

ABSTRACT

Disclosed is an anti-separation structure for a concrete-filled steel tube member and a sleeper block of a ballastless track. The anti-separation structure is used in a concrete-filled steel tube sleeper of a ballastless track, and the concrete-filled steel tube sleeper comprises two or more sleeper blocks (1), and a plurality of concrete-filled steel tubes (2) connecting the sleeper blocks (1), wherein the concrete-filled steel tubes (2) are formed by pouring concrete into hollow steel tubes; the hollow steel tubes have portions (3) with an expanded radial width at external ends thereof embedded in the sleeper blocks (1) the range of length less than 50 mm; and during the pouring process of the hollow steel tubes, the portions (3) with an expanded radial width are also filled with concrete and are poured with the sleeper blocks (1) during a pouring process of the sleeper blocks (1) such that same are integrated. An end of a formed concrete-filled steel tube undergoes flaring, and under the action of an external load, a concrete-filled steel tube member cannot be pulled away and separated; and the flaring is very beneficial to a spraying operation and the spreading of sprayed grout.

[Figure 4]