



ClearShield™

protection during construction

ClearShield Low Maintenance Glass:

Protects glass during construction • Easy to clean • Reduces costly delays

Damage to raw glass surfaces during building construction can be costly, but this can be avoided by converting ordinary glass into ClearShield 'non-stick' Glass with the ClearShield System. ClearShield Glass is easier to clean, keeps it looking like new, reduces costs and increases customer satisfaction.

During construction, concrete splatter, cement dust and slurry, as well as other types of alkaline construction materials, damage and corrode the surface of glass. This can be a particular problem for large-scale projects, with greater quantities of glass in windows, doors, curtain walling and so on. Water run-off carrying contaminants and air pollution containing chemicals can also adhere to the glass surface, and if allowed to bond to the glass, cleaning is either very expensive or impossible, requiring the costly replacement of the glass itself. Inadequately protected glass results in a dirty and unsightly look, expensive clean down and lengthy delays in construction. It also leads to dissatisfied customers and occupants because of a spoiled glass façade.



ClearShield was specified to reduce delays during the construction of the Bank of America in Sydney, Australia

ClearShield is a unique 'non-stick' surface finish that provides effective protection to the glass before, during and after construction thanks to its stain-resistant properties. It can be applied in the factory before installation. This is the ideal time as it will help to prevent contaminants from damaging the surface of the glass during handling, storage, transportation and the construction of the building itself. ClearShield can also be applied onsite after installation if required.

Among the major projects to recognise the problem of the potential damage to the glass surface is the new Bangkok International Airport in Thailand which had ClearShield specified to protect the glass during construction. With almost 100,000m² of glass installed, ClearShield helped to save both time and money for architects and building contractors alike.

Case Study: Shanghai World Finance Center



The Shanghai World Financial Center is a supertall skyscraper in China. It is a mixed use skyscraper which consists of offices, hotels, conference rooms, observation decks, and shopping malls on the ground floors.

The skyscraper's roof height is 492.3m (1,615 ft), making it the tallest building in China, and one of the tallest in the world.

ClearShield was specified purposely for the protection of the glass surfaces during construction. Contaminants that will try to attach itself onto the glass surface will be easily removed for a quick clean-down. This will significantly help to reduce delays as glass can be cleaned and replacement due to surface contamination from concrete splatter, chemical attack, etc. is not required. This represents large cost and time savings, especially for a project of this scale.

A selection of projects where ClearShield protected glass during construction:

- Achmea Tower, Leeuwarden, The Netherlands
- Azia Center, Shanghai, China
- Bank of America, Sydney, Australia
- Citibank Offices, Sydney, Australia
- Crystal Pavilion Garden Festival, Glasgow, UK
- International Commerce Centre, Hong Kong
- Lev Ha'ir Quarter, Tel Aviv, Israel
- National Tokyo Museum, Tokyo, Japan
- Nestlé Offices, Sydney, Australia
- New Glass House, Tsuyama Green Hills, Okayama, Japan
- Osaki 1 Chome Project, Tokyo, Japan
- Shanghai World Finance Center, Shanghai, China
- Suvarnabhumi Bangkok International Airport, Bangkok, Thailand
- Toaster Building, Sydney, Australia
- Vivaldi Building, Amsterdam, The Netherlands



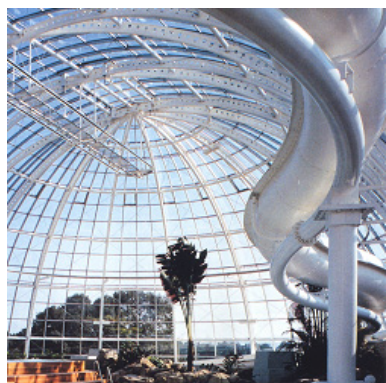
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*International Commerce
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*New Glass House, Tsuyama
Green Hills, Okayama, Japan*



*Suvarnabhumi International
Airport, Bangkok, Thailand*



*Würth Museum, Schwäbisch
Hall, Germany*