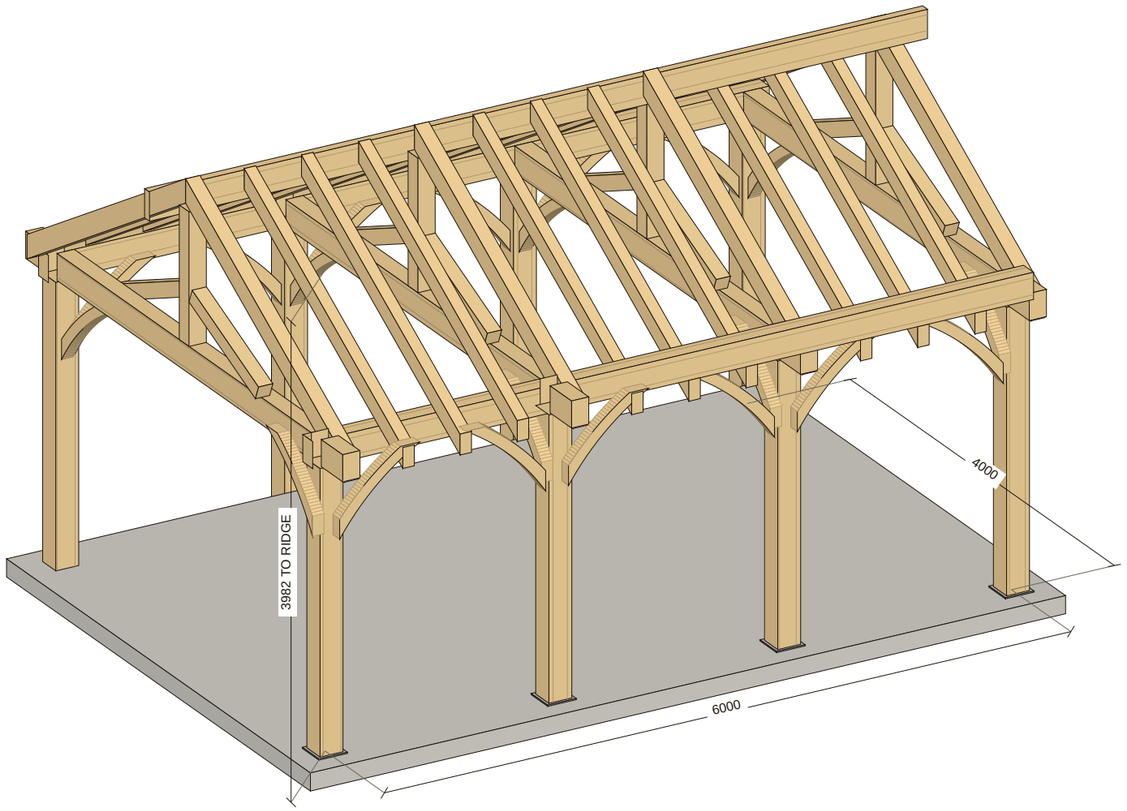
TIMBER FRAME - FRONT-LEFT VIEW

Covering, cladding and glazing omitted to show the oak structure



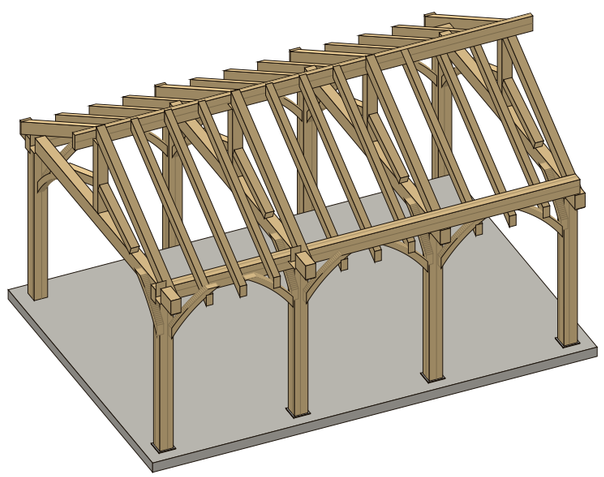
OAK STRUCTURE

English oak frame, mortice and tenon joints, pegged with 20 dia oak pegs.
Post 200 x 200.
Tie beam 225 x 150.
Tie beam end 225 x 150.
Principal rafter 175 x 125.
King post 150 x 150.
Raking strut 125 x 125.
Wall plate 225 x 150.
Ridge beam 200 x 75.
Common rafter 150 x 100 @ 500 crs.
Brace 150 x 100.
Roof angle 30 degrees [CHECK].
Roof covering: natural slate or sedum [CHECK].
All sizes typical, to be confirmed by structural engineer.

KEY

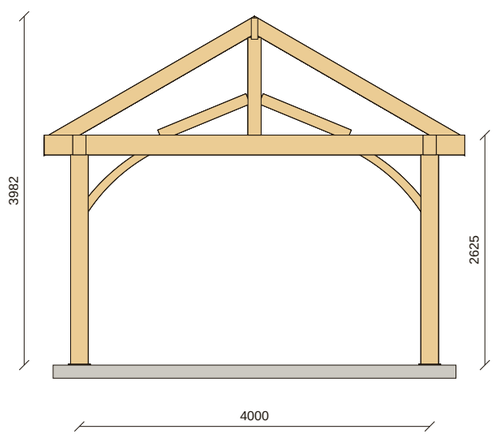
- Posts, beams and braces
- Rafters and ridge
- Steel base shoe
- Concrete pad / deck

ROOF FRAMING - REAR-RIGHT, FROM ABOVE



END ELEVATION

Scale 1:70 approx



FIRE & OAK
OUTDOOR KITCHENS & SPACES

THE GARDEN ROOM

Orangery · 6 x 4 m

Oak timber frame: 3D views and end elevation

DRAWING NO.	SCALE
FO-GR-ORANGERY-B1	NTS / as noted
DATE	SHEET
07.10.2026	1 of 2

STATUS

PRELIMINARY · REV P2

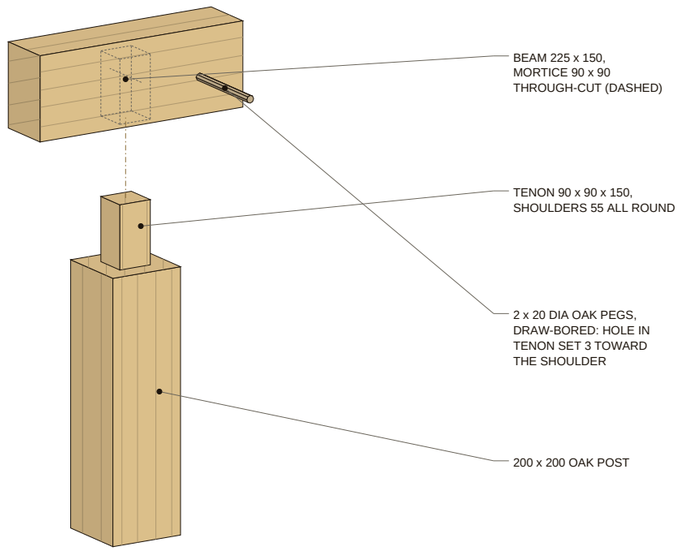
For design intent. Not for construction.

Sizes typical, to be confirmed.

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A POST TO BEAM: MORTICE AND TENON

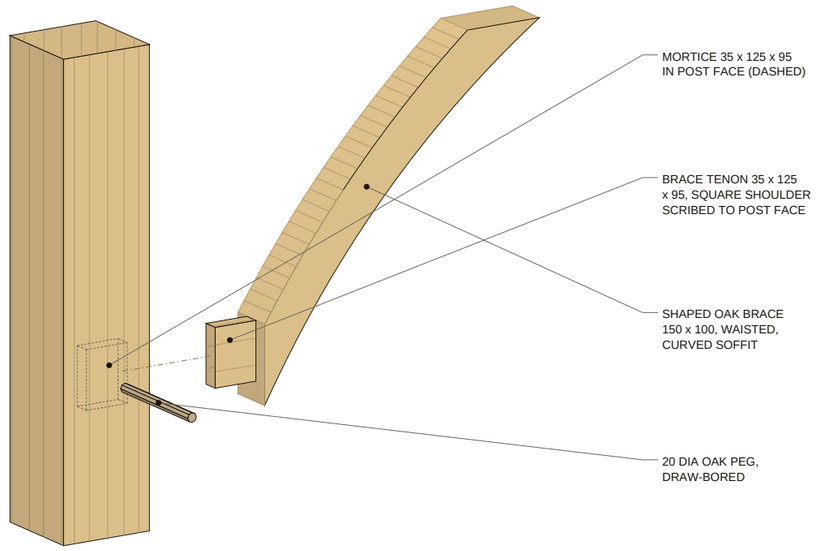
Exploded isometric · not to scale



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



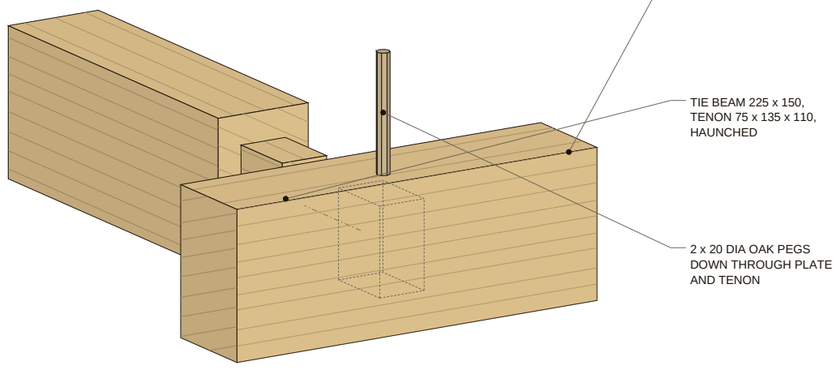
Same joint at the beam end, with the tenon rising into the beam underside.

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

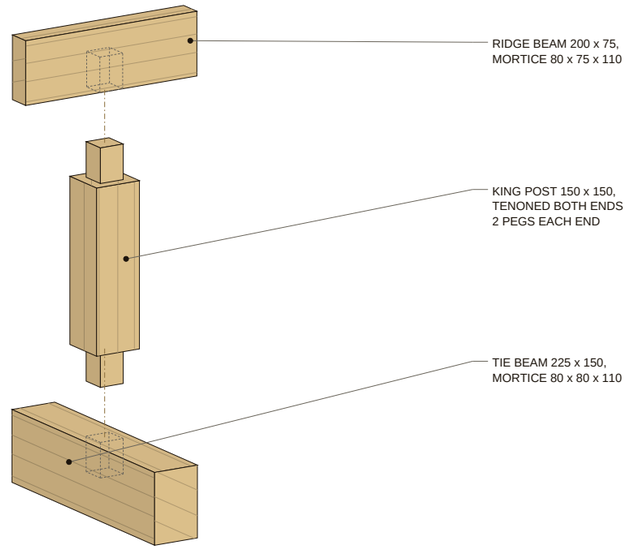
Exploded isometric · not to scale



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.

FIRE & OAK
OUTDOOR KITCHENS & SPACES

THE GARDEN ROOM

Orangery · Mortice and tenon joinery

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

DRAWING NO.	SCALE
FO-GR-ORANGERY-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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