

CASE STUDY

Telecommunications

Project Specs

Location: Douglas County, Colorado
Application: Cellular Site Concealment
Product: Dynaform® Structural Shapes, 1/4" Fiberplate®

Overview

In Douglas County, Colorado there is plenty to “talk” about. As you approach this rural location, you see the predictable farmhouse in the country, but the closer you get you realize that this silo has some unique qualities not usually found on a farm.



Problem

With the growing number of cellular users, comes the need for more cellular towers. Throughout the United States there are many rural areas that require cellular antennas so cellular providers may provide their customers with more quality service. Cellular companies have been looking for ways in which to camouflage antennas within these communities. Farmers and other land owners often rent their land to cellular companies to house antennae.



Solution

The dome structure was constructed of 90% Fibergrate and 10% steel. The silo houses 4 carriers, one being the dominant owner. The remaining structures and barns house the BTS equipment and switchgear.

Fibergrate’s Dynaform® structural shapes were used in constructing the frame, while Fiberplate® (fiberglass reinforced plastic plate) was used to create the dome’s exterior. Not only did Fibergrate create an aesthetic structure, the FRP components won’t interfere with the antenna signals.



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