



Worldwide Projects

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Project Name: Grand Hotel Tijuana

Location: Tijuana, Mexico

Year: 2015

Application Type: On-site



The hotel, consisting of two towers, was looking forward to celebrate its forthcoming 30th anniversary. To mark the event, major works were carried out to ensure the appearance inside and out looked pristine. Although the interiors were maintained to a high standard, the exterior glass looked opaque and tired. Various products were used to try and clean the glass but all were unsuccessful. The hotel subsequently found out about the ClearShield Eco-System™ and requested a test treatment. Ritec International's Marketing Partner in Mexico, Transparencia en Servicios, was invited to provide a demonstration on what the System could do to renovate and protect the glass. Impressed with the results, the System was specified to both of the towers.

“The results are outstanding”, said The Grand Hotel Tijuana Operations Manager, “It is our privilege to highly recommend their product and service, we are now proudly celebrating our 30th anniversary with beautiful shining buildings.”

Project Name: Parliament of Georgia

Location: Kutaisi, Georgia

Year: 2013

Application Type: On-site



This futuristic building is the pet project of the country's architecture-loving president, Mikhail Saakashvili, and symbolises democratic openness and transparency in a country which, until 1991, was part of the Soviet Union.

Ritec's representative in neighbouring Turkey, Kozmos Cam, was brought in to treat all of the building's glass – 11,500m² – with the ClearShield System™. Early into the construction project, the glass was installed into its aluminium frame. However, continuing building work led to contamination of the newly installed glass with silicone and concrete run-off. Kozmos first renovated the glass back to its original state before protecting the glass from future moisture, alkaline and dirt with ClearShield®. This made the Parliament's glass easier to clean and provide resistance to staining and discolouration.

Project Name: Torre Unipol
Location: Bologna, Italy
Year: 2013
Application Type: On-site



Rising to a height of approximately 127 metres, this tower is the tallest in Bologna and serves as the new headquarters of Unipol Group, a banking and insurance giant. Designed by architectural firm OpenProject of Bologna, Torre Unipol incorporates various environmental innovations that achieved the prestigious (LEED) gold certification.

Although other low-maintenance glass surface treatments were initially considered, the ClearShield System™ was selected because of its many years of track records. Ritec's experienced Marketing Partner in Italy, AST (Advanced Surface Technologies) carried out the on-site renovation and protection work.

Project Name: Marina Bay Financial Centre

Location: Marina Bay, Singapore

Year: 2013

Application Type: Factory



The Marina Bay Financial Centre consists of three office towers, two residential towers and retail space at Marina Bay Link Mall.

Approximately 260,000m² of glass was treated with ClearShield® for this major development prior to installation in order to protect the glass from harsh contaminants during construction.

Project Name: Al Salam Avenue Tower
Location: Abu Dhabi, United Arab Emirates
Year: 2012
Application Type: On-site



The glass façade of this 26 storey-building was suffering from the problem of concrete slurry run-off.

Ritec International's On-Site Team travelled to Abu Dhabi to carry out remedial treatment. The ClearShield System™ was the ideal cure, restoring the glass to its original 'as-new' appearance. The subsequent ClearShield® protection ensured a preventative measure, providing an invisible 'non-stick' barrier to stop dirt from sticking to the glass in the future.

Project Name: World Trade Center II (WTC II)

Location: Jakarta, Indonesia

Year: 2012

Application Type: Factory



Designed by British architectural firm Aedas, and constructed by Balfour Beatty Sakti Indonesia, a joint venture between CCM and Balfour Beatty of the UK, which, together with HongKong Land, represents a unique partnership between Indonesian and UK companies.

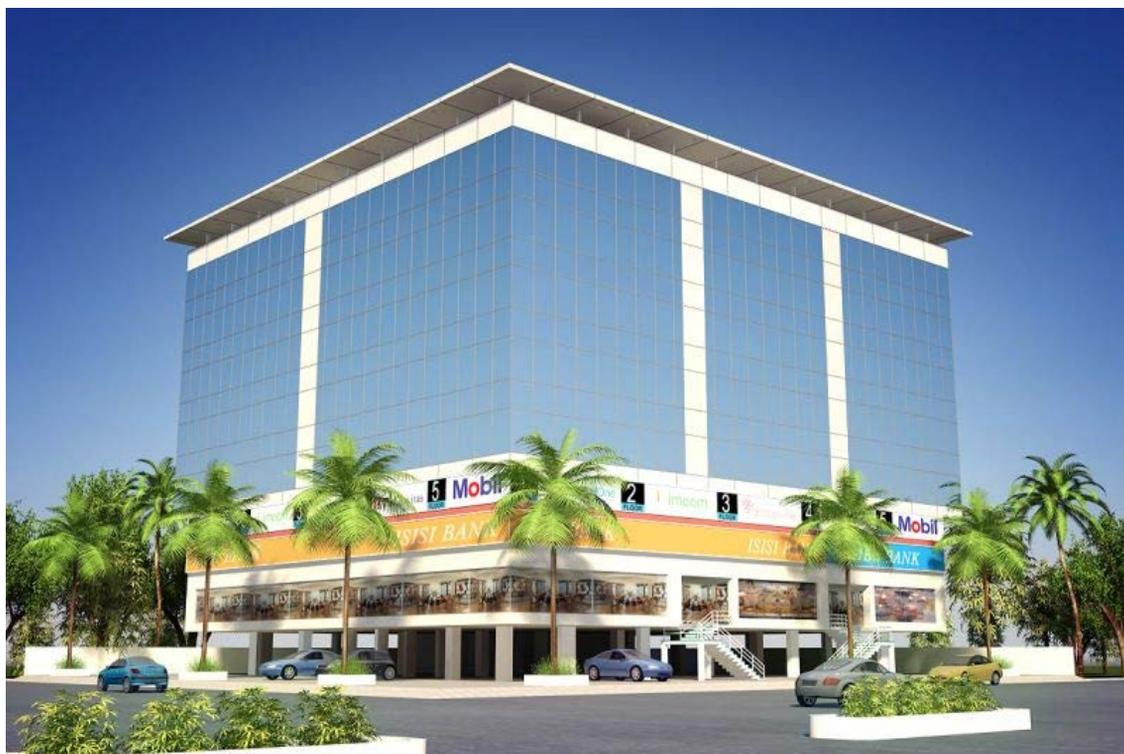
The building is made up of 28 storeys of Grade A world-class column-free office space to cope with Jakarta's ever expanding needs of its multinational tenants and business community. Some 34,500m² of factory-applied ClearShield® glass was installed.

Project Name: Omega Tower

Location: Indore, India

Year: 2011

Application Type: On-site



With almost 1,000m² of high performance Saint Gobain sealed units forming the impressive façade, it was essential to provide protection during construction to minimise any damage from silicone sealants, paint and general dirt stirred up during the build process. Therefore ClearShield® was specified.

After the building was constructed, ClearShield's 'non-stick' properties reduced cleaning frequency and maintained the original visibility and sparkling appearance of glass.

Project Name: International Commerce Centre

Location: Kowloon, Hong Kong

Year: 2010

Application Type: Factory



The International Commerce Centre (ICC) is Hong Kong's tallest building with a height of 484 metres.

ClearShield® was specified to protect the glass during the construction phase. After completion, maintenance of the glass will be made easier thanks to ClearShield's 'non-stick', dirt-resistant properties.

Project Name: Royal Hotel
Location: Beirut, Lebanon
Year: 2009
Application Type: On-site



Close to a major highway and the coast, the unprotected glass façade of the Royal Hotel was looking dull from both traffic pollution and sea salt spray, as well as general dirt and finger marks.

With the ClearShield System™, some 1,400m² of the hotel's glass was renovated to its original pristine appearance and then future protection provided by applying the ClearShield® treatment.

Project Name: Views Boutique Hotel and Spa

Location: Wilderness, South Africa

Year: 2009

Application Type: On-site



This project was carried out by ClearShield SA (PTY) Ltd, Ritec's official Marketing Partner for South Africa.

They were commissioned to carry out on-site treatment to all inaccessible glass, all glass facing the sea, all roof glass, all balustrade glass, all decorative glass as well as shower doors both clear and sandblasted, making 1,500m² in total.

The owners were very happy with the results: "This ClearShield treatment has worked well to keep the glass clean as possible in between cleaning cycles. The coastal weather can be severe, and yet after good rain, our glass [still] looks fantastic."

Project Name: Shanghai World Finance Center

Location: Shanghai, China

Year: 2006

Application Type: Factory



With a height of 492 metres, this building is one of the tallest in the world.

Approximately 100,000m² of glass was treated with ClearShield® in the factory prior to installation. This meant any harsh inorganic contaminants on the glass, such as concrete splatter and cement dust, was easier to remove during construction. Therefore ClearShield® reduced potential costly delays during construction and provided a significantly lower-cost alternative to replacing the glass due to surface damage.

Project Name: Vivaldi Building
Location: Amsterdam, The Netherlands
Year: 2006
Application Type: Factory



This state-of-the-art building utilises a series of environmentally progressive measures and is 10% more energy efficient than current Dutch requirements.

The ClearShield® protection glass ensures that all glazing retains its high photometric properties by remaining resistant to staining and weathering, despite the building's busy urban location.

Project Name: Edinburgh Airport Control Tower

Location: Edinburgh, UK

Year: 2005

Application Type: On-site



Edinburgh Airport is the eighth largest airport in the UK and a new control tower was completed in 2005. The lead contractor was recommended by a control tower design and build specialist to specify ClearShield® to improve visibility for air traffic controllers as well as reduce maintenance needs.

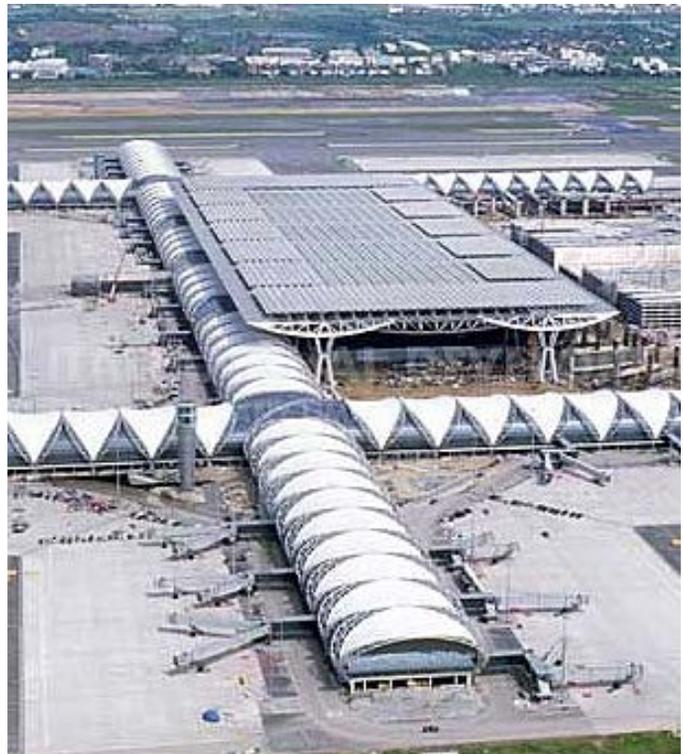
Ritec's On-Site Application Team subsequently carried out the application of ClearShield® on the 57m-high tower.

Project Name: Suvarnabhumi New Bangkok International Airport

Location: Bangkok, Thailand

Year: 2005

Application Type: Factory



ClearShield® helped to reduce costs and delays on the construction site of this new major airport by protecting the glass from cement, concrete and construction dust. Some 100,000m² of glass was treated.

The airport was fully open in 2006, and in the future, the glass will still resist staining from jet exhaust fumes and other contaminants as well as remaining easier to clean.

Project Name: Jury's Inn Hotel Heathrow

Location: London, UK

Year: 2004

Application Type: On-site



When there was a problem with some contaminated glass during the hotel's construction, the main contractor sought the help of specialist window cleaners to clean the glass. However, after this was unsuccessful and with time running out, Ritec was invited to demonstrate the ClearShield System™. With successful results, Ritec renovated and protected most of the hotel's glass, not just those stained during construction.

In the end, almost 400 windows covering seven storeys and an additional 200m² of curtain walling were treated in total.

Project Name: Luton Parkway Railway Station

Location: Luton, UK

Year: 2004

Application Type: On-site



The exterior glass had not been cleaned since the station opened in 1999 so there was a significant amount of dirt build-up. Thameslink Rail, the company that runs the station, had to find a long-lasting solution.

Ritec's On-Site Application Team subsequently treated most of the glass at the station, including the entrance façade and platform shelters. This provided a cleaner and more comfortable environment for passengers and staff alike.

Project Name: Santander SA Offices
Locations: Santa Fe and Querétaro, Mexico
Years: 2002, 2005, and 2008
Application Type: On-site



Transparencia en Servicios is Ritec International's Marketing Partner in Mexico.

One of the company's most prestigious contracts, held now for over 10 years, is the renovation, protection and maintenance of glass with the ClearShield System™ at the three Banco Santander SA office buildings in Mexico, one in Santa Fe and the other two in Querétaro.

The contract covers interior and exterior glass as well as other façades, with some 51,000m² treated on-site in total.

Project Name: Integer Building
Location: Admiralty, Hong Kong
Year: 2001
Application Type: On-site



Integer is a new concept in living design using environmentally-friendly products and systems. All the products used in the building can be recycled and is an energy efficient building. Approximately 250m² of glass was treated.

ClearShield® is considered to be environmentally friendly as it has been proven to reduce the need for frequent cleaning with harsh chemicals. ClearShield® itself is non-toxic.

Project Name: Lev Ha'ir Quarter

Location: Tel Aviv, Israel

Year: 2001

Application Type: Factory



This is a prestigious apartment block located in the heart of Tel Aviv's business and entertainment centre.

The architects and developers specified the ClearShield® protection to 7,000m² of glass which was applied in the factory prior to installation.

Project Name: Würth Museum
Location: Künzelsau, Germany
Year: 2001
Application Type: Factory



This museum opened In May 2001. Visionary Danish architect Henning Larsen of Copenhagen specified ClearShield® for the high quality glass supplied by Interpane. The glass used was 8mm special Ipsol Natura 6634 and a total 2,100m² of glass was protected with ClearShield®. Contamination on the glass during construction was easily removed and reduced delays, thanks to ClearShield® protection.

Project Name: Citigroup Building

Location: Sydney, Australia

Year: 2000

Application Type: Factory



This 63 storey commercial tower is located in Sydney's Central Business District. It was built by Multiplex Constructions and completed just a week before the Sydney 2000 Olympic Games.

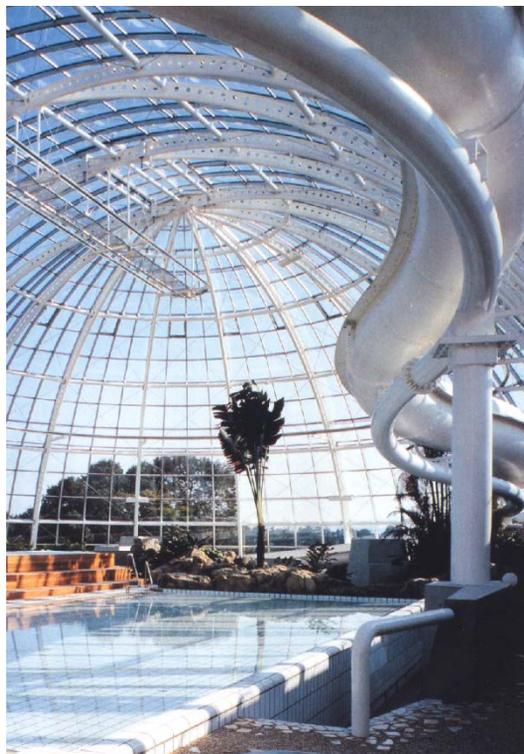
ClearShield® was factory applied in Brisbane by G. James Glass and Aluminium with QA carried out by Hi-Tec. ClearShield® application prior to installation proved to be a masterstroke, as the rest of the façade was made of exfoliated granite and any rainwater run-off was removed with minimum effort during the construction clean-down, also carried out by Hi-Tec.

Project Name: New Glass House, Tsuyama Green Hills

Location: Okayama, Japan

Year: 1998

Application Type: Factory



ClearShield® was specified for all the external glass, totalling 5000m² of barrel vault roofs and exterior walls.

Most are FL 5mm + 5mm laminated glass which had been factory-applied with ClearShield® by Nakajima Glass Industries.

Project Name: Los Angeles International Airport

Location: Los Angeles, USA

Year: 1995

Application Type: On-site



This airport is one of the busiest in the world, handling over 60 million passengers annually.

External glass was renovated and treated with ClearShield® to provide better visibility and reduce maintenance requirements.

Project Name: Lloyd's of London

Location: London, UK

Year: 1991

Application Type: On-site



The owners of the Lloyd's Building found that paint on the frame around the atrium was shedding and plating onto the glass and adhering to the surface, making cleaning extremely difficult. The glass was successfully converted to ClearShield® 'non-stick' glass.

Today, the paint still flakes, but thanks to ClearShield® is easily wiped off and conventional cleaning methods are still sufficient to maintain the pristine condition of the glass.

Project Name: London Heathrow Airport

Location: London, UK

Year: 1987

Application Type: On-site



London Heathrow is one of the world's busiest airports, a major hub of the aviation world.

The glass of the VCR (Visual Control Room) was cleaned daily to remove the dirt in an attempt to maintain good visibility for air traffic controllers. This was still deemed as high-maintenance and a better solution was sought. Ritec was called in to renovate and protect the glass with the ClearShield System™. The windows need only be cleaned once a week instead of daily, so it reduced maintenance by 85% plus clarity was improved for workers.

Project Name: Balthazar Restaurant

Location: London, UK

Year: 2013

Application Type: Factory



This second Balthazar restaurant was launched to great critical acclaim in Covent Garden and features stunning glass 'Art Deco' style interiors which are synonymous with the brand.

Having used Ritec's 'non-stick' glass surface treatment for many years, Go-Glass in Cambridge factory-applied ClearShield® to the special acoustic laminated glass, in which they had etched a sandblasted border design. Not only is the glass easier to clean and keep clean for a longer-lasting pristine appearance, it is also more hygienic thanks to ClearShield's anti-microbial properties.

Project Name: The Savoy Hotel

Location: London, UK

Year: 2010

Application Type: Factory



The Savoy Hotel, one of London's best-known landmarks, reopened in October 2010 after a major £220m refit. The newly created Beaufort Bar, theatrically decorated in an Art Deco design of jet-black and burnished gold, plays host to live entertainment, exclusive champagne and cocktails.

At the centre piece of the bar is a stunning glass panel which features an intricate vine pattern created by Daedalian Glass, a licensed applicator of the ClearShield System™. Crafted from a pane of annealed glass laminated to a toughened backing panel and protected with ClearShield® to resist fingermarking, the 3000mm x 675mm design took the Daedalian team a month to complete.

Project Name: The Modern
Location: New York, USA
Year: 2007
Application Type: On-site



The Modern, housed within the Museum of Modern Art (MoMA), is one of New York's finest restaurants. Its contemporary design, inspired by the Bauhaus movement, has earned considerable acclaim as well.

The fine dining experience there has been enhanced thanks to ClearShield®. Low iron sandblasted glass throughout the restaurant's interior was treated by SurfaceCare, a licensed applicator and specialist in glass restoration. This resulted in a fingerprint-free, pristine appearance that is easy to maintain.

Project Name: Rockefeller Center

Location: New York, USA

Year: 2006

Application Type: On-site



The building is owned and managed by Tishman Speyer, a very large and well-known real estate investment company.

ClearShield® treatment was carried out by SurfaceCare, a licensed Applicator based in New York. Prior to treatment, Tishman Speyer was constantly frustrated with cleaning the acid-etched glass elevator doors and considered replacing them at great expense, even though the glass was relatively new. The ClearShield System™ helped save money and gave them a long-term solution to keep the glass doors looking like new.

Project Name: Johannesburg International Airport

Location: Johannesburg, South Africa

Year: 2004

Application Type: On-site



Johannesburg International Airport serves as the primary airport for domestic and international travel to/from South Africa and is Africa's busiest airport, handling over 16 million passengers.

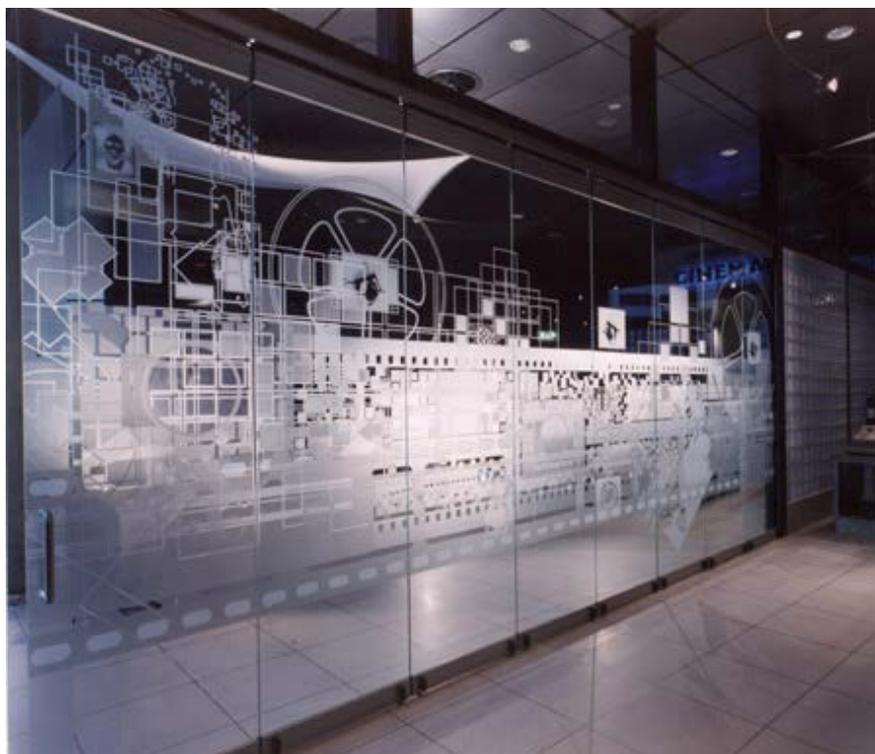
Both clear and sandblasted glass surfaces were renovated and protected with the ClearShield System™ in and around the airport, including glass balustrade panels, airline offices, viewing deck, security doors and escalator areas.

Project Name: National Museum of Photography, Film and Television

Location: Bradford, UK

Year: 2002

Application Type: On-site



Daedalian Glass is a well-established decorative glass company and were commissioned by the Museum to create a screen for the coffee shop, with all work to be completed on-site.

The perceived problem for staff was sticky fingers from users of the coffee shop would make the new sandblasted glass screen look dirty. However, this was not a problem for Daedalian as all glass supplied has ClearShield® applied as standard to protect from fingermarking and dirt.

Project Name: Voile D'or Hotel
Location: Bel Ombre, Mauritius
Year: 2005
Application Type: On-site



This luxury four-star hotel is located in the South West Coast in the beautiful Mauritian countryside.

Glass shower doors in all of the hotel's 180 rooms were treated with ClearShield® for easier-to-clean, pristine-looking glass as well as improved hygiene. Many other hotels in the region have also had the benefits of ClearShield® treatment on their glass shower enclosures.

Project Name: Bláa Lónið (Blue Lagoon)

Location: Grindavík, Iceland

Year: 2004

Application Type: On-site



The Blue Lagoon geothermal spa is one of the most visited attractions in Iceland.

The silica-rich environment constantly contaminated the glass, so it requiring regular maintenance to keep clean. The glass was subsequently renovated and protected on-site with ClearShield® to keep the glass looking like new.

Project Name: The Sanderson Hotel

Location: London, UK

Year: 2002

Application Type: On-site



The Sanderson clearly seeks high standards, with the best service and surroundings for its customers, so the use of ClearShield® to re-invigorate the bathrooms was a natural choice.

Ritec was called to renovate and protect sandblasted glass shower cubicles in 150 rooms. As a result, they were easier to clean and created a greater hygienic environment as ClearShield® impeded adherence of bacteria.

Project Name: Solar Panel Trees

Location: Oss, Netherlands

Year: 2013

Application Type: Factory



In the carbon-neutral avenue named 'Road of the Future' which lies in between Oss and Berghem is an incredible new solar structure designed to fit in with its surroundings – a technology business park.

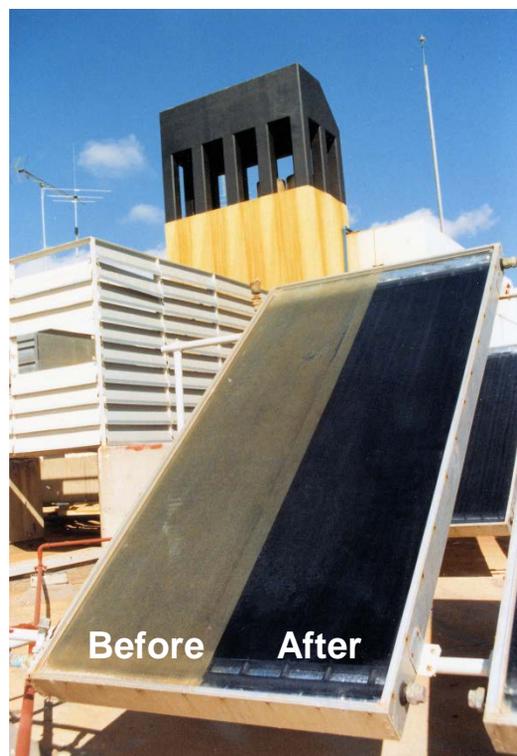
The structure is in the shape of a tree and includes branches and twigs. However, its 'leaves' are made up of solar panels which are used to produce energy for businesses on the park. The solar tree is an impressive twelve metres high, with a twelve-metre diameter. All of the solar panels are protected with ClearShield® to resist traffic pollution and general dirt in order to optimise light transmission.

Project Name: Cypria Maris Hotel

Location: Pathos, Cyprus

Year: 1988

Application Type: On-site



Cyprus enjoys over 330 sunny days annually so solar panels installed on hotel roofs for heating water is not an uncommon sight and the Cypria Maris is no exception.

However, the hotel's location created problems for its solar panels. First, they faced the sea, so contaminants from the sea bonding on the panels was extremely corrosive to the surface. Secondly, the dry and dusty environment meant the panels easily got dirty. The panels were therefore performing inefficiently.

ClearShield® was subsequently applied on-site to the panels to protect them from the dirt and contamination. After treatment, not only were the panels operating with higher efficiency, they easier to clean and keep clean. The frequency of having to access the roof to clean the panels was also reduced, saving time.

Project Name: *Britannia Cruise Ship*

Year: 2015

Application Type: On-site



This £473m cruise liner is the largest addition to the P&O fleet and features a 94 metre long Union Flag on her bow, the biggest of its kind in the world.

Ritec Marine Services, specialists in the renovation, protection and maintenance of marine glass, handled the project, their most challenging to date. Some 14,700m² of exterior glass was renovated and protected with the ClearShield Eco-System™ to provide effective protection from sea spray and other corrosive elements. Areas that were treated included all windows, sliding doors, cabin glass and other aspects of exterior glass, resulting a sparkling appearance and optimal vision for greater viewing pleasure. In addition, the ship's bridge was treated to provide optimal clarity and enhance safety, especially in inclement weather and high sea states.

Project Name: *Royal Princess Cruise Ship*

Year: 2013

Application Type: On-site



The Royal Princess is the fifteenth Princess Cruises ship to be treated with the ClearShield System™ which provides protection for glass from sea spray and other corrosive elements.

The application was carried out by Ritec Marine Services based in the Netherlands, a subsidiary of Ritec International. An application team travelled to Italy to treat over 15,500m² of glass onboard the Royal Princess. This included the soaring glass atrium, an impressive glass walkway, cabin windows and other exterior glass which all need to maintain a sparkling appearance and optimal vision for greater viewing pleasure.

Catherine, Duchess of Cambridge christened the ship in Southampton and praised its evolutionary design and use of glass.

Project Name: *Stena Explorer* High Speed Ferry

Year: 2003

Application Type: On-site



Operating in Northern Ireland, Woburn Windows are fully-trained on-site applicators of the ClearShield System™.

In just one week, the team from Woburn Windows renovated and treated all of the glass onboard the *Stena Explorer*. Over 400m² of glass in total was treated. The ferry was in dry dock, so they were able to use cherry pickers and finish the work to a very tight deadline. Stena Ferries, owners of the *Stena Explorer* specified ClearShield® to stop stains developing on the glass and reduce the frequency of cleaning.

Project Name: *Atlantic Conveyor* Container Ship

Year: 1987

Application Type: On-site



The exterior glass of the Atlantic Conveyor (owned in 1985 by Cunard but purchased by ACL ten years later) was treated on-site with ClearShield®.

The Chief Officer of Cunard was impressed: “The improvement in visibility through our bridge windows, in rain and heavy weather, has to be seen to be believed... It is truly pleasing to see a product that really lives up to its marketing promises.”

Project Name: Virgin *Atlantic Challenger II* Speedboat

Year: 1986

Application Type: Factory



One of the major difficulties encountered by Richard Branson and his crew on the *Atlantic Challenger II* during trials for the 1986 Atlantic crossing was the encrustation of heavy salt deposits on the vessel's windscreens. Valuable time and effort was wasted when they were subsequently forced to stop and scrape the glass in an attempt to improve visibility.

Before setting out on the record-breaking attempt, Branson had the windscreens of the *Atlantic Challenger II* treated with ClearShield® to avoid the same situation re-occurring.

In 1986, Richard Branson succeeded in crossing the Atlantic in the record-breaking time of 3 days, 8 hours and 31 minutes.