

DURA FUSE

FRAMES

THE RESILIENT SEISMIC SOLUTION

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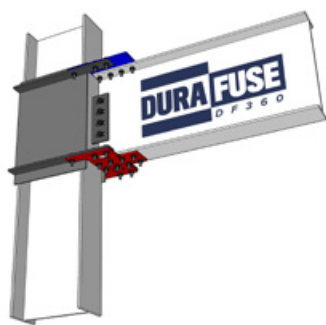
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PRODUCT GUIDE

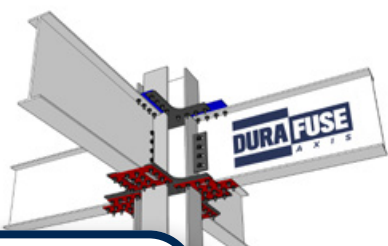
All great projects begin with the right products and become the foundation for the entire structure lifecycle. DuraFuse Frames offers products to meet the needs of any project. Let us assist you in your strategy to achieve the highest outcome for your project goals.

DuraFuse Frames products are unique seismic protection systems preventing beam and column damage while also offering reparability. Our team of highly specialized engineers, project managers, and support staff are dedicated to providing professional, timely, and responsive service.



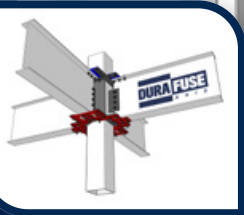
DF360, the original and most-widely used DuraFuse connection system, is the ideal moment-frame solution for all building types in higher Seismic Design Categories making our frames the most versatile SMF/IMF system on the market.

DuraFuse Frames are fully compliant with the performance requirements in the Seismic Provisions for Structural Steel Buildings (AISC 341) with code approval from IAPMO UES ER 610 including 2018 IBC, 2019 CBC, and LA Supplement. **DF360** instant benefits include overall cost savings, elimination of seismic bracing, smaller protected zones, larger open spaces, and outstanding resilience and fragility curves as well as erection/fabrication time and cost savings advantages.

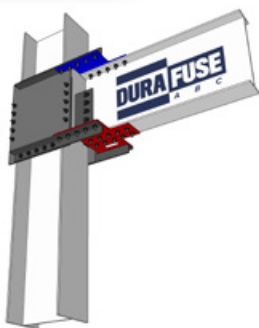


The **Axis** is a powerful variant of our DF360 model, offering biaxial moment configurations with the same performance characteristics and economic advantages. Like DF360, **Axis** can be applied to WF, HSS, built-up, and CFT configurations.

It offers maximum utilization of frame stiffness in both column directions and ideally accommodates high seismic performance requirements where implementation of strong-column-axis planar frames is not possible due to architectural, structural, or other functional constraints. Resources complementing the product are the design and field services including frame optimization, sealed and signed connection design package, and contractor/fabrication/erection coordination services among others.



ABC is the latest in the series of DuraFuse Frames patent-protected seismic connection technologies. Where even shop welding is not desirable or logistically possible, **ABC** provides an all-bolted option of configuring a superior moment connection that offers all the performance advantages of DF360 over other SMF/IMF systems. As with other DuraFuse Frame offerings, resources complementing the product are the design and field services including frame optimization, sealed and signed connection design package, and contractor/fabrication/erection coordination services among others.



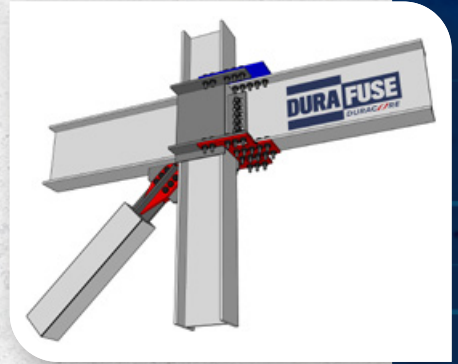
EZFrame is our modular pre-assembled bracing frame product facilitating retrofit and cold-formed steel and wood mid-rise light frame applications. **EZFrame(B)** employs buckling-restrained braces, while **EZFRAME(M)** employs DuraFuse

Frame moment connections in Arrow or DF360 configurations where the presence of braces is not architecturally or functionally possible. The **EZFrame** system is possible with HSS built-up or wide-flange shapes. **EZFrame** comes in portal or self-reacting configurations and is completely customizable for any project needs. Suitable for any fabricator and any project, **EZFrame** comes with sealed and signed connection design package along with fabrication coordination services.





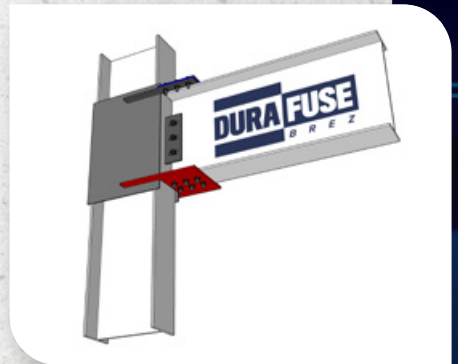
DuraFuse Frames and CoreBrace have teamed up to deliver a compelling solution for hybrid and dual-system applications of moment and braced frames in high-seismic applications. A powerful alternative to any competing dual system, **DuraCore** provides advanced optimization and performance characteristics. The buckling restrained braced frame component of the system comes in either CBF or EBF configuration; whereas, the moment frame can incorporate any of the seismic varieties of the DF system as dictated by the specific project requirement. The **DuraCore** product is a powerful tool in seismic and service drift control, and it exhibits great efficiencies particularly in tall building applications. Resources complementing the product are the design and field services including frame optimization, sealed and signed connection design package, and contractor/fabrication/erection coordination services among others.



The DuraFuse **Arrow** system provides a narrow configuration for exiguous projects. **Arrow** is a powerful variant of our DF360 and Axis products allowing for the superior energy dissipation characteristics within tight lateral constraints. Arrow retains the same mechanistic of fuse shear yielding, except in a modified geometric configuration that necessitates smaller connection width. Resources complementing the product are the design and field services including frame optimization, sealed and signed connection design package, and contractor/fabrication/erection coordination services among others.



BREZ is a specialty customized system for moment frames not required to meet SMF/IMF performance requirements. **BREZ** unlocks the full potential of DuraFuse Frames constructability, economy, and performance without the additional qualification and seismic performance requirements of ANSI/AISC 341. This is an ideal and economic solution for low to moderate seismic moment frames in R=3 applications for controlling wind drift, framing cantilevers, or efficiently creating large clear span. **BREZ** can be structured in either DF360 or Axis arrangement, depending on the project circumstances. Resources complementing the product are the design and field services including frame optimization, sealed and signed connection design package, and contractor/fabrication/erection coordination services among others.



The DuraFuse **PRIME** system is the perfect seismic solution for pre-engineered metal buildings. A customized version of DF360, DuraFuse **PRIME** enables implementation of SMF/IMF metal building frames in high Seismic Design Categories past traditional ASCE 7 Seismic force Resisting System height and number of stories limitations while retaining the simplicity of a fully bolted connection, easily installed in the field. Complementing PRIME in a metal building system are also DF360 and Arrow, as appropriate, when used in portal-frame bracing applications. **PRIME** is available to any metal building manufacturer under a single-use, time-limited, or a perpetual license. Assistance with design automation will be provided as well.





IAPMO UES ER 610



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