

CIMWOOD Superdrill SD-2-W

Version: A1

Drill Back-up Board

General Description

CIMWOOD® Superdrill SD-2-W is a back-up board designed to meet highest requirements while drilling circuit boards. CIMWOOD Superdrill SD-2-W is manufactured exclusively for VENTEC on PLC-controlled equipment under tight technical and economical specifications.

CIMWOOD Superdrill SD-2-W is made of a proven mixture of quick growing conifers which are decomposed into fibres and perfectly cleaned. Having passed through a high-pressure flat press, the wood fibre boards remain for a certain period in a climate controlled conditioning chamber. After a multi sanding process the boards are coated with cured urea/melamine resin papers to meet the CIMATEC Patent No. DE 3229422 C1.

CIMWOOD Superdrill SD-2-W is recommended for drilling and routing high tech pcb, multilayers, etc. It provides a number of features and advantages over conventional MDF-boards or phenolic boards.

Technical Advantages

- > Specially designed for drilling pcb, made of de-resined conifers fibres without any glues
- > Excellent flatness and tightest tolerances
- > Flat, dense and very plain surface coating reduces burr and tool wear
- > Homogeneous, high density core provides excellent chipping and reduces drill breakage
- > Suitable for all drill diameters
- > To be used for single-sided/double-sided, multilayers etc.
- > No hole contamination resulting from phenolic particles or resin smear
- > Constantly high quality due to tight production tolerances far below DIN limits; production and quality control according to DIN/ISO-9001
- > White surface for visual drill check

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Technical Data	
Thickness	2.0 ± 0.10 mm
Density	> 1 000 kg/m ³
Surface hardness	approx. 20 HB/> 85 shore
Bending strength	> 40 N/mm ²
Warpage	< 1.0 mm/m edge
Glue	none, manufactured without any glue

Economical Advantages

- > Useable on both sides without loss of quality
- > Very good price/performance ratio
- > Less tool wear:
- > The homogenous core of CIMWOOD Superdrill: SD-2-W does not contain abrasive glues. The well cleaned wood-fibres keep the cutting edges of the drill bits and routers clean. Debris can easily pass the flutes thus reducing drill breakage. Overall reduced heat of drilling keeps the carbide of tools in more stable conditions.
- > Less costs subsequently:
- > Due to good reduction of burr steps of deburring are shorter or can be eliminated. Reliable quality reduces loss in production.

Environmental Protection

CIMWOOD Superdrill SD-2-W is non-toxic to mammals, fish, bacteria and does not endanger water.

Disposal

CIMWOOD Superdrill SD-2-W is free of phenolic resin, formaldehyde and other impregnations. It may be burned providing heat energy. Local laws to be obeyed. CIMWOOD Superdrill SD-2-W is biodegradable. Poisonous or hazardous residuary products are unknown.

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Quality Control

CIMWOOD Superdrill back-up boards are manufactured under DIN/ISO 9001 conditions. Furthermore they undergo permanent quality controls at VENTEC.

Packing

CIMWOOD Superdrill SD-2-W is wrapped in a moisture-proof packing on recyclable one-way pallets entirely made of wood. Panels cut to size are packed to facilitate handling.

Storage

CIMWOOD Superdrill SD-2-W 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 and subsequently warpage.

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 within no time. Panels can be supplied with registration holes.

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, CO2

Environment

Comply with limit value for respirable dust
Dispose of waste safely