



Gas Natural, S.A LNG Tank System

BARCELONA, SPAIN

PROJECT HIGHLIGHTS

- Two tanks were constructed with precast concrete panels with a carbon steel wall barrier, each 98' 6" in height, which were prestressed vertically and circumferentially putting the walls in compression and helped significantly reduce stresses during service.
- After construction, the tanks underwent rigorous hydrostatic and pneumatic testing before they were purged with dry nitrogen, then cooled down with LNG. The tanks achieved a total heat influx limit of an impressive 300,000 BTU per hour thanks to insulation that was installed in the annular spaces between the walls and 4" concrete dome roofs.
- At the time of completion, the combined 80,000 m³ (503,200 Bbl / 21 MG) capacity was the largest double-wall prestressed concrete LNG tank system in the world.

Location:	Barcelona, Spain
Consulting Engineer:	Preload Cyrogenics
Construction Date:	1969
Application:	LNG Storage
Capacity:	80,000 m ³ (503,200 Bbl / 21 MG)
Owner:	Gas Natural, S.A.

