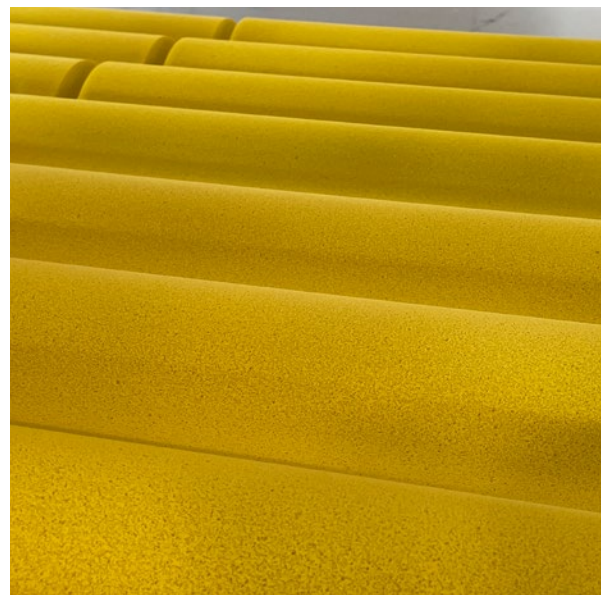
- Call our telephone hotline for custom advice on your situation.

pinta acoustic gmbh  
Otto-Hahn-Straße 7  
82216 Maisach, Germany  
info +49 (0)8141.88 88-0  
fax +49 (0)8141.88 88-555  
[www.pinta-acoustic.de](http://www.pinta-acoustic.de)



### PLANO 3D – the versatile acoustic system

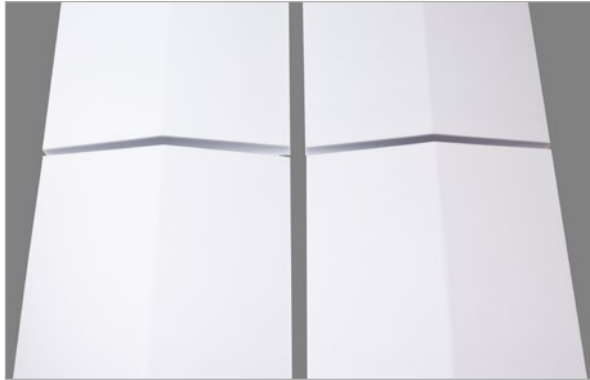
PLANO 3D consists of an „open-cell“ melamine resin-based foam and complies with building material class B1 according to DIN 4102. The extensive range of products makes the absorber suitable for decorative and functional wall coverings. Four standardized designs and an individual choice of colors allow for free design planning.



### >> Choose from a range of alternatives:

- pinta WAFFEL
- pinta PYRAMID
- pinta PLANO

- pinta PLANO POLAR
- pinta ACOUSTIC PANEL
- pinta phonestop V



### Product advantages

- Easy to install using fireproof system adhesives
- Environment-friendly, being free from synthetic and natural mineral fibers, halogens and CFCs
- Reduced transport and handling costs due to low weight
- Exceptionally good sound absorption
- Customized color schemes possible
- Four standardized designs available

### Colors

pinta PLANO 3D is available in the following standard colors:



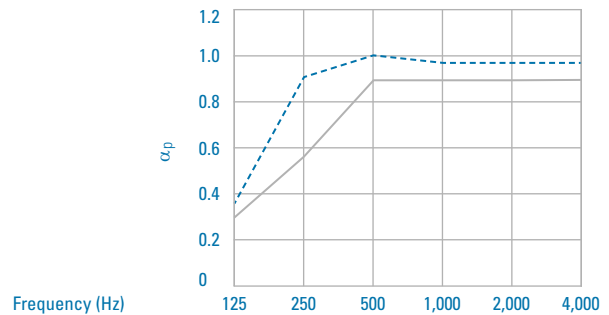
white

gray

Color coating similar to RAL or NCS on request.

Design	Dimensions	Sample Color
ROOF	600 × 600 × 105 mm	RAL 2003
SLOPE	400 × 400 × 85 mm	RAL 5003
WAVE 200	600 × 600 × 70 mm	RAL 5018
WAVE 150	600 × 600 × 70 mm	RAL 1018

Sound absorption coefficient  $\alpha_p$ , pinta PLANO 3D, according to DIN EN ISO 11654



PLANO 50 mm, without spacing

$\alpha_p$	0.30	0.55	0.90	0.90	0.90	0.90
------------	------	------	------	------	------	------

PLANO 80 mm, without spacing

$\alpha_p$	0.35	0.90	1.00	0.95	0.95	0.95
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### willtec product data

Characteristic	Standard	Value
Base material		Melamine-resin foam
Colors*		white gray
Material density**	EN ISO 845	9.5 ± 1.5 kg/m <sup>3</sup>
Building material class	DIN 4102	B1 (flame-retardant)
Fire protection classification	DIN EN 13501-1	C-s3, d0
General test certificate issued by building authorities		P-MPA-E-13-527
Thermal conductivity (d = 50 mm)	DIN 52 612	$\lambda_{10,tr} < 0,035$ W/mK
Sound absorption coefficient (d = 50 mm; 2,000 Hz)	DIN 52 215	> 90 %
Tensile strength	DIN EN ISO 1798	120 to 180 kPa
Percentage elongation after fracture	DIN EN ISO 1798	15 to 29 %
Compression hardness	ISO 3386-1	6 to 11 kPa
Diffusion resistance coefficient	DIN 52615	approx. 1 to 2
Length-specific flow resistance	DIN EN 29053	8 to 20 kNs/m <sup>4</sup>
Long-term temperature stability		180 °C
Short-term temperature stability		220 °C

The foam may have pores of different sizes according to the texture.\*\*\*

\* Colors may vary.

\*\* Pursuant to EN ISO 845 determined with samples having the following minimum dimensions: 250 × 250 × 250 mm.

\*\*\* As an upper limit, 10 pores per m<sup>2</sup> with a diameter in a range of > 5-15 mm may occur on cut surfaces.

## >> Notes

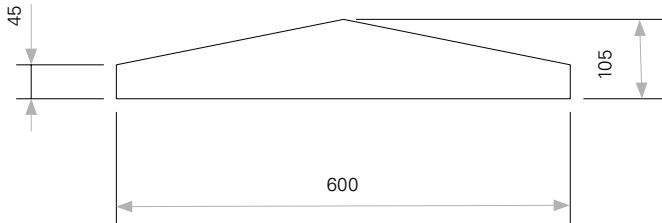
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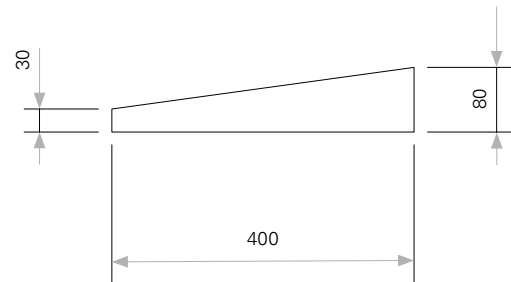
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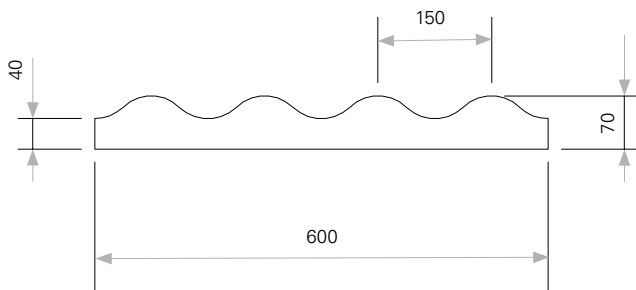
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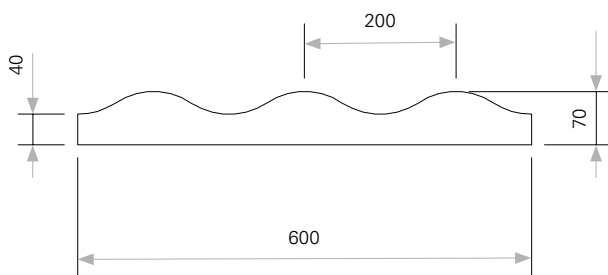
pinta ROOF 600 x 600 x 105 mm



pinta SLOPE 400 x 400 x 85 mm



pinta WAVE 150 600 x 600 x 70 mm



pinta WAVE 200 600 x 600 x 70 mm

#### Installation advice

We recommend using the adhesives below for adhesion of pinta PLANO to the following surfaces:

- porous surfaces, such as wood, brick or concrete: pinta acoustic adhesive D
- smooth, non-porous surfaces such as steel panels or PVC: pinta acoustic adhesive S

Gloves should be worn when installing pinta PLANO, to avoid getting dirt on the panels. The absorbers can be cut with a sharp knife. We recommend laying the absorbers with a shadow gap of at least 20 mm, in order to achieve an optimum appearance.

#### >> Notes on adhesion

We recommend carrying out an adhesion test, as the precise composition of the underlying surface must always be verified on site. Surfaces must be even, clean, dry, solid, stable and free of dust, oil and wax. In particular, wallpapers and coats of paint must be re-

moved. Surfaces with insufficient stability, e.g., loose plasters, must be undercoated using a commercially available primer thinned with water in a ratio of 1:1. Uneven surfaces must be smoothed.



## pinta acoustic adhesive D

### Field of application

Adhesion of pinta absorbers (except A2 products) to porous interior surfaces.

### Features

pinta acoustic adhesive D is ready for use and bonds immediately. Nevertheless, absorbers can be adjusted within 5 minutes after laying. pinta acoustic adhesive D adheres securely to concrete, mineral plasters, brickwork, and boards made of gypsum, plasterboards, and gypsum fibers as well as wooden particle boards (manufacturer's instructions must be followed).

### Shelf life

At least 12 months when stored in a dry, frost-free place in unopened original packaging.

### Lowest film formation temperature

Approx. +4 °C.

### Working temperature range

From approx. +5 °C to approx. +25 °C. Generally, pinta acoustic adhesive D must not be exposed to sub-zero temperatures.

### Surface

Surfaces must be even, clean, dry, solid, stable, and free of dust, oil, and wax. In particular, wallpapers and coats of paint must be removed. Surfaces with insufficient stability, e.g., loose plasters, must be undercoated using a commercially available primer thinned with water in a ratio of 1:1. Uneven surfaces must be smoothed. We recommend carrying out an adhesion test

### Application

Using a notched trowel (size 3-4), pinta acoustic adhesive D is applied to the whole surface area of either the substrate or the rear side of the panels. The absorbers are pressed on and aligned. Fresh stains of adhesive must be wiped off with water. During and after adhesion of pinta products, good ventilation must be ensured so that the adhesive sets quickly.

### Consumption

1.2 bis 1.5 kg/m<sup>2</sup> for whole-area adhesion.

### Please note

We recommend carrying out an adhesion test.



Application of acoustic adhesive D

## >> FAQs about bonding with acoustic adhesive D

- Spacing between elements:  $\geq 20$  mm
- Acoustic adhesive D is ready for use
- Element adjustment time: 5 minutes
- Shelf life: 12 months in unopened original package
- Consumption: 1.2 to 1.5 kg/m<sup>2</sup> for whole-area bonding
- Working temperature range: +5 to +25 °C
- Drum size: 20 kg

## pinta acoustic adhesive S

### Fields of application

pinta acoustic adhesive S is a polydimethylsiloxane based adhesive and is particularly suitable for bonding pinta absorbers to smooth, non-porous surfaces.

### Features

pinta acoustic adhesive S is ready for use and bonds immediately. Nevertheless, absorbers can be adjusted within 5 minutes after laying. pinta acoustic adhesive S adheres securely to surfaces such as steel panels, trapezoidal sheet metal and PVC.

### Shelf life

12 months when stored in a dry, cool and frost-free place in unopened original packaging.

### Working temperature range

From approx. +5°C to approx. +40°C. Generally, pinta acoustic adhesive S must not be exposed to sub-zero temperatures.

### Skin formation

Within 5 minutes at +23°C and 50% relative humidity.

### Temperature resistance

From -50°C to +180°C.

### Surface pre-treatment

Surfaces must be stable, clean, dry, and free of oil and grease.

### Application

pinta acoustic adhesive S is applied to the surface or to the rear side of the panels in strips. The number of strips depends on the product and the size of the absorbers

### Consumption

Approx. half a cartridge per m<sup>2</sup>.

### Please note

We recommend carrying out an adhesion test.



Application of acoustic adhesive S

## >> FAQs about bonding with acoustic adhesive S

- Spacing between elements:  $\geq 20$  mm
- Acoustic adhesive S is ready for use
- Element adjustment time: 5 minutes
- Consumption: half a cartridge per m<sup>2</sup>
- Shelf life: 12 months in unopened original package
- Working temperature range: +5 to +40°C
- Packaging units: 12 pcs. per carton

## Checklist

### Material

willtec is a soft foam on a melamine resin basis. Building material class B1 (flame-retardant) according to DIN 4102.

Fire protection classification according to DIN EN 13501-1: C-s3, d0

General test certificate issued by building authorities: P-MPA-E-13-527.

### Dimensions PLANO 3D

#### Designs / Dimensions

- ROOF          600 × 600 × 105 mm
- SLOPE         400 × 400 × 85 mm
- WAVE 200     600 × 600 × 70 mm
- WAVE 150     600 × 600 × 70 mm

### Color

- white
- gray (irregularity of color possible due to material)
- color coating similar to \_\_\_\_\_

### Adhesives

- pinta acoustic adhesive D

For porous surfaces such as concrete, mineral plasters, plasterboard, gypsum fibers and wooden particle boards (manufacturer's specifications are to be observed)

- pinta acoustic adhesive S

For non-porous surfaces such as steel panels, trapezoidal sheet metal and PVC (manufacturer's specifications are to be observed)

## >> | Contact / Inquiry

Company stamp:

Quantity:

m<sup>2</sup>

pinta acoustic gmbh  
Otto-Hahn-Straße 7  
82216 Maisach, Germany  
phone +49 (0)8141. 88 88-0  
fax +49 (0)8141. 88 88-555  
e-mail: info@pinta-acoustic.de