GEODESIC RIGID RADOME

Designed by Buckminster Fuller; developed, tested, and lent to exhibition by Lincoln Laboratory, M.I.T.

Size:
- Diameter: 55 feet
- Height: 48 feet
- Clear span: 3/4 sphere
- Weight: 1,200 pounds

Strength: Withstands in excess of 200 mile per hour winds.

Material: 363 glass-reinforced plastic components in the form of giant diamond and hexagonal cake pans.
- Hexagonals are all same dimension.
- Polyester fiber glass.

Method of Construction: Pans are bolted together. Average 100 man hours.

Special features:
1. All light is diffused so that there are no shadows inside.
2. Can be assembled by unskilled crew wearing mittens (sub-zero weather).
3. Any single component is light enough to be handled by one man.

Uses: This particular dome is used to house radar installations on the Arctic Distant Early Warning Line. Other domes, sometimes using other materials, are:
- U.S. Fair in Moscow (aluminum)
- Restaurant in Woods Hole, Mass.
- Museum of Modern Art Traveling exhibition in India
- Union Tank Car Co. Repair Shop, Baton Rouge, Louisiana
- Marine Corp. - dispersal tents (aluminum and nylon)

Among proposed uses are:
- T.V. Studios
- Ball Park Covering
- Swimming pools, houses, bomb shelters