STACK 'N LOCK! SL527

STACK 'N LOCK! | The Reusable Column

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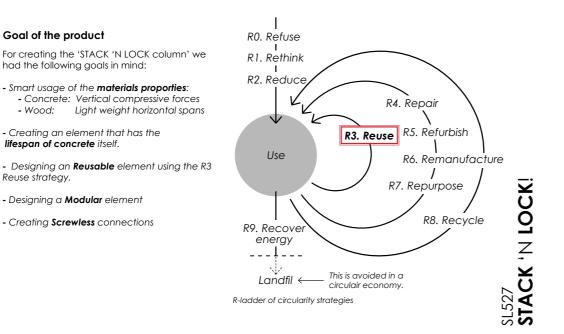
- Wood:

Reuse strategy.

In todays society the need for temporary, sustainable and modular buildings is increasing. Concrete may not seem the obvious material for this challenge.

However, sustainabe concrete structures are defined by the way concrete is utilized. Traditional on-site concrete pouring methods result in demolition of the material when the building goes out of use, what, ofcourse, is a super unsustainable process.

Therefore we decided to design an element what can be reused after the building it's applied in goes out of use. The result we came up with are multiple concrete elements that can be stacked on top of eachother forming a reusable column that will last as long as the lifespan of concrete.







45° Configuration

Within the design of the concrete element

there is the posibility to rotate the following element on top with 45°.

This gives the opportunity to attach beams diagonally to the collumn aswell.

Filling pieces

When a beam is not slid into one of the 4 slots, this slot will be filled with a wooden filling piece.



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These filling pieces can be used to mount an aditional subconstruction to the column, so that there is no need to have to make holes in the reusable concrete elements.

Stacking and Locking

When the concrete elements are stacked on top of eachother, they can be locked to eachother with a wooden pin

Hereby the collumn is resistant against vertical forces (wind).