

## Printable board

### Key features

• Strong sandwich construction	• Water based adhesives
• Lightweight	• Recyclable
• Planar flatness	• Environmentally safe
• Printable with inkjet and screen	• All paper material
• Suited for digital cutting machines	• Energy efficient

### Applications

Point-Of-Sale stands, Exhibitions, Billboards and Commercial exposures

Panels, Inner ceiling tiles

Furniture

### Specifications

Board length: 3200, 2400 mm

Board width: 1600 mm

Board thickness: 8 10 12 16 22 30 mm

Weight per square meter: 1,5 1,6 1,7 2,2 2,5 3,1 kg

Density: 0,19 0,17 0,15 0,13 0,12 0,10 kg/l

Shipping units: Pallets stacked to a total height of 1 or 1.4 m

Bending strength: 700 Nm/cm<sup>2</sup> (16mm example)

Printable surface:	Whiteness	130	CIE
	Opacity	92	ISO %
	Gloss Hunter	38	%
	Brightness	98	D65 %
	Smoothness	2	PPS-10 um

## General description

Re-board is a versatile board with many interesting possibilities. Its bending stiffness is similar to that of chipboard in the same thickness range, but at a considerably lower weight. This allows for many different weight bearing designs that are much easier to ship, carry and assemble than the conventional alternatives. With its ink-jet printability, it is easily customized in short series.

The inherent characteristics of its sandwich construction provide protection against both temperature and sound. It is also resistant to wear and tear. As an example, exhaustion tests show that it can be folded over and over again after a partial cut without breaking.

The board is lined with a structured paper quality which prevents moisture from the air from penetrating the core sandwich material. This ensures perfect planar flatness of the board even in humid conditions, a unique characteristic when it comes to paper-based material. The open edges of the material can be sealed to ensure long-term resistance to difficult humidity exposure, e.g. outdoor billboards in humid climates.

Both the production process and the ready product are free from hazardous emissions. There is no formaldehyde in the material, which is recyclable as paper.

## Design considerations

Due to the different humidity resistance characteristics of the unprotected board edges compared to the surfaces of a board, it is not recommended to cut out very small pieces intended for designs that carry weight without treating the edges with sealer or wax. The product should be seen as moisture proof, but not water proof, and direct contact with fluids avoided.

Since most of the board volume is air, very sharp objects can penetrate the surface. A rule of thumb could be to avoid intentional load with imprint area less than 1 cm<sup>2</sup>.

## Roadmap

Product development plans are targeting features such as:

- a greater variety of surface paper qualities including different colours, polyester top coat, top with structure creating a wallpaper feeling, pre-printed patterns such as company logos, et cetera.
- introducing other surface materials than paper, e. g. aluminum foil.
- white sandwich core to achieve an all white appearance of thinner boards, without having to add edge covers.
- larger selection of thinner and thicker boards.
- more standard dimensions.
- flame retardant or fire proof qualities, ranging from protected surfaces to complete protection of all material components.