

BEAM JOINING STRUCTURE, DESIGNING METHOD OF BEAM JOINING
STRUCTURE, AND MANUFACTURING METHOD OF BEAM JOINING
STRUCTURE

A beam joining structure includes: a first support member and a second support member forming a pair; a beam which is spanned between the first support member and the second support member; a reinforcing member which is disposed to protrude in a direction from the first support member toward the second support member, in which a protruding length x of the reinforcing member from a virtual plane which is perpendicular to a member axis direction of the beam and includes the first joint portion is equal to or more than a first distance and equal to or less than a second distance, the first distance is a distance from the first joint portion to an inflection point at which a bending moment distribution of the beam changes from hogging bending to sagging bending in a case where a two-point concentrated load acts on the beam, and the second distance is, in a case where a two-point concentrated load acts on a reference beam, a distance from the first joint portion to an inflection point at which a bending moment distribution of the reference beam changes from the hogging bending to the sagging bending.

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