

ABSTRACT

A beam-column joint structure (1) has: a column (11) having a column main body (12) formed of an I-beam for columns; and a beam (211B) having an I-beam for beams (212) in which a pair of beam flanges (216) are directly joined to joint plates (16) through welded section (218), when a position where a central axis (O1) of the column main body intersects with a central axis (O2) of the I-beam for beams is defined as an intersect position (P1), a ratio of a full plastic strength of the column to a full plastic strength of the beam at the intersect position is 1.5 or more and 3.0 or less, and a ratio of a full plastic strength of the beam to a full plastic strength of a portion (17a) of a column web (17) at the intersect position is 1.05 or more and 1.5 or less.

FIG. 1