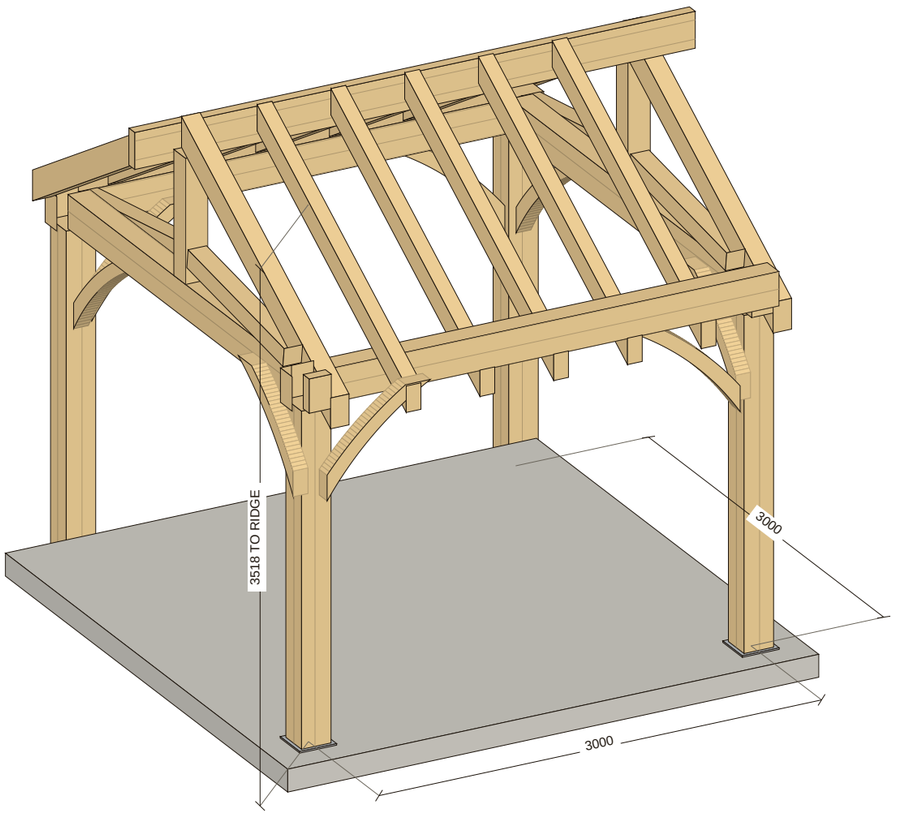
## TIMBER FRAME - FRONT-LEFT VIEW

Roof covering omitted to show the oak structure



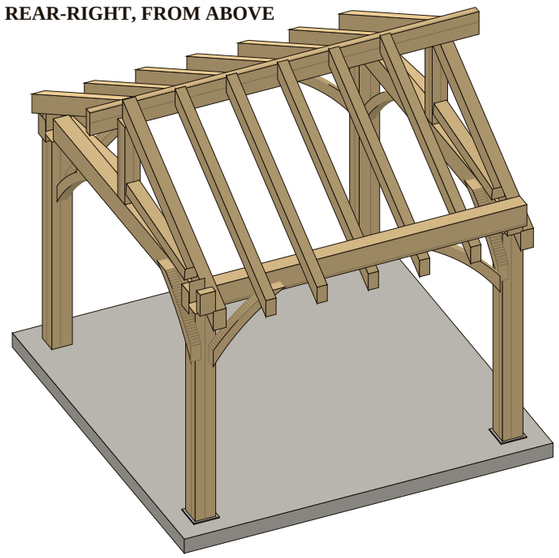

## OAK STRUCTURE

English oak frame, mortice and tenon joints, pegged with 20 dia oak pegs.
Posts 200 x 200.
Plate and tie beams 225 x 150.
Shaped braces 150 x 100, housed and pegged.
King posts 150 x 150; raking struts 125 x 125.
Principal rafters 175 x 125.
Common rafters 150 x 100 at 500 crs.
Ridge beam 200 x 75.
Roof angle 30 degrees [CHECK].
Surface to be clad in slate or cedar [CHECK].
All sizes typical, to be confirmed by structural engineer.

## KEY

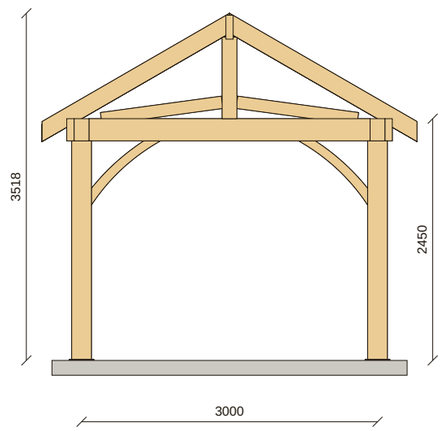
- Post
- Beam / tie beam
- Shaped brace
- Rafters and ridge
- Steel base shoe
- Concrete pad

## ROOF FRAMING - REAR-RIGHT, FROM ABOVE



## END ELEVATION

Scale 1:62 approx




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# THE PAVILION

The Orchard · 3.0 x 3.0 m

Oak timber frame: 3D views and end elevation

| DRAWING NO. | SCALE |
|---|---|
| FO-PAV-ORCHARD-B1 | NTS / as noted |
| DATE | SHEET |
| 07.10.2026 | 1 of 2 |

STATUS

**PRELIMINARY · REV P2**

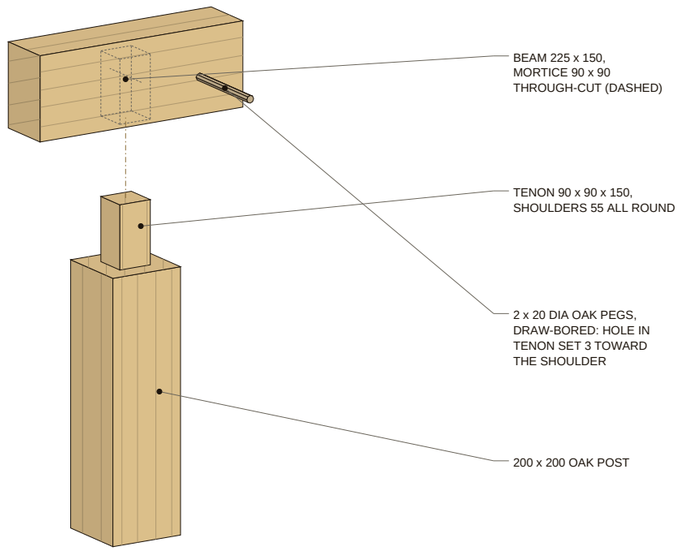
For design intent. Not for construction.

Sizes typical, to be confirmed.

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## A  POST TO BEAM: MORTICE AND TENON

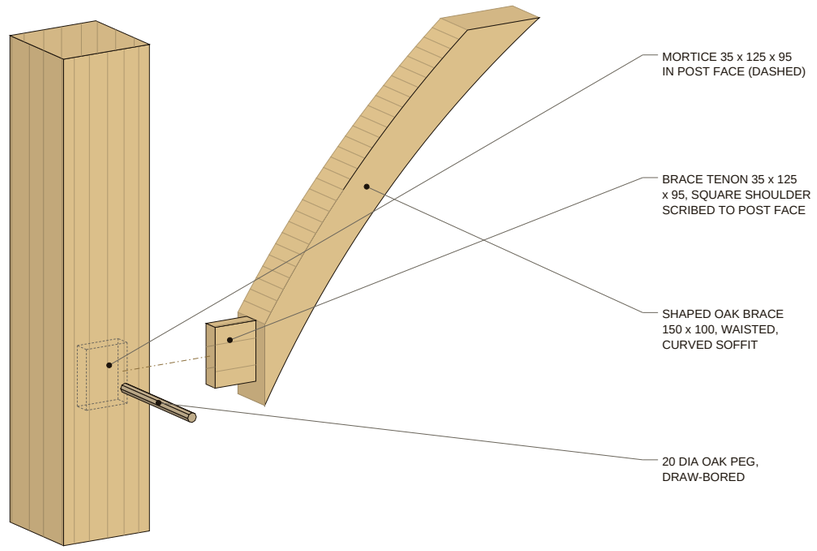
Exploded isometric · not to scale




Tie beam laps over the plate beam at the post head. Peg diameters and positions [CHECK].

## B  SHAPED BRACE TO POST

Exploded isometric · not to scale



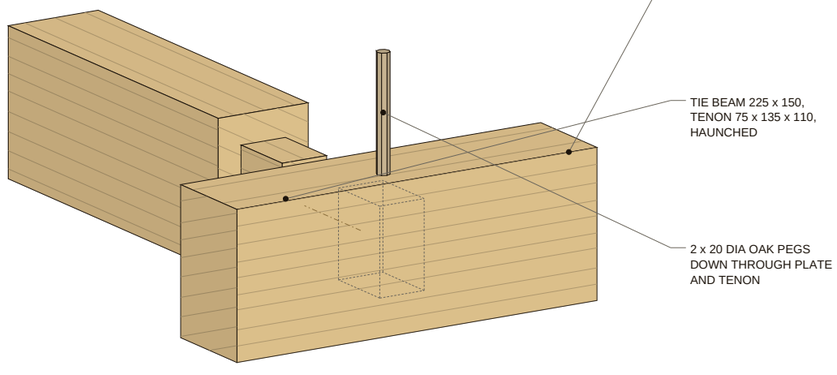

Same joint at the beam end, with the tenon rising into the beam underside.

## JOINERY NOTES

1. Joints shown exploded for clarity.
2. Dashed lines show the mortice or tenon hidden inside the timber.
3. Peg sizes, draw-bore offset and tenon proportions are for the carpenter to confirm [CHECK].
4. Every structural joint in the frame is a pegged mortice and tenon or half-lap. No steel brackets.

## C  TIE BEAM TO PLATE BEAM

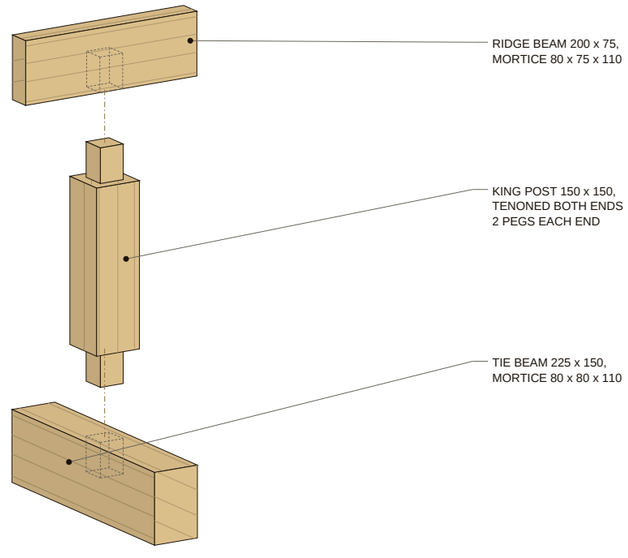
Exploded isometric · not to scale




Tie beam oversails the plate by 150 at the gable. Haunch and peg set-out [CHECK].

## D  KING POST TO TIE BEAM AND RIDGE

Exploded isometric · not to scale




Raking struts and principal rafters are housed to the king post and pegged.

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# THE PAVILION

The Orchard · Mortice and tenon joinery

Exploded joints: post, brace, tie beam, king post

| DRAWING NO. | SCALE |
|---|---|
| FO-PAV-ORCHARD-B2 | NTS |
| DATE | SHEET |
| 07.10.2026 | 2 of 2 |

STATUS

**PRELIMINARY · REV P2**

For design intent. Not for construction.

Joints typical, to be confirmed.

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