



PROJECT PROFILE

LADWP TRAPEZOIDAL CANAL LINING



PROJECT DATA

Location – Los Angeles, CA

Application – Fiber Reinforcement

General Contractor – LADWP

Ready Mix Producer – Associated Ready Mix

PRODUCTS FEATURED

TUF-STRAND™ SF

Macro-Synthetic Fiber

SCOPE OF PROJECT

Canal lining construction using synthetic macro-fiber reinforced concrete



PROJECT SUMMARY

In 2017 and 2018, the Los Angeles Department of Water and Power (LADWP) had plans to construct several miles of open canals to serve as water diversion and flood control. The original design of these canals specified a 10 in (250 mm) concrete lining reinforced with two mats of reinforcing bars. In order to reduce the time of construction in this canal lining, TUF-STRAND SF synthetic macro-fiber was used at a dosage of 8 lb/yd³ (5kg/m³) as a partial replacement of bars, providing the same level of structural capacity and an improved level of crack control and long term durability. Total volume of the poured concrete was 1,200 yd³ (1,003 m³).