

Vierendeel Bending Study Of Perforated Steel Beams With

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

Design Equations for Vierendeel Bending of Steel Beams ...

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(PDF) Vierendeel Bending Study of Perforated Steel Beams ... When a perforated steel beam is subjected to shear, the tee-sections above and below the web openings must carry the applied shear as well as the primary and secondary moments.

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According to these 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.

Novel simplified equations for Vierendeel design of beams ...

Vierendeel bending is caused by the need to transfer the shear force across the web openings to be consistent with the rate of change of the bending moment along the beam, and it is the most dominant failure mode of perforated beams with isolated large web openings.

Optimisation of novel elliptically-based web opening ...

Vierendeel Bending Study of Perforated Steel Beams with Various Novel Shapes of Web Openings, through Non-Linear Finite Element Analyses. Journal of Structural Engineering (ASCE) , 138(10), pp. 1214–1230.