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MODULAR BUILDING CONNECTIONS: A REVIEW

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ABSTRACT

Recently the development of inter-module connections (IMCs) for steel modular building systems (MBSs) has gained traction with many researchers and engineers being in pursuit of universally performant connection systems. While numerous studies reviewed IMCs for hot-rolled steel MBSs, most of them focused on a limited number of connections and were inconsistent in naming conventions and classification methods, posing a challenge for the development of new and meaningful connections. The present study aims to provide a harmonised overview of the existing literature by proposing a unified nomenclature and a systematic classification based on the method of joining. A multi-attribute ranking system was developed and employed to identify “must-have” features for the development of future designs and key areas of improvement for existing configurations, serving as a useful decision-making tool for both researchers and practitioners concerned with this topic.