

DriftReady™ Stairs



DriftReady Stairs move with the building; instead of acting like a brace and transferring damaging forces back to the building, the system flexes and accommodates the movement without impacting the stair connection or the surrounding structure. Typical stairs with fixed connections, bolted or welded, inadvertently create a rigid column which can disrupt how the structure was engineered to accommodate seismic movement and interstory drift.

Features

- Prefabricated off-site
- Seismically resilient stair system
- Flexible connectors allow relatively free movement between stair tread assembly and landing during rotation and transverse movements
- Ensures vertical load carrying capacity

Benefits

- Offers a safe solution for occupant and first responder egress and ingress during and after a seismic event
- Tested to allow up to 4% interstory drifts without impacting the stair or surrounding structure
- Protects stairs from connection failures observed in previous earthquakes
- Reduces the transfer of damaging force back into the structure itself

Applications

- Multi-story projects in seismic areas
- High-rise projects susceptible to inter-story drift from wind loads
- Egress stairs
- Entrances
- Offices
- Multi-family apartments
- Industrial

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Product Details

CS has designed, developed, and tested solutions in collaboration with Seismic Isolation Engineering (SIE) to reduce and eliminate the unintended consequences conventional stair systems impose to structures during a seismic event, such as:

- Transfer of forces to unprotected areas of a structure
- Connection failures
- Compromised egress/evacuation routes
- Jeopardized life safety of occupants & EMS services post-earthquake

Finish Options

- Primer finish – interior
- Galvanized – exterior

Railings

- Half inch (½") picket (standard) or wire mesh infill with a 1½" top and bottom rail and posts. Custom railing available.

Certifications

- 2 shake table testing programs at the Earthquake Engineering Laboratory at the University of Nevada, Reno.

Warranty

- One-Year Product Warranty