

Construction **Basics**



Lesson Plan

Residential Construction Basics

- Materials
- Framing
- Lab exercise

Next Week

Electrical basics

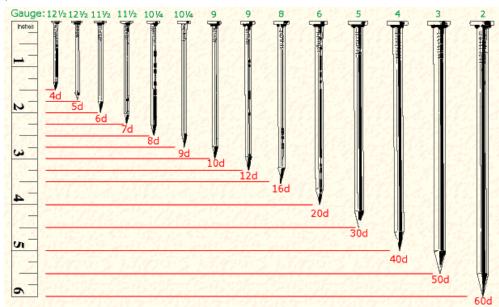
Why do we care?

Lumber

- Studs, beams, rafters 2bys
- Sheathing

Nails

Common, Box, Sinker



Platform Framing:

- Framing in which floor platforms are constructed independently.
- · Walls are erected on each floor system.
- · House goes up in stages, one floor at a time.

Production Framing:

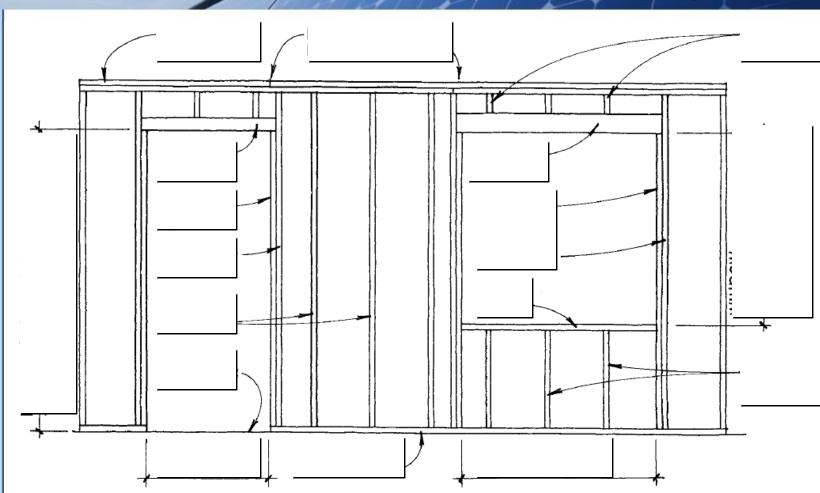
- Another name for "Platform Framing"
- Called this because of the speed and systematic framing approach.
- Incorporates engineered framing components like wooden I Beams, tongue and groove "Strudi Floor" sub flooring, panelized wall systems, and roof trusses.

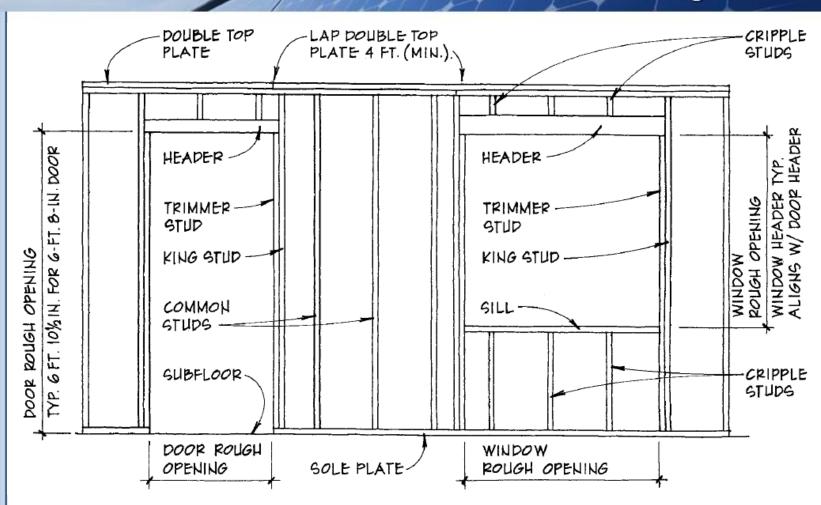
Post & Beam Framing:

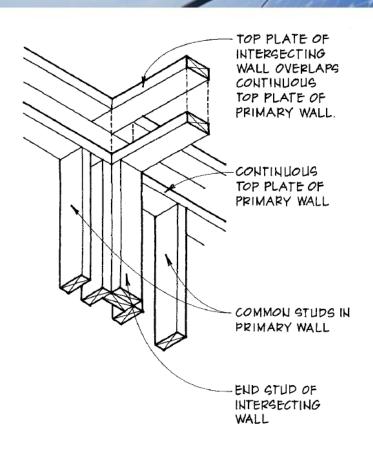
- AKA "California Post & Beam"
- Framing in which post support large beams that are design to span large openings.
- These framing units are the basic load-bearing members.
- Fewer framing members are required leaving more open space for functional use.

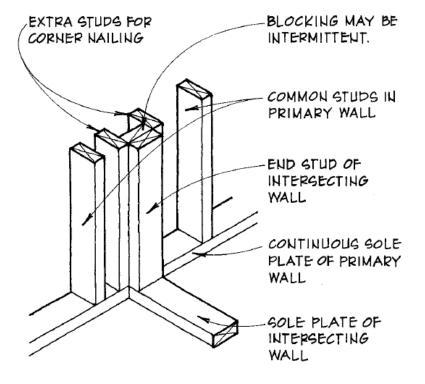
Note:

- 1. It is not uncommon for houses to have more than one type of framing in the same structure.
- 2. Plywood in the 1950's was revolutionary, ushering in a more modular approach to building.
- Engineered framing products brought us the era of "Production Framing" where house now can be mass produced.









DOUBLE TOP PLATE OVERLAPS D CORNERS TO LOCK TWO WALLS TOGETHER . --2×4 STUDS 2 16 IH. O.C.

TYPICAL

CORNER STUDS BUILT UP W/ 2×4 BLOCKING BETWEEN PROVIDES NAILING 2 INGIDE CORNER .-SOLE PLATE . NOTE: THIS DETAIL WORKS FOR BOTH INSIDE &

OUTSIDE CORNERS.