

Building and Construction

DESALINATION PLANT



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When it came time to build the first desalination plant in the United Kingdom, duplex stainless was chosen. Duplex grade 1.4462 was selected for its ability to endure throughout the 60-year lifespan of the plant. Additional benefits included lower overall weight and lower maintenance costs. The plant was constructed in Beckton near London and will treat brackish water. Up to 150 million litres of fresh drinking water will be produced each day.



Location | LONDON, UNITED KINGDOM

Environment | OUTDOOR

Product | LASER WELDED BEAMS AND ANGLES

Fabrication process | LASER FUSION WELDING AND BOLTING

Grade/surface | DUPLEX 1.4462/STAINLESS GRIT BLAST

Material thickness/diameter | BEAMS 512 MM X 132 MM X 6 MM X 13 MM X 18 M SPAN

Weight | APPROXIMATELY 80 TONNES

Competing material | MILD STEEL COATED BEAMS OVER 700 MM HIGH

Date of Completion | 2009

Manufacturer | MONTANSTAHL AG

Material Supplier | MILLSTOCK STAINLESS LTD

Source of Information | MILLSTOCK STAINLESS LTD

Remarks