



CASE HISTORY

PROJECT

SEWAGE TREATMENT
AGGREGATE TANK
FALDINGWORTH, UK

CLIENT

ANGLIAN WATER

PRODUCT USED

PARALOOP
ARAMID FIBRE, 30 TONNE

CONNECTIONS

TENSION-LINK SYSTEM
STAINLESS STEEL

PROJECT DATE

NOV 2020



T: +44 (0) 1535 643363

E: info@primesyntheticssolutions.com

HIGH STRENGTH STRAPPING SOLUTION THE PARALOOP® SYSTEM

FALDINGWORTH, LINCOLNSHIRE. The Faldingworth sewage treatment works is located in rural Lincolnshire, constructed in the 1960s, it features a cylindrical brick tank 2m high and 14m in diameter, containing dense angular aggregates. The regular tank inspections identified cracks that were noted to be opening over time. A decision was taken by Anglian Water to apply a structural support system to prevent the cracks from growing and resulting in failure of the structure.

Prime Synthetic were asked to provide a support system that could be retrofitted to the tank around its various fitments and features. It would need to stabilise the cracked sections of brickwork and catch any pieces that may fall out from the structure over time. The system would need to have a high strength and a very high level of corrosion protection as the site environment is damp and the location is very exposed.





CASE HISTORY

PROJECT

SEWAGE TREATMENT
AGGREGATE TANK
FALDINGWORTH, UK

CLIENT

ANGLIAN WATER

PRODUCT USED

PARALOOP
ARAMID FIBRE, 30 TONNE

CONNECTIONS

TENSION-LINK SYSTEM
STAINLESS STEEL

PROJECT DATE

NOV 2020

HIGH STRENGTH STRAPPING SOLUTION THE PARALOOP® SYSTEM

Prime Synthetic proposed its high performance Aramid fibre Paraloop® product which connected and tensioned using the Tension-Link connector system in stainless steel. This Paraloop® support system would be in-stalled over a primary layer of biaxial Macgrid® geogrid. The lightweight Paraloop® system would then be connected and tensioned using the ten-sion link connectors to produce four bands. Due to the large circumference of the tank, each band was composed of four loops and four tension link connectors to allow efficient and even tensioning.

Anglian Water will continue to monitor the tank and cracks but were very pleased with the simplicity of the system and its ease of installation for this kind of structural support situation.



T: +44 (0) 1535 643363

E: info@primesyntheticssolutions.com