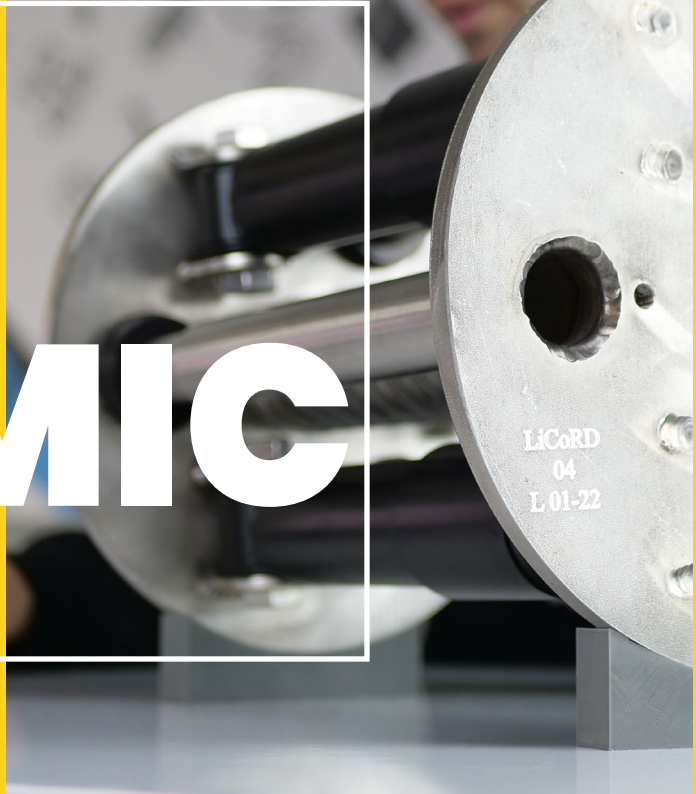




THE ANTI SEISMIC DEVICE



The out-of-plane of masonry walls is one of the most frequent and dangerous effect of seismic events and should be prevented with priority trying to create the so called "box behavior".

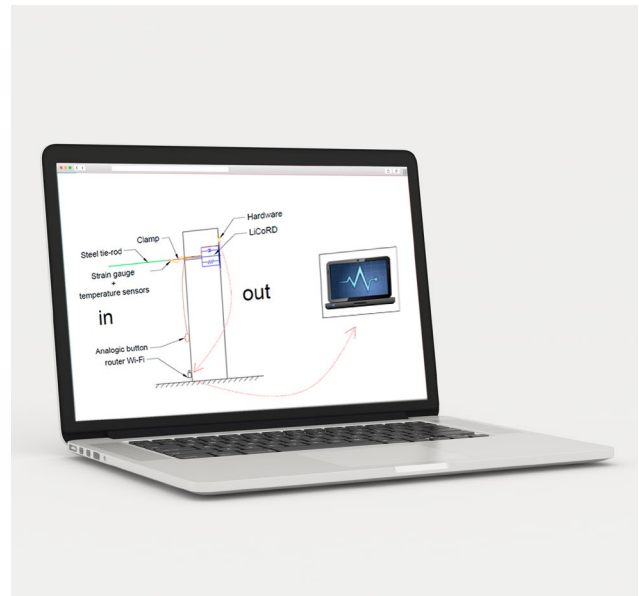
LiCoRD (Linear Controlled Rocking Device) is the first anti-seismic device patented to control the out-of-plane rocking motion of masonry walls. LiCoRD is a low-invasive system, connected to the extremities of the tie-rod.

The solution combines the traditional restraint solution of steel ties with modern shock absorbers, coupled to linear springs, capable of dissipating the seismic energy given by the earthquake, controlling the force acting on the tie, and preventing the collapse of the wall.

THE MONITORING SYSTEM

- Monitoring of the health state of the building
- Axial force and temperature on the tie
- Wi-Fi technology
- Specific online platform with cloud storage
- Easy elaboration and export of data
- Alert system

The monitoring system is capable of transform a mechanical system to a "SMART" system. It is possible to read axial force on the steel tie and the temperature on the device, as well as the environmental temperature. All sensors transmit the signal periodically, thanks to the WIFI technology to a remote database (Cloud) thanks to a specific software. This is basically an online platform that receives all data and elaborate graphs and datasheets easy to export and download. An alert system can also be set in order to warn the user in case of any emergency.



THE CALCULATION SOFTWARE



- Licord provides technical assistance for the design of the intervention in order to define the number of devices and their location within the building.
- The specific calculation software allows to perform linear and nonlinear kinematic analysis, useful for the assessment and design of the anti-seismic intervention.
- Licord calculation software is user-friendly and distributed free of charge for designer in order to perform the seismic structural verifications according to the national standard NTC2018 (Norme Tecniche per le Costruzioni).
- The software allows for the following mechanisms:
 - Simple overturning (at the ground and floor level)
 - Vertical bending (at the ground and floor level)
- Starting with the few input data (geometry, load, seismic spectrum), the program automatically perform the analysis and produce a short final report.

SERVICE AND TECHNICAL SOLUTIONS

- ▣ Technical assistance
- ▣ Software and support
- ▣ Installation and maintenance support
- ▣ Monitoring plan support
- ▣ Customer service

Licord supports the client in all project phases.







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