

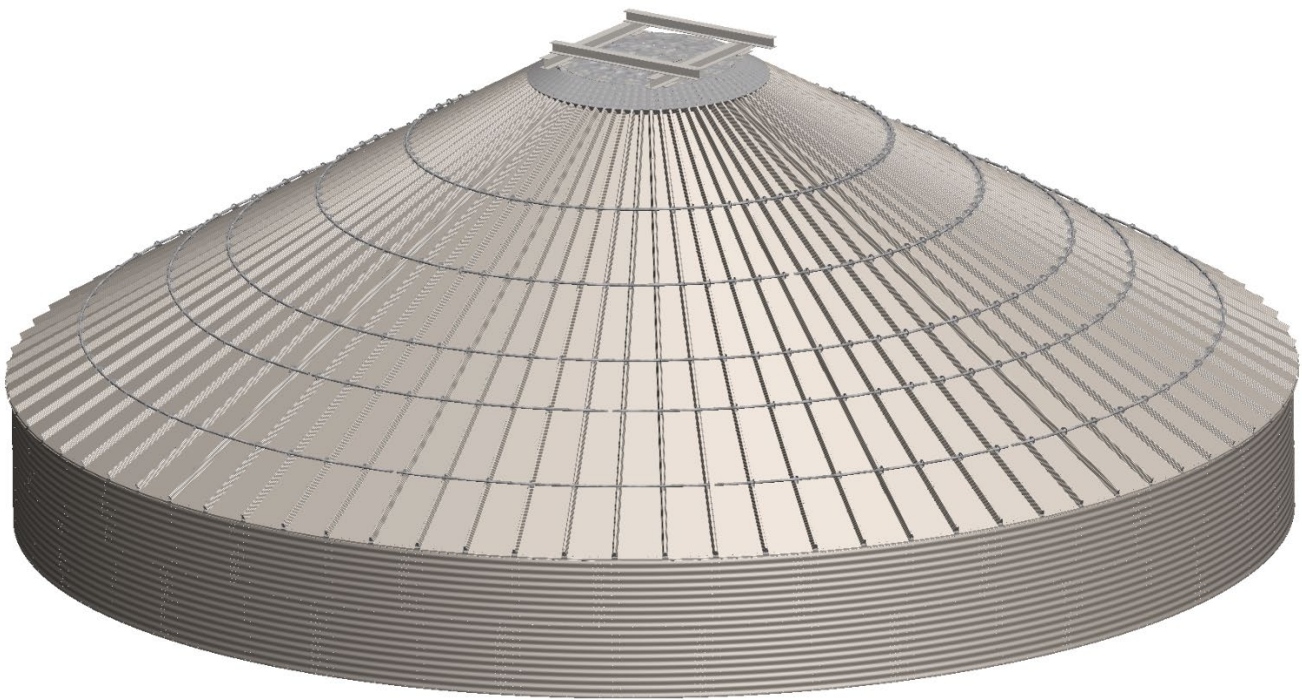


Engineering Bulletin

Subject: No. 20 Unstructured Roof — Design and Load Specifications
From: Keaton Friesen, Structural Engineering Manager
Date: October 2026

New No. 20 Unstructured Roof Design

Chief Agri’s engineering department is introducing the new No. 20 Unstructured Roof Design. The roof features 80 panels connected to a 108-inch-diameter outer peak ring, which is connected by spokes to a 40-inch-diameter inner ring.



No. 20 Unstructured Roof shown with the peak support assembly.

Design Configurations

The No. 20 Unstructured Roof is offered in two configurations with the following ratings:

Specification	Configuration 1	Configuration 2
Peak load	8,500 lb.	12,000 lb.
Ground snow load rating	30 psf	43 psf

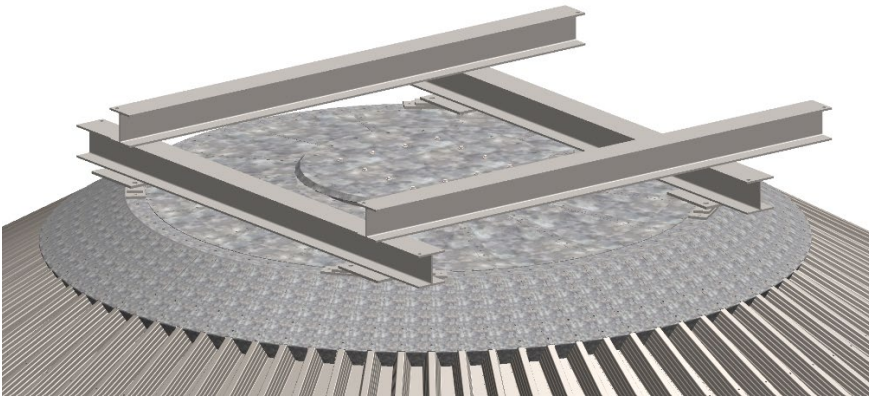
The 12,000 lb. peak load / 43 psf ground snow load configuration includes “Z” under-rib reinforcements along the bottom portion of each roof sheet.



Peak Ring Assembly and Load Application

The roof panels connect to the 108-inch-diameter outer peak ring. Spokes connect this outer ring to the smaller 40-inch-diameter inner ring.

All peak loads are applied to the outer 108-inch-diameter peak ring. Special supports have been designed to accommodate the support points shown below.



Specially designed supports at the roof peak.



Underside view showing the outer peak ring, connecting spokes, and inner ring.

Temperature Cable Provision

Temperature cables are permitted for grain depths of up to 18 rings.