

Abstract

SELF-ALIGNING CONNECTION SYSTEM FOR STEEL MODULAR INTEGRATED CONSTRUCTION (MiC)

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A connection system for steel modular construction includes a connection plate configured to attach across two adjacent steel modules in a first storey of a multi-storey structure (horizontal connection). Two or more projections extend in an upward direction through the connection plate. Each of the projections includes a central aperture to receive a fastener for attaching one
10 of the two adjacent steel modules to an upper steel module to provide the required tension resistance in the vertical direction. A complementary receiving surface includes a central receiving surface aperture for receiving a fastener and centers and aligns the projection. In this manner, the same fastener can pass through both the projection and receiving surface apertures, thereby ensuring accurate alignment between the upper steel module and one of the two first-
15 storey adjacent steel modules (vertical connection).

(FIG. 13(a))