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Web crippling behaviour and
design of cold-formed steel ...
Abstract Cold-formed steel beams
are increasingly used as floor
joists and bearers in buildings.

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Their behaviour and moment capacities are influenced by lateral – torsional buckling when they are not laterally restrained adequately. Past research on lateral – torsional buckling has concentrated on hot-rolled steel beams.

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The main differences in behaviour may be seen when the carrying load reaches the inelastic behavioural stage. By increasing the steel grade, column represents

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typical load-strain response but it is shifted upwards. Generally, the transition around the ultimate load of the column becomes sharper when the yield strength of the used steel increases.

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concrete-filled steel...

Riveted joints are very rare in modern steel construction

practice. The behaviour and design of riveted connections are very similar to bearing type of bolted constructions. Since structural rivets are driven hot, the rivet

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shank expands to fill the hole while
being driven.

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“ Seismic Behavior and Design of
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Asl, SEAONC Seminar, November

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2001, San Francisco. 2 of 18 Some of the advantages of using steel plate shear wall to resist lateral loads are: 1. The system, designed and detailed properly is very ductile and has relatively large energy dissipation capability.

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Seismic Behavior and Design of
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