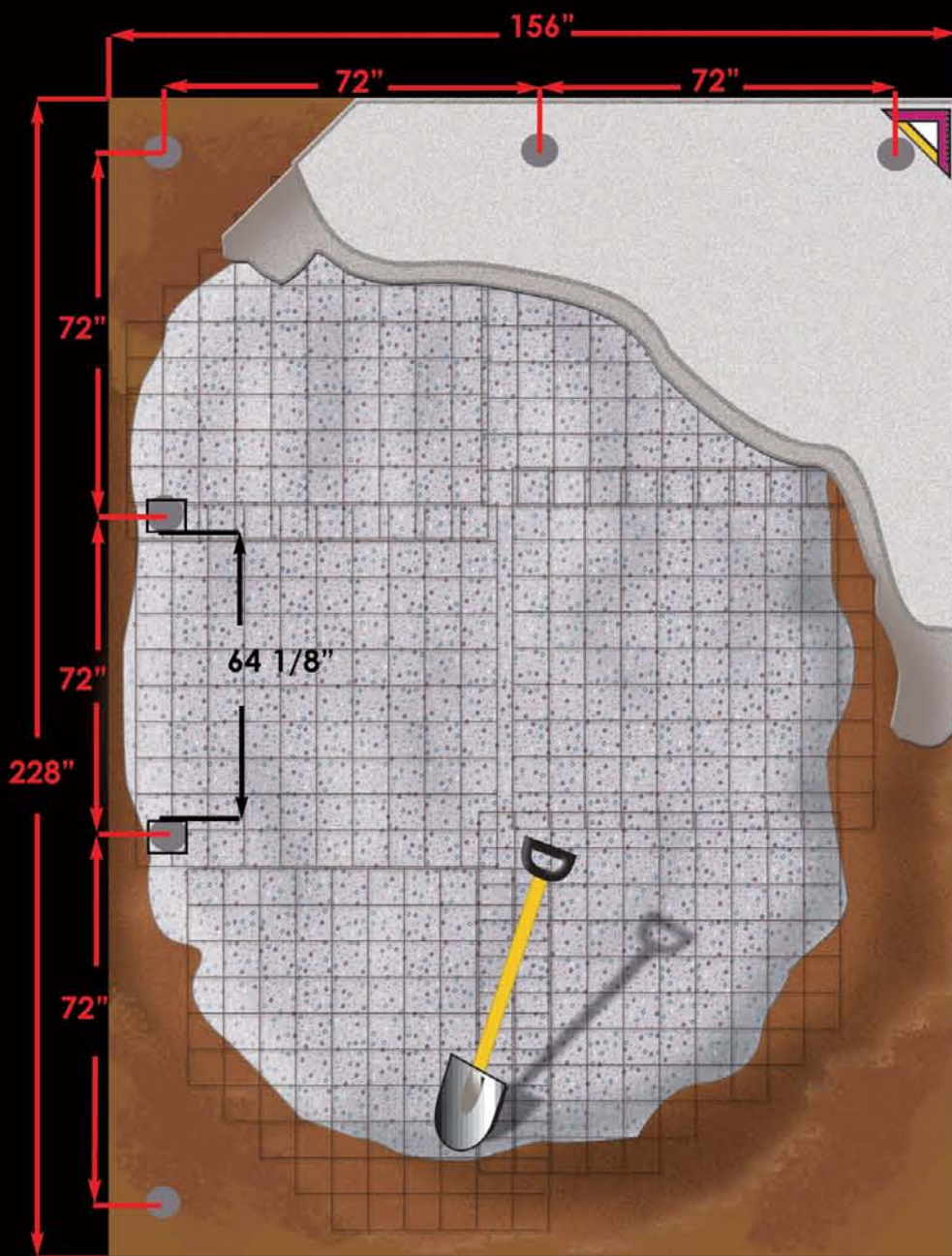


Assembly Instructions for CM-18A

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Slab Construction requires a leveled slab with a length of **228"** and width of **156"**.

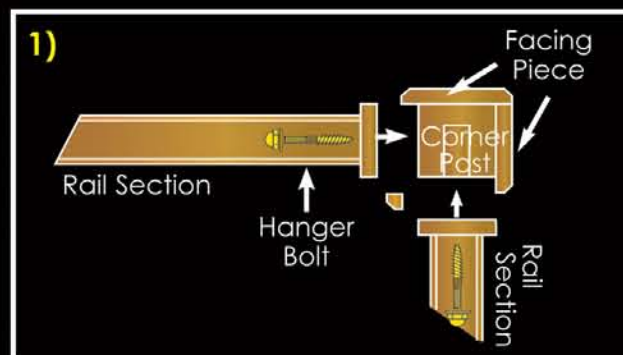
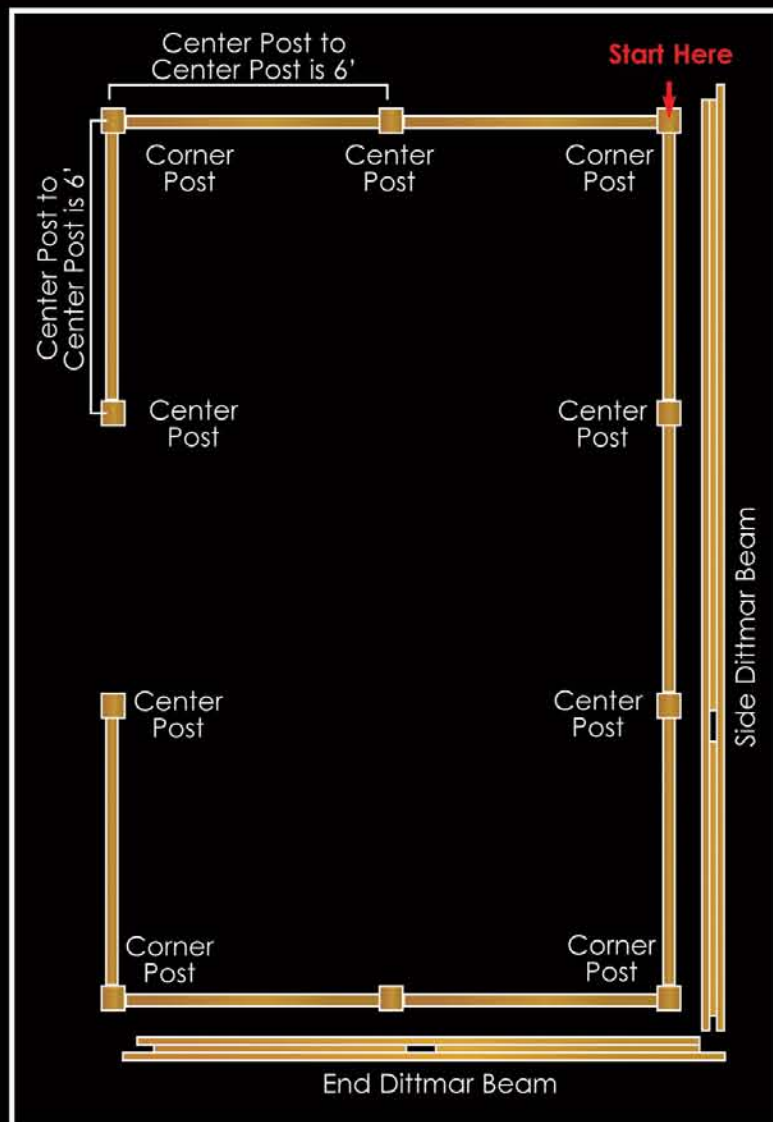


Core Drilling: Measure **72"** from center post to center post. Core locations for ten 2" wide by 7" deep core holes. **Posts anchor** to a concrete slab using supplied anchors and a wet concrete grout mix. Grout the hole as you set each post with its anchor, post plate and adjoining rail. Make sure the distances across the unit (post to post) are the same.

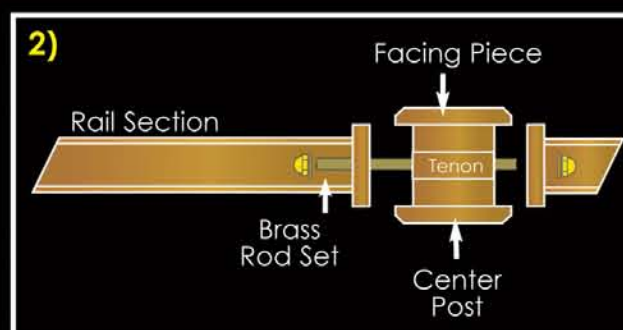
Assembly Hardware (in 12" x 12" box)

3 3/4" Rod for roof	47
5 5/8" Rod for dittmar beam / post connection	10
5 1/4" Rod for dittmar beam	4
8 3/4" Rod for posts, frets and rails	22
Cap Nuts & Washers	186 ea.
Lag/Threaded Hanger Bolts for corner posts	20
4" Screws for dittmar beams	8
8" Screws for frets, dittmar beam and roof	6
5/8" Wooden Plugs for dittmar beams	14
8" SS Anchors Straps for posts anchor	10
2 1/2" SS Nails for corner post trim pieces	16

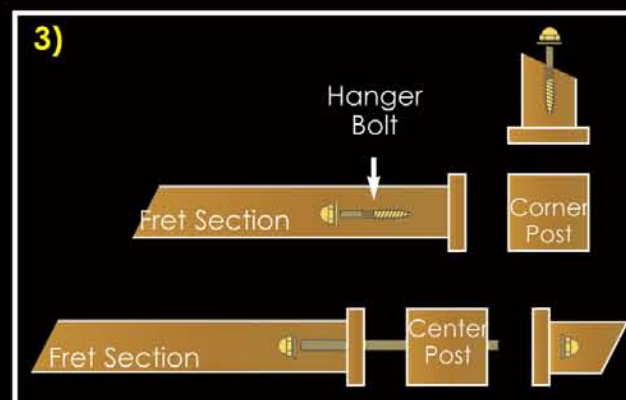
Top View



Start by putting a trim frame over the four corner post and insert the hanger bolts with 2" exposure. Take a corner post and attach a rail section to the perpendicular sides using the hanger bolts to fasten them.



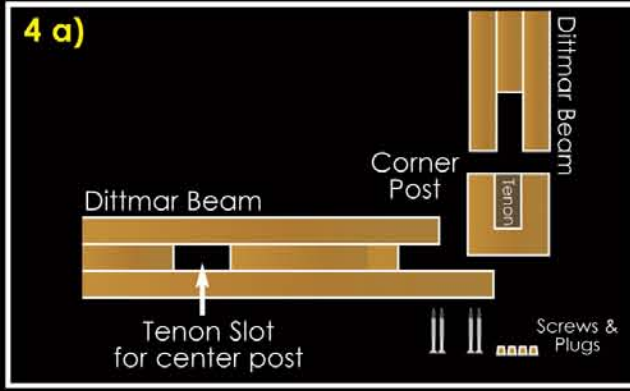
Next attach a center post to the rail sections using 9" threaded rod cap nuts and washers and finger-tighten only. Continue with rail sections and posts until the next corner and all straight sides are assembled.



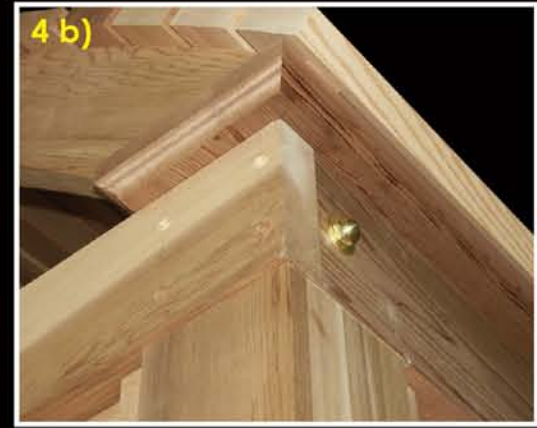
Six of the **Fret Sections** have a 5/8" counterbore hole in the center. These **must be** used on the elongated sides. **Before** installing the fret sections make sure you put trim frames over all posts. Slide each fret between posts, line up the holes and bolt together finger tight. Use a hangerbolt to attach the fret to a corner post and use the 9" threaded rod set to attach a fret to the center posts.



Assembly Instructions for CM-18A



Dittmar Beams are installed on the post tenons and are designed for alignment of both frets and posts.

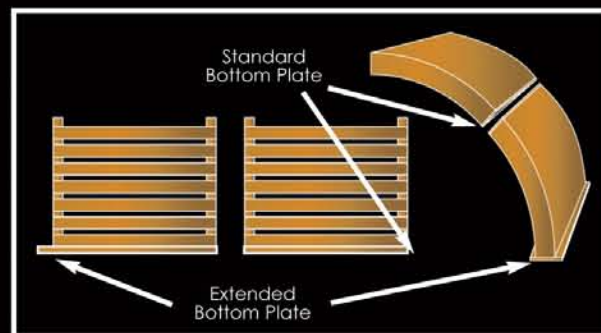


Use the 4" screws provided to fasten the dittmar beams together and plug holes with wooden plugs.

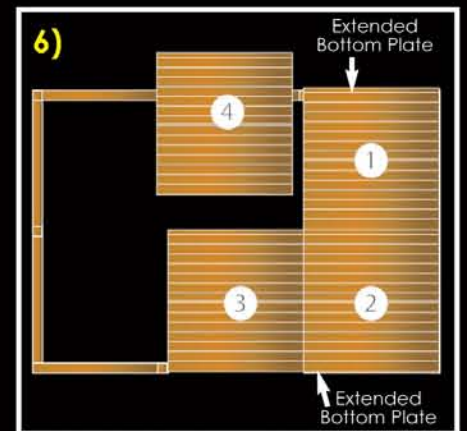
Top View of Beam / Post Connection



Bottom View of Beam with Post



Pre-assemble the roof sections in half arches on their side on the ground. The arch with the extended bottom plate is the first to be assembled and is mounted on the end of the pergola.



From the outside of the pergola lift the roof section over the dittmar beam to the inside where it is bolted tight to the adjacent roof. The first roof will need to be propped. After roofs are in place tighten all fret and rail bolts.



Installing the Spanner Beams requires the removal of the bottom lath piece on **one** of the mid-roof sections. Lay the beam on its side and slide it all the way through to the other side of the opening, then stand it up to bolt it to the roof joists using the 5 1/4" rod set. Replace the lath piece. (The beams will prevent the roof from sagging).

8)

Drive a 8" screws into the counterbore hole on the bottom of fret section to fasten fret, dittmar beam and roof section together. Finish the corner posts by fastening the trim piece to the inside corner using the 2 1/2" nails.

Treating the Cedar - If the pergola was purchased unpainted, we recommend you treat the cedar with an oil-base stain. Stains have the advantage of penetrating deeper into the wood than paint and requires less maintenance.

