



IMPROVED FLOWING ARCH EXPANSION JOINT USING FEP
LINER BONDED TO FIBERGLASS FABRIC LAYER AND
REINFORCED WITH PLURALITY OF FABRIC PLIES COVERED
WITH ELASTOMERIC OUTER LAYER

ABSTRACT

An improved flowing arch expansion joint includes a fiberglass body layer having an overlapping longitudinal seam that are bonded together by a layer of heat flowable fluoropolymer material. The radial expansion strength of the joint is enhanced by a supplemental peripheral reinforcing strip extending over less than the entire axial length of the joint, in the area of the maximum diameter portion, only. The peripheral reinforcing strip is formed by a winding process in which tire cord-based strip material is wound at a laying angle as close as possible to ninety degrees relative to the axis of the joint.