P9704114

j. The Site Survey Report and a copy of the 'Landlord's Information Pack' should be supplied to the building landlord, for information.

3. SATELLITE RECEIVING DISH

a. The satellite dish used in the UK for SDS 4 is the Precision Antennas 90 cm receive only (RO) dish, type number E0911SEA/XX fitted with WR75 output adapter type number ADP11SP, including a circular to rectangular transition.

b. The satellite dish is a circular, 90 cm diameter, axi-symmetric Primary Focus design providing excellent electrical response and mechanical stability.

c. The primary focus feed is supported in position by three equi-spaced 'supports'. The lengths of the tripod arms and their position in relation to the reflector are accurately set using jigs ensuring accuracy and repeatability of assembly during final installation.

d. The reflector has a specially strengthened peripheral rim tube section providing directional stability at the operational wind speed.

e. The reflector components (dish, hub and associated tripod support arms) are manufactured in aluminium to BS 1470).

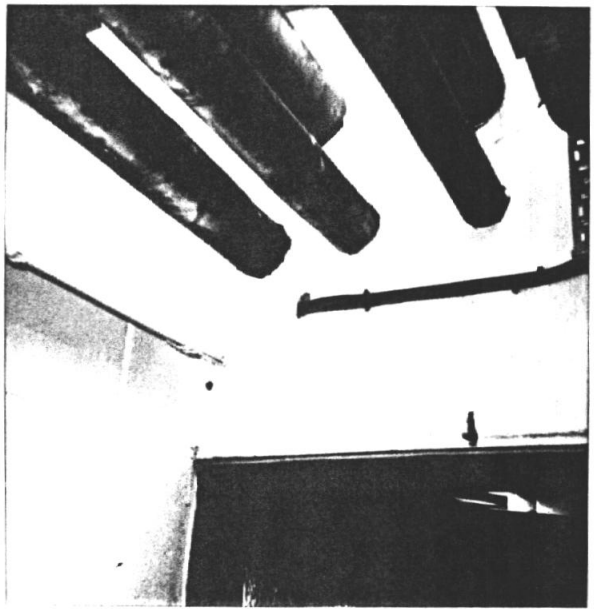
f. The reflector will be finished in a variety of colours, to blend with the intended location. The most common colour is light grey.

g. The dish reflector is illustrated in the following diagram. Wind load calculations for a worst case survival wind speed of 125 mph (200 km/hr) are shown on the diagram.

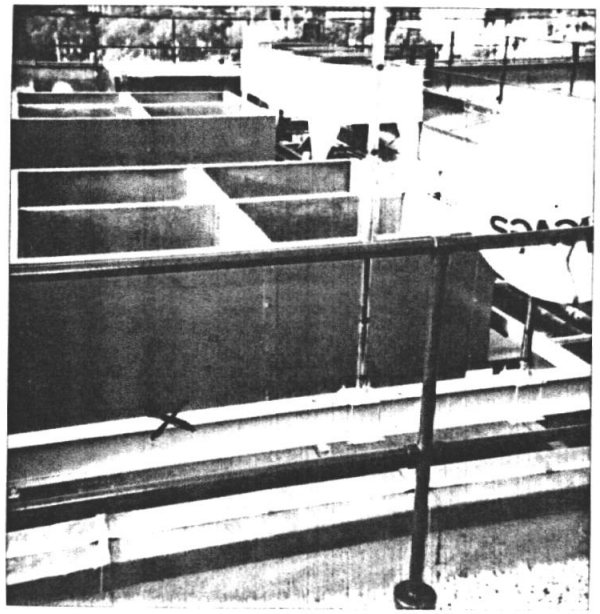
HMA Ltd., Photograph Form , (Installation)

Rev /D002 /BUPA

Building Entry



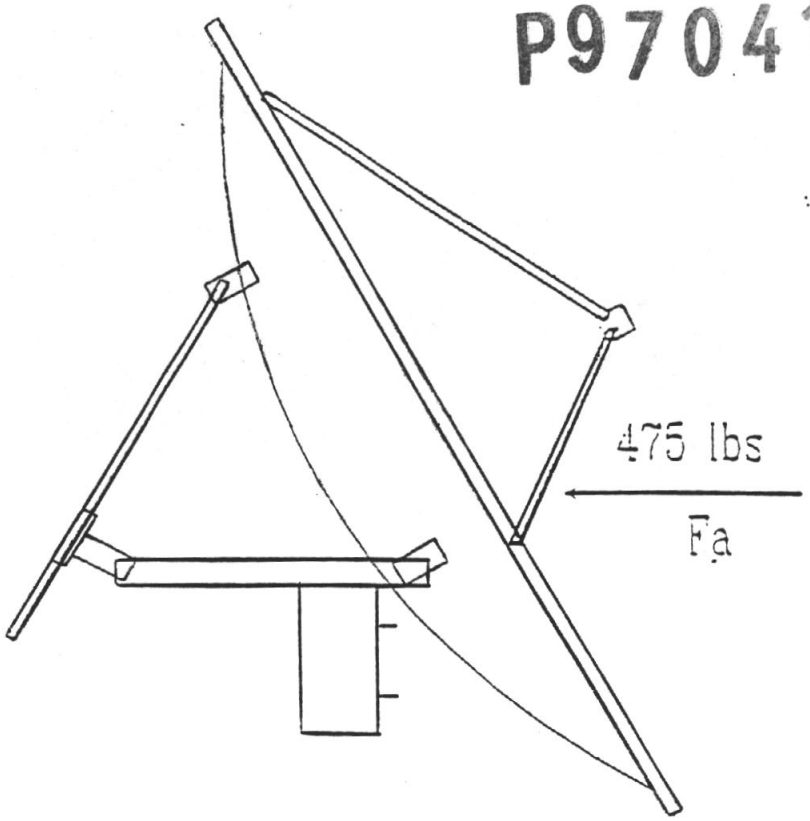
Dish Location



Building Front

* for mount, use standard wall mount set up as for non-pen but acquire metal plate (same dimensions as base plate with holes in same place) and secure with studding, washers, nuts and lock nuts.

P9704114



$Fa = .0043AV^2$

Fa in pounds
A in sq ft.
V in m.p.h

$Fa = .0043 \times pi \times 3\ 7/4 \times 125^2$

$= 475$ lbs

SDS 4 SATELLITE DISH
WIND LOAD CALCULATIONS

h. The dish is provided with a universal wall/ground mount, as illustrated in the following diagram. Where a stand-alone mount is required an adapter kit is available comprising four load spreading arms. The dish structure is secured in place by concrete loads placed on the load plates at the end of each of the arms. The concrete loads are secured to the dish support and the roof surface is protected by the use of rubber mats. Overturn calculations are included on the diagram: the load required at the end of each spreader arm for a worst case wind speed of 200 km/hr is 91 lbs (42 kg) giving a total loading of 370 lbs (168 kg).

P9704114

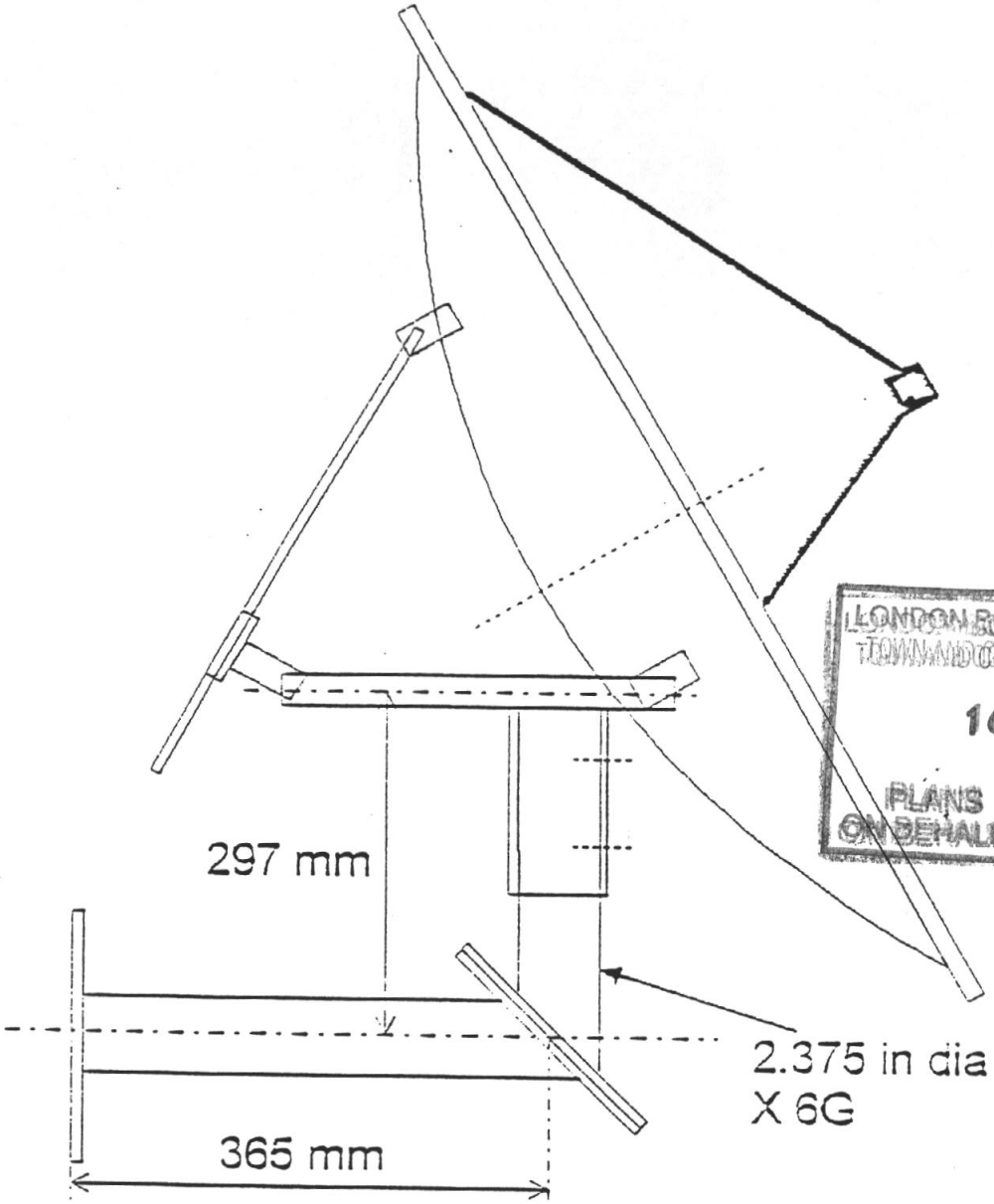


Figure 3: RFTV satellite dish with wall mount