

*Bishops Rock Lighthouse Helideck
for the Trinity House Lighthouse Service*

*STRUCTURAL ENGINEERS
Engineer in Chief's Department
The Trinity House Lighthouse Service
STEELWORK CONTRACTOR
Blight & White Ltd*

Judges Comments

This particular lighthouse is possibly the most famous of such structures around our shores and it lacks nothing in stately beauty and fitness for purpose.

The task of adding an exposed steel structure to the head of such a monument without either destroying its efficiency in use or the attraction of its appearance offers a daunting challenge. It is one which has been successfully met.

The functional solution almost inevitably leads to an external bracing system and the designer has built this requirement into an attractive arrangement of the network.

The pattern of the bracing is very functional but it has been varied at different levels so as to maintain the interest and the joints have been detailed to provide an attractive punctuation of the facade.

The grafting of this modern facility onto the traditional structure, shown below, has in no way interfered with the basic function and it provides a very considerable extension to the overall life saving and convenience capacity of the service in a most pleasing manner.

Trinity House removed the dome from the top of the lighthouse before the steelwork contractor arrived on site and provided a helicopter service to transport the steel members from the mainland. The structure was erected by two erectors who lived in the lighthouse with the lighthouse crew. It was completed exactly to programme the steelwork being trial erected at the works before delivery. It was grit blasted and arc sprayed with aluminium to 100 microns followed by a three-coat epoxy paint system. Welded to B.S. 1856 with ultrasonic testing and site bolted using H.S.E.G. bolts.

