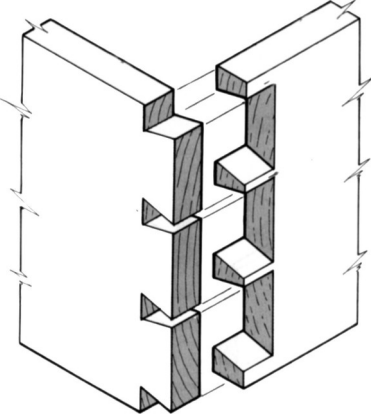
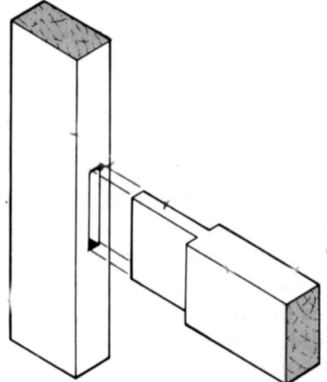
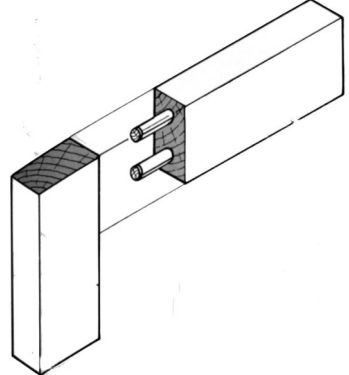
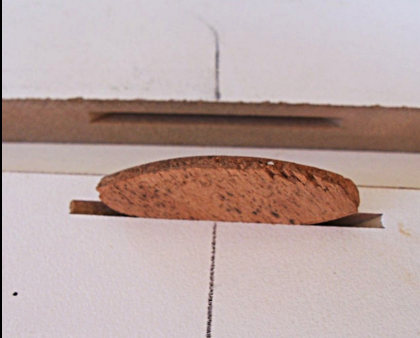
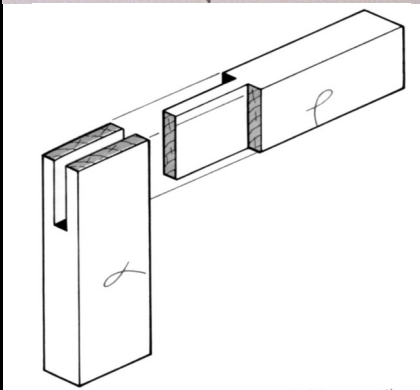
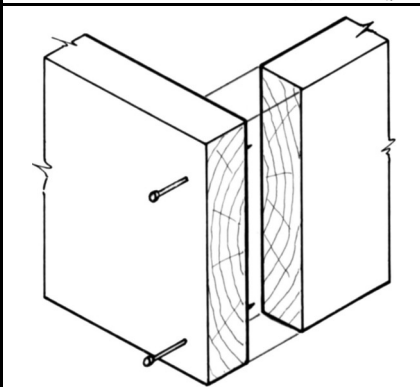
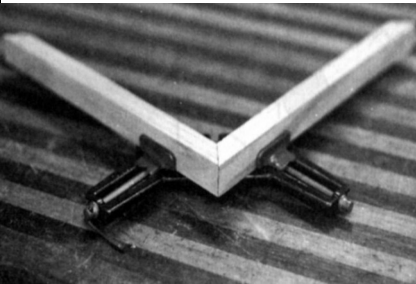
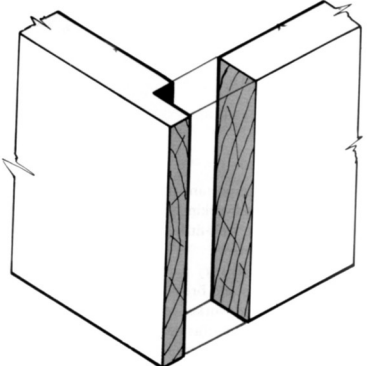
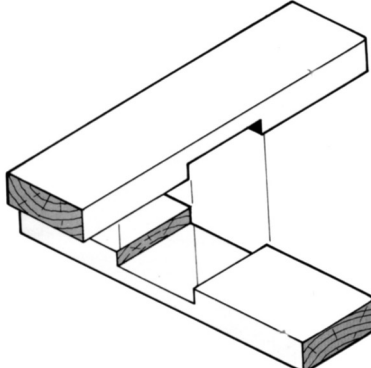
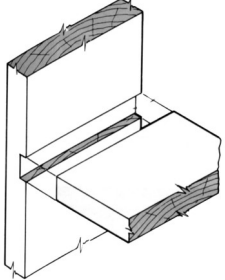
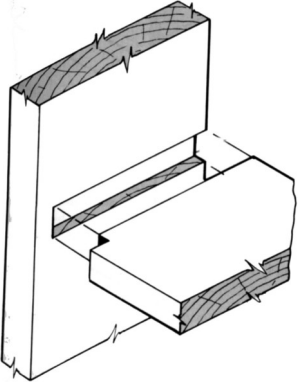
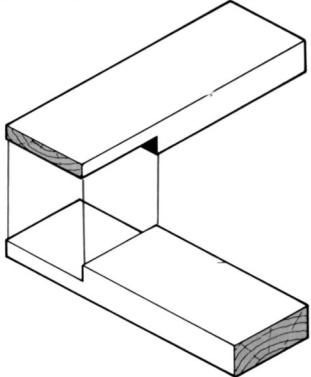


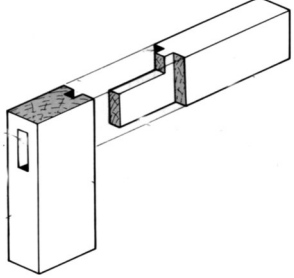
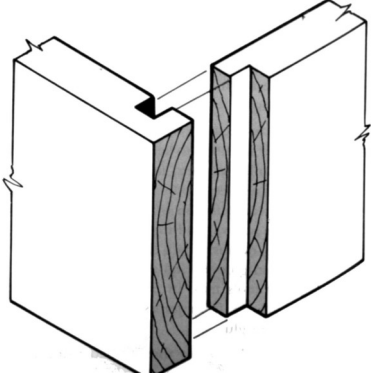
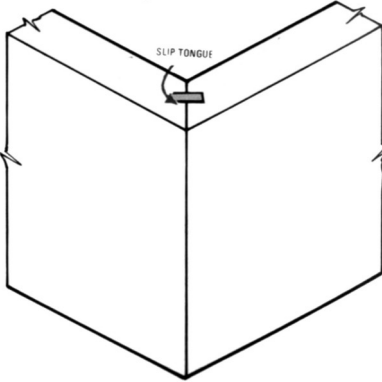
Processes—Widening, Framing & Carcase Joints

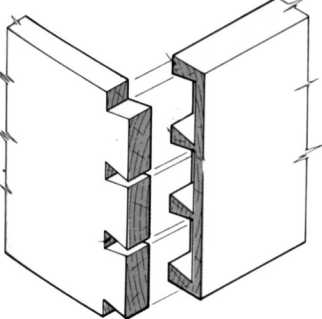
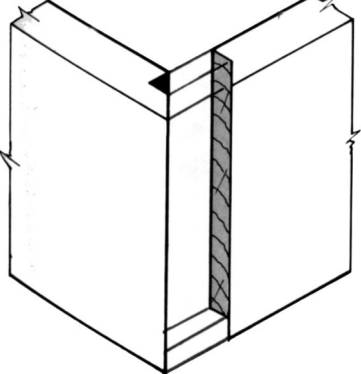
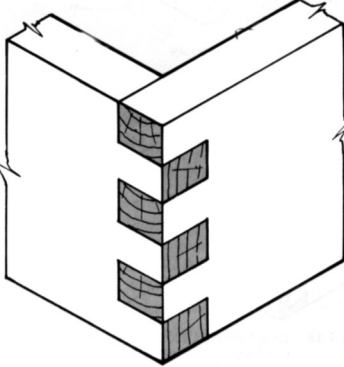
Joint Types	Other Names	Uses	Applicable Materials	Advantages/ Disadvantages	Example
Through Dovetail	Common Dovetail	Boxes, carcass construction	Solid timber	<p>Advantages - Very strong, aesthetically pleasing.</p> <p>Disadvantages - Complex marking out, Removal of waste needs to be done very accurately.</p>	
Through Mortise and Tenon	Common Mortise and Tenon	Chairs, framing	Solid timber	<p>Advantages - Very strong, easy to make, easy to mark out.</p> <p>Disadvantages -</p>	
Dowel		Widening, framing, chairs, boxes, carcass construction	Solid timber, manufactured boards	<p>Advantages - Easy to make, easy to mark out first hole, relatively strong.</p> <p>Disadvantages - Positioning of second holes can be difficult.</p>	

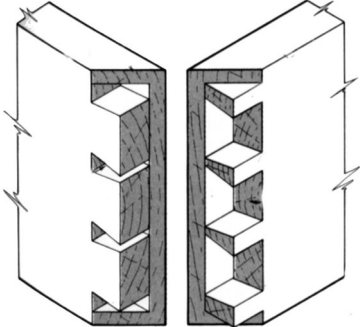
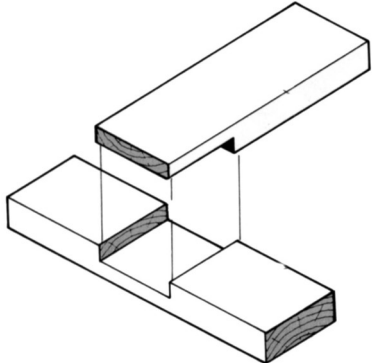
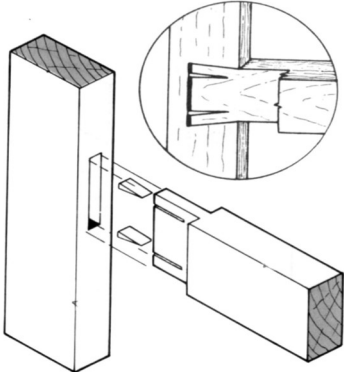
Joint Types	Other Names	Uses	Applicable Materials	Advantages/ Disadvantages	Example
Biscuit		Widening, carcass construction, boxes, framing	Solid timber, manufactured boards	<p>Advantages - Easy to make, fast to make, very easy to mark out.</p> <p>Disadvantages - Not as strong as dowels in thick sections.</p>	
Corner Bridle	Open Mortise and Tenon	Chairs, framing	Solid timber	<p>Advantages - Easy to make, easy to mark out, good strength, aesthetically pleasing.</p> <p>Disadvantages -</p>	
Butt		Widening, carcass construction, boxes, framing	Solid timber, manufactured boards	<p>Advantages - Easy to make, fast to make.</p> <p>Disadvantages - Relatively low strength, aesthetic qualities.</p>	

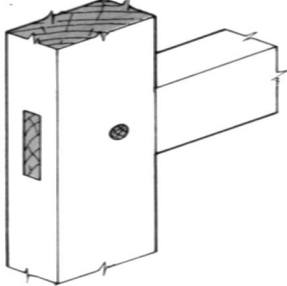
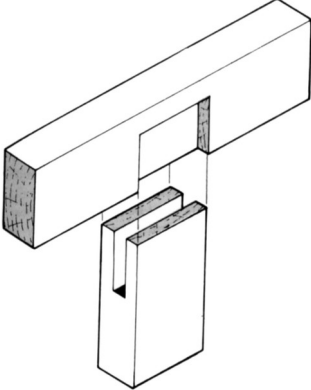
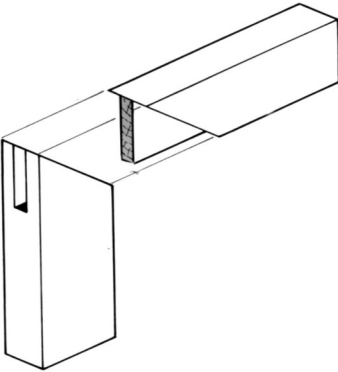
Joint Types	Other Names	Uses	Applicable Materials	Advantages/ Disadvantages	Example
Mitre		Framing, boxes, carcass construction	Solid timber, manufactured boards	<p>Advantages - Doesn't show end grain.</p> <p>Disadvantages - Difficult to make well, Difficult to clamp for gluing.</p>	
Rebate		Widening, framing, chairs, boxes, carcass construction	Solid timber, manufactured boards	<p>Advantages - Easy to mark out, easy to make, fast to make.</p> <p>Disadvantages - Only fair strength, aesthetic qualities.</p>	
Halving	Cross Lap	Chairs, framing	Solid timber, manufactured boards	<p>Advantages - Easy to make, easy to mark out, fast to make, good strength.</p> <p>Disadvantages -</p>	

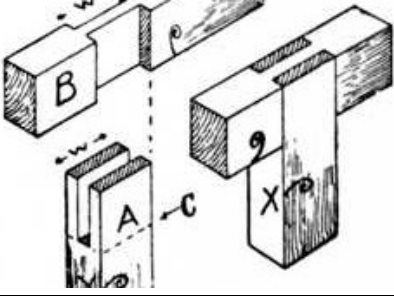
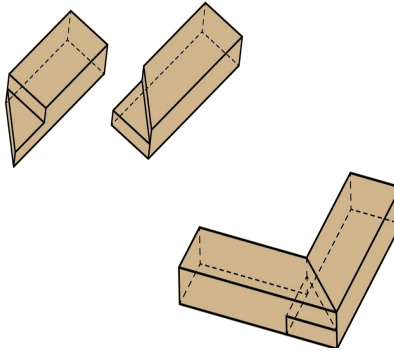
Joint Types	Other Names	Uses	Applicable Materials	Advantages/ Disadvantages	Example
Through Housed		Boxes, carcass construction	Solid timber, manufactured boards	<p>Advantages - High strength, easy to mark out.</p> <p>Disadvantages - See joint at both ends.</p>	
Stopped Housed		Boxes, carcass construction	Solid timber, manufactured boards	<p>Advantages - Do not see joint at one end, high strength.</p> <p>Disadvantages - Have to square end.</p>	
Corner Lap		Framing	Solid timber, manufactured boards	<p>Advantages - Easy to mark out, easy to make.</p> <p>Disadvantages - Aesthetic qualities.</p>	

Joint Types	Other Names	Uses	Applicable Materials	Advantages/ Disadvantages	Example
Haunched Mortise and Tenon		Chairs, framing	Solid timber	<p>Advantages - Very high strength.</p> <p>Disadvantages - Difficult to mark out, hard to make.</p>	
Tongue and Groove		Widening, framing, carcass construction	Solid timber, manufactured boards	<p>Advantages - Good strength, easy to mark out, easy to make.</p> <p>Disadvantages - Aesthetic qualities.</p>	
Mitre with Tongue		Framing, boxes, carcass construction	Solid timber, manufactured boards	<p>Advantages - Higher strength than standard mitre.</p> <p>Disadvantages - Difficult to make.</p>	

Joint Types	Other Names	Uses	Applicable Materials	Advantages/ Disadvantages	Example
Lapped Dovetail	Dovetail Halving	Boxes, carcass construction	Solid timber	<p>Advantages - Very high strength, good aesthetic qualities.</p> <p>Disadvantages - Difficult to mark out, difficult to make.</p>	
Rebated Mitre		Framing, boxes, carcass construction	Solid timber, manufactured boards	<p>Advantages - Higher strength than standard mitre, aesthetic qualities, easy to mark out.</p> <p>Disadvantages - Difficult to make using hand tools.</p>	
Box Pin		Boxes, carcass construction	Solid timber, manufactured boards	<p>Advantages - Easy to mark out, easy to make, good strength.</p> <p>Disadvantages -</p>	

Joint Types	Other Names	Uses	Applicable Materials	Advantages/ Disadvantages	Example
Secret Dovetail	Mitred Dovetail	Boxes	Solid timber	<p>Advantages - Aesthetic qualities, high strength.</p> <p>Disadvantages - Difficult to mark out, difficult to make, hidden dovetails.</p>	
T Halving	T Lap	Chairs, framing	Solid timber, manufactured boards	<p>Advantages - Easy to mark out, easy to make.</p> <p>Disadvantages -</p>	
Stub Mortise and Tenon		Chairs, framing	Solid timber	<p>Advantages - Easy to mark out, easy to make tenon, high strength.</p> <p>Disadvantages - Difficult to make mortise, hidden wedges.</p>	

Joint Types	Other Names	Uses	Applicable Materials	Advantages/ Disadvantages	Example
Pinned Mortise and Tenon		Chairs, framing	Solid timber	<p>Advantages - High strength, east to mark out, easy to make.</p> <p>Disadvantages - Visible pin.</p>	
Stopped Bridle		Chairs, framing	Solid timber	<p>Advantages - Easy to mark out, easy to make twin tenons, good strength.</p> <p>Disadvantages - Difficult to make halving using hand tools.</p>	
Mitred Bridle		Chairs, framing	Solid timber	<p>Advantages - Aesthetic qualities, easy to mark out, easy to make, good strength.</p> <p>Disadvantages -</p>	

Joint Types	Other Names	Uses	Applicable Materials	Advantages/ Disadvantages	Example
Through Bridle		Chairs, framing	Solid timber	<p>Advantages - Easy to mark out, easy to make, good strength, aesthetic qualities.</p> <p>Disadvantages -</p>	
Mitred Lap		Chairs, framing	Solid timber, manufactured boards	<p>Advantages - Easy to mark out, easy to make.</p> <p>Disadvantages -</p>	
Scribed Joint	Cope & Stick Joint	Framing, carcass	Solid timber	<p>Advantages - Easy to make using router bits. Can be hand cut for odd shapes.</p> <p>Disadvantages - Can be difficult to cut accurately by hand.</p>	