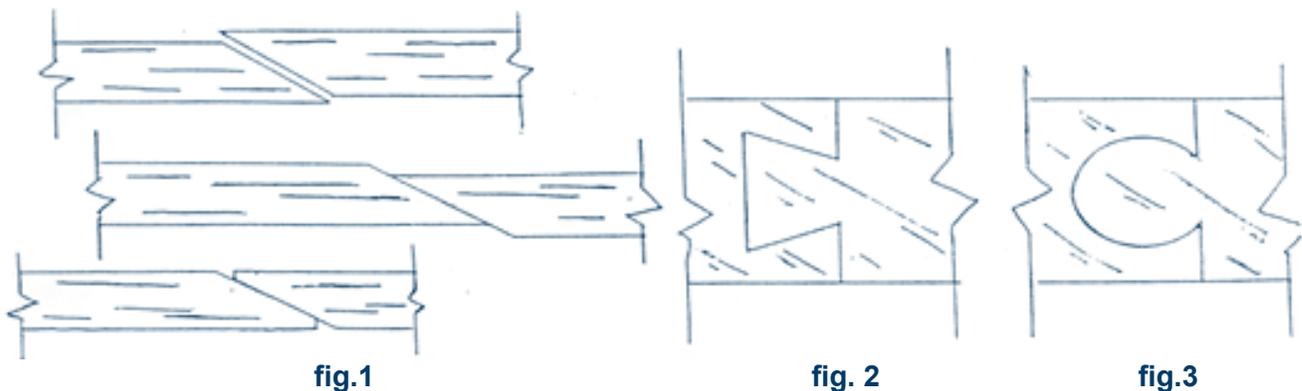


SEGMENTED GASKETS

Segmented gaskets are often necessary due to either the limited manufactured size of the sheet or to minimize waste generated with centers. Large gaskets are often made in sections and joined with beveled cuts (fig. 1). This procedure requires extra skiving and gluing operations and it is difficult to obtain a smooth, even joint without steps or transverse grooves that can create leak paths. The glue and layered materials can also affect the overall thickness and compressibility at the joined area which may result in uneven loading.

The best solution is to die cut the joint with a dove tail (fig. 2) or puzzle pattern (fig. 3). Under compression, the material flows together to create a tight, longer lasting seal. If properly done, this procedure does not necessarily require an additional applied sealant which can have adverse effects on the gasket material.



The ability of a gasket to make and maintain a seal depends not only on the style and quality of the gasket material, but also on medium being sealed, the flange design, the amount of pressure applied to the gasket by the bolts and how the gasket is assembled onto the flanges and tightened. These factors are beyond the manufacturer's control.

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