

PARALINK™ | Case History

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LPG Bund Case Study

ParaLink™ grades used for basal reinforcement

Client/Design:

Contractor:



The construction of soil bunds to protect 'bullets' which store LPG (Liquid Propane Gas) is often carried out at locations where ground conditions are relatively poor.

While the bullets themselves will normally be supported by piled foundations the soil embankments around the bullets, necessary to alleviate the consequences of accidental combustion of the LPG, may require specialist techniques to guard against instability on the weak soils.

The bunds may be in excess of 12 metres high so soil loads can be very high. In such circumstances it is common to use ParaLink™ basal reinforcement materials both to support the fill around the bullets at the inner parts of the bund and to distribute the resulting loads to the piles and to guard against slip circle failure of the bunds beyond the edges of the pile caps.

To enable the full tensile capacity of the PARALINK™ to be mobilised the outer ends of the laid material are normally anchored by wrapping round, or connecting to, anchor blocks such as stacked gabion baskets.

PARALINK™ with its durable extruded polyethylene coating to the high tenacity polyester fibre load carrying elements is ideal for this demanding application.

Standard PARALINK™ range

PARALINK™ Grade	Mechanical / physical properties										
	100	200	300	400	500	600	700	800	900	1000	1250
Standard roll width (m)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Standard roll length (m)	100	100	100	100	100	100	50	50	50	50	50
Nominal strength in length direction (kNm)	100	200	300	400	500	600	700	800	900	1000	1250

*Alternative product strengths roll widths and lengths are also available.
 Please contact us for further details.*