# Seismic behavior of a repaired model of a low-quality confined masonry

**Responsible researcher:** Daniel Quiun
**Research assistant:** Damián Huamán

Civil Engineering

---

In our country, earthquakes affect houses built on an informal basis dramatically. For this research, a basic module of side 3m and height 3m, made with low resistance materials (brick, concrete) was constructed which is built with low-quality specifications to simulate informal structures.

The model underwent a test of seismic simulation on the vibrating table of the Structures Laboratory at *Pontificia Universidad Católica del Perú* which various confined masonry wall cracks appeared at the end. Then, the structure was repaired using electro welded mesh nailed to the walls in order to study the seismic behavior of the repaired module and assess the repair technique.

The result was that the repaired module resists all phases of seismic simulation of the original one without showing any crack. Besides, more severe movements were even undergone without causing damage and demonstrating the great effectiveness of said repair.