

# THE MUSEUM OF MODERN ART

11 WEST 53 STREET, NEW YORK 19, N. Y.

TELEPHONE: CIRCLE 5-8900

## 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