



Solent Composite Systems



# ProTek™

Passive Fire & Blast Restraint System

- Jet fire & blast protection**
- Structural composite panel**
- Corrosion resistant steel frame**
- Design versatility**
- Lightweight & rigid structure**
- Integrated penetrations & vents**
- Quick & easy installation**
- Lloyds & DNV certification**
- Zero maintenance**



Solent Composite Systems Ltd  
Victoria Barracks  
Albany Road  
East Cowes  
Isle of Wight  
PO32 6AA  
United Kingdom

[www.solentcomposites.com](http://www.solentcomposites.com)  
Tel: +44 (0)1983 292 602

## SCS Capabilities

- Composites Technology Expertise
- Structural Engineering Competence
- Understanding Industry Needs
- Survey & Design Skills
- Site Installation Capability
- Custom Engineered Solutions
- High Quality Fabrication
- Leading HS&E Focus
- ISO 9001 & Achilles Certification
- 15 Years Experience

## ProTek™ Product Range

Fire & Blast Walls • Equipment Enclosures • Underdeck Fire Protection • Temporary Refuge Shelters • Onshore and Offshore • Subsea



Solent Composite Systems

www.solentcomposites.com  
Tel: +44 (0)1983 292 602

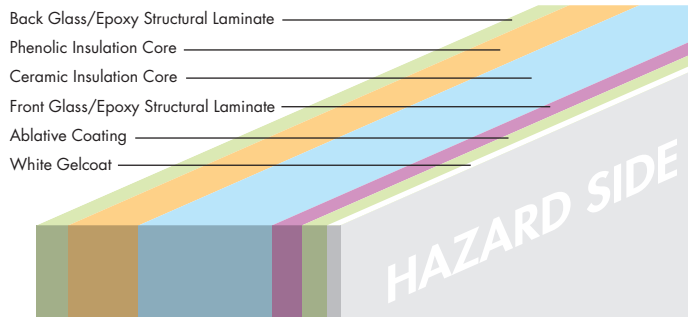
Solent Composite Systems (SCS) has an unrivalled track record in design and manufacture of bespoke jet fire and blast protection systems for highly demanding applications in the offshore oil and gas industry. SCS wide experience in this sector has built a strong portfolio of capabilities and expertise.

The ProTek™ passive fire and blast restraint system embraces advances in composite material development, innovative conceptual design, rigorous FEA engineering and the highest quality manufacturing and site installation - safe turnkey engineered solutions.

**ProTek™ Applications**

- ESDV/Actuator protection enclosures
- Fire & Blast walls
- Marine fire partitions
- Underdeck fire protection
- TSRS & escapeways
- Splash zone riser protection
- Flexible riser PFP
- Subsea structures & encapsulations

**ProTek™ Structure**



Lightweight composite structural sandwich construction comprising an insulating core with epoxy based structural reinforcement skins to withstand high blast pressure. Outer protective gelcoat surface provides long term weather resistance. External ablative layer provides jet fire resistance. Insulation cores reduce heat transfer. Typical weight is 25kg/sq metre at 50mm wall thickness. Mounted on a corrosion resistant steel frame, the panel thickness ranges between 25-60mm, thus enabling bespoke design for alternative requirements. Penetrations, vents and maintenance hatches are easily integrated into the panel.

**ProTek™ Fire Certification**

- 2 hour Jet fire at 0.3kg/sec gas release
- 70minutes Jet fire at 3.0kg/sec gas release after blast at 1.3 barg
- 2 hour Furnace fire to H150 rating
- Blast tests up to 1.5 barg
- Lloyd's Register approval
- DNV approval

ProTek™ is widely used to protect equipment and personnel in hazardous environments - offshore and onshore. Both for topsides and subsea applications the weight-performance ratio offered by composites is second to none. Being virtually inert there is zero corrosion risk and outstanding weather resistance thus ensuring a maintenance-free life for at least 30 years. ProTek™ may be manufactured in a range of size, thickness and shape thus offering engineers wide design freedom to fulfill very precise application requirements.

Fire and blast testing is undertaken by approved test houses, including HSE Buxton, British Gas Spadeadam, SGS Yarsley, Warrington Fire Research and SINTEF Energy Research, Norway.

**ProTek™ projects**

- Statoil Snøhvit - ESDV enclosures
- Statoil Norne - Riser hang off & ESDV/Actuator enclosures
- Statoil Åsgard A & B - Riser hang off & ESDV/Actuator enclosures
- Phillips Judy/Jade - ESDV enclosures
- Phillips Ekofisk - Cladding & Fire & Blast Walls
- Phillips Hewett - Tank & Temporary Safe refuge shelters
- BP Bruce 1 and 2 - ESDV/Actuator & Accumulator enclosures
- Shell Kollsnes onshore - Firewater main & ESDV/Actuator enclosures
- Statoil Sleipner - ESDV/Accumulator Skid Enclosures
- Woodside Laminaria - ESDV/Actuator enclosures
- BHP Liverpool Bay - Subsea SSBV protection enclosures

Solent Composite Systems has 15 years experience and has completed 500 installations of ProTek on Oil and Gas facilities around the world.

**ProTek™ Quality**

Total quality is a fundamental principle of SCS design and manufacturing processes. SCS is accredited to ISO9001:2000 as well as certification to Achilles-reg number 25494. SCS maintains full traceability and has comprehensive manufacturing records, which are held for 10 years.

