



ClearShield™

case studies: airports

## ClearShield Low-M<sup>®</sup> (Low-Maintenance) Glass:

Resists dirt and staining • Easy to clean • Increases visibility and safety



### Schipol, Amsterdam, The Netherlands

In 1991, ClearShield Glass was installed in the control tower. When the initial treatment was carried out, the service interval was expected to be five years. Since installation, the panels have been cleaned approximately once a month.

Because ClearShield resists dirt and staining, it improves visibility for air traffic controllers. The frequency of cleaning is also reduced significantly.

Ten years on, the airport authorities inspected the performance of the glass and concluded that a reapplication of the system was not necessary, emphasising ClearShield's durability.

### London Heathrow, UK

As the world's busiest airport, hydrocarbon pollution from jet engine exhausts lead to dirt and staining on the control tower glass. Vision was subsequently impaired. The glass was cleaned daily to maintain good visibility, but NATS (National Air Traffic Services) wanted a better long-term solution.

Mr Everard of the Building Services department of Heathrow Airport, explains: "Since conversion of the VCR (Visual Control Room) windows from ordinary glass, regular maintenance using Ritec aftercare products has ensured that, from the original daily window cleaning schedule, the windows now are only cleaned once a week."



### New Suvarnabhumi Airport, Bangkok, Thailand

The protection of glass during construction of this new airport was a high priority for the construction company so they specified ClearShield Glass prior to installation. ClearShield helped to reduce costs and delays on the construction site by protecting the glass from cement, concrete and construction dust. Some 100,000m<sup>2</sup> 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.



airport references

## A selection of airports where the ClearShield System was used:

### Africa

- Johannesburg International, South Africa

### America

- Los Angeles International, USA

### Asia-Pacific

- Chep Lap Kok, Hong Kong
- Kai Tak, Hong Kong
- New Plymouth, New Zealand
- Suvarnabhumi Bangkok International, Thailand
- Wellington, New Zealand

### Europe

- Kalmar, Sweden
- Landvetter, Sweden
- Larnaca, Cyprus
- Palma, Majorca
- Pathos, Cyprus
- Schipol, The Netherlands

### UK

- Aberdeen/Dyce
- Edinburgh
- Farnborough
- London City
- London Gatwick
- London Heathrow
- London Stansted
- Manchester



Edinburgh, UK  
VCR



Los Angeles International, USA  
External glass and VCR



Palma, Majorca  
External glass and VCR