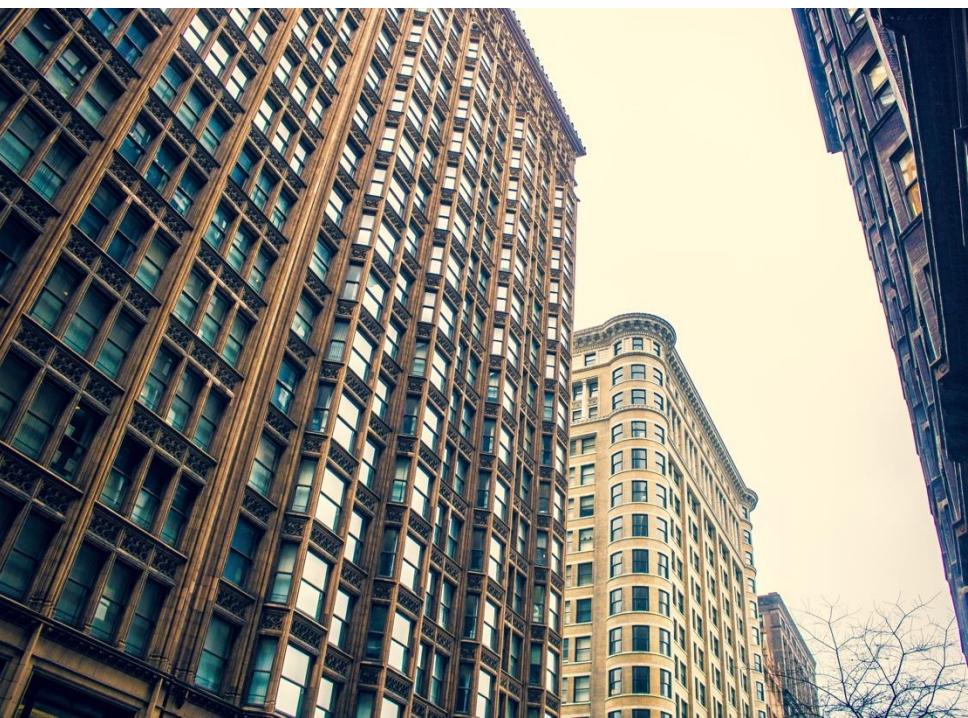


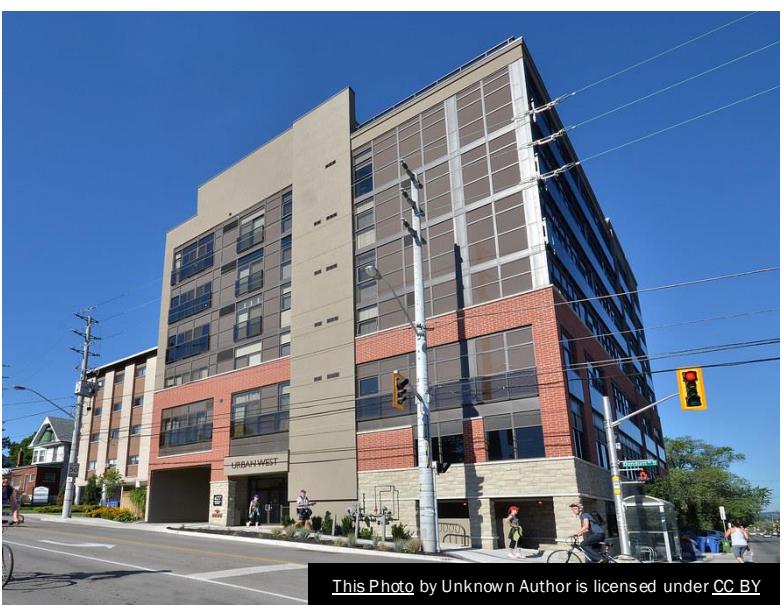
# ELEMENTS OF ARCHITECTURE

BY DIEGO LOPEZ

# WHAT ARE THE DIFFERENT TYPES OF BUILDINGS?

- **Skyscraper:** a building of exceptional height and many stories, supported by a steel or concrete framework.
- **High rise:** Describing a building having a comparatively large number of stories and equipped with elevators.





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## OTHER BUILDING TYPES

- **Mid-rise:** Describing a building having moderately large number of stories, usually 5 to 10, and equipped with elevators.
- **Low-rise:** Describing a building having one, two, or three stories and usually no elevator.

## OTHER BUILDING TYPES

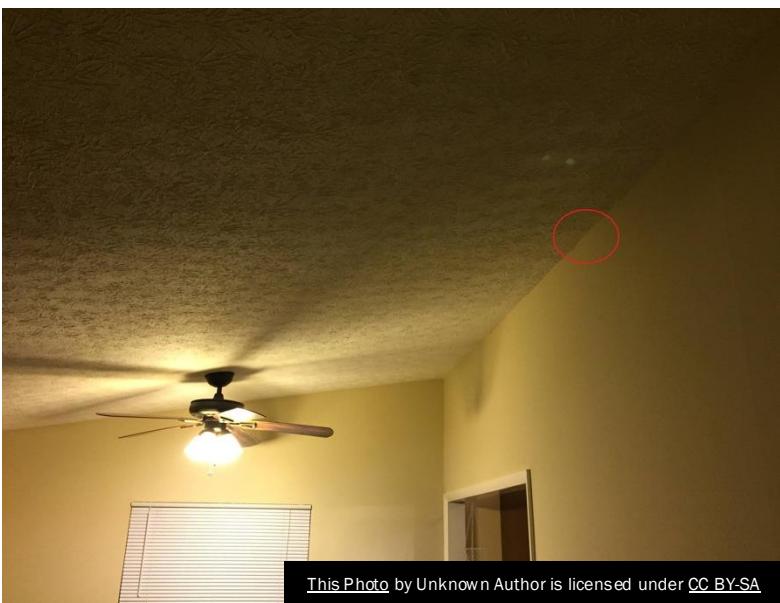
- **Loft-Building:** a building having several floors with large areas of unobstructed space, originally rented out for light industrial purposes and frequently converted to residential occupancy.
- **Loft:** One of the upper floors of a warehouse or factory, typically unpartitioned and sometimes converted or adapted to other uses, such as living quarters, artists' studios, or exhibition galleries.



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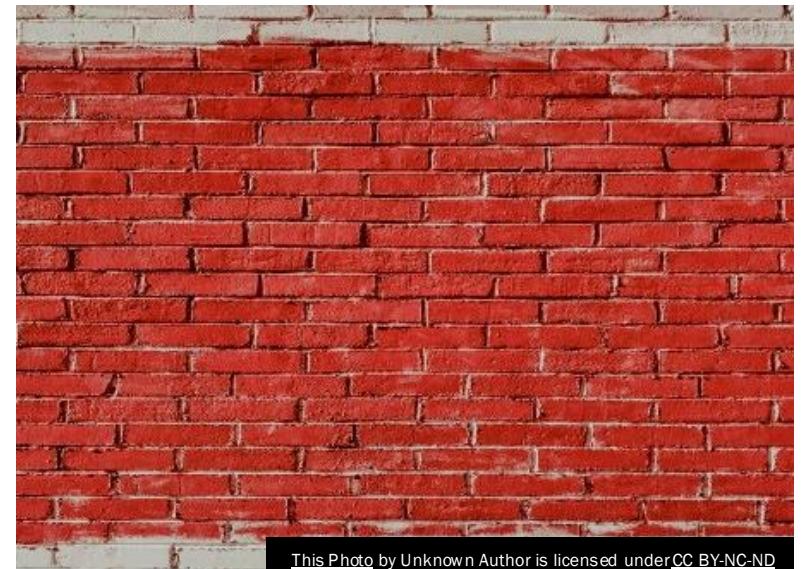


## WHAT ARE THE BASIC ELEMENTS OF A BUILDING?

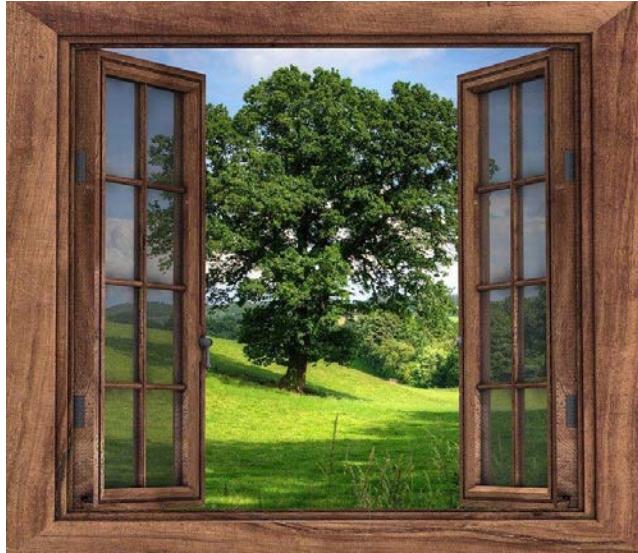
- **Roof:** The external upper covering of a building, including the frame for supporting the roofing.
- **Ceiling:** The overhead interior surface or lining of a room, often concealing the underside of the floor or roof above.

## BASIC ELEMENTS (CONTINUED)

- **Room:** A portion of space within a building separated by walls or partitions from similar spaces.
- **Wall:** Any of various upright constructions presenting a continuous surface and serving to enclose, divide, or protect an area.



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## BASIC ELEMENTS (CONTINUED)



- **Window:** An opening in the wall of a building for admitting light and air, usually fitted with a frame in which are set operable sashes containing panes of glass.
- **Door:** A hinged, sliding, or folding barrier of wood, metal, or glass for opening and closing an entrance to a building, room, or cabinet.

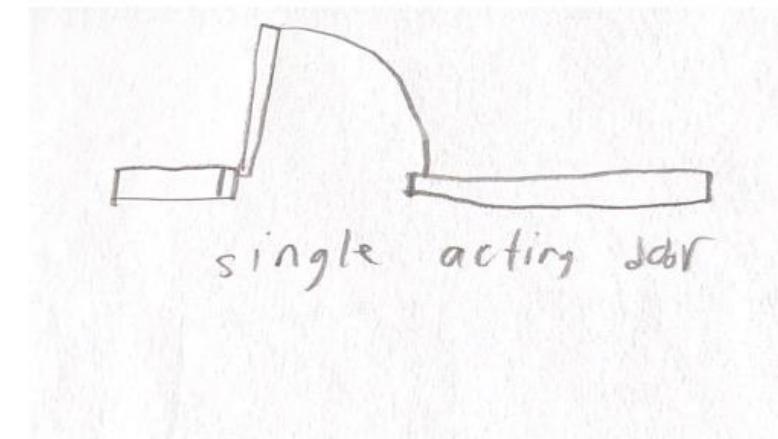
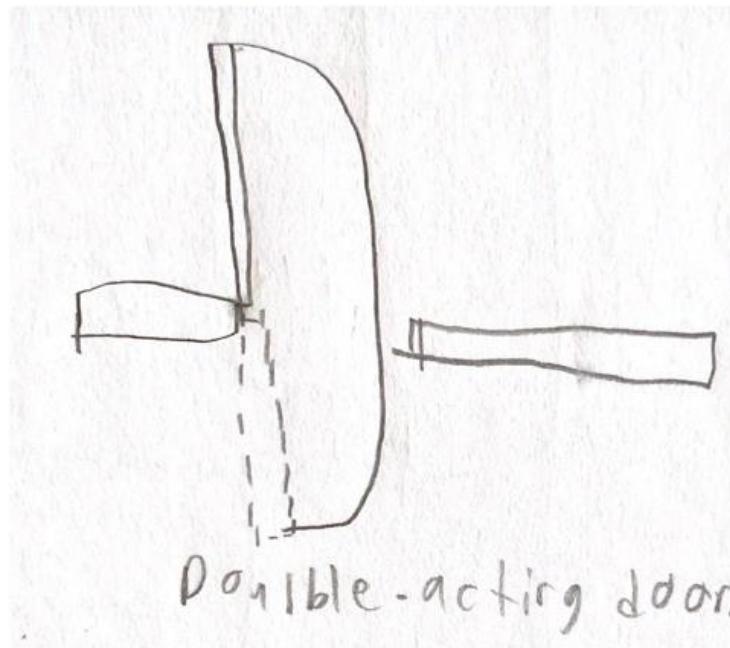
## BASIC ELEMENTS (CONTINUED)



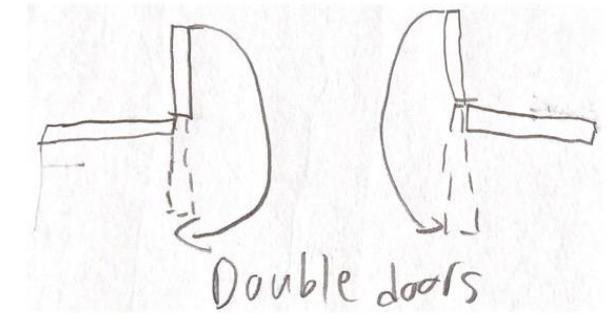
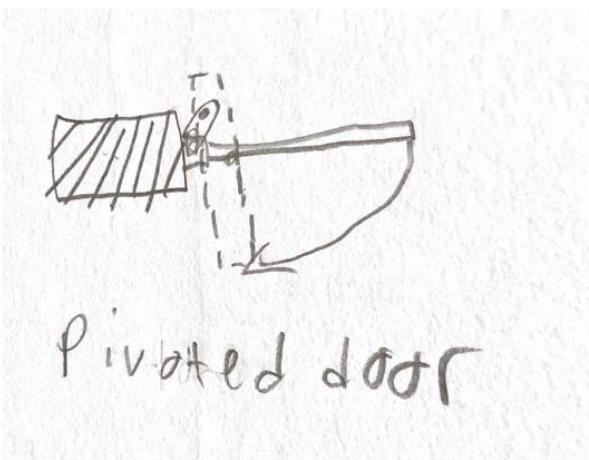
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- **Floor:** A continuous supporting surface extending horizontally throughout a building having a number of rooms and constituting one level in the structure.

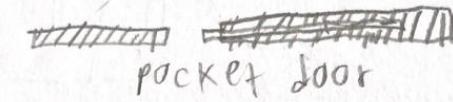
# TYPES OF DOORS



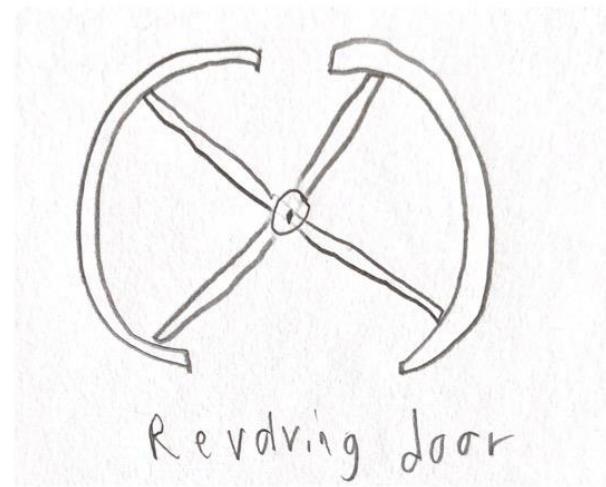
## **TYPES OF DOORS(CONTINUED)**



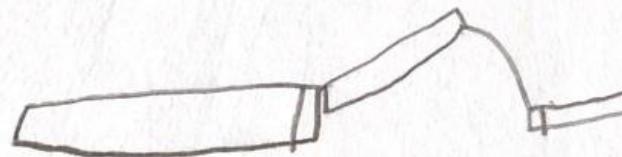
# TYPE OF DOORS (CONTINUED)



## **TYPES OF DOORS(CONTINUED)**



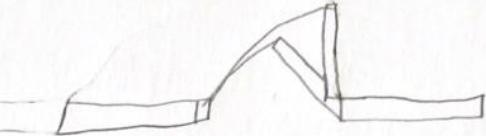
# TYPES OF DOORS (CONTINUED)



Flush Door



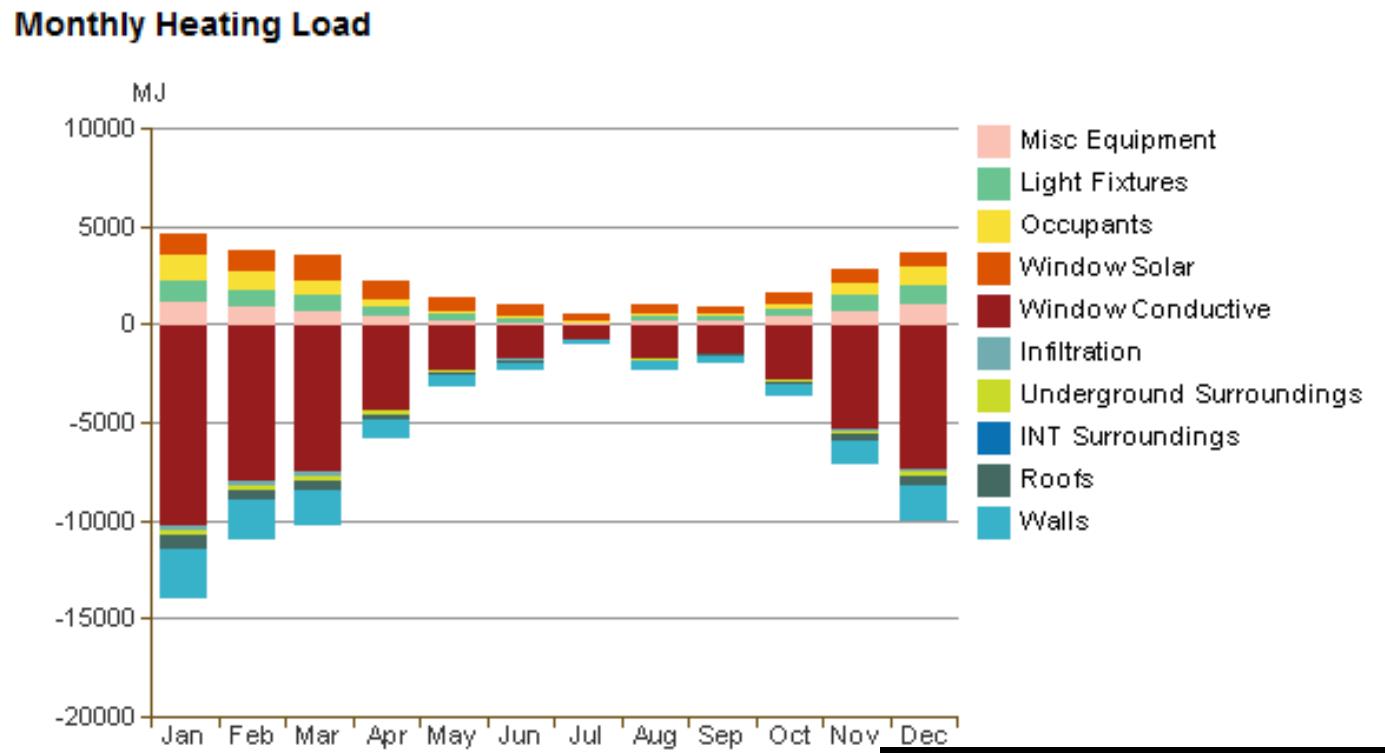
Accordion door



Dutch door

# WHAT IS A HEATING LOAD

- The hourly rate of net heat loss in an enclosed space, expressed in Btu per hour and used as the basis for selecting a heating unit system



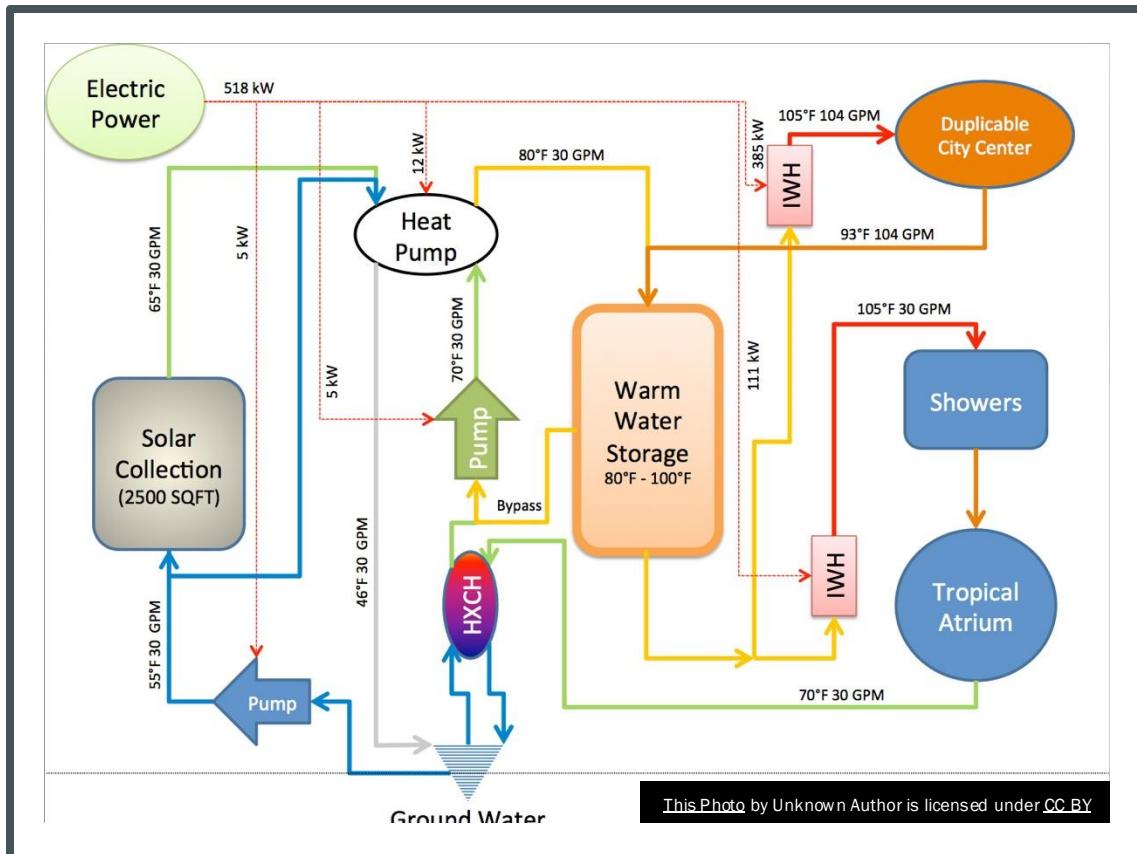
# WHAT DOES THE ABBREVIATION HVAC STAND FOR?

- HVAC stands for Heating, Ventilating, and Air Conditioning.



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# A HOT-WATER HEATING SYSTEM

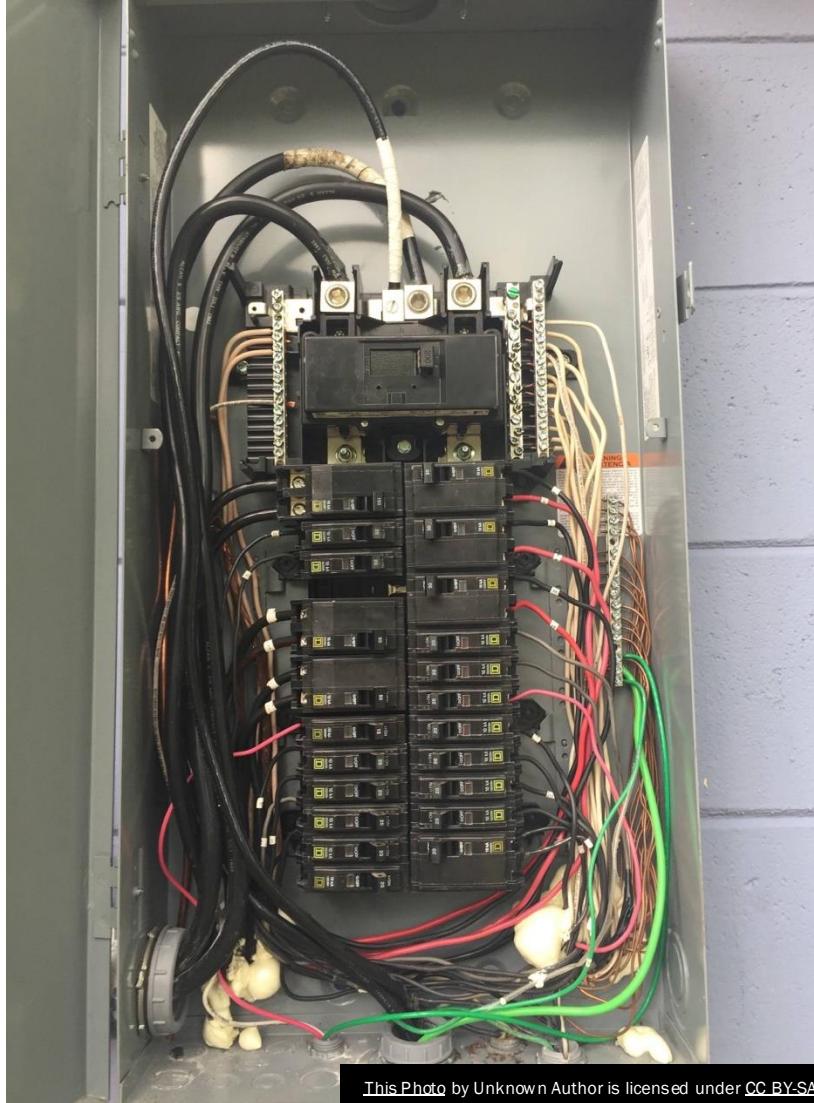


- A system for heating a building by means of water heated in a boiler and circulated by a pump through pipes to radiators or convectors. Also called hydronic heating.

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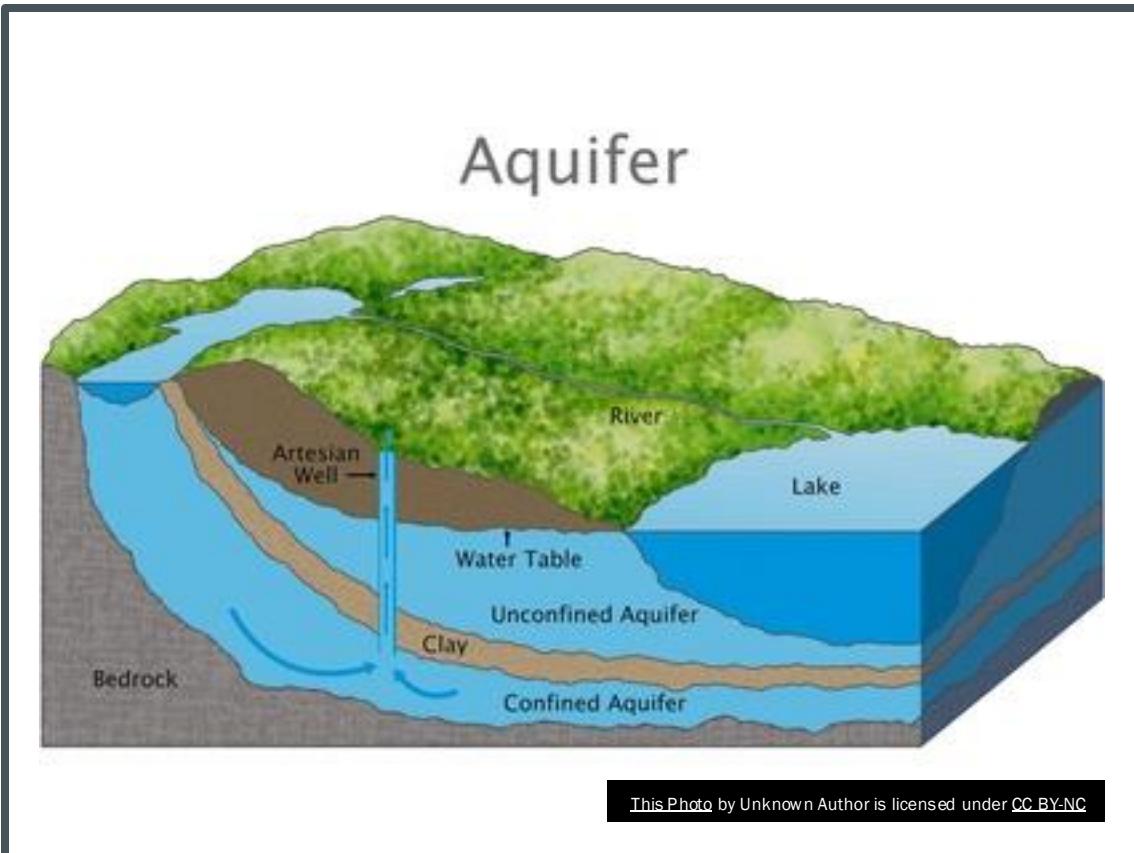
# WHAT IS AN ELECTRICAL PANEL?

- A board on which are mounted the switches, fuses, and circuit breakers for controlling and protecting several similar branch circuits, installed in a cabinet and accessible from the front only.



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# WHAT IS AN AQUIFER?



- A geological formation containing or conducting groundwater, especially one capable of providing water in usable quantities to springs or wells.

# WHAT IS POTABLE WATER?

WATER FIT FOR HUMAN CONSUMPTION.



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# WHAT IS A BEARING WALL?

A WALL CAPABLE OF SUPPORTING AN  
IMPOSED LOAD, SUCH AS FROM A FLOOR OR  
ROOF OF A BUILDING.

# EXAMPLES OF PLUMBING FIXTURES



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Sink



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Toilet

## EXAMPLES OF PLUMBING FIXTURES (CONTINUED)



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Bathtub



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Shower

# WHAT'S THE DIFFERENCE BETWEEN A SEWER AND A SEPTIC TANK?

**Sewer:** A pipe or other artificial conduit, usually underground, for carrying off sewage and usually underground, for carrying off sewage and other liquid waste to a treatment plant or other point of disposal.



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**Septic tank:** A covered watertight tank for receiving the discharge from a building sewer, separating out the solid organic matter, which is decomposed and purified by anaerobic bacteria, and allowing the clarified liquid to discharge for final disposal.



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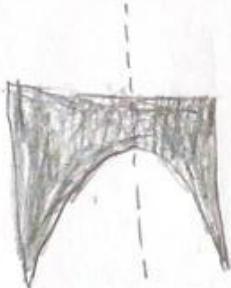
# WHAT IS A PROMENADE?

- An area used for a stroll or walk, especially in a public place, as for pleasure or display.



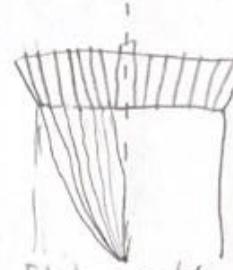
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# TYPES OF ARCHES



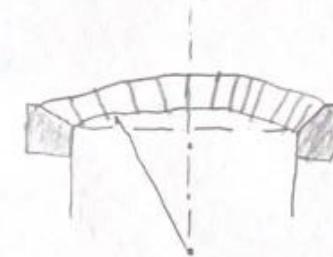
Round arch

An arch having a continuously curved intrados, especially a semicircular one.



Flat arch:

An arch having a horizontal intrados with voussoirs radiating from a center below often built with a slight camber to allow for settling.



Segmental arch:  
An arch struck from one or more centers below the spring line



## WHAT IS A GIRDER?

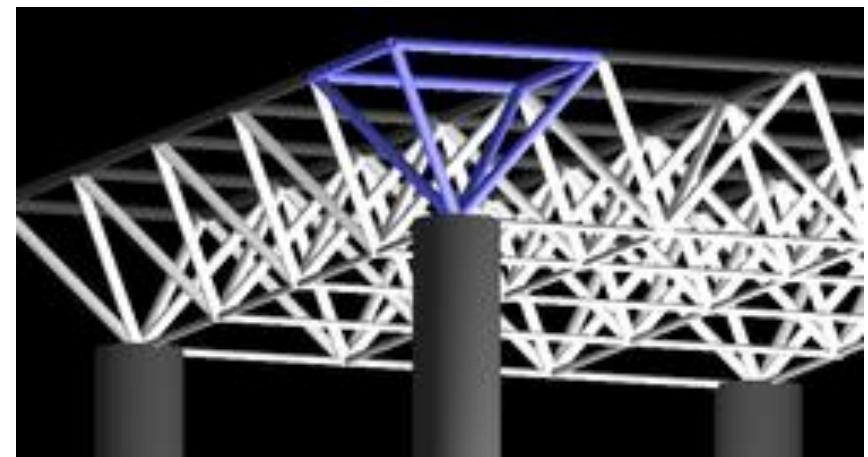
A LARGE PRINCIPAL BEAM DESIGNED TO SUPPORT CONCENTRATED LOADS AT ISOLATED POINTS ALONG ITS LENGTH.

# WHAT ARE SPACE FRAMES?

- A three-dimensional structural frame based on the rigidity of the triangle and composed of linear elements subject only to axial tension or compression. The simplest spatial unit of a space frame is a tetrahedron having four joints and six structural members. As with plate structures, the supporting bay for a space frame should be square or nearly square to ensure that it acts as a two-way structure.



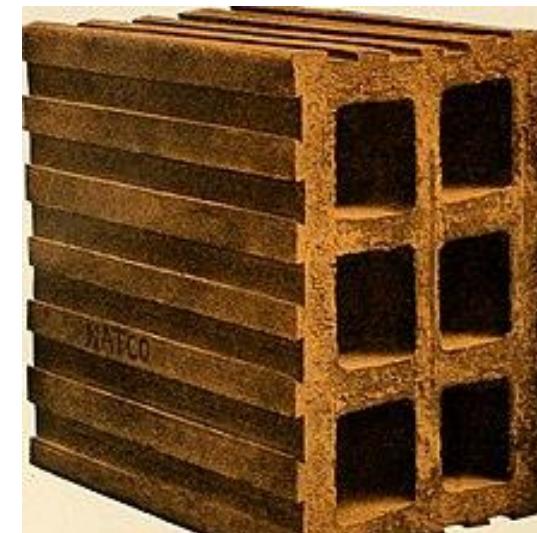
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# MATERIALS FOR BUILDING WALLS

- **Brick:** A masonry unit of clay formed into a rectangular prism while plastic and hardened by drying in the sun or firing in a kiln.
- **Structural clay tile:** A hollow tile of fired clay having parallel cells or cores, used in building walls and partitions.



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## MATERIALS FOR BUILDING WALLS(CONTINUED)

- **Terra cotta:** A hard, fired clay, reddish-brown in color when unglazed, used for architectural facings and ornaments, tile units, and pottery.
- **Concrete:** An artificial, stonelike building material made by mixing cement and various mineral aggregates with sufficient water to cause the cement to set and bind the entire mass.

# WHAT IS AN ISOLATED FOOTING?

- A single spread footing supporting a freestanding column or pier.



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# WHAT IS A PILE FOUNDATION?



- A system of piles, pile caps, and tie beams for transferring building loads down to a suitable bearing stratum, used especially when the soil mass directly below the construction is not suitable for the direct bearing of footings.

# WHAT'S THE DIFFERENCE BETWEEN A GAZEBO AND A PIAZZA?

**Gazebo:** A freestanding roofed structure, usually open on the sides, offering shade and rest in a garden or park.



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**Piazza:** An open square or public place in a city or town, especially in Italy.



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