



DURA FUSE
FRAMES

◆ Resiliency

The bottom fuse plates
in DuraFuse Frames
protect the beams
and columns and are
the only parts to be
replaced after a severe
earthquake.



IAPMO UES ER 610

INNOVATIVE MOMENT FRAMES

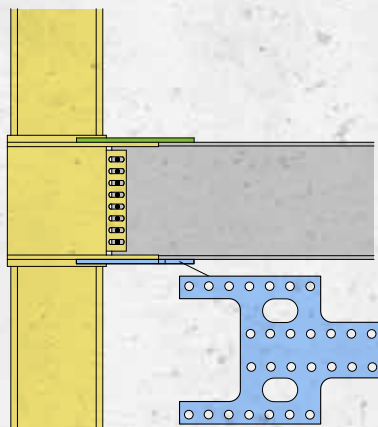
Innovative Moment Frames

DuraFuse Frames are innovative steel moment frames for resisting wind and earthquake forces. This frame design uses replaceable fuse plates to protect beams and columns, making buildings more resilient to severe earthquakes. **DuraFuse Frames** provide economic seismic protection and industry-leading resilience that are easy to incorporate, fast to install, and commercially competitive.

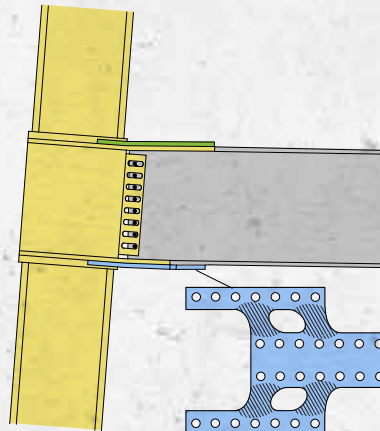


How DuraFuse Frames Work

The fully rigid connections are undamaged for wind and most earthquakes.



During severe earthquakes, deformations are accommodated by bolt slip and shear yielding of fuse plate.



Resiliency

Other moment frames are designed to sacrifice the beams during severe earthquakes, making them difficult to repair.

The fuse plates in **DuraFuse Frames** protect the beams and the columns and can be replaced after a severe earthquake.





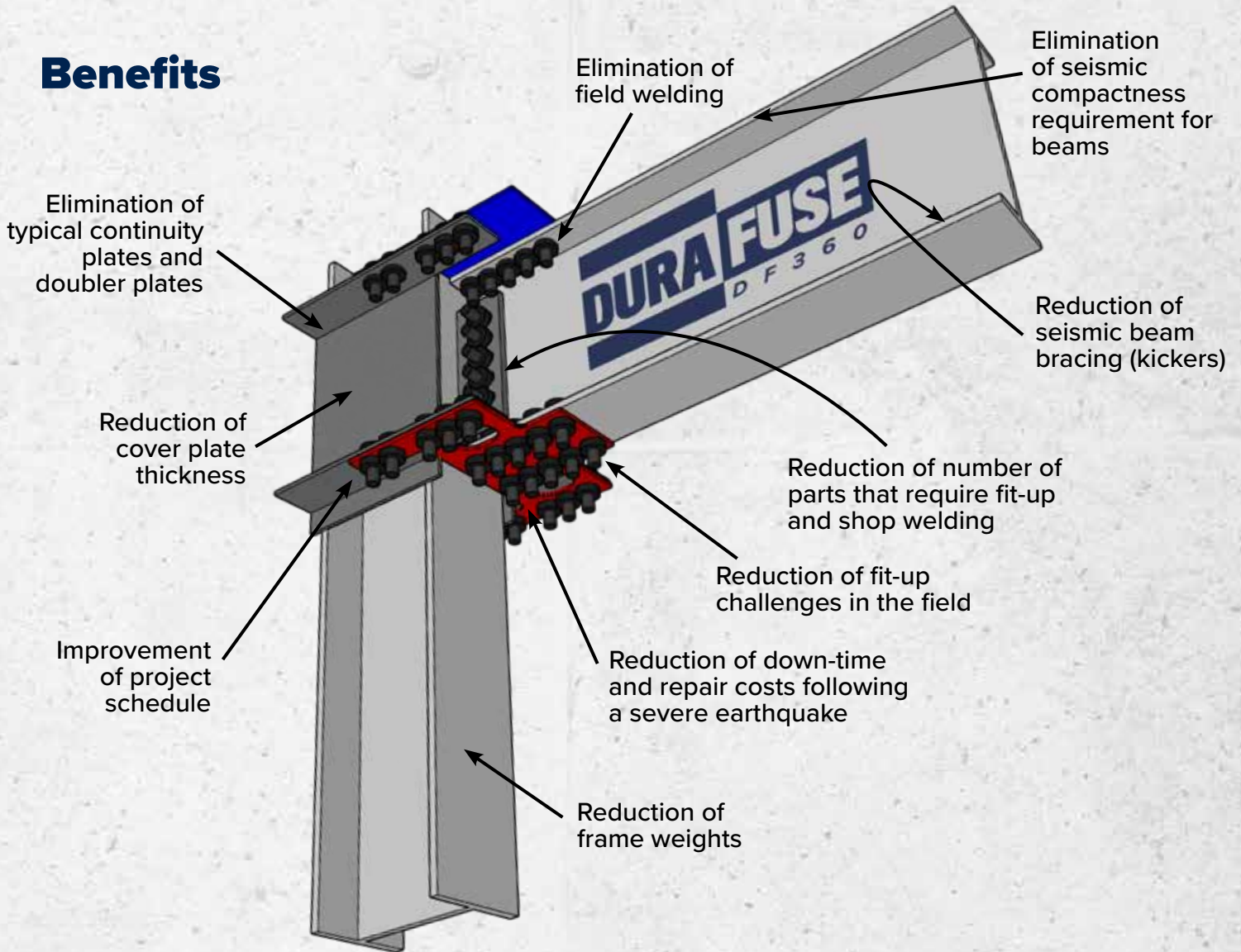
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DURA FUSE

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Benefits

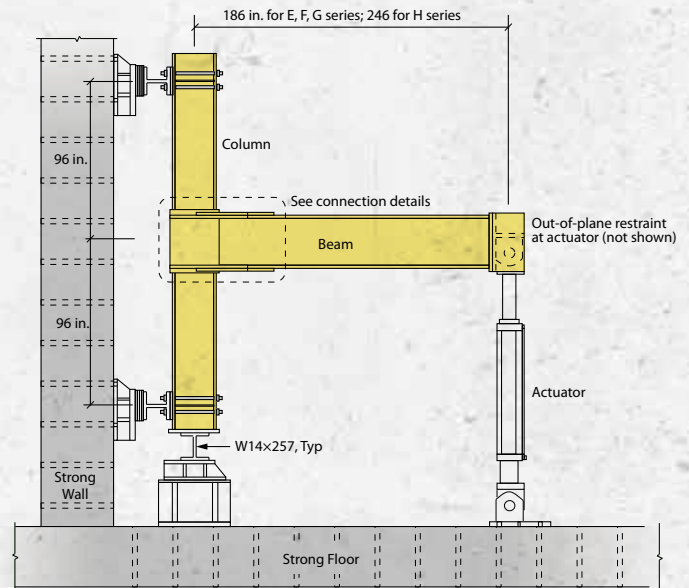


Testing and Qualification

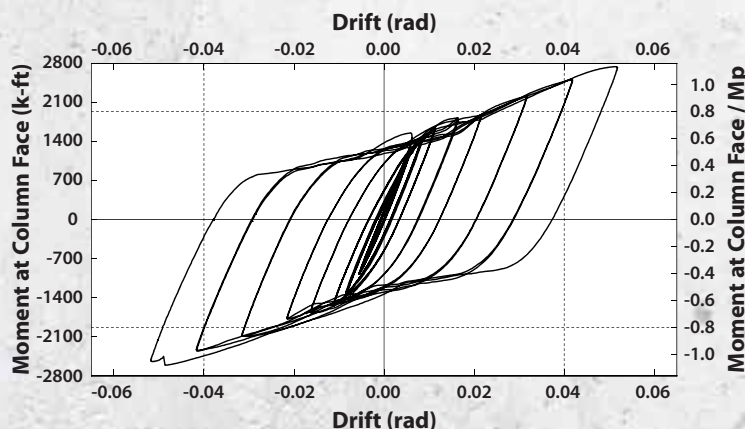
DuraFuse Frames are among the most thoroughly tested moment frames available. **DuraFuse Frames** are prequalified for typical beam and column sizes per Chapter K of the AISC Seismic Provisions.

More than twenty full-scale tests have been performed at multiple laboratories, including nine at the University of California, San Diego (UCSD). Beam sizes ranging from W21x to 40x have been investigated.

Tests confirm the fuse plates can accommodate inelastic rotation demands that are well beyond the requirements for special moment frames, without sacrificing the beam. Test reports available upon request.

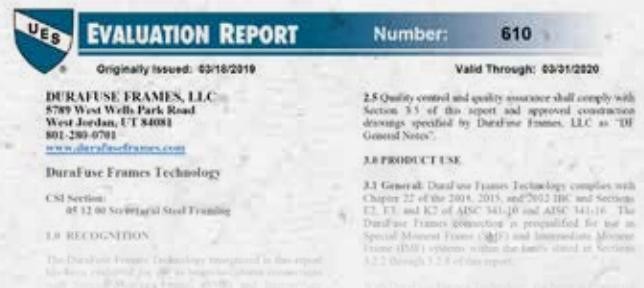


No beam damage at large drifts



Similar hysteretic behavior to other bolted moment connections

Ready for Use



DuraFuse Frames are prequalified for beams up to 40 inches deep and 309 lbs/ft with columns up to 36 inches deep. IBC Compliance is certified by UES Evaluation Report Number 610.



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