

ABSTRACT

5 A viscoelastic brace comprising: a first core member
and a second core member made of shape steel, an angle
steel pipe or round steel pipe, the first core member and
the second core member being arranged along a line to
define an extension or contraction space therebetween; a
single layer of a set of steel channels or semi-circular
steel plates, which are opposed to each other surrounding
10 the first core member, provided being laminated on the
side surfaces of the first core member; and a single
layer of viscoelastic sheet provided being laminated on
the side surfaces of the first core member, wherein the
steel channels or semi-circular steel plates are secured
15 at an end of the second core member, and the first and
the second core member are viscoelastically connected
with each other through the steel channels or the semi-
circular steel plates and the viscoelastic sheets.

20 Therefore, in a building such as a high-rise
building in which the height of the building is larger
than the width, a deformation and shearing force in the
horizontal direction caused by an earthquake and wind can
be reduced and vibration can be quickly damped.