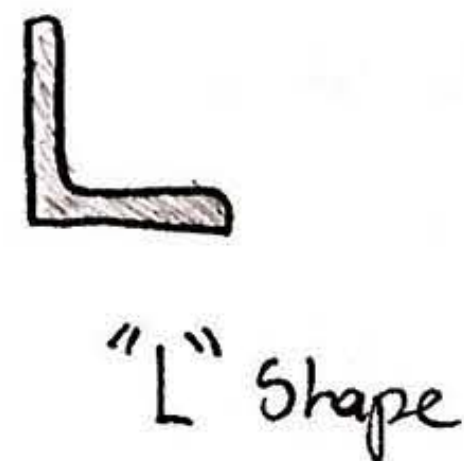
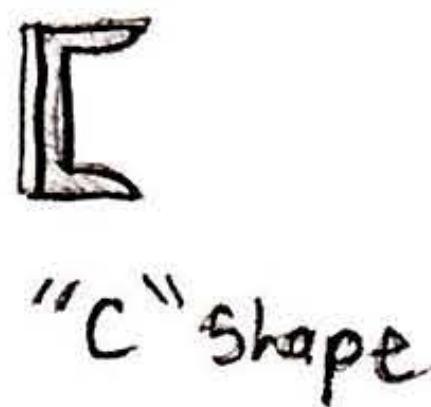
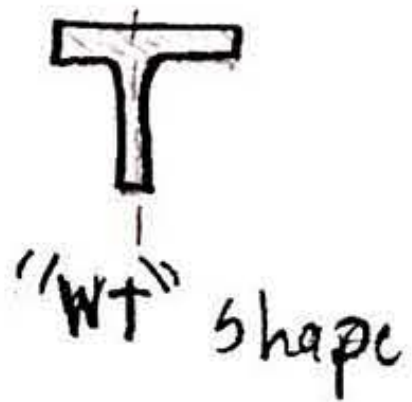
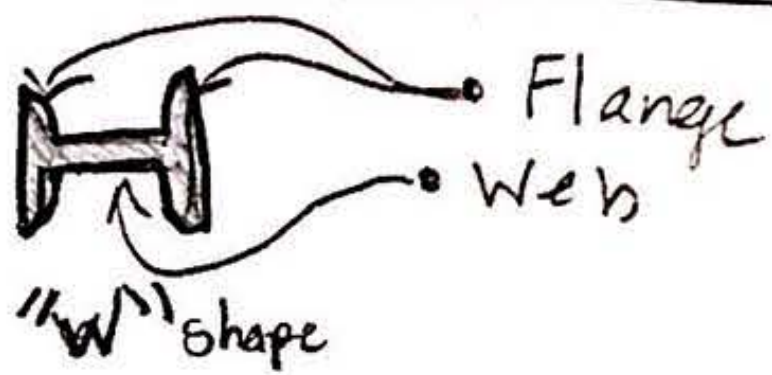


Notes on Steel

- Steels range of strength in tension is 23,000 - 43,000PSI
- Steel has defined a new type of spacial character. It allows high levels of transparency.
- Buildings are able to be more open.
- Steels early use was mainly for weapons it was rare and cost alot.
- Steel is an iron alloy
- Cast iron = hard brittle materials
- hard iron = malleable.
- by using steel for the structure of buildings this allows the use of more glass.
- Steel is good at compression and tension but steel cable which is used on bridges and other structures is ~~not~~ weak in compression.

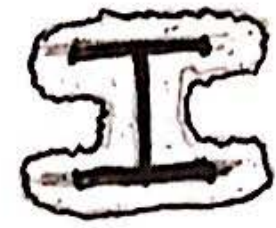
Structural steel Shapes



- Although steel is the most dense structural material, it is able to make the lightest structures. They are able to span the greatest distances.

★ Two of steel's primary weaknesses are exposure to weather and exposure to fire.

Steel is fire proofed to protect it.



↓ example

- useful tensile strength.
- it is also flexible and adaptable to any form.

