

PF20 (PFC20)

Perforated

Main feature: Distributor

PF20 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.

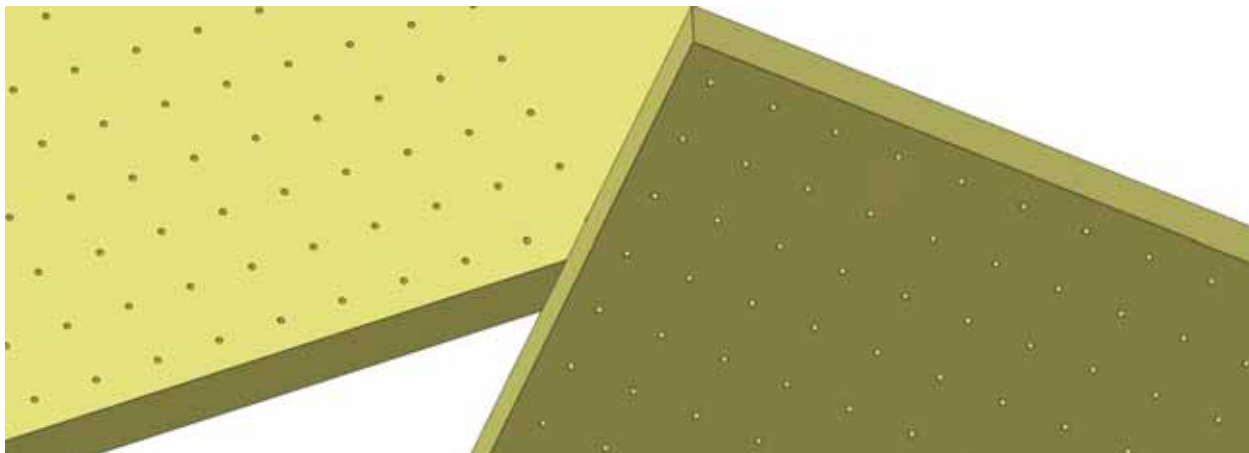


Figure 1: PF20 top view (left picture) and bottom view (right)

Description

As shown above, PF20 is perforated in a square grid pattern.

Typical measurements:	
Center-to-center perfs	20mm
Diameter perforation	~Ø 2mm

Benefits

- In closed molding applications where resin transfer techniques are used the perforations enables resin transportation through the core.
- In vacuum bagging techniques it prevents air entrapments between mold / laminate and core.

Typical applications

- Decks
- Panels
- Webs
- Bulkheads

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 in mentioned processes.

Process characteristics

In resin transfer molding processes resin flow is perpendicular to the plane, "through the core", while resin flow in the plane is poor. Where resin flow in other dimensions is of interest DIAB refers to other finishing options.

Limitations and considerations

Consumption of resin increases with thickness.

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.

This data sheet may be subject to revision and changes due to development and changes of the material. The data is derived from tests and experience. The data is average data and should be treated as such. Calculations should be verified by actual tests. The data is furnished without liability for the company and does not constitute a warranty or representation in respect of the material or its use. The company reserves the right to release new data sheets in replacement.

All content in this publication is protected by International Copyright Laws.

Copyright © DIAB January 2014.

Doc No: CFD-Batch.02_2016.rev2

Box 201
312 22 Laholm, Sweden
Phone: +46 (0)430 163 00
E-mail: info@se.diabgroup.com