

Earthquake resistant housing in Peru

Intermediate Technology - UCL CEGE Peru 2009



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Building in PartnershipEarthquake resistant housing in Peru

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Peru: Earquake resistant houses made from adobe

Learn more View pictures of our volunteers in Peru. Dr Christian Málaga Chuquitaype, from the Department of Civil and Environmental Engineering, who is one of the lead researchers on this project, is very familiar with this type of construction method in his home country of Peru. EARTHQUAKE RESISTANT BUILDING CONSTRUCTION WITH REINFORCED HOLLOW CONCRETE BLOCK RHCMB Reinforced hollow concrete blocks are designed both as load-bearing walls for gravity loads and also as shear walls for lateral seismic loads, to safely withstand the earthquakes.

Peru Project 2012

Any kind of small hand tools could be helpful to bring, like tape measures with both inches and metric. Traditionally, a quincha house would have a round pole set directly in the ground; in filled with smaller wooden poles and interwoven to form a matrix, which is then plastered with one or more layers of earth. The studies revealed that building with band at lintel level and one at plinth level improves load carrying of building to earthquake tremendously.

Seismic Vulnerability of Peruvian Houses: Current Issues and Solution Attempts

Currently, Peru is a country where 44 percent of its people live below the poverty line and over 70 percent of the rural population live in homes with dirt floors. Further the connections between beams and columns, columns and foundations should not fail so that beams can safely transfer forces to columns and columns to foundations.

Earthquake

Standard clay and lime plastering is applied over the netting and the earthquake safety of the building is greatly improved as compared with the traditional technology.

Related Books

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