

## **The instruction of the storage and the transport of a single glasses and an Insulating Glass Units of the general purpose, made by Pilkington IGP**

### **1. The storage of glass and the Insulating Glass Units**

The single glass and the glass units should be kept in covered, dry, and ventilated areas, which are protected from direct effects of solar rays and precipitation.

The above mentioned items should be kept on metal racks with carrying capacity appropriate to the load transported on them. The construction of racks should provide an equal support and the prop on the crossbars for the glass in transport. The glass must not be in direct contact with metal or any other hard materials. Lower crossbars, supporting the glass, should make the straight angle with slats from the back of the rack. The construction of the stand should provide deflection of an angle of the glass, in amount of 5 – 7 degrees from the plumb-line. The elements of rack which are in direct contact with the glass should be covered with cushioning material e.g. the rubber or wood so to eliminate potential damages of the glass.

General rule which must be adopted at packing the glass and glass units on the racks, indicates that the glass must be placed on a longer side of the glass form. The recommended order of arranging the glass on a stand is; from the highest to the lowest, when arranging from the back of the rack.

The individual forms of glass or the glass units should be separated, with a distance inserts providing the distance of the minimum 3 mm between the glasses, so that to protect them from direct contact of the subsequent glass. Inserts should be made from a material resistant to the influence of the effects moisture.

Upon storage, the glass must be protected from the effects of aggressive chemical agents, or physical and mechanical interactions leading to damage or decrease in quality and durability of glass.

Double glazing racks should be set so that both glass components are propped properly. In the case of different levels of glazing, the more narrow pane must be supported by an underlay pads, e.g. wooden, equalizing the two dimensions of glasses.

During the storage or performance of any other warehouse actions, glasses must be attached to the stand with the use of a tape hoops to eliminate the risk of tipping over of glasses even when they are tilting from the plumb – line. Do not use a metal tape to protect the glass on the stands. Plastic tapes with suitable strength can be used for that purpose, in the places of contact with the side of the glass, a plastic or cardboard distance inserts should be used.

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Share Capital: 506 500 PLN

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During the storage of glass a force of press securing elements should not be too big so to give the possibility to compensate for changes in thickness of sets, associated with changes in temperature and pressure.

## **2. Transport of glass and glass units**

Transportation of the glass units should be performed on a metal transport racks, in a way that provides protection against mechanical damage to a cargo. Automobile means of transport with pneumatic suspension and closed body should be utilised for glass transport.

Racks with glass must be set up parallel to the axis of the car, keeping indispensable distance between the stands and glasses. Mounting glasses to the racks and racks to the body of the car should ensure no risk of load shifts, even in the case of strong braking. The body of the car should ensure the protection of cargo from the solar rays, precipitation and incursion, between the glasses, of big particles of hard materials which can cause damage to the surface of glass.

The rules for setting the glass on the racks - as for the storage of glass. At the time of transport the force of press at fasteners should be increased so that to protect the glass against shifts.

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