

Abstract**PREFABRICATED MODULE INTERCONNECTION FOR MODULAR BUILDING**

5 An attachment between adjacent concrete-based prefabricated modules in a single
storey of a multi-storey modular building is provided. A first concrete-based prefabricated
module includes at least two vertical walls and at least a ceiling or a floor. A plurality of first
reinforcing attachment members is connected to a first vertical wall including periodic
projections extending from the first vertical wall. The second module similarly includes at
10 least two vertical walls, ceiling or floor, and attachment members. The first prefabricated
module and the second prefabricated module are positioned adjacent to one another such that
the first attachment member periodic projections face the second attachment member periodic
projections. A tie assembly engages the first and second attachment member periodic
projections. In-situ cast concrete embeds the first and second attachment members and fills a
15 space between the first module first vertical wall and the second module second vertical wall.

(Fig. 2)