



PLANO POLAR and PLANO POLAR F from pinta acoustic deliver excellent absorption values even when using partial areas of walls or ceilings. Open for individual design, discreet due to minimal installation height.

>> **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)



**pinta PLANO POLAR – versatile and ecologically friendly**

Whether in kindergartens and schools, administrative buildings, commercial and industrial buildings or leisure facilities such as spas and wellness areas - the excellent absorption values in both low and high frequency range enable optimum room acoustics.

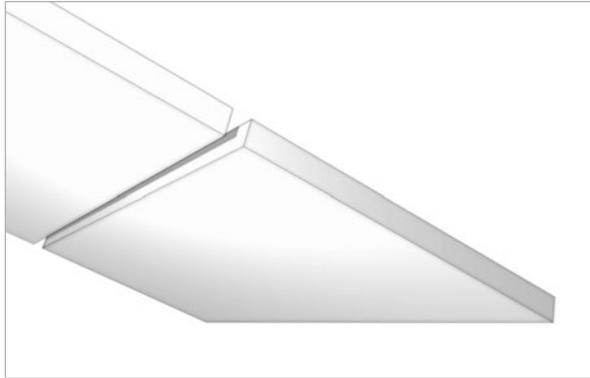
Thanks to its minimal installation height, the pinta PLANO POLAR acoustic element is a lightweight and, thanks to its low manufacturing tolerances, can be installed with virtually no joints and a flat appearance or with shadow joints, as required. Available with or without bevel cut as standard, the panels are easy and efficient to cut to size using standard commercial tools.

Introducing POLAR, pinta employs a mono-material sandwich element made from PET, which can be 100% recycled back into the raw material cycle, optimally fulfilling any standards of sustainability. Toxically uncritical and breathable, it meets the requirements of the Oeko-Tex Standard 100 Class 1.

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

- pinta WAFFEL POLAR
- pinta phonestop V
- pinta ACOUSTIC PANEL

- pinta WAFFEL
- pinta PYRAMID



**Product advantages**

- \_ Oeko-Tex Standard 100, Class 1
- \_ Manufactured free of waste
- \_ Made from up to 70% recycled synthetic material
- \_ No chemical additives
- \_ Non-allergenic
- \_ Free of formaldehyde
- \_ Flame-resistant
- \_ Easy mounting with system adhesives
- \_ Custom color coating available

**Colors**

- \_ white
- \_ black
- \_ Color coating similar to RAL or NCS on request

**Bevel cut**

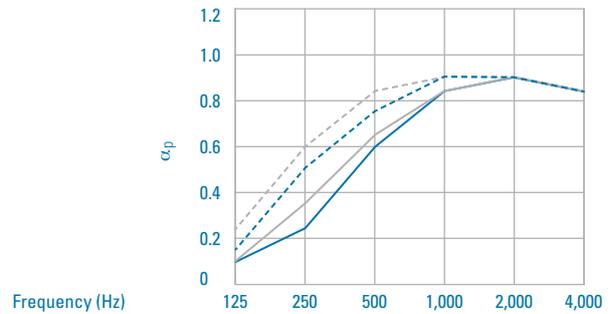
- \_ 10 mm / 45°
- \_ Other dimensions on request
- \_ Without bevel cut, we recommend laying with a shadow gap of approx. 5 mm.

**Dimensions**

- \_ 1,250 x 625 mm
- \_ 625 x 625 mm

**Acoustical properties: PLANO POLAR**

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



| Thickness         | 125 Hz | 250 Hz | 500 Hz | 1,000 Hz | 2,000 Hz | 4,000 Hz |
|-------------------|--------|--------|--------|----------|----------|----------|
| PLANO POLAR 30 mm | 0.10   | 0.25   | 0.60   | 0.85     | 0.90     | 0.85     |
| PLANO POLAR 40 mm | 0.10   | 0.35   | 0.65   | 0.85     | 0.90     | 0.85     |
| PLANO POLAR 50 mm | 0.15   | 0.50   | 0.75   | 0.90     | 0.90     | 0.85     |
| PLANO POLAR 60 mm | 0.25   | 0.60   | 0.85   | 0.90     | 0.90     | 0.85     |

**Product parameters pinta POLAR**

| PROPERTY                  | STANDARD     | VALUE                         |
|---------------------------|--------------|-------------------------------|
| Base material             |              | 100% polyester                |
| Colors*                   |              | white                         |
| Material density          |              | 50 kg / m <sup>3</sup> ± 15 % |
| Fire rating**             | DIN EN 13501 | B-s1, d0 – 50 mm              |
| Long-term heat resistance |              | 70° C                         |

\* Colors may vary.  
\*\* Fire rating tested for white, uncoated, thickness up to 50 mm

**Thicknesses**

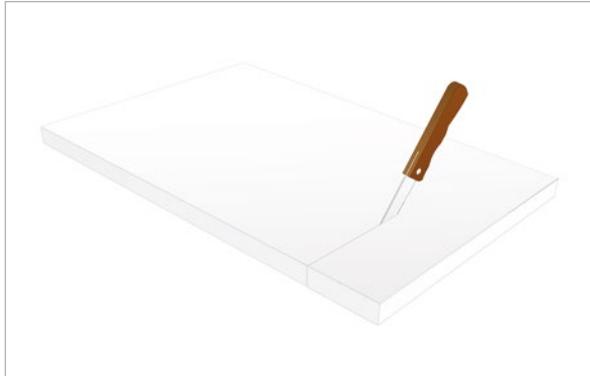
30 mm, 40 mm, 50 mm, and 60 mm

Stable color coating of visible sides incl. edges with low-emission coating – pinta pearls – in RAL or NCS colors on request.

Cleaning recommendations according to data sheet: Installation and Maintenance Guidelines Absorber.

**>> Note:**

- For on-site cutouts, we recommend using a jigsaw with a blade without teeth for “soft materials”, e.g., Bosch T313AW.



Cut absorber to the required size



Apply acoustic adhesive



Lay absorbers with a gap of at least 4–5 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. For on-site cutouts, we recommend using a jigsaw with a blade without teeth for “soft materials”, e.g., Bosch T313AW.

pinta acoustic recommends laying sharp-edged panels with a minimum gap of 4 to 5 mm, the panels with bevel cut can also be laid joint-to-joint by experienced craftsmen.

### 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 wood (board manufacturer’s instructions must be followed).

## >> | FAQs about bonding with acoustic adhesive D

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>■ Spacing between elements: <math>\geq 4 - 5</math> m</li> <li>■ Acoustic adhesive D is ready for use</li> <li>■ Drum sizes: 5 and 20 kg</li> <li>■ Element adjustment time: 5 minutes</li> </ul> | <ul style="list-style-type: none"> <li>■ Consumption: 1.2 to 1.5 kg/m<sup>2</sup> for whole-area bonding</li> <li>■ Shelf life: 12 months in unopened original package</li> <li>■ Working temperature range: +5 to +25 °C</li> </ul> |
|--|--|

**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.

**Application**

Using a notched trowel (size 3-4), pinta acoustic adhesive D is applied to the whole surface area. The absorbers are pressed on and aligned. Fresh spots 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 to 1.5 kg/m<sup>2</sup> for whole-area adhesion.

**Please note**

We recommend carrying out an adhesion test.

**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 up to +180 °C.

**Surface pre-treatment**

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

**>> FAQs about bonding with acoustic adhesive S**

- Spacing between elements:  $\geq 4 - 5$  m
- Acoustic adhesive S is ready for use
- Element adjustment time: 5 minutes
- Consumption:  $\frac{1}{2}$  cartridge/m<sup>2</sup>
- Shelf life: 12 months in unopened original package
- Working temperature range: +5 to +40 °C
- Packaging units: 12 pcs. per box

### Application

pinta acoustic adhesive S is applied to the surface 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.



Cut absorber to the required size



Apply acoustic adhesive



Lay absorbers with a gap of at least 4 – 5 mm

## >> | 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.

## Checklist

### Material

pinta PLANO POLAR consist of 100% polyester. Up to 70% recycled synthetic material is processed. The color of the visible face of the acoustic element is similar to RAL 9016. Fire rating B-s1, d0.

\* Fire rating tested for white, uncoated, thickness up to 50 mm.

### Dimensions PLANO POLAR

#### without bevel cut

- 1,250 x 625 mm
- 625 x 625 mm
- special dimension: \_\_\_\_\_ mm

### Dimensions PLANO F POLAR

#### with bevel cut (10 mm / 45°)

- 1,250 x 625 mm
- 625 x 625 mm
- special dimension: \_\_\_\_\_ mm

### Panel thicknesses

- 30 mm
- 40 mm
- 50 mm
- 60 mm

### Color

- white
- black
- color coating similar to RAL or NCS

### Adhesives

- pinta acoustic adhesive D

For porous surfaces such as concrete, mineral plasters, plasterboard, gypsum fibers and wood (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).