

Rectangular Concrete Hyperbaric Room for Medical Treatment

Hyperbaric chambers in use today for hyperbaric medicine (HBO) are mostly horizontal steel cylinders or acrylic tubes. Previous studies by the US Air Force recognized reinforced concrete as a possible material for use in hyperbaric chambers. To validate these earlier studies, the US Air Force sponsored a Phase II SBIR contract awarded to Engineered Medical Systems, Inc. of San Antonio, Texas, to construct a post-tensioned concrete rectangular hyperbaric chamber. The chamber is 18 feet wide, 30 feet long, and 16 feet high.

Among the advantages cited for this construction is that the rectangular shape of the chamber tends to reduce patient anxiety. It permits wheel chairs and hospital beds to be easily moved in and out of the space, and there is more usable floor area for litters and more wall space for needed medical equipment. The rectangular shape also allows integration of the room into usual hospital configurations. Fabrication of the concrete hyperbaric chamber is by civil engineering contractors rather than by mechanical contractors, which tends to be faster than has been the case with more traditional chambers made of steel.

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