GRC6 / GRC8

Grooved

MAIN FEATURE: DISTRIBUTOR
The groove configuration on GRC6/GRC8 enables a reliable, fast and robust distribution of resin on both sides of the core, only on flat or slightly curved surfaces. GRC6 is grooved along the sheet and GRC8 is grooved across the sheet.

DESCRIPTION
One side of the core is grooved in longitudinal or transverse direction of the sheet.

<table>
<thead>
<tr>
<th>Typical measurements</th>
<th></th>
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<tbody>
<tr>
<td>Center-to-center perfs</td>
<td>20mm</td>
</tr>
<tr>
<td>Depth (D)</td>
<td>2mm</td>
</tr>
<tr>
<td>Width (W)</td>
<td>2mm</td>
</tr>
</tbody>
</table>

BENEFITS
- Reduces cost
- Saves labor
- Big process window
- Facilitating easy and fast lay-up of infusion strategy
- Resin consumption very low and not dependent of thickness

GRC6/GRC8 has got excellent infusion capabilities and also has economical benefits since there is no need for additional infusion materials. For example, flow meshes or flow mats, are usually not needed due to the effective grooving of the core.

TYPICAL APPLICATIONS
- Panels
- Superstructures
- Webs
- Stiffeners

GRC6/GRC8 are not to recommend on surfaces with high demands of surface finish due to risk of print through from grooves.

(In combination with another finishing code, for example GS30, GRC6/GRC8 may be used also in applications with curved surfaces.)
GROOVED

PROCESS CHARACTERISTICS
- Good wet-out
- Robust
- Fast
- Reliable

The dimensions of the grooves enable both low and high viscosity resins to flow steadily. The design of the grooves (width, depth and distance between them) generates a fast flow and a proper saturation of fibers and core surface, which secures a good bonding between core and laminate.

LIMITATIONS AND CONSIDERATIONS
Resin consumption due to groove configuration is not related to core thickness. GRC6/GRC8 are intended for flat surfaces and are not as robust as infusion configurations where grooves are oriented in two directions, since that enables a flow around potential defects in grooves. GRC6/GRCB are intended for flat surfaces.

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.