

Railway sleepers on the Osaka municipal subway line

The PC sleepers inside the metropolitan subway tunnels and subjected to a harsh, corrosive environment, being exposed to stray current and substances dissolved in underground water. A new material, FiBRA, is noted for its high durability that can reduce maintenance costs. Osaka Municipal Transportation Bureau used FiBRA in its subway system to reinforce sleepers (a world first).



- **Owner:**
Osaka city
- **Location:**
Osaka prefecture
- **Dimensions:**
Total length: 9,016m
- **Materials:**
FiBRA FA11& FiBRA FA13
- **Application:**
Pretensioning tendons for PC sleepers
- **Completed:**
Jun '01
- **ACC Projects list:**
#164

