Basionym: *Cribrophaerella danica* BROTZEN 1959, pp. 25, 26, fig. 9 (Invalid ICBN Art. 37.1)

Diagnosis: Placoliths with a central opening spanned by a robust X-shaped structure. The
bars of the central structure are offset, and two of the bars are slightly curved. In cross-polarised light the central structure shows a strong birefringence. The shields are broad and strongly striated, and show a weak birefringence when viewed with cross-polarised light.

**Description:** The species shows a wide variety of morphotypes (pl. 1). The central structure may be fairly simple, with a variable amount of offset of two of the bars. In some cases the central structure is more complex, in the light microscope appearing as if it consists of six separate blocks. In some cases the bars of the central structure appear to be split lengthwise.

**Remarks:** The species differs from *Chiasmolithus edwardsii* (ROMEIN 1979) VAN HECK & PRINS this volume in having a central structure of which the bars are oriented approximately 45 degrees to the axes of the ellipse, and in the offset position and curved shape of two of the bars. It differs from *Chiasmolithus edentulus* VAN HECK & PRINS this volume, *Chiasmolithus inconspicuus* VAN HECK & PRINS this volume and *Chiasmolithus bidens* (BRAMLETTE & SULLIVAN 1961) HAY & MOHLER 1967 in the crystal structure of its central X, resulting in a strong birefringence with cross-polarised light, and in the coarser striation of its shields. It differs from *Chiasmolithus consuetus* (BRAMLETTE & SULLIVAN 1961) HAY & MOHLER 1967 in having a more robust central structure and smaller central opening.

**Holotype:** Text-Fig. 3.

**Type locality:** Limnhamn Quarry.

**Type level:** Danian, *N. saepes* Zone (=NP3) of v. HECK & PRINS this volume.

**Dimensions:** holotype: 12 μm.

**Occurrence:** In the Paleocene, zones NP3-NP6, worldwide. The species tends to be more frequent in boreal provinces.

**Dimensions:** 7-12 μm length.