

30+ Images Showing RCC Concrete Column Failure!

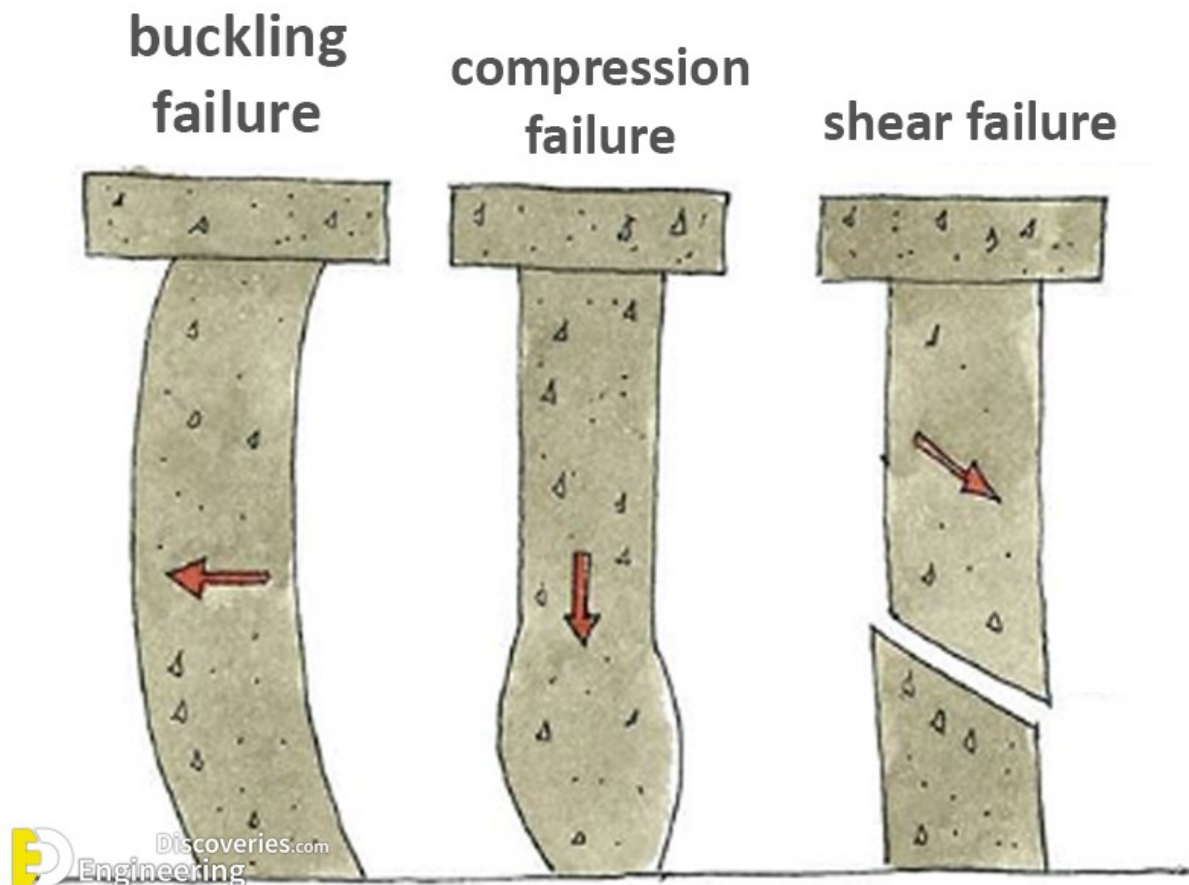
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February 11, 2023



We know generally, Columns are axially loaded members in the structure. It carries compression force due to the gravity loads of the structure. Column fails for different reasons. There are mainly three types of failures that occur in columns.

Types of Column Failure



Compressive Failure

Compressive failure is a failure that occurs due to developed compressive stress more than allowable stress. It occurs for the material itself crushing or yielding not the column. Shorter and wider column normally fails under compression failure.

Three factors are responsible for this issue. Number one is loading, number two is compressive strength, and number three is the cross-sectional area of the column.

Buckling Failure


Buckling failure occurs in a long column (slender columns) where the columns displace laterally or horizontally. Increasing the slenderness of the column decreases load-carrying capacity in such a way that the column tends to buckle laterally or horizontally at the mid-zone of its length

Shear Failure

Shear force tends to produce sliding failure on a material along a plane that is parallel or slightly parallel (diagonal) to the direction of the force. When the shear force exceeds the shear capacity of the column then this failure occurs.

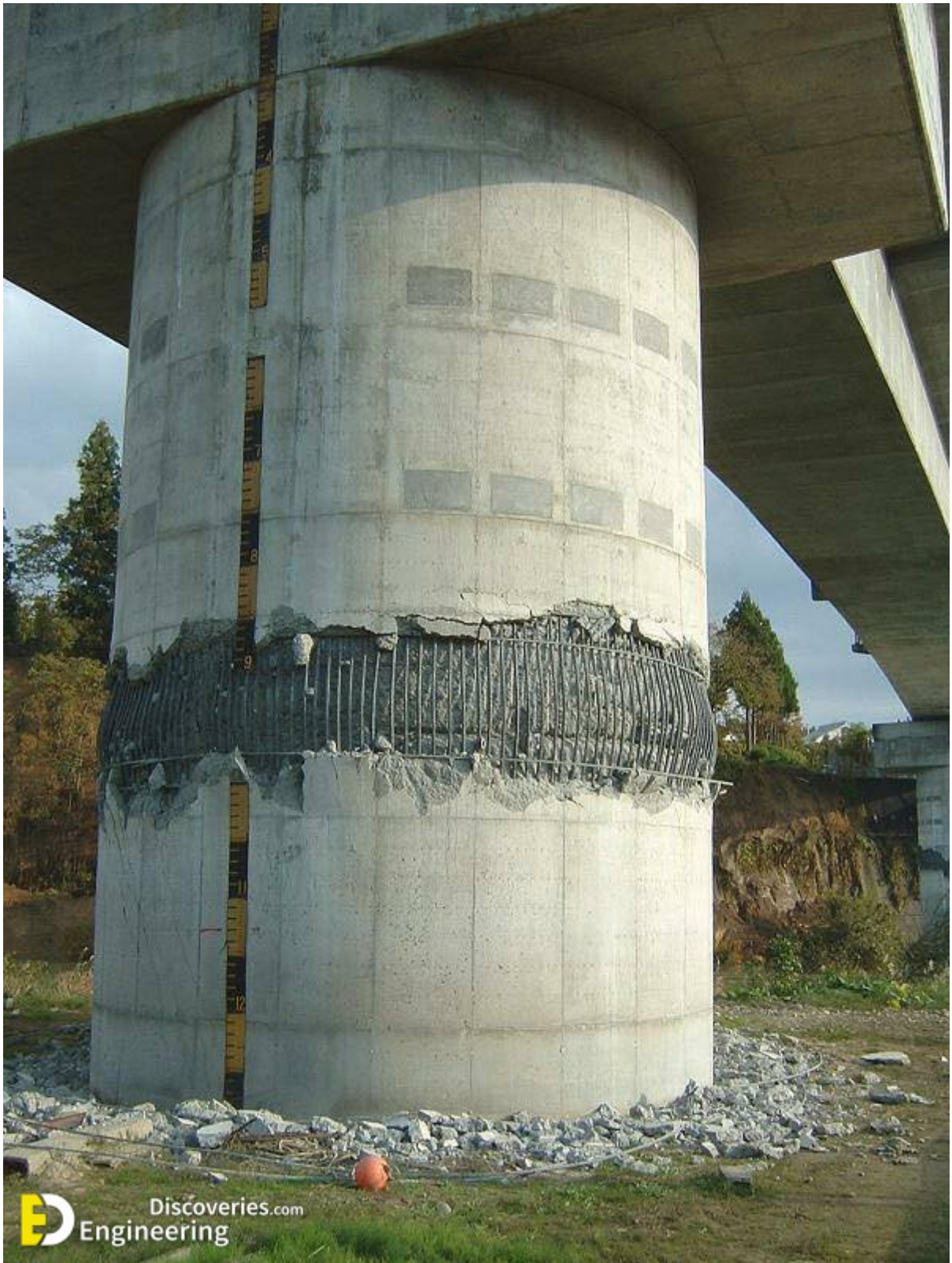
[Click Here To See How To Calculate The Load Carrying Capacity Of A Column | Design Of RCC Column](#)

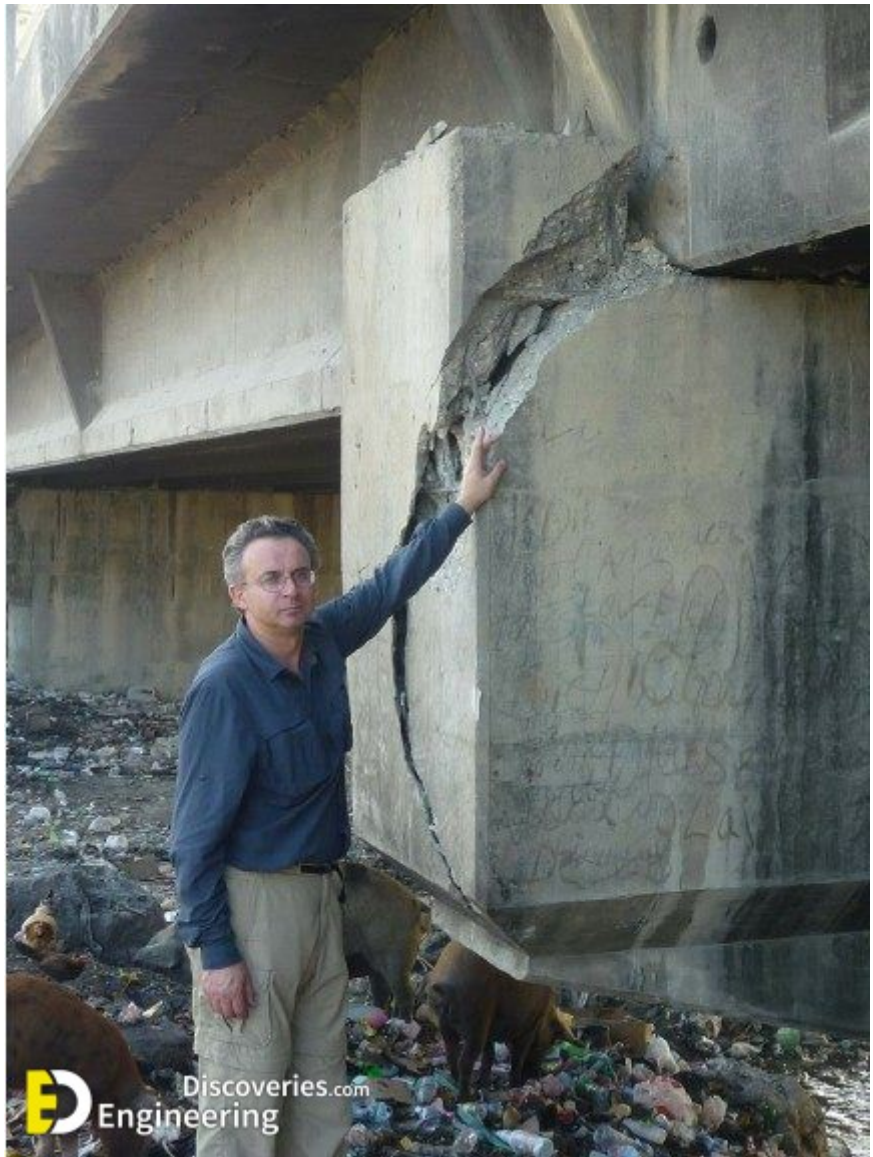


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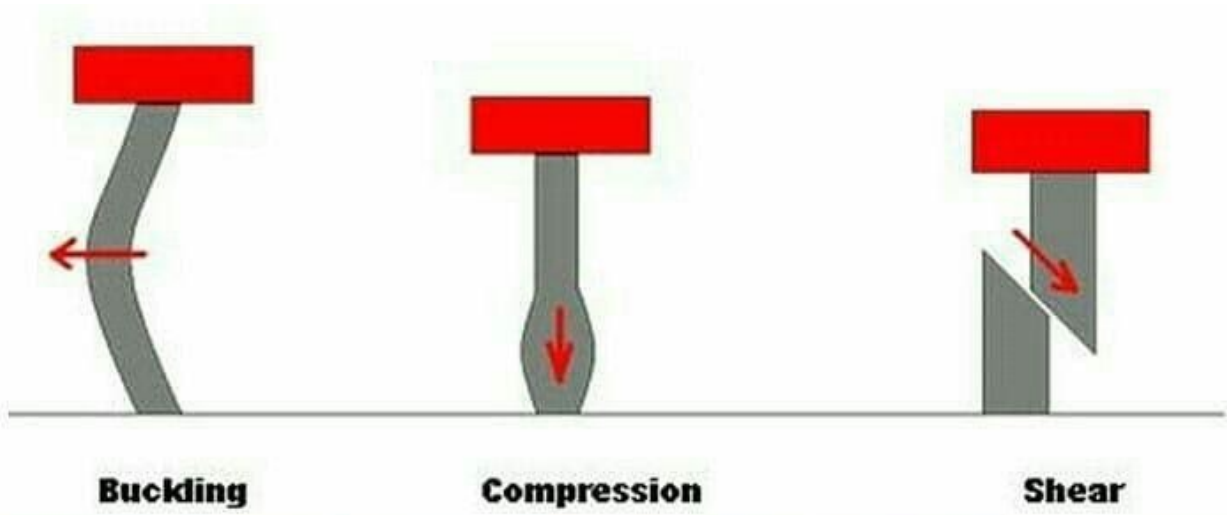


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