



# MAGISTRAL

RELIABLE TRANSPARENCY

**MAGISTRAL LTD  
SAFETY LAMIMATED  
BULLET RESISTANT GLASS  
TRANSPORTATION, STORAGE AND  
UNPACKING GUIDELINES**

## 1. TRANSPORTATION

Transportation shall be organized by covered transport in accordance with the rules of cargo transportation applicable to this type of transport and in compliance with the requirements of special marks placed on the boxes.

Special marks according to GOST 14192 placed on the boxes:

	«Protect from moisture»	Cargo should be protected from moisture
	«Upside, do not turn over»	Cargo must be kept in the specified position during any actions or movements
	«Fragile»	Delicate, fragile, breakable and sensitive to tossing cargo

While transportation boxes must be fixed firmly. Spontaneous move is not allowed. Usually one of the box fixation methods is used:

<i>Belts/straps</i>	– The most often used way of fixation. It is easy and safe. Belt is a textile strap with fixating devices at the ends (hooks, rings); ratchet lock is usually used to prevent weakening.
<i>Wooden spacers</i>	– Cargo is fixed with wooden bars to avoid movement. Bars are fixed to the body of the transport. <b>Fixing of bars to the boxes is prohibited</b> , except when transportation is arranged with sea container.
<i>Air bags</i>	-Is a modern product presented as an airbag with valve. It can have different forms or dimensions. Airbags, placed between cargos are to be filled with compressed air till full voids filling. Cargos, fixed this way are protected from moving.

Other types of rigging equipment may also be used if it provides fixation of the boxes.

At the moment of fixation method choosing all the cargo characteristics shall be considered.

Boxes must be placed symmetrically on the both sides.

If the vehicle body length is over five meters loading of the cargo must be in presence of the driver with his recommendations as the vehicle may have some special technical parameters.

## **2. STORAGE**

Products packed into the boxes must be stored in horizontal position in covered dry area with temperature from 5 to 30 °C. Stacking of the boxes is allowed for maximum height equal to 1 meter.

Unpacked units must be stored in polyethylene package in closed dry rooms at the temperature range from 5 to 30 °C. Units may be placed on the shelves or stands without any mechanical impacts and stacking of the product.

Curved units must be stored in horizontal position with **internal side up**; flat products must be stored in horizontal position with **internal side up** or vertically under the angle equal to 10-15 degrees from vertical leaning on the external (attack) surface.

## **3. UNPACKING**

Unpacking should be performed after removal of the box cover and packing inserts. Glass unit may be removed from the box with lifting equipment with fabric straps.

When moving the product without box friction of the product with other surfaces or stacking one product onto another is not allowed to avoid scratches.

It is recommended to use lifting equipment with fabric straps or vacuum grippers (suction cups) when products are to be moved without box or package during storage or installation process; lifting equipment shall be relevant to the weight of glass to be moved. Vacuum grippers may be in contact with the external (attack) surface of the glass unit.