

The Millennium Dome

“Construction”



ALPS played a major role in the construction process of the Dome roof, initially working with the mast & roof support contractor during bidding stage to develop a safe and effective lifting & access system to “raise the roof” later to procure and implement the roof lifting & access systems.

ALPS design was simple yet effective, to convert each of the 12 steel masts into a 36 Ton multi-directional crane effectively generating a combined force of 432Tons.

The lifting system was used initially to raise the central hub followed by raising all support radials into place to enable securing pins to be placed and the roof support to be completed.

ALPS supplied a “mast master” for each of the 12 masts all working as a team and each controlling 3 linear winches during lifting.



Left: The central hub was ~30m dia’ and weigh some 80 tons, it had to be raised 50M centrally in order to attach the support cable sockets to the top of each mast.

Right: To accelerate production ALPS equipped each mast with a wire guided powered access & egress platform.



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Continued;



Once the steel wire roof support was installed ALPS continued working on the project for the American roofing contractors supplying and installing special 24M long radial access platforms, (as above), Engineered Access Systems & Specialist Rope Access labour.



Dome roof with fabric net installation in progress.

During this project ALPS designed / supplied:-
All roof installation winches and know-how.
All Industrial Abseilers to install and operate the roof installation winches.
24M long Radial access platforms
On-site supervision for access & lifting tasks

For further information on this project please contact ALPS



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