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BAMBOO AS AN ALTERNATIVE FOR REINFORCEMENT BARS IN CONCRETE BEAMS

For our senior experimental project, bamboo was utilized as reinforcement for concrete. The goal was to test bamboo as an alternative to steel for reinforcement bars in concrete. WeBar experimented with both different cuts of bamboo and with adhesives to determine bamboo's most ideal use as a replacement for steel rebar. WeBar elected to test for 1) whether or not bamboo is even effective in concrete as opposed to no reinforcement at all and 2) whether having prismatic cuts on the bamboo and applying adhesive onto the bamboo would have any effect with regards to more bonding between the bamboo rebar and the concrete and ultimately a higher capacity.

