



Structural – Offshore Gravity Base Tank



Project details:

Lightweight concrete with a maximum insitu density of 1950kg/m³ and characteristic cube strength of 50Mpa was required to construct an 85,000tonne gravity base tank to support a 23,000tonne drilling and accommodation facility in BP's Harding field 220 miles offshore from Aberdeen. As well as supporting the drilling facility the base was also a storage tank for 500,000 barrels of crude oil prior to export by tanker.

Approximately 32,000m³ of Lytag[®] 4-12mm (now 4/14) and L2 fines (now 0/4) Lightweight aggregate were transported to the construction facility at Hunterston on the West coast of Scotland.

More information is available on this project in a paper produced by Dr Bill Price formally of Taywood Engineering.

Project:

Offshore Gravity Base Tank

Date:

mid 1990's

Client:

BP

Structural Engineer:

Taywood Engineering Ltd.

Main Contractor:

Costain – Taylor Woodrow JV

Readymix supplier:

[Site plant](#)

