

**Fissidens sufflatus** I.G.Stone, *Mem. New York Bot. Gard.* 45: 627 (1987)

T: Majuba Ck, Mt Bartle Frere, Qld, *I.G.Stone 18882*, *A.G.Stone*, *A. Thorsborne* & *M.Thorsborne*; holo: MEL; iso: MEL.

Illustrations: I.G.Stone, *op. cit.* 628–629, figs 1–19, 20–38.

Dioicous. Plants rather robust, 5–10 mm tall, ageing reddish brown. Leaves 6–24-jugate, lingulate, 0.5–2.5 mm long, 0.15–0.60 mm wide, with a swollen refractive border except at the apex and bases of vaginal and dorsal laminae; apex obtuse, abruptly apiculate. Vaginant laminae reaching c. mid-leaf,  $\pm$ half-closed. Dorsal lamina ending abruptly at the insertion. Laminal cells rounded-hexagonal, 9–12  $\mu$ m wide, markedly convex, firm-walled; marginal cells 15–18  $\mu$ m wide, swollen, thick-walled, highly refractive. Margin  $\pm$ entire.

Perigonia and perichaetia terminal but displaced by innovations. Perichaetial leaves with a denticulate apiculus, lacking a swollen border; vaginant laminae shorter,  $\pm$ open, with larger cells. Setae multiple, c. 5–6 mm long. Capsule thecae asymmetrical, inclined, 0.60–0.65 mm long; operculum long-rostrate. Peristome *similiretis*-type. Spores 10.0–12.5  $\mu$ m diam.

Endemic to north-eastern Qld; grows on shaded soil and rock in rainforest.

Qld: Josephine Falls, *I.G.Stone 23840* (MEL); Main Coast Ra., 18 km NNW of Mount Molloy, *H.Streimann 30333* (AD, CANB).