

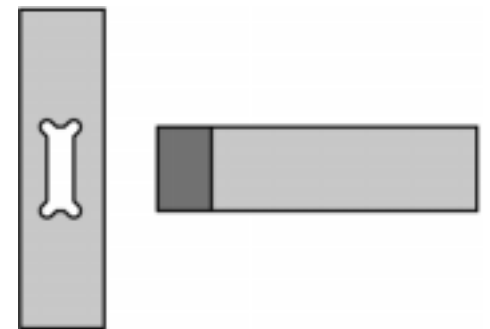
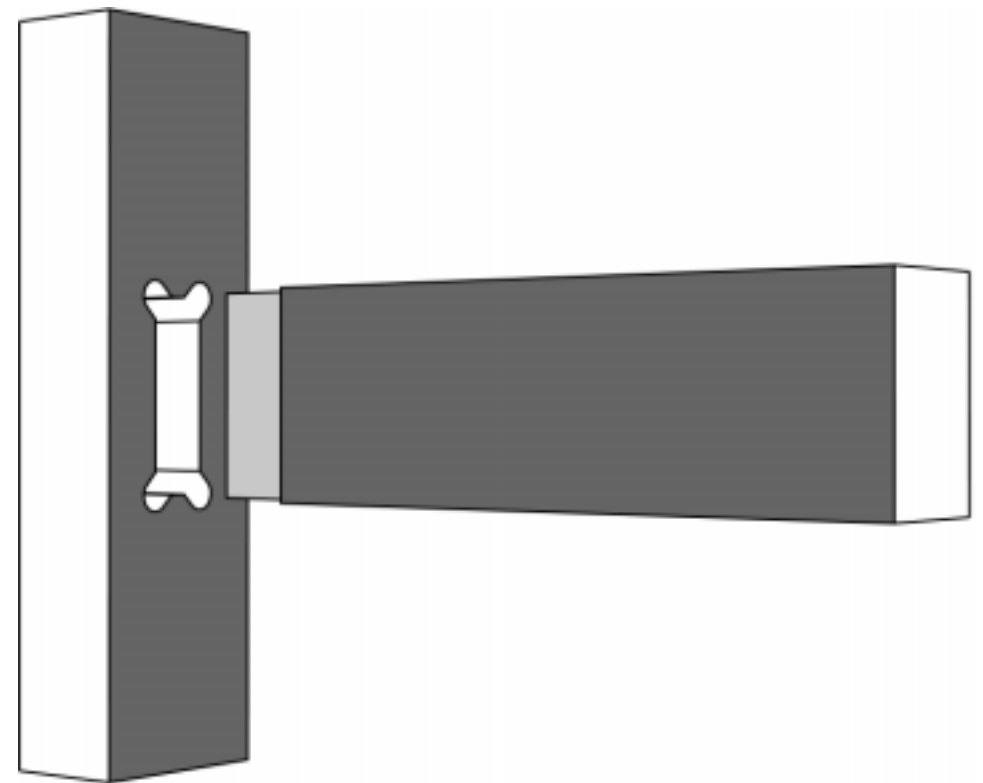


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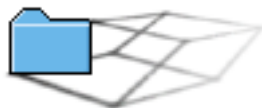
### Tenon Joint with Star-Shaped Mortise

Tenon joints count among the oldest wood joints. It is impossible to imagine furniture and carcass construction without them. They have been replaced more and more by dowel joints due to industrial furniture production. They are, nevertheless, still superior in terms of durability.

For the Tenon Joint with Star-Shaped Mortise, the tenon of the cross bar, that has been shouldered up to half the thickness of the wood, is placed into the vertical framing in such a way, that it is flush at the front. The Star-Shaped Mortise is a result of machining the joint on a CNC-router. The extended corners of the mortise ensure an accurate support of the rectangular tenon.



→ to the data files



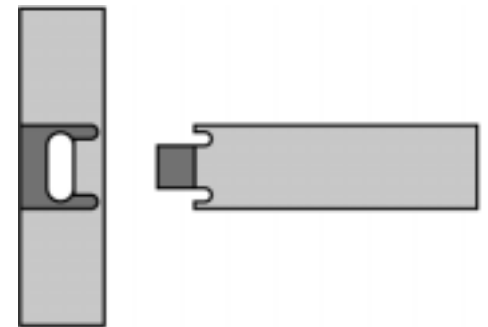
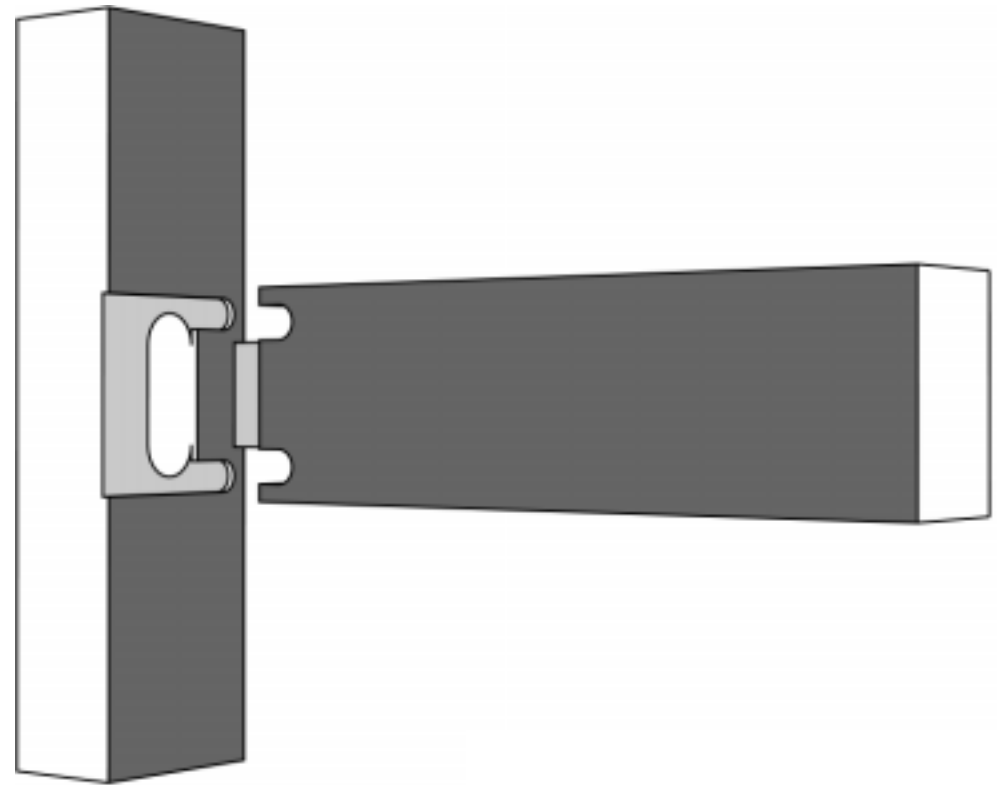


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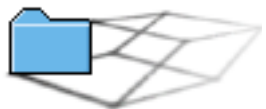
### Shouldered Tenon

The Shouldered Tenon combines the idea of the housed butt joint with the idea of the tenon joint. The flattened part of the vertical frame prevents the horizontal shift of the cross bar, while its side forces are transmitted by the tenon.

The Shouldered Tenon Joint can be executed as a blind or open version. For the blind version, the tenon should be shorter than the depth of the mortise in order to avoid the tenon forcing on the mortise ground in case the wood shrinks. The Tenon Joint can also be secured against tension with the help of wood pins.



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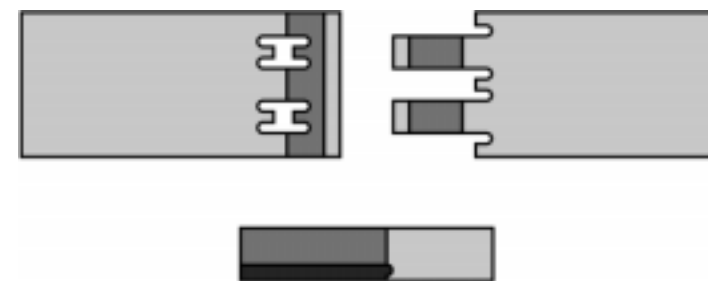
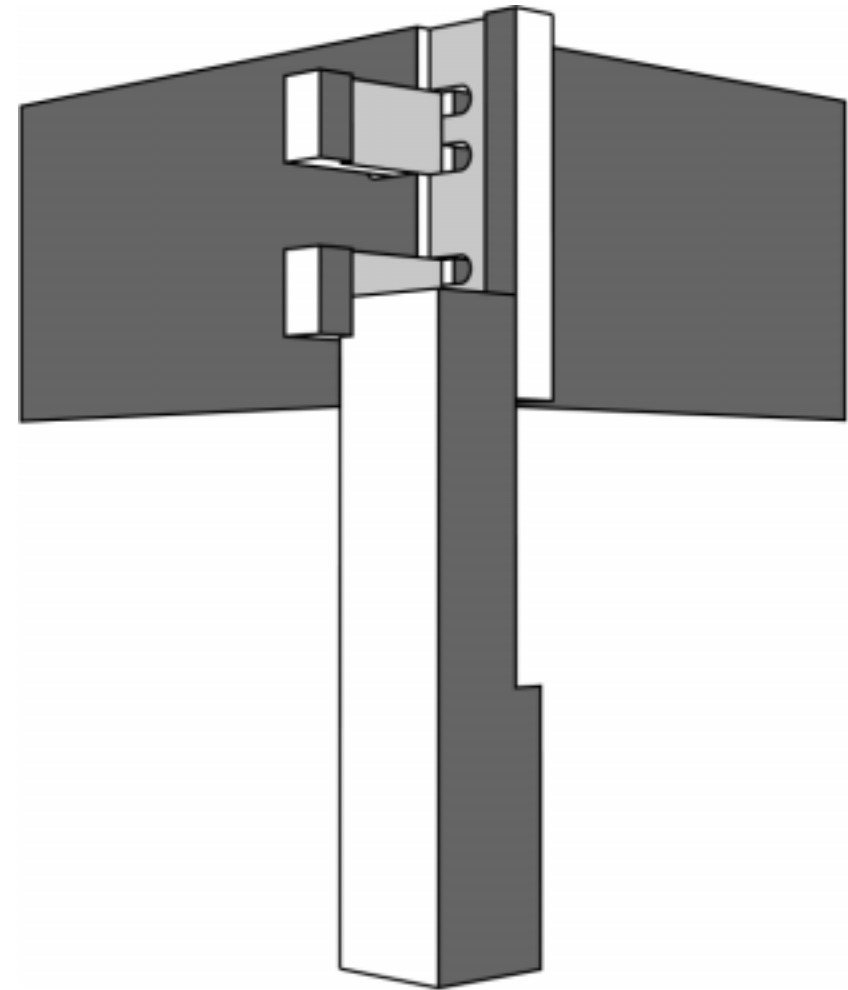


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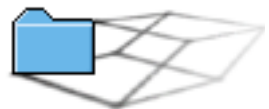
### Locked Leg Framing

The Locked Leg Framing is a removable carcass joint, which is used wherever legs are joint with framing rails, as for example for tables and beds.

The front and back rails have tenons, the side rails have mortises. Both rails are flattened on the outside around the tenons as well as around the mortises. When assembling the joint, the rails will be slotted together and the leg will be introduced from below in the flattened area. The rails thus resist tensile forces and, at the same time, ensure a high stability of the angle joint.



→ to the data files



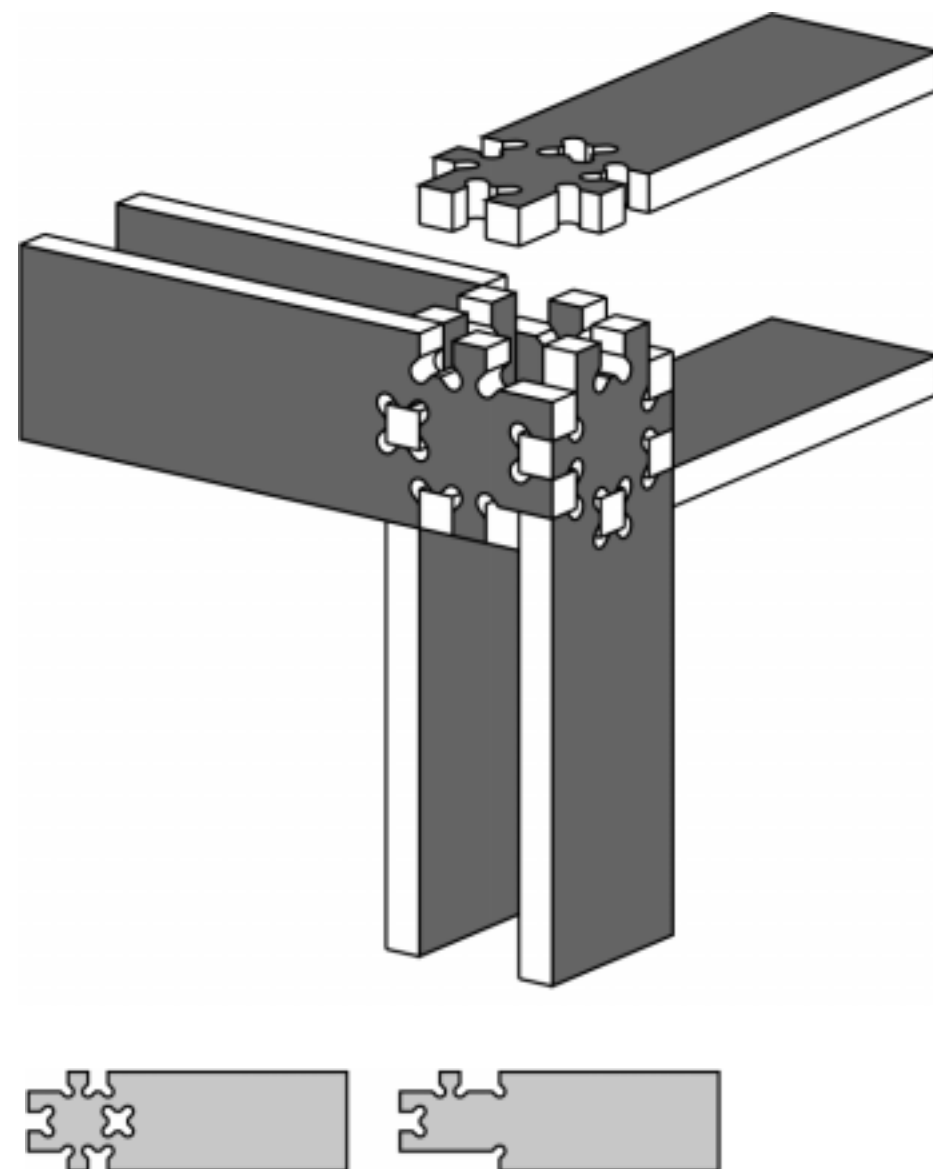


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### 3-Dimensional Finger Tenon Joint

The 3-Dimensional Finger Tenon is a joint used for three-dimensional space structures in furniture construction as well as trade fair construction.

The joint, illustrated here as a corner solution, consists of two basic elements: the outer and the inner framing timber which run parallel to each other. These two almost identical elements enable the problem-free assembly of complex structures. Because of their geometry and the stress under which element is put, the 3-Dimensional Finger Tenon Joint should be made, if at all possible, of multiplex plywood.



→ to the data files

