



Rigid Radomes

The radomes are erected on site from geodetic panels which are bolted together through pre-drilled holes. The panels, usually diamond-shaped, consist of a frame of polyester-resin with glass reinforcement supporting a thin membrane to provide the 'radar window'. When bolted together they form a self-supporting structure of triangular windows which permit virtually uninhibited radar performance.

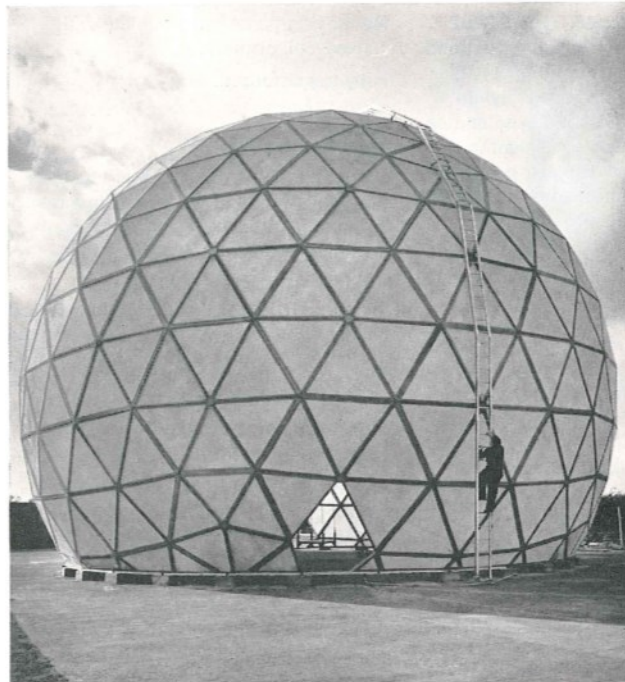
The moulding technique employed in the panel construction ensures a high degree of consistency throughout. The heat and pressure applied during the moulding cycle, together with the air-bleed arrangements, provide a consolidated, high-quality laminate, essentially void-free and satisfying a very rigorous specification.

Features

- Minimum attenuation of radar beam.
- Robust, self-supporting structure capable of withstanding winds of up to 130 knots.
- Constructed of fire-retarding polyester-resin with glass reinforcement.
- Individual panels colour-coded to make assembly easy.
- Life expectancy of not less than 10 years.

Data summary

- Ambient temperature range:** -50 to +80°C.
- Wind loading:** Up to 130 knots (150 m/h) maximum.
- Ice loading:** Maximum loading 20.3cm (8in.) on upper quarter of radome or 40.6 cm (16in.) rime ice on entire



structure in combination with 87 knot winds. (In practice ice formation does not usually amount to more than 1.3 to 2.5cm (.5 to 1in.).

Humidity: Up to 100% including condensation and continuous precipitation.

Dimensions: Spherical radomes are available in the following standard outside diameters:
 9.5m (31ft)
 10.7m (35ft)
 16.8m (55ft)
 18.3m (60ft)
 21m (68ft)

Non-standard sizes to special order. Effective internal diameters range between 31 and 61cm (1ft 4in. and 2ft) less than the stated outside diameters.

Height: $\frac{3}{4}$ of a sphere.

Maximum frequency: Approx. 5000MHz.

Plotting Boards

Type SO 372

This is a wall mounting recorder's table measuring 68.6cm (27in.) x 48.3cm (19in.) and having a plotting area of 56cm (22in.) x 35.6cm (14in.). On it aircraft are permanently plotted on a roll of transparent paper. The roll is fed over an illuminated map or chart.

The table is constructed of light alloy and



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the internal illumination is by fluorescent lighting, coloured cinemoid blue No. 18, the brilliance of which is controllable in 8 settings. One of the principle uses of the Type SO 372 is for keeping a record of interceptions in a radar defence organization.

Type SO 373

This is a floor-mounted version of the Type SO 372. The board is supported on a strong framework of tubular light alloy.