Competition Composites Inc.

SHAPING YOUR IMAGINATION!

CCI Enclosures

Radomes

Radomes can be used to enclose antennas. The main function of a radome is to provide protection for the enclosed equipment (antenna and other electronics). This improves system availability because the antenna is not affected by wind, rain or ice. It also provides a stable environment for service personnel from harsh weather conditions. CCI radomes offer various benefits, such as minimal structural requirement with the ommission of a steel frame; reduced installation time; and reduced maintenance costs.

Installations of these radomes vary from large terrestrial domes, tower mounted conical shrouds, vehicle and aviation installations. Typical applications include antennas for radar, telemetry, tracking, communications, surveillance, and radio astronomy.

Over ⇨

This radome is our larger cored radome featuring innovative panel joints that minmize RF Scattering.

Potential customers may include: satellite, broadcast, communications, radar, weather and cable industries, defense and government agencies worldwide.

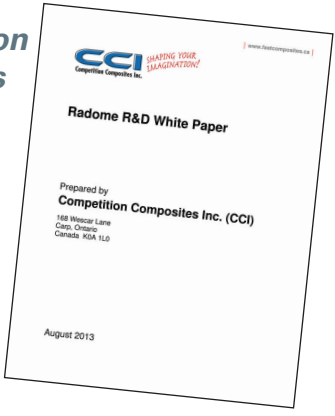
Construction and Materials

Materials used in the construction of radomes include fiberglass, quartz, graphite and Kevlar. Resins include polyester, vinyl ester, cyanate ester and epoxies. Construction techniques include hand lamination, infusion and prepreg fibers. Laminate consistency is a key component in radome performance and as such some manufacturers produce radomes using only prepreg materials.

CCI uses core materials such as honeycomb and foams (thermo formable cores) can be used. For high toleranced specifications a clean room is required. No carbon can enter the laminate as this can significantly reduce system EM performance.

Imagine—*Anywhere you might need weather-proof enclosures for electronic equipment where weight, transmission transparency, strength and longevity are key, you can use a composite radome fabricated by CCI.*

For more information about CCI Radomes please see our white paper at:



www.fastcomposites.ca/site/radomes/