ABSTRACT

Title of Invention: COMPOSITE BEAM

Provided is a composite beam that uses vertically asymmetric H-beams and can be preferably used for the floor structure of a building. When the composite beam is applied to the floor structure of a building, the deflection of the vertically asymmetric H-beams themselves during a construction process of the floor structure is reduced, so that the total deflection when the floor structure is in service can be reduced.

The composite beam includes: H-beams; and a composite slab including a steel deck disposed on the upper surfaces of the H-beams and concrete poured on the steel deck, and the composite slab and the H-beams form an integral structure. The width of an upper flange of the steel deck is equal to or larger than the width of a lower flange of the steel deck, and the steel deck has a height of from 25 mm to 100 mm inclusive. The ratio At/Ab of the cross-sectional area At of a top flange of each H-beam to the cross-sectional area Ab of its bottom flange is 0.7/1.3 or more and less than 1.0.

(FIG. 1)