

# Perforated

## Main feature: Distributor

PFC material is designed to release trapped air from under the core and or allow resin to flow from one side of the core to the other.

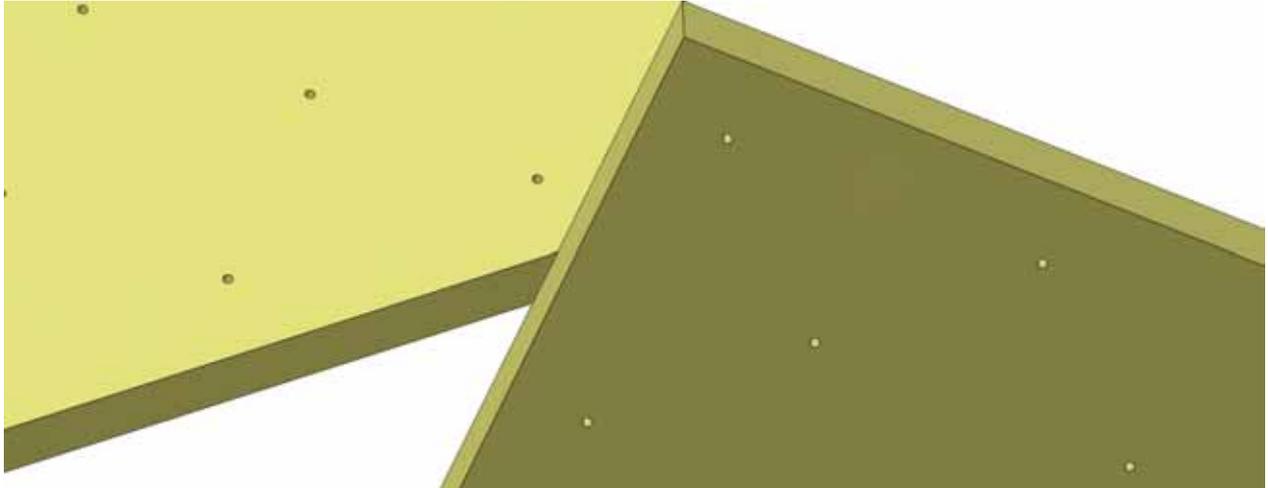


Figure 1: PFC top view (left picture) and bottom view (right)

## Description

As shown above, PFC is perforated in a diamond grid pattern.

Typical measurements:	
Center-to-center	100-100mm, in line
Diameter perforation	~3mm

## Benefits

- In vacuum bagging techniques it prevents air entrapments between mold / laminate and core.
- Facilitate bonding between core sheets, the perforations prevents air entrapments.

## Typical applications

- Decks
- Panels
- Webs
- Bulkheads
- Roofs

PF20 is an interesting alternative in weight critical applications, where vacuum bagging or prepreg techniques commonly are used. Due to the perforations it is possible to vacuum bag both inner and outer laminate in one operation, which yields cost and time savings.

## Process characteristics

Perforations prevents air entrapments to occur under the core in a vacuum process.

## Limitations and considerations

Consumption of resin increases with thickness. Resin flow on the surface of the core is very limited.

## Finishing Solutions

DIAB utilizes a combination of its complete range of finishing options to provide an optimized solution based on customers' requirements and objectives. Should the standard range not fulfill the needs, tailor made cuts and solutions can be defined and developed. Normally this is not needed as the range of options and DIAB competence covers majority of needs in various industries.

## Kits

To fully optimize the application for cost, performance and quality DIAB can engineer and design a core kit delivered in lay-up sequence. The kit of precut pieces is optimized for mechanical requirements, lay-up, manufacturing process, cost and quality objectives. The kit is produced by our skilled personnel using a combination of traditional and CNC equipment to achieve the desired result.

By working with kits our customers gain access to the full competence of DIAB in terms of engineered design, core materials and range of manufacturing techniques, all having a profound impact on the ability to reach the objectives of the application from cost, quality and performance point of view.

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Doc No: CFD-Batch.02\_2016 rev2

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