

# CIMBLOC Type HM-8 and HM-10

Version: A1

## Routing Back-up Board

### General Description

CIMBLOC HM are stable routing back-up boards with multilayer build-up. They are exclusively manufactured for VENTEC on sophisticated PLC-controlled equipment under tight technical and ecological specifications.

CIMBLOC HM routing back-up boards are made of a special mixture of quick growing conifers which are decomposed into fibres and perfectly cleaned in a sophisticated manufacturing process. Having passed through a high-pressure flat press, the wood fibre boards remain in a climate controlled conditioning chamber for a specified time in order to achieve excellent flatness. The material is then ground to final thickness and laminated with a proprietary coating on both sides to meet specifications established in the patented CIMATEC invention.

CIMBLOC HM routing back-up boards offer the circuit board industry a number of features and advantages in comparison with conventional MDF-boards or phenolic boards.

### Technical Advantages

- > Specially designed for the routing process, made of de-resined conifer fibres in high-pressure flat presses
- > Excellent flatness, thickness and tightest tolerances
- > Flat, dense and very thin surface coating reduces routing burr and tool wear
- > Homogenous, high density core provides excellent chipping properties and reduces drill breakage
- > Suitable for all routing diameters
- > To be used for routing and drilling single-sided/double-sided, multilayer etc.
- > Constantly high quality due to tight production tolerances far below DIN limits; production and quality control according to DIN/ISO-9001

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Technical Data	
Thickness HM-8:	8 ± 0.40 mm
Thickness HM-10:	10 ± 0.40 mm
Density:	> 1000 kg/m <sup>3</sup>
Surface hardness:	> 85 Shore
Tensile strength:	> 100 N/mm <sup>2</sup>
Warpage:	< 2 mm/m edge length
Bending [ALPI]:	< 3 mm after 24 h

### Economical Advantages

- > Very good price/performance ratio
- > Less tool wear: The homogenous core of CIMBLOC HM does not contain abrasive glues. The well cleaned wood-fibres keep the cutting edges of the router bits clean. Debris can easily pass the flutes thus reducing router breakage. Overall reduced heat of drilling keeps the carbide of tools in more stable conditions.
- > The constant high quality of CIMBLOC HM reduces loss in production.

### Environmental Protection

CIMBLOC HM is non-toxic to mammals, fish, bacteria and does not endanger water.

### Disposal

CIMBLOC HM routing back-up boards are free of phenolic resin, formaldehyde and other impregnations. They can be burned thus providing heat energy. CIMBLOC HM is biodegradable.

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### Quality Control

CIMBLOC HM is manufactured according to DIN/ISO specifications. They undergo permanent quality controls at VENTEC.

### Packing

CIMBLOC HM 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

CIMBLOC HM 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 warp. CIMBLOC HM will not age if stored correctly.

### 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

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