INVISION  vision becomes reality
INVISION  Is Pure Design ...

Organic materials, but also cool metals, delicate textiles and other high-tech materials are embedded in panels made of polyester (PETG). A prerequisite for these innovative material combinations is a special rolling technique developed by us. Numerous possibilities for surface design and the subsequent processing of these high-class panels open up a wide range for their use. During the production of an Invision panel different effects can be created to suit your taste and to provide the perfect match for the use intended by you. Each Invision panel is unique and manufactured individually in Germany.

techno/effects

Metals and high-tech materials are the themes of these product lines. Cool gloss and unusual structures give the products a futuristic touch and make them innovative components of modern interior decoration.

individual

You have a very particular idea of what your Invision panel could look like? Then make the desired elements available to us for embedding and together with us create your own personal Invision. For example, you can forge a direct reference to your company with products or materials representing your firm – ideal for advertising drives or for designing your firm’s premises.

Decorative elements for creative room design are generated through the insertion of fabrics. Complete fitment concepts can be realized in this way – for example with Invision as an element in sliding doors, matched to curtains or furniture fabrics. Simply supply us with the desired fabric – and we will embed it. Here are a few examples of individual designs:

You can find additional solutions and the current product range on www.designpanel.de
nature

All the panels in our “nature” line are produced using original organic materials, so that their transient beauty is forever captured inside lasting plastic. With many inlays an attractive depth effect can be achieved by multiple-layer embedding of the materials. Minor deviations in appearance from panel to panel are possible since the inlays are natural products. Also there may be colour variations from batch to batch. Insignificant deviations of the embedded patterns may occur since the individual inlays are put together and embedded by hand.

*) Inlays especially suitable for “fade out” decor.

You can find additional solutions and the current product range on www.designpanel.de
Ordering Support

Invision Panels are highly individualistic. Many different alternatives are possible for each inlay: Panel size and thickness, surface structure and also the colour for several decors. With many inlays there is a choice between one or two layers. The running direction is also variable. On request we will cut your panel to the exact dimension you require and will finish the edges to suit the application you intend.

For this reason we need you to provide exact information when placing the order so that we can create your Invision panel to meet your requirements. Manufacturing the panel usually takes two to three weeks.

One or two layers

In case of more casually arranged inlays, several layers of the materials on different levels are an interesting option. For grass or bamboo rod inlays choose between one or two layers:
- **One layer**: Better visibility, possible panel thickness starting at 6 mm.
- **Two layers**: The inlay is more dense, at the same time the three-dimensional structure enhances the effect of optical depth (starting at 10 mm).

Running direction

This information is important in connection with inlays which have a “longitudinal structure” such as grasses, twigs or rods. The “correct” running direction depends on the type of the intended application. Two options are possible:
- Running direction **parallel to the long edge**
- Running direction **parallel to the short edge**

Surfaces (Finish)

- Six different surface finishes are available.
- Different surfaces can be selected for the front and back.
- Some surfaces are especially suitable in case of heavy use. Please talk to us in case of doubt!
- The surfaces high gloss and classic allow a clear visibility in case of casually arranged inlays, other alternatives are translucent and may also serve as privacy screen.

Brief description

- **classic**: Smooth surface with a slight shine.
- **high gloss**: High lustre. Not suitable for heavy use.
- **patina matt**: A light satin finish makes the inlays optically less prominent.
- **pearl**: Fine pearl structure. Suitable also for heavier use.
- **frosted**: Uneven structure resembling ice.
- **sandstone**: A finish with a structure similar to „pearl”, but finer.

Edge Finishes

These types are possible:
- **Cut**: The standard type (saw-cut)
- **Milled**: A visually smooth edge without grooves (at an extra charge).
- **Edge banding**: The cutting edges are covered with a strip of transparent PETG. Very sophisticated appearance while offering protection against moisture at the same time. Coloured edge banding is also possible (at an extra charge).
Specials

**Opaque or With Additional Colour Effect**
Initially all Invision panels are transparent. Depending on the inlay and surface Invision Panels are more or less transparent, but they are always translucent. If an opaque panel is desired or if a special effect is to be achieved the following versions are possible:
- a **background panel** made of PETG in white or black
- laminated with a **coloured film**
- digitally **imprinted** with an almost unlimited range of colours

**“Fade-out” Decor**
A very decorative alternative which is especially suitable for inlays made of grasses, twigs, leaves or blossoms (no extra charge). For this purpose please state the exact dimensions you desire, i.e. which segment of the panel should remain free and which segments should be covered with more or less of the material used as inlay. For best results provide a sketch. (See example on the right). If “fade out” decor is desired only single layer inlays are possible and we recommend “pearl” or “sandstone” as surface finish.

**Other Options**
UV protection: In case of extended exposure to light or direct sunlight an additional UV protection prevents the yellowing of the panel. In spite of UV protection changes in colour of organic inlays may occur. Therefore outdoor applications of Invision nature are only possible under limited conditions. Read more on www.designpanel.de.
Moisture protection: The primary material PETG is generally water- and weatherproof. However if natural materials or fabrics are inlaid into Invision, moisture may penetrate through the open cutting edge. In order to prevent this all cutting edges must be protected by means of edge banding.

**Prefabrication**
On request we will prefabricate your panel to the extent that the only thing you have left to do is to install it. We will cut the panel to dimension or will thermoform it for you.

**Your Unique Panel**
It is possible to use very special inlays according to your ideas. Provide us with the material of your choice and we will test if your material is suitable as inlay. Only a test will show whether the material is acceptable for the process.

**Technical Specifications of Invision:**

<table>
<thead>
<tr>
<th>Material</th>
<th>PETG (Polyethylenterephthal Glycol) and embedded materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Food safety, environmental impact</td>
<td>Food safe, except for the version containing UV protection</td>
</tr>
<tr>
<td>Fire protection</td>
<td>Depends on embedded material - EU categories B1 or B2</td>
</tr>
<tr>
<td>Permissible temperature range</td>
<td>Permanent service temperature up to 70° C</td>
</tr>
<tr>
<td>UV radiation resistance</td>
<td>optional (for an additional charge)</td>
</tr>
<tr>
<td>Thermal expansion/contraction</td>
<td>The coefficient of linear expansion is 0.05 mm/m °K. Allowances should be made especially in framed applications.</td>
</tr>
<tr>
<td>Specific weight</td>
<td>approx. 1.27 g/cm³</td>
</tr>
<tr>
<td>Processing</td>
<td>Cold bending and thermoforming possible, depending on the embedded material</td>
</tr>
<tr>
<td>Maximum dimensions (depending on the embedded material)</td>
<td>Standard sizes: 1200 x 2400 mm, 1450 x 3000 mm; 2000 x 3000 mm (available only with finish „classic“ or „sandstone“) 2000 x 3500 mm (starting at a purchase quantity of 20 panels)</td>
</tr>
<tr>
<td>Thickness (depending on embedded material)</td>
<td>4 / 6 / 8 / 10 / 12 / 16 / 20 / 24 mm</td>
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</table>
Partition made of Invision birch, fading

Partition made of Invision weed red

Invision jungle backlit by Lightpanel individual

Invision stem, fading, as privacy screen