

# Drill Back-up Board

## METODRILL® MEL-25



### General Description

METODRILL® MEL-25 is a back-up board designed to meet stringent requirements for circuit board drilling. It is manufactured on sophisticated PLC-controlled equipment under tight technical and ecological specifications.

METODRILL® MEL-25 is made of high density pine based wood fibre boards. It is free of any ingredients of oak- or beech-wood as dust of such woods may cause lung cancer when breathed in.

The coating both sides is based on special paper carrier impregnated with a melamine resin mixture optimised for the pcb drilling process to offer lowest possible burrs and drill wear.

METODRILL® MEL-25 is recommended for drilling of high-tech printed circuit boards, multilayers and flex-rigid boards..

### Features

- Homogeneous, high density core provides excellent chipping and cleaning properties
- Less drill wear due to special conifer wood fibres from which the resin was removed; the resin free wood fibres clean the cutting edges of the drill bit and keep them sharp longer; the reduced friction of the drill keeps the carbide in a more stable temperature range
- Reduction of the danger of drill breakage because the resin free debris will not stick to the flutes and therefore can easily be sucked off
- Diminution of drill burr due to a smooth, hard and very thin overlay resulting in lower cost for rework of boards
- Easy visual drill check due to white surface
- No hole contamination resulting from phenolic particles or resin smear
- Excellent flatness and tight thickness and dimensional tolerances
- Suitable for all drill diameters
- Usable on both sides without loss of quality because of symmetrical build-up due to production of the material on a flat press
- Very economically priced

### Technical Data

Thickness:	2.5 –0,1/+0.2 mm
Density:	> 830 kg/m <sup>3</sup>
Surface hardness:	> 70 shore
Bending strength:	> 55 N/mm <sup>2</sup>
Warpage:	< 1,5 mm/m edge

### Environmental Protection

METODRILL MEL-25 is non-toxic to mammals, fish and bacteria and does not endanger water (German classification WGK 0).

### Disposal

METODRILL® MEL-25 is free of phenolic resin, formaldehyde and other impregnations. It may be burned thus providing heat energy. Local laws to be obeyed. METODRILL® MEL-25 is biodegradable.

**EC waste code:** 03 01 03

### Quality Control

The consistently high quality of METODRILL® MEL-25 is guaranteed by tightest production tolerances far below DIN-limits in conjunction with permanent production controls acc. DIN EN ISO 9001.

### Storage

METODRILL® MEL-25 should remain in its original packing until use. It should be stored under the same temperature and humidity conditions that surround the working area. Rapid change of these conditions will cause moisture fall out resulting in subsequent warp.

Best storage at 20 - 22°C / < 50% rH

### Sizes

Standard sheet sizes: 930 x 1230 and 1070 x 1230 mm

### Pre-cut blanks

Panels can be cut to size and tooled acc. customers drawings

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