

## COTONEASTER

*Rosaceae*

Vessels typically small (mean tangential diameter less than  $100\ \mu$ ) often very small ( $25-50\ \mu$ ), exclusively solitary or nearly so; typically very numerous (40 per sq. mm), ring-porous or semi-ring-porous in some species; spiral thickening occurs in most species. Perforations usually exclusively simple. Intervascular pitting typically alternate; pits to ray cells similar to intervascular pits. Tyloses rare. Mean member length of mature material about 0.4-0.95 mm.

Parenchyma usually apotracheal only, in scattered cells or short uniseriate lines from ray to ray. Strands typically of 4 cells, occasionally up to 5 or 6.

Rays multiseriate mostly 2-5 cells wide, sometimes of two distinct widths. Uniseriates moderately numerous and composed only of square to upright cells. Typically 9-15 rays per mm. Markedly heterogeneous (Kribs Type IIA).

Fibres with numerous distinctly bordered pits, equally numerous on both tangential and radial walls. Walls thin to thick, often radially flattened and with thicker walls towards the end of the growth ring. Mean length 0.9-1.6 mm.

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*C. microphylla*  
Wall.