

Product data sheet

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dekolux

starlux

toplux

Product Description

The name *dekolux* stands for a decorative high pressure laminate with a translucent core. An unfilled transparent paper (overlay), impregnated with a melamine resin, is used for the core. The surface layer, this is the decorative layer in *dekolux*, is an overlay sheet with a printed pattern (*Melalux*) or metal foil with holes (*Starlux*). Further, non-woven material with an open structure can be pressed in *dekolux* (*Toplux*).

The printed patterns in the available products have been taken mainly from the product ranges *dekostyle* and *dekotrend*. For this reason products in the *dekolux* range can be readily combined with products from the *dekostyle* and *dekotrend* ranges to obtain a highly decorative effect.

The colours of the collection *toplux* are enhanced by the structures of the fabric and lie within an acceptable tolerance. However, a slight colour-intensity-feeling is normal and should be expected.

Backing sheets for *dekolux*:

Dekolux is used in practice without a substrate and therefore no backing sheet is required.

Dimensions and Quality

All *dekolux* sheets are delivered in the dimensions 2440 mm x 1220 mm. The tolerances for the dimensions along and across the sheets as required by EN 438 are:

- 0 mm and + 10 mm

The standard thickness of *dekolux* is 1.5 mm giving a density of 2.5 kg/m². If thicker sheets of *dekolux* are required, direct contact with **Dekodur**[®] is advisable.

Dekolux with a holed aluminium decorative sheet is pressed with a smooth surface while printed patterns and netting structures are available in high gloss or in matt.

The limits for the variations in thickness are governed by EN 438.

Nominal thickness	Maximum tolerances
1.0– 2.0 mm	± 0.15 mm
> 2.0 – 2.5 mm	± 0.18 mm

A protective surface foil is absolutely necessary. This foil must be removed after 6 months at the latest, as by later removal the aluminium surface could be damaged.

Behaviour in case of fire – the *dekolux* laminate with an aluminium decorative sheet in standard quality is classified as B1 when tested according to DIN 4102.

The *dekolux* sheets with printed patterns and netting structures in standard quality are classified as B2 when tested according to DIN 4102.

All *dekolux* sheets are produced in standard quality only

Application and Processing

Dekolux laminates are intended for use in applications where the material can be illuminated from behind. The translucent effect together with the colour tones function as an eyecatcher in the object. Smaller pieces of *dekolux* are best secured in a metal framework or grooved together.

For use in larger surfaces it is recommended that *dekolux* laminates, specially with holed aluminium sheets, should be mounted with a slightly convex structure. The max. height of crowning, when using sheets with a thickness of 1,5 mm, should be approx. 1/3 of the actual width of the sheet. In case of a width less than 600 mm the max. height of crowning must be reduced. In this way any slight shrinkage in the sheet can be absorbed. In this curvature over the complete width, together with indirect illumination, the effect of the pattern is greatly enhanced.

Smaller cuts of *dekolux* should be gently strained into a frame or affixed into a groove. Hereby the measurements of the cuts need to be 1-2 mm smaller than the measurement from groove-base to groove-base.

The *Dekolux* laminate is intended for use in vertical surfaces in interior applications. A typical application is in indirectly illuminated wall cladding. Further, ceiling elements illuminated from behind are ideal applications.

Important: the backing light should be implemented using a **cold-light source**. In any case, enough ventilation and circulation needs to be ensured (avoidance of heat-built-up!).

The light permeability of the *dekolux* laminates is dependent on the colour. It amounts to for:

* melalux	5 – 20%
* starlux	< 10%
* toplux	20 – 40%

The *dekolux* laminates can be sawed, routed, and drilled using carbide tipped tools.

Cleaning and Maintenance

Cleaning of the surface is best carried out using a clean cloth or a soft sponge, using soap and plenty of water or a glass cleaner.

Abraisive cleaners, acids, or alkalise should never be used.

Storage

The *dekolux* sheets should be stored in a closed room with a temperature of 18-25°C and 50-60% relative humidity. Furthermore, they have to be stored full-laminar and horizontally with a distance of 200 mm to the ground.

The sheets

- are to be protected from moisture
- should not be exposed to direct sunlight
- should not be stored in a warm-air-stream

Should horizontal storage not be possible a skew of 80°, with the surface being entirely supported by a fully covering back-support, is recommended.

Waste Disposal

Dekolux waste can be **burnt** in officially accepted incinerators.

Dekolux waste can also be disposed of in landfills in accordance with the local regulations.

The German authorities classify high pressure laminate waste as “other hardened synthetic material waste” and so similar to household waste.

Should you have any further questions, please do not hesitate to contact our service department.

If you need samples you can order these in the form of chains, A5 or A4 from Dekodur®.