

Title (en)

Filler filled steel tube column.

Title (de)

Mit Füllstoff gefüllte Stahlrohrsäule.

Title (fr)

Poteau en tube d'acier avec remplissage.

Publication

EP 0214800 A2 19870318 (EN)

Application

EP 86306519 A 19860822

Priority

- JP 317986 A 19860110
- JP 19338885 A 19850902
- JP 21045385 A 19850924
- JP 29953185 A 19851228

Abstract (en)

A filler filled steel tube column including: a steel tube having an inner face; a core made of the filler and disposed within the steel tube; and a first separating layer, interposed between said inner face of the steel tube and said core, for separating the core from the inner face of the steel tube so that the steel tube is not bonded to the core. The steel tube includes a pair of tube pieces coaxially aligned with their adjacent ends spaced apart, so that a ring-shaped gap is formed between the adjacent ends of the tube pieces. The gap absorbs the axial strain in the steel tube by reducing its axial width when the steel tube is subjected to an axial compressive load, thereby inhibiting axial strain from being brought into the tube pieces. In the view of Mises's yield conditions, lateral confinement of the steel tube which is provided on the core is enhanced.

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