

Stainless steel is a key structural ally...

in the event of earthquakes

An earthquake subjects a building to cyclic loading and large deformations. To survive, the structure must not only be strong but also capable of adapting and dissipating energy.

3 Technical reasons why stainless steel makes the difference:

- **Strain hardening:** upon plastic deformation, stainless steel increases its strength. This generates an extra "safety reserve," vital for preventing collapse during violent shaking.
- **Excellent energy dissipation:** Its high ductility (especially in the 300 series) allows it to absorb the seismic impact through large deformations without fracturing.
- **Guaranteed integrity:** thanks to its corrosion resistance, it ensures that the load-bearing capacity of the structure remains intact throughout its entire service life (50-100 years).

Stainless steel transforms the destructive energy of an earthquake into controlled deformation, ensuring safety when it matters most.



[Download image](#)

Discover the full analysis in Technical Document DT-03 on our website. [[/export/sites/cedinox/.galleries/publicaciones-tecnicas/DT-03-Key-structural-ally-in-seismic-events.pdf](#)]