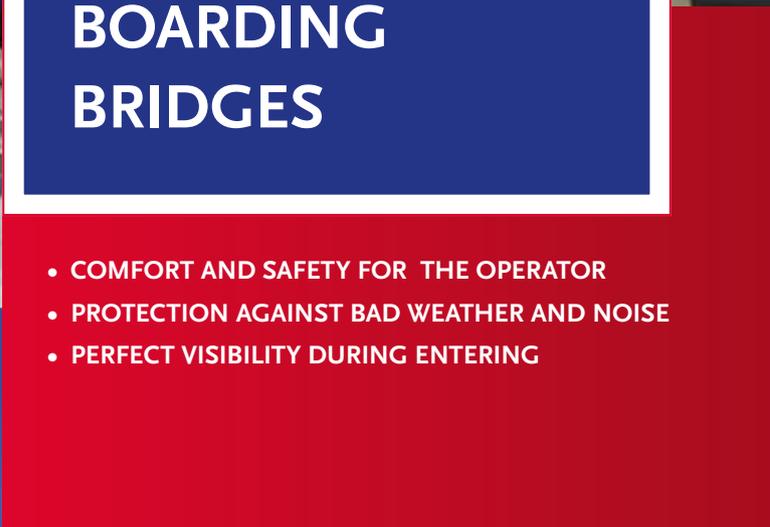




# TRANSPARENT SEQUENTIAL SHUTTERS FOR BOARDING BRIDGES

- COMFORT AND SAFETY FOR THE OPERATOR
- PROTECTION AGAINST BAD WEATHER AND NOISE
- PERFECT VISIBILITY DURING ENTERING



# FRONT SECURITY LATERAL CURTAINS



## LATERAL CURTAINS: COMFORT AND SAFETY BY FULL TRANSPARENCY

A common problem with other passenger boarding bridges is the poor view the operator has when the bridge is driven towards or away from the airplane. Not only at the front, but also at the two sides of the bridge.

The fully transparent lateral curtain has been designed both as a safety device and an attractive design feature.

It fits perfectly to the two sides of the boarding bridge and hinges with the construction.

The operator has an optimal visibility of more than 180°.

We use the same materials here as for our sequential shutters therefore the design of the two products match perfectly when used in one bridge.

## CHECK-IN CONVEYOR SHUTTERS

As security regulations are tightened throughout the world, unauthorized people are always looking for new ways and new opportunities to enter the airfield. This is why we developed, in collaboration with the Aéroport de Paris (ADP), shutters to protect the check-in desks; these shutters prevent people from gaining access to the luggage conveyors.



# FRONT SECURITY SEQUENTIAL OPENING SHUTTERS

FRONT SECURITY HAS BEEN DEVELOPING, MANUFACTURING AND INSTALLING ROLLER SHUTTERS AND GRILLES, RETRACTABLE GATES AND SPECIAL AIRPORT ROLLER SHUTTER SOLUTIONS SINCE 2002, AND ITS PRODUCTS HAVE HELPED IT BUILD A STRONG REPUTATION AS A SPECIALIST.

Our sequential opening shutters, which were developed in cooperation with the technical department of Aéroport de Paris (ADP) are Veritas approved, have already been installed in more than 300 airport bridges.

The shutter consists of two parts connected with firm straps, and opens in two stages. Initially, when the operator opens the upper section of the curtain, the lower section remains in place. During movement of the bridge towards the plane, this lower section of the curtain functions as a safety barrier. When the bridge is close enough to the plane, the lower section can easily be opened and passengers can pass through.

The shutter is equipped with safety devices that prevent any entrapment of feet, hands or fingers when the shutter is opened and closed.

## TECHNICAL SPECIFICATIONS

The shutters are mainly constructed from aluminium and polycarbonate. For the hinges we use high quality extruded and anodized aluminium. The transparent windows are made of Duroton® VR2200, a polycarbonate with special additives which protect against chemical solutions and feature a UV stabilizer.



## **A NUMBER OF BRIDGE BUILDING COMPANIES WHO HAVE EXPERIENCE WITH OUR SHUTTERS:**

- ThyssenKrupp Airport Systems S.A. (Mieres, Spain)
- ThyssenKrupp Fahrtreppen (Kassel, Germany)
- FMT Aircraft Gate Support Systems (Trelleborg, Sweden)
- Hyundai Rotem Company (Seoul, South Korea)
- Sovam (Parthenay Cedex, France)
- Axima Airport & Logistic Services (Paris, France)
- NKI Aviobridge BV (now SPIE) (Dongen, the Netherlands)

## **FRONT SECURITY SHUTTERS HAVE BEEN INSTALLED, AMONG OTHERS, AT THESE AIRPORTS:**

- Paris ( Orly + Charles de Gaulle )
- Nice
- Nantes
- Strasbourg
- Toulon
- Zurich
- Vienna
- Frankfurt am Main
- Munich
- Paderborn
- Luxemburg
- Stockholm-Arlanda
- Malaga
- Congo
- Jeddah
- London
- Berlin

The comprehensive product range provides mechanical security solutions for all commercial, industrial, and airport applications.

You can also put your trust in our knowledge of security solutions for specific airports or in our general experience, for example with shops in airports.

