



RADref-p4w

Radar reflector for offshore powerboats

RADref-p4b is designed with a mounting bracket and is most suitable for the use of powerboats and inflatables. It provides a radar cross section of 4 m².

The reflector is made of ABS- and PVC plastics and marine grade aluminium. Due to the rugged design and the materials used, this reflector is in top quality and has less chance of chafing to the sails and rigging compared to similar products.

The best performance is achieved when mounting the radar reflector on the coach roof, a targa or a tunatower in a vertical position as high as possible above the deck. There are 4 holes for fasteners on the mounting bracket, and the reflector is easy to remove when not in use. In order to not block the radar signal, it is important to avoid mounting the reflector in the shadow of sails and other equipment on board e.g. antennas.

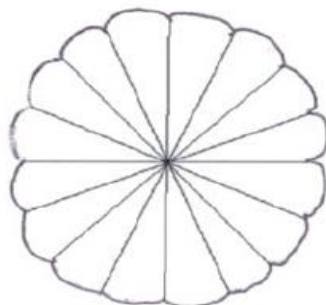
Mechanical Specification:

Material	Aluminium, ABS- and PVC plastics
Dimensions	Ø100-Ø480mm
Height (m/ft)	0.42/1.38
Weight	0.88kg (1.95 lbs)
The Foot (cm/ft)	16x12/0.50x0.40
Mounting method	In the coach roof, a targa or a tunatower
Radar cross section	4 m ²

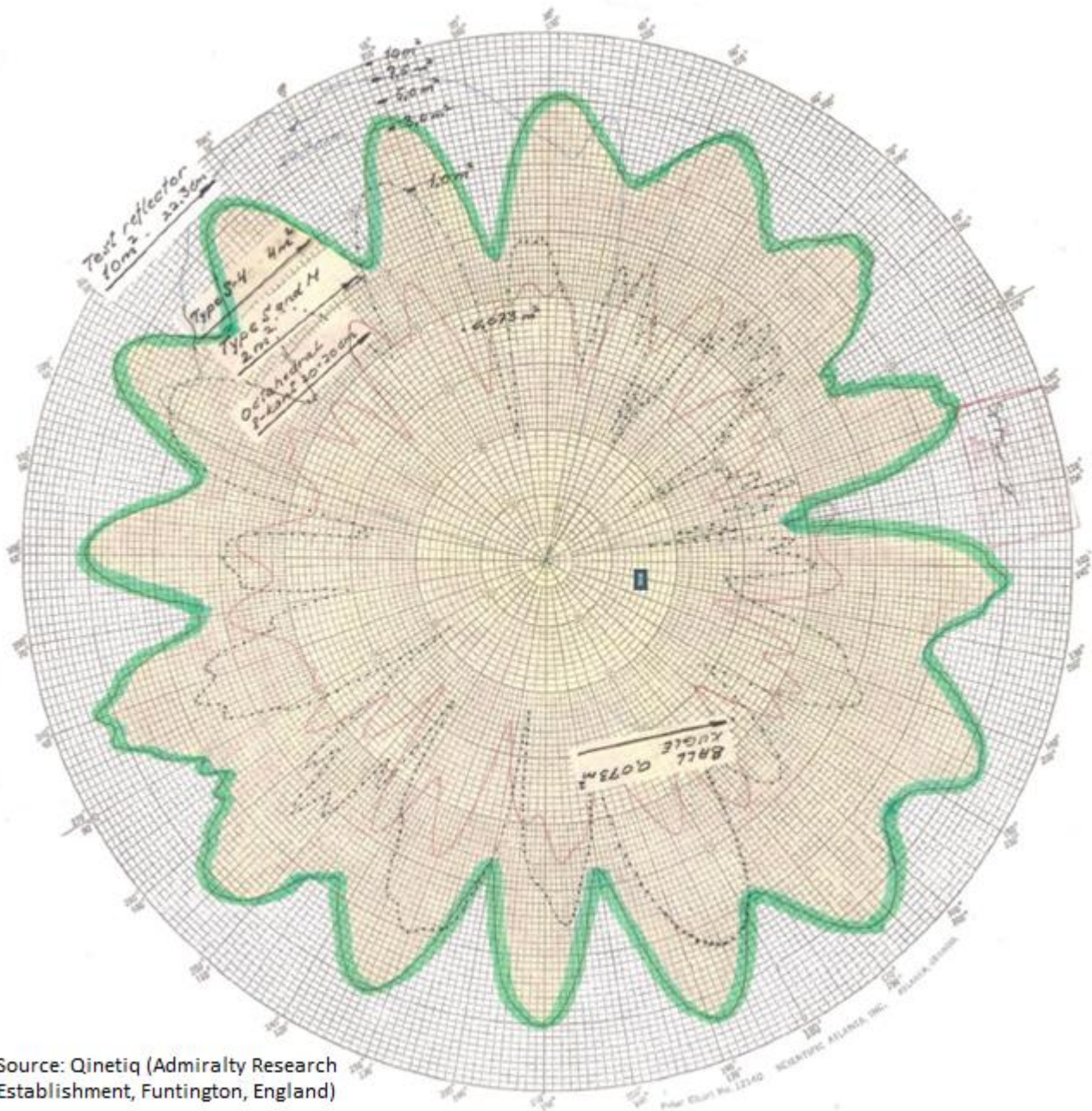


Principles of the AC Marine radar reflector construction

The AC Marine radar reflector p4 is constructed by seven rectangular sections turned 22.5 degree from each other, which enable reflections in 16 different directions. This construction ensures the most effective reflection of electromagnetic radar signals which is due to the many angles covered as well as the compact size of the reflector.



The above illustrates the radar reflector's 16 peeks which enable reflections in 16 different directions with 360 full coverage.



Source: Qinetiq (Admiralty Research Establishment, Funtington, England)

The AC Marine radar reflectors have been tested in terms of radar cross section and the 360° full coverage by the Admiralty Research Establishment in England, today known a part of the British company, Qinetiq. As the above diagram shows, the radar reflector has 16 peaks, one for every 22.5°, which ensures 360° full coverage. Likewise it shows that the AC Marine radar reflector S4 and P4 have a radar cross section of 4m².