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for perforated steel beams as shown in Fig. 1(a). Vierendeel

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mechanism is caused the failure due to the formation of four plastic hinges in the top and bottom tees as shown in Fig.1(b). The shear force, which transfers across the opening, causes some secondary moments (Vierendeel bending) in the top and bottom tee sections as shown in Fig. 1(c).

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studies, the stress distribution in perforated sections under Vierendeel failure indicates shear yielding in the web of top and bottom Tee sections, and this promotes the formation of plastic hinges. Furthermore, the critical section location varies depending on the moment-shear-interaction.

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