

Article

Experimental Study of the Seismic Behavior of a Prefabricated Low-Rise Steel Frame Structure with Hinged Joints

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Abstract: This paper investigated the seismic behavior of a prefabricated steel braced frame structure with hinged joints. Six steel frame specimens with different enclosure walls were tested under pseudo-static loading. The results indicated that the vertical load of the hinged braced frame system was mainly resisted by the beam and column members, and the lateral stiffness was completely provided by the bracing members. The final failure mode of all specimens was the failure of the bracings, while the beam-column members and the joints remained largely intact. The rigidly braced specimen was mainly damaged by buckling, yielding, and tearing, and the flexibly braced specimen was mostly damaged by buckling, yielding, and node failure. The energy dissipation of the specimens primarily depended on lateral force-resistant components such as braces and enclosure walls. Different building envelopes exert significant effects on the lateral stiffness and energy dissipation capacity of the structure. The ductility coefficient of all specimens ranged between 1.4 and 1.9, which indicates that the structural system mainly relies on lateral stiffness and elastic deformation to resist earthquakes, rather than structural ductility. The proposed prefabricated steel frame system with hinged connections has wide prospects of application in economically underdeveloped areas because of its convenience in transportation and installation.

Keywords: steel frame; hinged joint; seismic behavior; experimental study; enclosure wall



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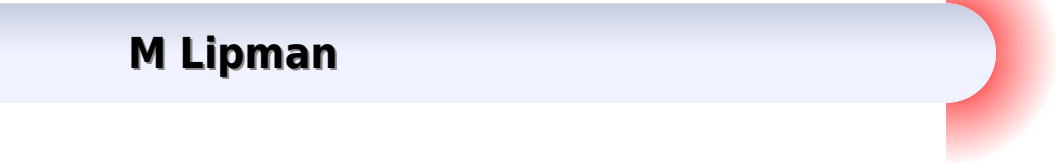
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1. Introduction

The assembled steel frame structure system adopts a standardized design, factory production, and onsite assembly construction, thereby offering the advantages of good seismic performance, fast construction speed, low carbon emissions, and green environmental protection [1]. The assembled steel frame structure is part of the innovative steel structures supported by the Chinese government and conforms to the development requirements relating to the modernization of the construction industry. The steel frame structures can be divided by beam-to-column connections into steel frames with rigid connections, semi-rigid connections, and flexible (hinged) connections. Such classification is based on the relative rotation between the adjacent beams and columns and the ability of bending moment transfer [2,3]. Great effort has been made to identify the behavior of rigid and semi-rigid steel frames by experimental tests [4–9]. However, research on flexible (hinged) beam-to-column connections was limited [5,10]. The current research regarding hinged beam-to-column connections has been focused on an innovative hinged joint as an earthquake-resilient joint. Khoo et al. [11] conducted an experimental study on a self-centering sliding hinge joint subassembly, and a simple mathematical model of the rotational behavior of the joint was developed. Wei et al. [12] developed a novel double-hinge steel frame joint, and the design process was proposed. Zheng et al. [13] examined the performance of a new type of steel energy-dissipating hinge through experiments and numerical simulations.

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