CLAIMS

1. A twin-block sleeper, comprising a first concrete sleeper block (1) and a second concrete sleeper block (2) configured in pairs, and a plurality of concrete-filled steel tubular columns (3); wherein

the first concrete sleeper block (1) and the second sleeper block (2) each comprise a top surface provided with at least one embedded bolt sleeve (11, 21), and at least one threaded through hole (12, 22) connecting two ends of the first/second concrete sleeper block along the length of the first/second concrete sleeper block; and both ends of the concrete-filled steel tubular columns are threaded; and

both ends of the plurality of the concrete-filled steel tubular columns (3) are separately screwed into the threaded through holes (12, 22) of the first concrete sleeper block (1) and the second concrete sleeper block (2) and fastened.

2. A twin-block sleeper, comprising a first concrete sleeper block (1) and a second concrete sleeper block (2) configured in pairs, and a plurality of concrete-filled steel tubular columns (3); wherein

the first concrete sleeper block (1) and the second sleeper block (2) each comprise a top surface provided with at least one embedded bolt sleeve (11), and at least one through hole connecting two ends of the first/second concrete sleeper block along the length of the first/second concrete sleeper block; and an inner diameter of the through hole is matched with an outer diameter of the ends of the steel tubular columns; and

both ends of the plurality of the concrete-filled steel tubular columns (3) are separately inserted into the through holes of the first concrete sleeper block (1) and the second concrete sleeper block (2), and the through holes are sealed by mortar.

3. The twin-block sleeper of claim 1 or 2, wherein the first concrete sleeper block (1) and the second concrete sleeper block (2) are both integrally cast by concrete; and a reinforced mesh and a steel stirrup are provided inside the first and second concrete sleeper blocks.

4. The twin-block sleeper of claim 3, wherein both sides of the first concrete sleeper

block (1) and the second concrete sleeper block (2) are provided with an inclination angle of 11: 1 to 7: 1, and the upper corners of the first and second concrete sleeper blocks are chamfered.

5. The twin-block sleeper of claim 1 or 2, wherein the number of the plurality of concrete-filled steel tubular columns (3) is 2 or 3; when the number of the columns is 3, the centers of the circles on the ends of the three concrete-filled steel tubular columns are connected to form an inverted triangle in a section view of the sleepers.

6. The twin-block sleeper of claim 5, wherein a depth of the threaded through hole (12) or the through hole is 708 mm, and an inner diameter thereof is 45 mm.

7. The twin-block sleeper of claim 6, wherein the number of the threaded through hole (12) or the through hole is 2 or 3, and a distance therebetween is 150-180 mm.