



CASE STUDY

PROJECT
TETHERED MOORING
IVANHOE/ROB ROY
FLOATING PRODUCTION
SYSTEM

CUSTOMER
COFLEXIP

PRODUCTS USED
PARAFIL® TYPE A
POLYESTER CORE YARN
100 TONNE NOMINAL
BREAKING LOAD

TERMINATIONS
GALVANISED MILD STEEL

HIGH STRENGTH SYNTHETIC CABLE PRODUCTS PARAFIL® TETHERED MOORING

COFLEXIP | UK

Specialist flexipipe supplier and installer Coflexip chose PARAFIL® Type A cables as permanent anchors for the Ivanhoe/Rob Roy floating production system operated by Amerada Hess in the UK North Sea. The cables anchor mid-water buoyed arches over which the platform's flexible risers hang in lazy-S configuration.

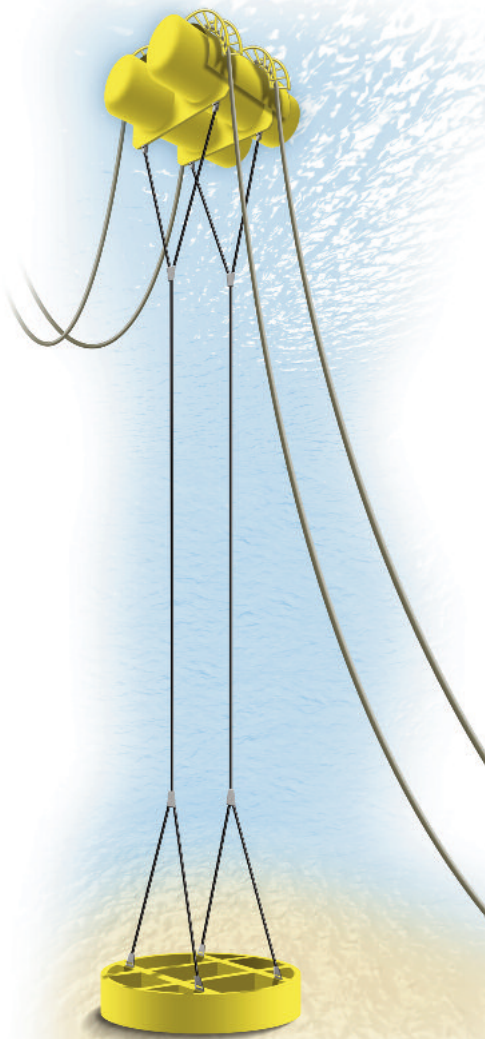
The PARAFIL® Type A cables, constructed from parallel fibres of high strength polyester encased in an extruded polyethylene sheath offer the following advantages in marine applications:

- High strength to weight ratio. In water PARAFIL® Type A has only slightly negative buoyancy.
- High modulus, low creep and good energy absorption and damping.
- Excellent fatigue performance.
- Highly resistant to attack by sea water.
- Smooth surface reduces drag forces and avoids fouling.
- Sheath material is tough giving good resistance to abrasion and fish bite attack.
- Termination technology is fully established and well proven.
- Long continuous lengths can be produced. Up to 10,000 metre runs have been produced for smaller size cables.

PARAFIL® Type A cables used for the Ivanhoe project had a Nominal Breaking Load, in standard terminations, of 100 tonne. Supplied in pre-made 'strops' of 50 metres in length the cables were terminated using standard design terminations and pre-loaded to 70 tonne. Pre-loading ensures full bedding down of the termination. Terminations were manufactured from a corrosion resistant steel alloy and were given additional surface corrosion protection.

The cable has an external diameter of 64mm, a weight in air of 310kg per 100 metres and a weight in sea water of 77kg per 100 metres.

The PARAFIL® cables and termination systems have been tested to loads of 1500 tonne.



Linear
COMPOSITES

Linear Composites Limited
Vale Mills, Oakworth, Keighley,
West Yorkshire, BD22 0EB, UK
Tel: +44 (0)1535 643363
Fax: +44 (0)1535 646889
www.linearcomposites.com
email: mail@linearcomposites.com

Member of the Maccaferri Group

MACCAFERRI

Linear Composites Ltd reserves the right to amend product specifications without notice and specifiers are requested to check as to the validity of the specifications they are using.