

## BUPLEURUM

Vessels very small to medium sized (mean tangential diameter ranging from 40-125  $\mu$ ); often in clusters and sometimes with tendency to tangential or oblique pattern; number ranging from 5-25 per sq. mm. in different genera. Perforations typically simple, but occasional scalaiform plates with few bars reported to accompany simple perforations. Intervascular pitting usually alternate to opposite, the mouths of the pits horizontal and sometimes coalescing. Pits to ray and wood parenchyma similar, sometimes simple. Mean length 0.25-0.45 mm.

Parenchyma paratracheal, scanty to vasicentric, forming sheaths usually only 1 cell wide round the vessels. Strands varying in different genera from 1-4 & 4-6 to occasionally 8 cells.

Rays usually up to 4 or 5 cells wide; seldom more than 1 mm. high; uniseriate typically few and composed of both procumbent and square to upright cells; rays mostly between 2-8 per mm more numerous where uniseriate are common; usually slightly heterogenerous (Kribs Type IIB), with 1 or 2 marginal rows of square to upright cells.

Fibres with numerous, small, simple pits in radial walls and few in the tangential walls; walls rather thin; mean length 0.3-0.75 mm.