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U.S. researchers design tsunami-resistant

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BOSTON (Reuters) - U.S. researchers have designed a house they say is better able to withstand a tidal wave and are planning to build 1,000 of them in Sri Lanka, one of the countries hit by last year's deadly tsunami.

Carlo Ratti, a teacher at the Massachusetts Institute of Technology, was at a wedding in Sri Lanka when the tsunami struck the region last December. When he returned to MIT, he worked on the design of the "tsunami-safe(r) house" with colleagues at his school, Harvard University and British engineering firm Buro Happold.

"The goal was low-tech construction with high-tech design," Ratti, a civil engineer who heads MIT's SENSEable City Laboratory, told Reuters on Thursday.

"We came up with a design that is five times stronger than traditional (Sri Lankan) houses."

SENSEable and the Prajnopaya Foundation, a Buddhist nonprofit group, plan to build about 1,000 of the houses in Sri Lanka. Using the same type of materials typically used in the construction of traditional Sri Lankan homes, the more robust structures consist of four reinforced concrete pillars supporting a tin or tile roof.

The open design is stronger, Ratti said, because it would not block the flow of water were another tsunami to hit.

"Four small cores are stronger than a big one," he said.

The tsunami killed more than 180,000 people throughout dead or presumed dead in Sri Lanka.	Asia, with nearly 40,000			
It devastated much of the island's coast and 100,000 people shelters nearly five months later.	still live in makeshift			
"The problem in Sri Lanka is the government wants coast further inland," Ratti said.	to relocate people from the			
"This would come at a huge social, cultural, environmental the aim of this project is to investigate technological safety at lower cost," he said.	and economic cost. So Il strategies that could guarantee			
Each house would cost between \$1,000 and \$1,500 to build.				
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