

METHOD OF SEISMIC REINFORCEMENT OF A BEAM-COLUMN JOINT WITH HIGH STRENGTH FIBROUS SHEETS

ABSTRACT

A method of reinforcing a beam-column joint in a load bearing structure with at least one beam section extending outward from the perimeter of a column having a soffit and two opposite vertically oriented beam faces. The method comprising applying a first fibrous sheet to one of the vertically oriented beam faces and applying a second fibrous sheet to said one vertically oriented beam face over the first fibrous sheet. The first fibrous sheet has a majority of fibers arranged at a first skew angle to the longitudinal axis of the beam section. The second fibrous sheet has a majority of fibers arranged at a second skew angle different from the first angle. The first and second sheets reinforce the beam section against shear cracks.

Figure 10