

Wood Joints

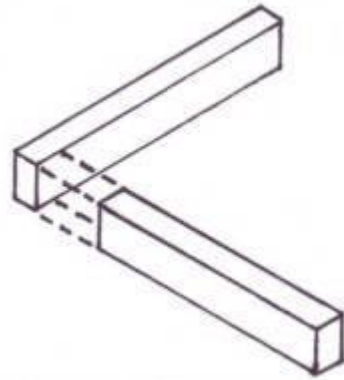
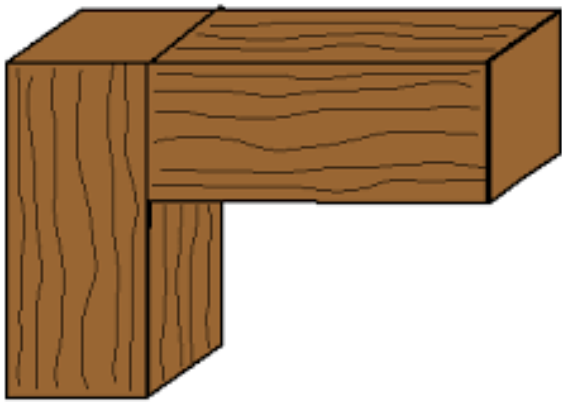
Mitre joint



Description – A mitre joint made by bevelling, cutting wood on a 45° angle. Then joined together. The corner formed is a 90° angle.

Use of joint- Picture frames

Butt joint

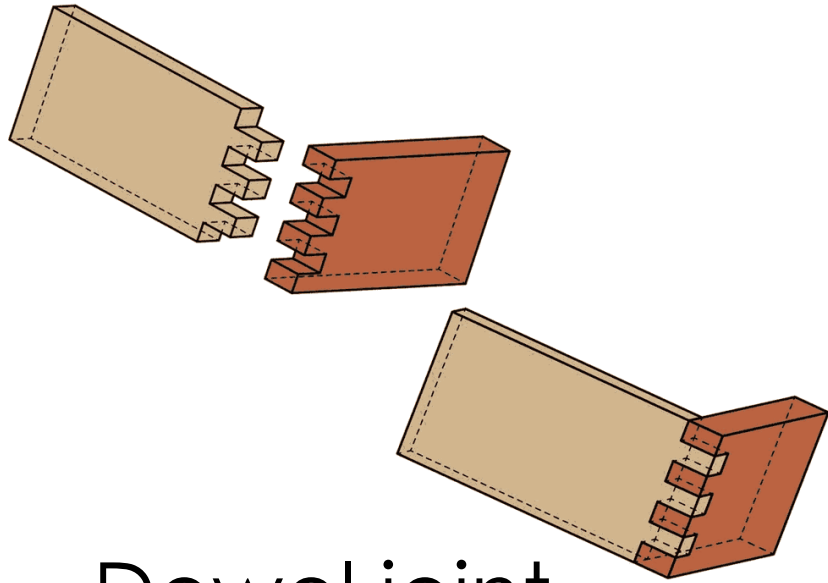


Description- A butt joint is a technique in which two pieces of material are joined by simply placing their ends together without any special shaping.

Use of joint- picture frames or shelving units

Wood Joints

Finger joint

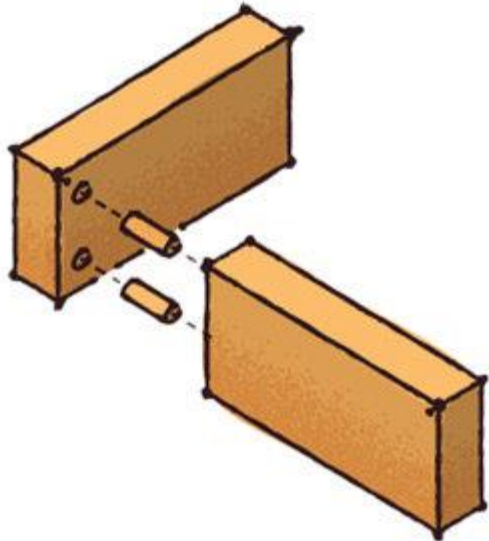


Description

A **Finger Joint**, also known as a Comb **Joint**, is a woodworking **joint** made by cutting a set of complementary, interlocking profiles in two pieces of wood, which are then glued

Use of joint – chest of draws and book cabinets

Dowel joint



Description

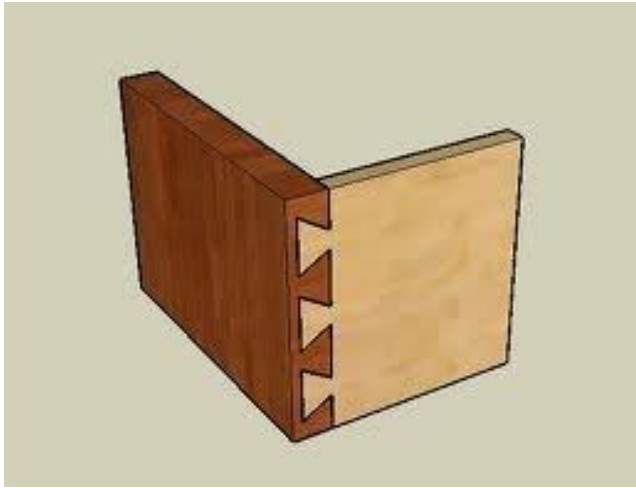
Dowels are round wooden pins of small diameter used to strengthen (reinforce) a **joint**. They can be bought ready made and can be used instead of nails or screws.

Use of joint

Reinforce a joint for furniture or picture frames

Wood Joints

Dovetail joint



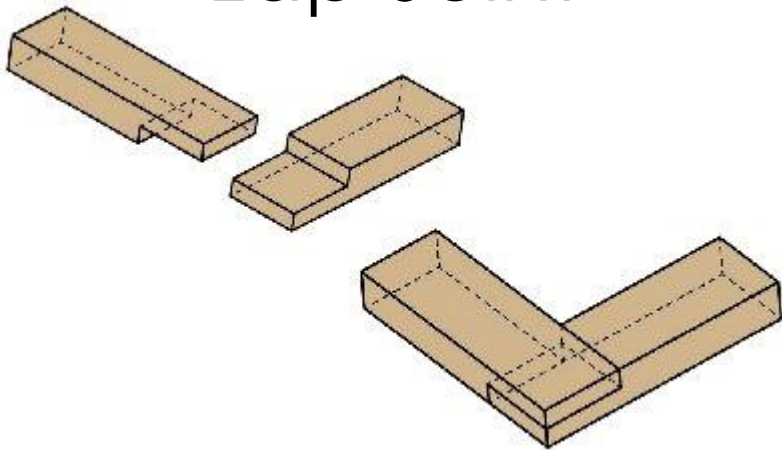
Description

A dovetail joint or simply dovetail is a joinery technique most commonly used in carpentry, similar to a finger joint but uses more angles.

Use of joint

Furniture, cabinets. log buildings and traditional timber framing.

Lap Joint



Description

A lap joint or overlap joint is a joint in which the pieces of wood overlap. Lap joints can be used to join wood, plastic, or metal. A lap joint may be a full lap or half lap.

Use of joint

Furniture or picture frames

Properties of materials



MDF- Medium Density Fibreboard

Properties- Advantages

Strong
Durable
Cheap to buy

Properties- Disadvantages

Heavy
Can chip easily



Plywood

Properties – Advantages

Stability
strength
Stability
Flexibility

Properties- Disadvantages

Porous
Susceptible to water damage

Properties of materials



Oak

Properties- Advantages

Strong
Sturdy

Properties- Disadvantages

Discolour
Stain
Warp



Balsa wood

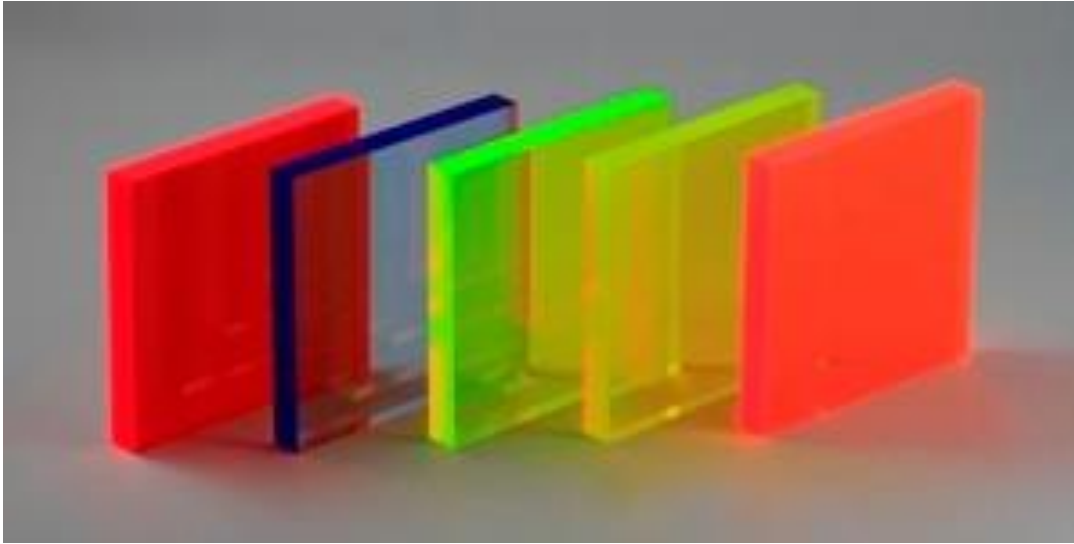
Properties- Advantages

Strong
low density
It can be easily shaped, sanded, glued, and painted.

Properties- disadvantages

Lightweight
Soft
highly buoyant

Properties of materials



Acrylic

Properties- Advantages

Resistance to sunlight.

Rigid

Strong.

Stability

Comes in different widths

Properties- Disadvantages

Cracks and break

Scratches

Understanding a design brief and specification

What is a design brief?

A design brief is the starting point for any **design**. The **brief** outlines what problem a **design** will solve. It should be referred to throughout the project to make sure what you are solving the problem

What is a client?

A **person** or **group of people** you are designing for.

What is a specification?

Is a **check list** that your product or design **include** at the end of the project

More detail

A design brief **must** always include

- Function of the product
- Materials
- Appearance
- Theme

Detail about a **client** include

- Age
- Gender
- Hobbies and interests

Specification should always include

- Size
- Shape/form
- Cost
- Theme