

SOLAR LINE GRP / SOLAR ROLL PE55

NIANO
LINE

SOLAR LINE UV GRP PRE-FABRICATED PRODUCT
(INSULATION AND ANTI-CORROSION PROTECTION)

2018



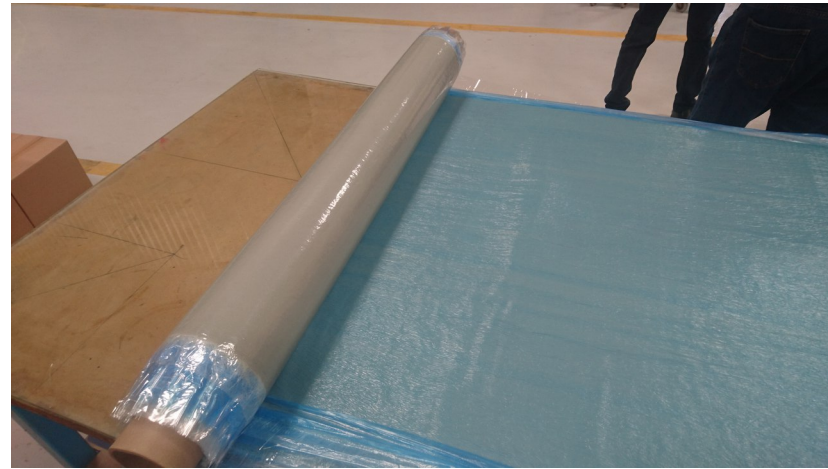
SolarTech International Ltd

- The factory is Founded in 2007 /08
- • International Distribution network
- • Extensive reference list
- • Large history of development and customer focused support and problem solving
- • 2016 Extensive major investment with new manufacturing equipment and facilities
- • Part of an extensive group of companies
- • New manufacturing facilities are ISO 9001, OHSA 18001 and ISO 14001 accredited

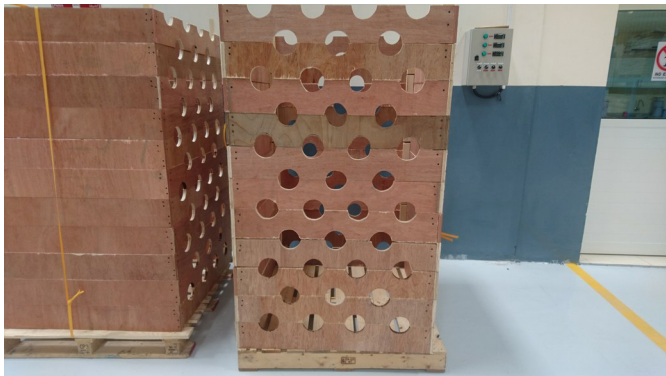
UV GRP SOLAR LINE / SOLAR ROLL

THE LAMINATE IS PRODUCED IN ROLL

SIZE: 0.6m x 10m (6m²) et 1m x 10m (10m²)



SolarLine GRP is a soft, mouldable material held between two barrier films. SolarLine GRP can be easily cut with scissors or a modelling knife.



SolarLine GRP is available in boxes or in wooden supportive cradle

SOLAR LINE UV GRP

INSULATION AND ANTI-CORROSION PROTECTION FOR PIPING, TANKS, VESSELS

- SolarTech International produce a range of UV curing Glass Reinforced Polymer (GRP) including Polyester based systems (Solarline UV GRP)
- These UV curing GRP materials can be hand applied directly to insulation systems, HVAC systems, steel piping / structures (corrosion protection applications) or concrete (bund walls etc).
- SolarTech International have a full range of primer, filling and topcoat complimentary UV curing resin systems – Solar Gel, Solar Seal, Solar Filler etc
- These materials can also be applied onto moulds / tools to create pre-formed insulation fittings and straight sections – SolarClad. • SolarClad has it's own range of adhesives called SolarBond and SolarBond H

SolarLine GRP / Project

Urbain Heating piping in Chambéry France 2018



SOLAR LINE UV GRP or Solartech PE 55

VESSELS IN “KAOMBO” PROJECT OF TOTAL E&P IN 2017 IN INDONESIA



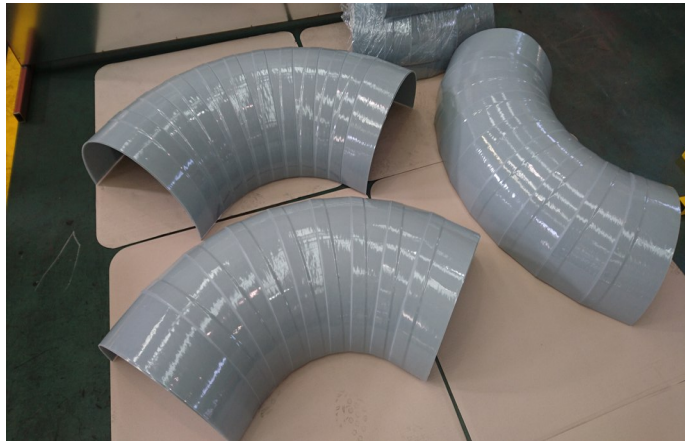
SolarClad

Prefabricated pipe sections and fittings

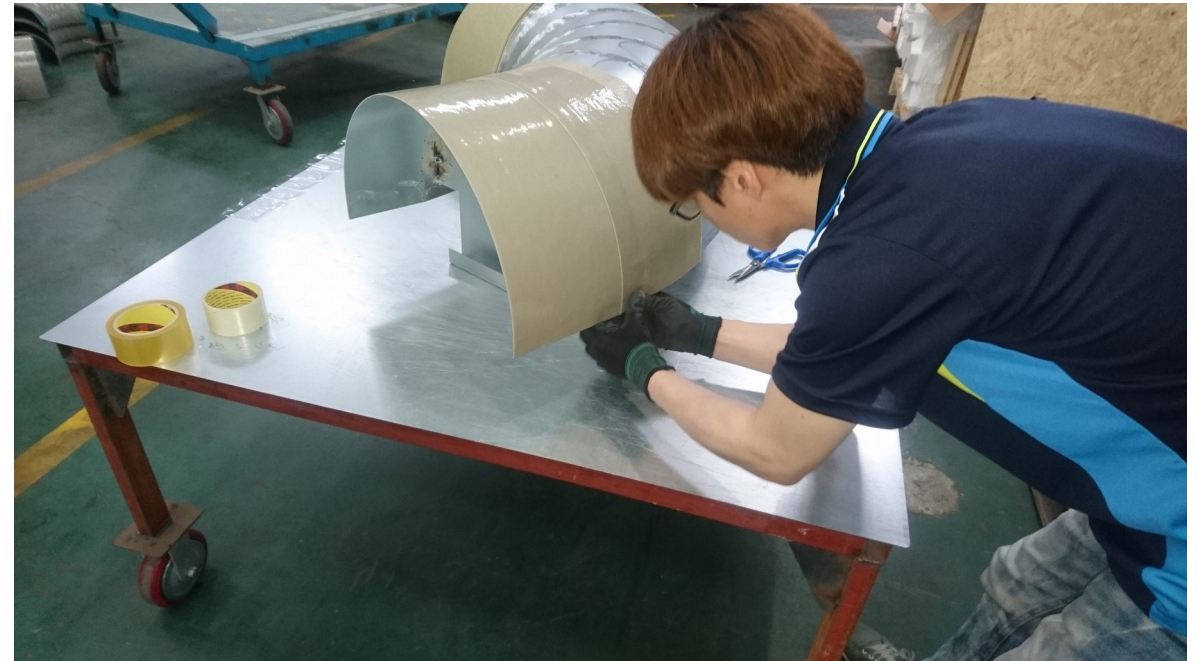
SolarClad insulation cladding is very easy to use and very fast to install, this means that project deadlines are met.

SolarClad has all the physical and fire properties of Solarline GRP (Solartech PE55).

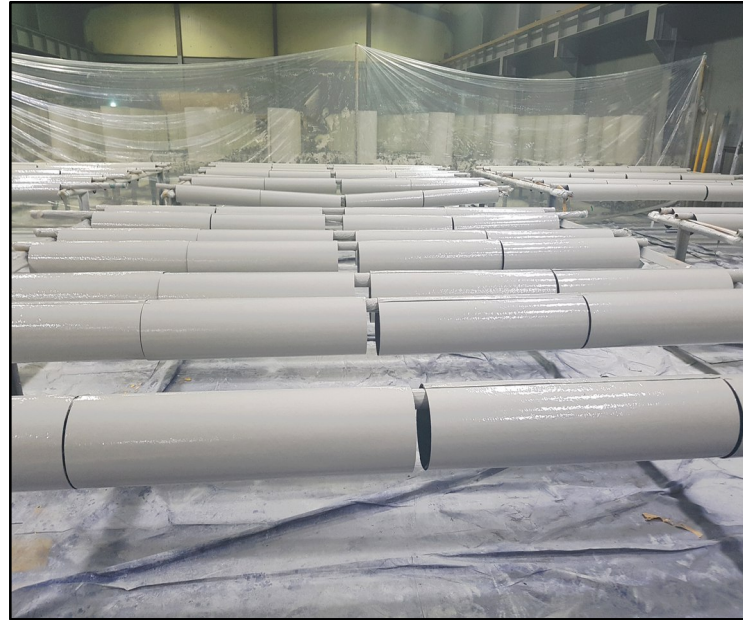
SolarClad is produced in the fabrication facility in South Korea



SolarClad SYSTEM fabrication in Soth KOREA



SolarClad with the special anti algae growth protection coating for LNG JETTY



SolarClad with the special anti algae growth protection coating for LNG JETTY

Technical Data Sheet: - SolarClad with pre-coated anti-algae paint system

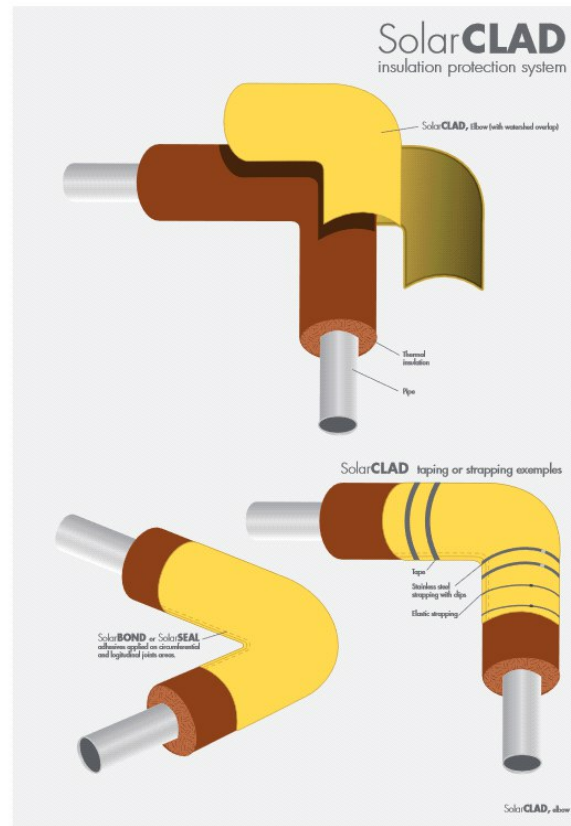
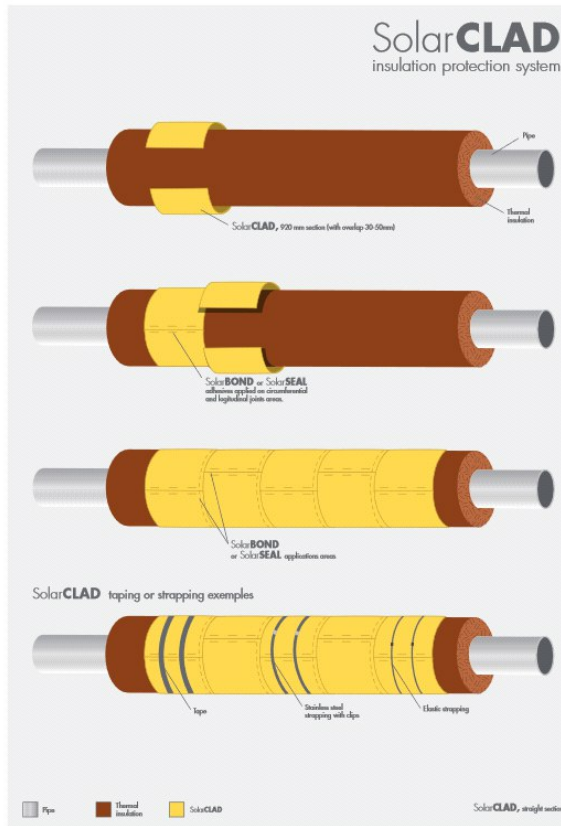
SolarClad is a GRP insulation cladding system that comes pre-coated with an Acrylic Polyurethane paint system that has an innovative anti-microbial additive.


Our internationally used SolarClad GRP is tough and isn't easily damaged, helps to greatly reduce the causes of corrosion under insulation (CUI) and now comes pre-coated with anti microbial paint system.

Especially for cold insulation systems in equatorial regions where mould and algae growth is a serious problem!

➤ SolarClad GRP cladding is used to replace traditional metal systems that suffers a great deal of on site and installation damage.

SolarClad SYSTEM fabrication in Soth KOREA





SolarTech
INTERNATIONAL LIMITED
UV CURING COMPOSITES

SolarClad

Insulation Protection System

Product Information Leaflet

SolarClad is a range of pre-cured pipe sections and moulded accessories such as bends, elbows, t-pieces, end caps, valve & flange boxes etc.... based on our **SolarTech PE 55** UV curing GRP (Glass Re-inforced Plastic) Laminate containing high grade Isophthalic Polyester resins, fillers and glass re-inforcements which have been formulated to ensure excellent protection against corrosion, abrasion, impact and aggressive climatic conditions.

SolarClad products have been introduced to the Solartech range in order to provide a more efficient and improved user friendly application procedure when applying Solartech products to all types of insulation and also as a non metallic cladding system, while still maintaining the integrity of the product.

SolarClad straight pipe sections can be supplied ex factory ready to fit or alternatively pre-formed at site location. The pre-cured sections have adequate flexibility to be sprung open and fitted in position on the pipe section. The wide range of moulded accessories, are supplied to order, ex factory and from approved SolarClad accessory manufacturers.

SolarClad products are bonded together using the **SolarBond** adhesive systems.
(See separate **SolarBond** Product Information Leaflets for full details)

Advantages in using SolarClad:

- Simplified application procedures
- Reduced application time leading to major cost savings
- Reduced Health & Safety issues
- Fully sealed system vastly reducing possible CUI

SolarClad®

Product Data		
Material Thickness	1.7 - 1.9 mm. Material can also be supplied in the 1mm -1.5 mm range	
	Typical Values	Test Values
Tensile Strength	55Mpa	BS 278-1994
Flexural strength	>130 Mpa	ASTM D790-30
Flexural Modulus	5.98 Gpa	ASTM D2344
Elongation & break	>3%	BS 2782 -1994
Coeff. Of Thermal expansion	2.0 10.5 Degree C	ASTM D696-03
Impact Resistance	>60 KJ/sqm	BE EN ISO 180
Hardness	>60 Barcol	ASTM D2583-01
Compression Strength	>200 Mpa	ASTM D695-2002a
Water Vapor Permeability	0.28g/m ² /24/mmHg	ASTM E96
Heat distortion	>145 Deg C	ASTM D648
Fire Rating	Class1	BS 476 pt 7:1997,ASTM E84
Heat Resistance	Wet: 90 Deg C	Dry:200 Deg C
Chemical Resistance	Good: Chemical resistance chart available on request	
Electrical Properties	Dielectricstrength: 9KV/mm as per IEC 243 Arc Resistance: greater than 180 seconds as per ASTM D495 Tracking Resistance: greater than 600 volts as per IEC 112 Insulation resistance: 10 to the power of 13 ohms as per IEC 93	
Application Data		
Application guidelines for the SolarClad System can be obtained from any Solartech agent or by contacting Solartech International Ltd. FZE		
Approvals		
<ul style="list-style-type: none"> • RINA Approved • Conforms to CINI Spec 3.2.11 		



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SOLARTECH Agent:

DISCLAIMER: The information contained herein is to the best of our knowledge accurate and is given in good faith without warranty. Users are deemed to have satisfied themselves independently as to the suitability of our products for their purpose. In no event shall Solartech International Limited be liable for consequent or incidental damages.

SolarClad SYSTEM and its adhesives SOLAR BOND



SOLAR BOND is the specially designed adhesives

We use 2 kind of adhesives to seal the SOLAR CLAD systems and fittings :

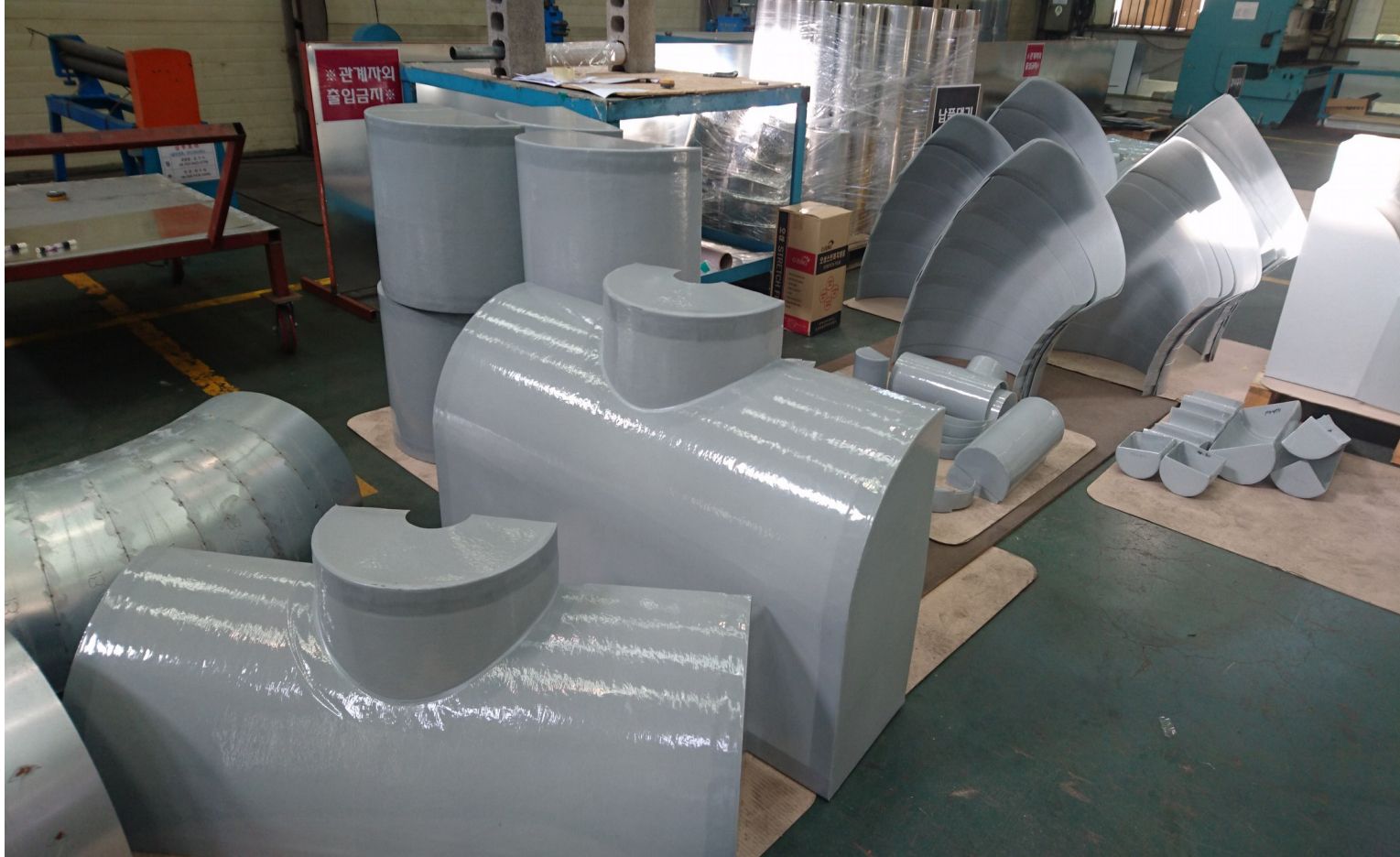
- Solar Bond a standard up to +100°C
- Solar Bond HT (High temperature)

SolarClad SYSTEM

is delivered in ready pre-cured
and anti-algae paint coated pipe sections and fittings



SolarClad / ALL KIND OF SHAPES



MERCI !

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