

## **Beam splitter - Interference optical thin film coated glass**

### **Technical advice**

Beam splitter is a single side coated one way mirror which is used as partition between a supervised and an observation area. The coating is made with metalloxides that are sputtered onto float glass. Beam splitter can be processed just as regular float glass, it can be tempered, laminated (PVB or resin), insulated, bent, drilled, etc. Even though it is a hard coating care should be taken while handling the glass in the processing of the product (refer to handling procedures).

#### **Instructions for planing**

Beam splitter should be protected from rain runoff and the weathering of steel and other building materials. Either the building owner should regularly maintain the glass by cleaning stains or the glass should not be used in that environment.

#### **Installation instruction**

Before and after installing the glass you have to preserve the coating against mechanical damage (scratch). When transporting, putting it in stock and every kind of handling you have to take care about **clean** supports, layers, tools, suction cups etc. Keep the Beam splitter in a dry and UV protected environment (closed area). Do not expose the glasses with the protective film to sunlight.

If you insulate Beam splitter remove excess sealant material immediately. Avoid using too much solvent to remove the excess sealant. During the installation of Beam splitter avoid job site materials from getting on the glass or remove any spilled material immediately, this includes concrete, lime, stucco, etc. When removing materials that are abrasive such as concrete use plenty of water and try not to rub the material as it will scratch the glass. Always use cleaning cloths that are clean and not abrasive.

#### **Cleaning**

Beam splitter should be cleaned on a regular basis. Never let dirt or stains remain on the glass. Normally it's enough when you just use water and sponge or cloth to clean the glass. If it's needed you can use detergent e.g. Windex, Glass Plus, etc.

**It's better not to put any kind of stickers on the coated float side because you can damage the coating when removing the sticker.**

#### **Products NOT to use with Beam splitter**

Do not use strong alkalis, acids, detergents with fluoride, solvents as they will destroy the coating. Do not use detergents with mechanical devices (sand etc.) nor other

mechanical millinery. Also from the daily use of micro fibre cleaning systems (on the coated side) we discourage. Do not use blades; steel blades may hurt the surface and cause scratches.

If you do not follow the cleaning instructions the manufacturer will not be responsible for warranty.

#### **Warranty**

For Beam splitter, Glas Trösch AG, HY-TECH-GLASS will guarantee that under normal use and conditions the transmission and coating will not change.

Glas Trösch AG, HY-TECH-GLASS will replace Beam splitter within 5 years from date of purchase if defects occur in the coating. The sole responsibility of Glas Trösch AG, HY-TECH-GLASS is to replace the defective material only. It does not cover any costs associated with removal or replacement of the product. The warranty does not cover damage caused by misuse, neglect or accident. The warranty is non-transferable.

If Beam splitter is insulated the warranty will be given from the separate manufacturer.

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