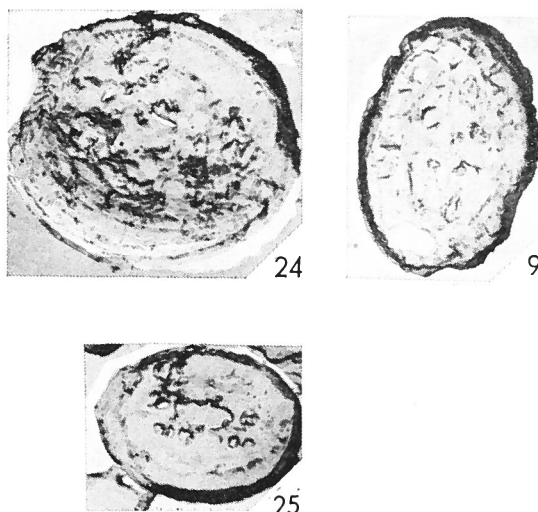


**Arkhangelskiella magnacava** GARTNER, 1968



FIGS. 24, 25, 9 — *Arkhangelskiella magnacava* GARTNER, n. sp., specimens from Austin Chalk of Texas; 24, 25) proximal views, electron micrographs, x 5000; 9) distal view, electron micrograph, x 5000.

**Description:**

Elliptical disc with multiple rim tiers; sutures in central area perpendicular to each other, and aligned with major and minor axes of ellipse.

Description: In the electron micrographs most of the structural detail of this species is obscured by an amorphous layer which may be part of the original structure or may be a layer of fine clay particles. Two or possibly 3 tiers can be distinguished in the rim in proximal view, and very probably a fourth tier is hidden by the larger third tier. The tiers are constructed of about 40 elements which are also largely obscured by the amorphous layer. The sutures, although somewhat obscured, are aligned almost perfectly with major and minor axes of the ellipse. Relatively large perforations line each side of the sutures.

Maximum diameter: 5.5–7.2  $\mu$ .

**Remarks:**

This species and *Arkhangelskiella parca* STRADNER are the only species of the genus in which one suture is aligned exactly with the minor axis of the ellipse and it is possible that these species are closely related.

**Type level:**

Upper Cretaceous (Austinian).

**Type locality:**

Austin Chalk of Texas, U.S.A.; sample 9.

**Depository:**

Department of Geology, University of Illinois. Holotype: UI-H-2432 (fig. 24).

**Author:**

Gartner S., Jr., 1968, p. 38; pl. 18, figs. 24, 25; pl. 22, fig. 9.

**Reference:**

Coccoliths and related calcareous nannofossils from Upper Cretaceous deposits of Texas and Arkansas. Univ. Kansas Paleont. Contr., Serial n° 48, Protista, Art. 1, pp. 1-56, pls. 1-28, text-figs. 1-5.