



# SUNDROP FARMS

Project Case Study



Engineered pipeline,  
fitting & valve solutions



## Sundrop Farms 20Ha Greenhouse Project



**Agriculture:**  
Desalinated water and solar-thermal technology from abundant renewable resources.



**Infrastructure:**  
700 million litres of freshwater saved yearly

### SUMMARY

Sundrop Farms is a leader in sustainable horticulture for dry climates. A truly pioneering organisation, they grow high-value crops in barren areas using seawater and sunlight.

In the unforgiving South-Australian outback, a business is only as innovative as the operating infrastructure it relies upon. When it came time to design and construct a parallel trench for the delivery of desalinated water for Sundrop's inventive saltwater irrigation system, we knew we were up for an exciting challenge.

Our Superlit GRP pipe system was selected by the Sundrop Farms team due to its proven ability to transport salt water without the risk of corrosion. This was a key selection criteria for the project.

Sundrop apply a revolutionary approach to agriculture. The facility grows 15 million kilograms of tomatoes each year using desalinated water and solar-thermal technology from abundant renewable resources.

As a result, their infrastructure needs to handle high volumes of salt water over extended periods of time.

Clover's Superlit GRP aligns with the inventive methodology and perfectly accommodates Sundrop's specific operational requirements. The pipeline sources sea water from the Spencer Gulf in South Australia and delivers it to a state-of-the-art 20 hectare greenhouse facility in Port Augusta.

The team demanded a solution with long life span and a system that was fast and easy to install, with no requirement for site welding. Our GRP handles the hot and dry environment exceptionally well and the pipes superior green credentials were a pressing concern for a business with a focus on sustainability.

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*"Harnessing innovative Clover quality in the harsh Australian outback."*







Need help with your project?

Get in touch.

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## FEATURES

- › Design, manufacture, supply and delivery of GRP pipe, fittings and accessories.
- › The team consulted with relevant stakeholders through project design and construction phases, including detailed examination of parallel trench design and installation training.
- › Total project cost \$175 million.
- › The infrastructure need to handle high volumes of salt water and harsh conditions over an extended period of time.
- › The rural environment also called for a logistic's plan, seeing 12km's of DN600 and DN450 GRP transported into the unforgiving South Australian

To continue in the spirit of innovation, the Sundrop solution featured a mixture of both buried and above ground pipelines to maximise operational efficiency in the challenging site conditions.

Thanks to our Superlit GRP and Sundrop's inspired approach to farming infrastructure, the team now saves 700 million litres of freshwater and 14,000 tonnes of CO2 equivalent per year. Everyone at Clover is proud to have worked with a pioneering business to develop a groundbreaking solution – both literally and figuratively.

**PROJECT** Sundrop Farms 20Ha Greenhouse Project

**WHO** Sundrop Farms

**WHERE** Port Augusta, South Australia, Australia

**WHEN** 2015

**SCOPE** Design, manufacture, supply and delivery of GRP pipe, fittings and accessories

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