Product Description

CIMWOOD® Superdrill SD-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.

CIMWOOD Superdrill SD-25 is made of a proven mixture of quickly growing conifers which, in a complicated process, are decomposed into fibres and then resin, sand and other impurities are removed before the material goes into a high-pressure flat press. The result is perfectly flat sheets. As a last step a hard and thin special foil is laminated onto both sides, making CIMWOOD Superdrill SD-25 correspond to the invention for which a patent was granted to CIMATEC in 1982.

CIMWOOD Superdrill SD-25 is recommended for drilling of high-tech printed circuit boards, multilayers and flex-rigid boards. Being a natural product CIMWOOD Superdrill SD-25 offers a number of technical and ecological advantages over conventional MDF or phenolic 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:	> 850 kg/m^3
Surface Hardness:	> 65 Shore
Flexural strength:	> 40 N/mm^2
Warpage:	< 0.5%

Environmental Protection

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

Disposal

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

Quality-Control

The consistently high quality of CIMWOOD Superdrill SD-25 is guaranteed by tightest production tolerances far below DIN-limits in conjunction with permanent production controls corresponding to ISO-9001.

Packing

CIMWOOD Superdrill SD-25 is wrapped in a moisture protective packing on recyclable one-way wooden pallets.

Storage

CIMWOOD Superdrill SD-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

Our new high performance computer controlled sawing centre enables us to supply our customers with panels or large sheets at short notice. Panels can be supplied with registration holes.

Thickness control

We offer a 100 % thickness check of each panel cut to size. This guarantees all panels with in thickness tolerance without any outliners, typical for mass production. Each panel is marked with your item code, lot-no., thickness etc. For each shipment you will get a test report.

General Safety Information

> Only use the product for applications described in the product data sheet
> The product is intended for industrial use only
> The product is not suitable for food industry
> The product must not be eaten
> In case of fire noxious fumes or smoke can be generated

Danger

Dust generation, do not inhale dust, comply with general dust limit value TRGS 553

Do not inhale fumes or smoke created during processing or by fire.

Protection Methods

Dust extraction or dust protection mask

Extinguishing Agent

Foam, powder, CO_2

Environment

Comply with limit value for respirable dust
Dispose of waste safely