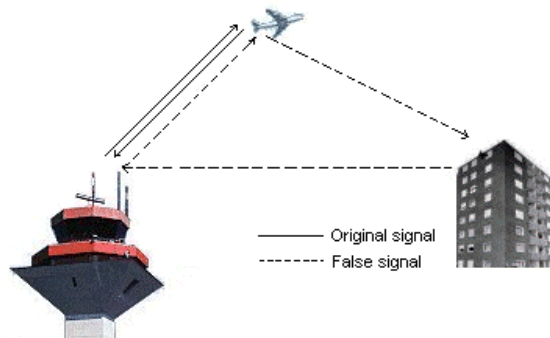


Datasheet

BI-Radar: Radar reflection-absorbing glass

The continuously-increasing air traffic density and the increasing height of buildings in the vicinity of airports has the effect that the safety of air traffic is impaired due to reflection from building façades. In order to reduce or get rid of reflected radar signals from the buildings close to the airport and in the approach paths, which lead to dangerous phantom lines on the screens of the air traffic controllers, a glass which can absorb the radar reflections is required.



Definition

BI-Radar is a special glass which permits the absorption of undesirable radar reflections on the façades of buildings.

BGT offers two options in this field:

1. Radar absorption is achieved by means of a very thin wire inlay made of a special alloy. This is inserted at a special angle.
2. Radar absorption is achieved by applying very thin conductive strips at a special angle by means of a screen printing process.

The strips or wires can be seen with intensive light (sun, spotlights).

Properties

1. BI-Radar with wire inlays

This product is a laminated safety glass with which a maximum radar reflection-absorption to about 25 dB can be achieved.

Further processing to produce insulating glass units with thermal and sun protection or sound-proofing is possible without changing the actual function of the radar absorption.

Maximum manufacturing size: 1800 x 4000 mm

2. BI-Radar with screen print

BI-Radar is manufactured according to a patented screen printing process as a single pane safety glass or semi-tempered glass. This process permits free arrangement of the strip conductor. The normal strips can also be replaced by other geometric forms.

This special radar reflection-absorbing glass can also be constructed as laminated safety glass and insulating glass. According to customer requirements, combinations are possible with thermal and sun protection as well as sound-proofing, without the important function of aircraft safety being changed.

Maximum manufacturing size: 2400 x 6000 mm

Glass construction

Radar glass cannot be produced as standard. The radar situation has to be newly checked out for every building and an expert survey must be arranged via BGT Bischoff Glastechnik in order to establish the corresponding glass construction. The cost of this survey is then included in the invoice.

Reference



Westhafentower in Frankfurt am Main

This 31-storey office building in Frankfurt am Main has been equipped with BI-Radar.