

How much PRO SORB do I need?

The amount of PRO SORB that you need depends on a variety of factors. These include the tightness of the display case and the ambient climate. It is therefore difficult to make predictions. Basically, the more PRO SORB is used, the lower the fluctuations in humidity and the less frequently the display case will require maintenance. We recommend beginning with 2 - 4 kg of PRO SORB per cubic metre of display case volume and constantly monitoring the RH in each display case with a hygrometer.

Guideline values are:

- 2 kg/m³ for glass hood or large display cases > 2 m³
- 4 kg/m³ for very tall or small display cases (< 0.2 m³)

The amount required increases with:

- leakages in the display case,
 - high moisture gradients between the display case and the ambient air,
 - long exhibition durations or permanent exhibitions,
 - temperature fluctuations and air movements,
 - hygroscopic display case installations that are drier or damper than the desired climatic range.
- The exhibits themselves may sometimes be drier or damper than stated by the lender.

Use and location / display case requirements

Tightness

The display case should be as tight as possible. You can improve tightness retroactively with appropriate silicon seals or adhesive tape.

Wood-based materials

Wood-based materials (such as MDF boards) are not particularly suitable for display cases because they influence the climate in the display case and emit pollutants. The diffusion of water vapour and pollutants can be permanently prevented using melamine coatings or aluminium laminated film. Paints and varnishes are not very effective here.

Location / shelves

Shelves or drawers in display case plinths that are accessible from outside enable the exchange or reconditioning of PRO SORB without having to open the display case itself. The drawers should be spacious so that there is sufficient space for desiccant bags or a tray of water for reconditioning, in addition to the cassettes or sachets. The greater the granulate surface area, the better: two small cassettes next to one another are therefore more effective than one large cassette. If no shelves or drawers are available, PRO SORB can also be hidden in the plinth or base of the exhibited object, or attached to the back wall in the form of a panel.

Air circulation

Air must be able to circulate freely in the display case. This can be achieved by slits or holes in the floor of the display case that are as wide as possible (Fig. 1), a circumferential slit, or a raised display case floor (Fig. 2). A ventilator is recommended for very tall display cases.

