

Grid Scored & Grooved

Main feature: Formable / Distributor

GST60/GRC6¹ allows a very fast and robust resin flow in closed molding applications where there are slightly curved geometries and provides a secure wet-out on both sides of the core.

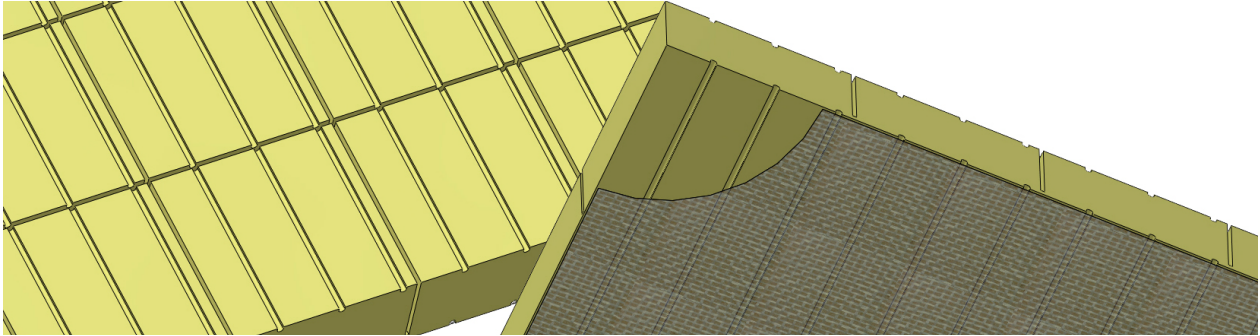


Figure 1: GST60/GRC6 top view (left picture) and bottom view (right)

Description

GST60/GRC6 has grooves oriented in the transverse direction of the sheet, while the optional GST60/GRC8 finishing has grooves in the longitudinal direction. GST60/GRC6 is a combination of GST60 and GRC6, which creates new and different process characteristics.

Typical measurements:	
GST60	
Center-to-center (c-c)	60mm
Depth (D)	~2mm from bottom of sheet
Width (W)	~1.3mm
GRC6/8	
Center-to-center (c-c)	20mm
Depth (D)	2mm
Width (W)	2mm

Benefits

- Reduces cost
- Saves labor
- Big process window
- Facilitating easy and fast lay-up of infusion strategy

GST60/GRC6 has economical benefits since there is no need for additional infusion materials.

1. And GRC8.

GRC6 have grooves in the longitudinal direction on both sides. GRC8 have transverse grooves on both sides.

For example, flow meshes or flow mats, are not needed due to the effective grooving and perforating of the core. Due to its fast flow, the distances between feeder lines are not as critical as it is the case without this configuration. This means that there are a lot of savings both in labor, materials and consumables compared to other infusion methods.

Due to the fairly large c-c distance between grid scores the resin uptake is much reduced.

Peel plies are seldom used in combination with GST60/GRC6 since the added value is minor. However, it may occasionally be used to facilitate an easier grinding prior to secondary bonding or to get a smoother surface.

Typical applications

- Panels
- Webs
- Stiffeners

GST60/GRC6 is very well suited for most kinds of applications where efficiency, low resin uptake and large volumes are of interest.