

Types of Forces	
Forces on a structure can be classified into two categories, "live loads" and "dead loads."	
Live Load	Forces that change, not part of the structure
Dead Load	Force that does not change
What would be a live load on a bridge? A dead load?	
When a force is applied on a structure, it causes forces in the structure.	
External Forces	Forces applied on a structure.
Internal Forces	Forces present inside the material of the structure.
An external force, such as a car driving on a road, causes an internal force within the object, i.e, forces between the particles of pavement.	





## Compression

**Compression Force** 

A force that compacts or squeezes a material.

Compression Strength

A measure of the largest compression force that a material can withstand before changing shape or breaking apart.



## Torsion

**Torsion Force** 

Torsion Strength

A force that acts on a material by twisting its ends in opposite directions.

A measure of the largest torsion force that a material can withstand and still be able to return to its original shape.





