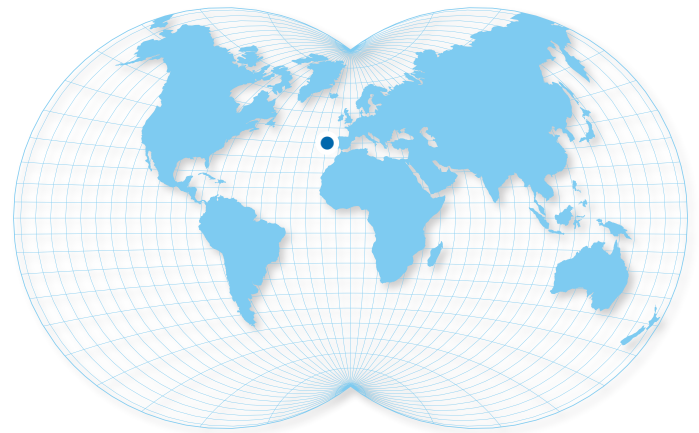


BADALONA, SPAIN: CAMPSA SALM[®]



Scope of Work

SOFEC designed, constructed, and installed a SALM terminal to import heavy fuel oil for distribution in Northwest Spain.

SOFEC determined all environmental forces and performed all structural and mechanical design. SOFEC also designed the seafloor foundation which is a towable, controlled ballast-type mooring base that is supported on short spud piles and anchored via 1,000 tons of crushed and graded granite ballast material.

General Description

Client Name:	Agroman
Contract Award:	1978
Installation Date:	1979
Application:	Heavy Fuel Oil Import

Project Specifications

Water Depth:	33m [107ft]
Tanker Size:	50,000 dwt
Dimension:	4.1m \varnothing x 10.7m

Floating Hose:	2 x 12-in.
Underbuoy Hose:	2 x 12-in.
Hawser System:	15-in. Single hawser
Anchor Leg System:	4.5-in. with Chain swivel
Anchor System:	Pile base

Comments

The CAMPSA SALM is a dual product import terminal used to supply the Barcelona power plant with heavy fuel as well as diesel oil. Due to the particular seabed conditions of the area, the base is nearly 15.2m square with flotation tanks on two sides and enclosed bottom and sides. The base is a combination gravity and short spud pile type. The SOFEC SALM is equipped with a dual conduit fluid swivel to allow the fuel oil to be continuously circulated and heated when no tanker is moored.