WHAT IS CLAIMED IS:

1. A composite frame having an end-embedded girder joint structure, comprising:

a plurality of pre-assembled column assemblies (1), each including a plurality of first main steel section members (11) disposed in a vertical direction at each corner of a column member, and first connecting bars (12) coupled to outer surfaces of the first main steel section members (11) so as to interconnect the first main steel section members (11) neighboring each other;

pre-assembled bracket assemblies (2) disposed in a transverse direction on upper ends of the pre-assembled column assemblies (1), having open upper surface portions, and including four second main steel section members (21) provided in a horizontal direction at left and right sides of the pre-assembled column assemblies (1) at positions spaced apart from each other vertically and protruding to the outside of the pre-assembled column assemblies (1), and second connecting bars (22) for interconnecting the second main steel section members (21) neighboring each other vertically and interconnecting the second main steel section members (21) neighboring each other on the left and right at lower portions;

a girder body (3) installed between the pre-assembled bracket assemblies (2) coupled to the neighboring pre-assembled column assemblies (1), both end portions of the

girder body (3) being inserted into the pre-assembled bracket assemblies (2) so as to overlap the second main steel section members (21) by a predetermined length and be mounted in the pre-assembled bracket assemblies (2); and

concrete poured inside the pre-assembled bracket assemblies (2) so as to cover an outside of the girder body (3) and structurally integrate the girder body (3) with the pre-assembled bracket assemblies (2).

2. The composite frame according to claim 1, wherein a fixing bar (14) is coupled to outer surfaces of the first main steel section members (11) of the pre-assembled column assembly (1) and one side of the fixing bar (14) is fixed to the second main steel section member (21) of the pre-assembled bracket assembly (2) so as to fix the pre-assembled bracket assembly (2) to the pre-assembled column assembly (1).

3. The composite frame according to claim 1, wherein the girder body (3) is a precast concrete (PC) member.

4. The composite frame according to claim 1, wherein the girder body (3) includes a plurality of third main steel section members (31) disposed in a longitudinal direction at each corner of the girder body (3), and third connecting bars (32) coupled to the outer surfaces of the third main steel section members (31) which neighbor each other.

5. The composite frame according to claim 1, wherein upper connecting bars (27) are coupled to the second main

steel section members (21) at upper portions of the pre-assembled bracket assembly (2) so as to interconnect the second main steel section members (21) which neighbor each other.