

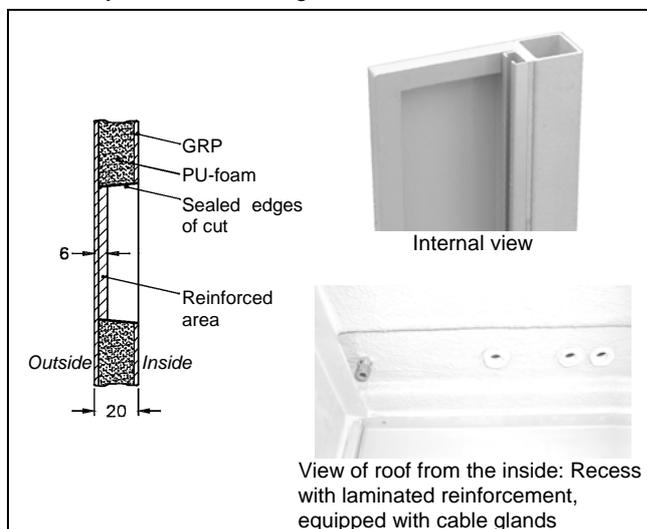
Wall Bushings in Cabinets

The sandwich elements for the walls and doors of the protective cabinets and housings are made of three layers: GRP - Polyurethane Foam - GRP.

In order to maintain the type of protection and the life of the cabinet, cable entries, pipe lines, control and display units must only enter through the wall of the cabinet in one of the ways described below. In this way, and if the installation is carried out by an expert, the type of protection (IP54 - IP66) will not be impaired.

1 Recess with laminated reinforcement

The tapering of the element allows for pipe and cable entries by means of cable glands.



Construction:

In the manufacturing process of the sandwich element, the inner GRP layer and the PU foam core are removed in a defined area. The remaining outer GRP layer is reinforced to approx. 6 mm. In this area, holes can be easily drilled. This version is possible for all sandwich elements (walls, doors, roof, and insulated floor).

Advantages:

- ◆ The entry area cannot be seen from the outside
- ◆ Particularly suited for the installation of control elements in the door

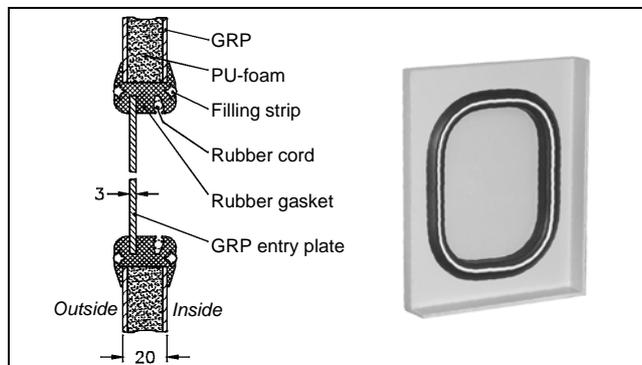
Dimensions

In 100 mm-size multiples, or as per customers' specific requirements

Ordering example:

Recess 200x300 mm; please specify exact position

2 Inserted Entry Plate



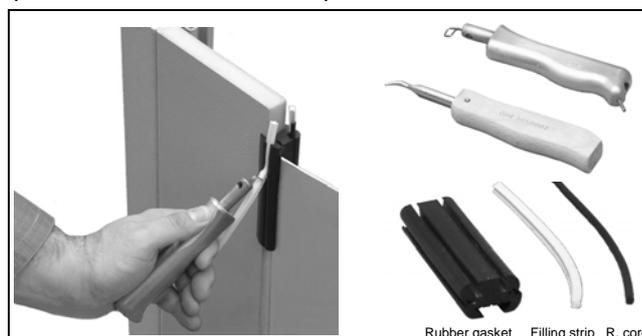
Structure:

The entry plate is installed like a window:

A cut-out with rounded edges (60 mm radius) is cut out in any required place of the sandwich element, with the cut-out, being 7 mm larger than the entry plate itself.

The rubber gasket is pressed in all around and the plate is then inserted by means of a set of mounting tools.

The rubber cord and the filling strip that are pressed into the slits of the rubber gasket provide for a stable, tight and permanent installation of the plate.



Advantages:

- ◆ Trouble-free installation at a later time, also at site.
- ◆ The position of the entries do not have to be specified when the cabinet is ordered.
- ◆ The plate can be made smaller or be adjusted as per customers' individual requirements.

Standard dimensions:

255x340 mm/ 270x290 mm/ 300x480 mm/ 305x515 mm
Other dimensions upon request.

Appropriate lengths of rubber gasket, rubber cord and filling strip are included in the supply.

When you place an order, please specify if the flange plate is used for wall mounting (Type W) or door mounting (Type T).

Ordering example:

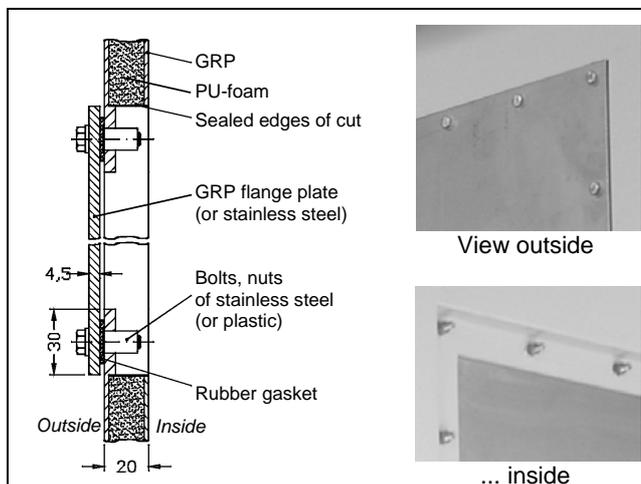
Entry plate 255x340 mm, Type W

Required material:

1 Set of mounting tools: „KVBB Glazing Tools“; consisting of an installation hook and an eye for inserting the filling strip.

Wall Bushings in Cabinets

3 Recess with removable flange plate



Structure:

Laminated recess with cut-out as well as GRP or stainless steel flange plate that can be taken off.

A rubber gasket is glued between the flange plate and the wall of the housing (on one side).

The plate can be removed by means of stainless steel bolts (or plastic bolts, upon customer's specific request).

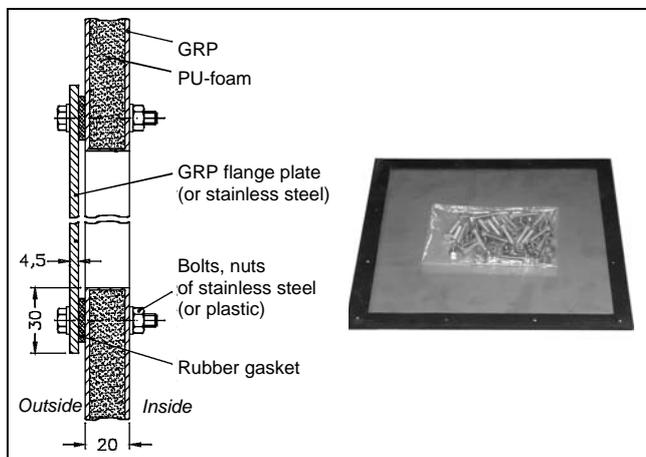
Advantages:

- ◆ The dimensions of the plate can be freely defined, depending on customers' specific requirements.
- ◆ To install cable glands into the plate, it can be removed and reinserted later.
- ◆ Any position is possible. Entries with flange plates are possible in any location: walls, floor, roof.

Ordering Example:

Flange plate, stainless steel or GRP material, with exact specification of the dimensions and the position.

3.1 Flange plate installed later



Construction:

The flange plate is supplied, as shown on the photo, in GRP (4.5 mm) or upon special request in stainless steel (2.5 mm), predrilled and with a full rubber gasket.

Advantages:

- ◆ Dimensions can be individually specified by the customer
- ◆ On-site installation is possible without special tools
- ◆ Trouble-free retrofitting or later installation

Installation Instructions:

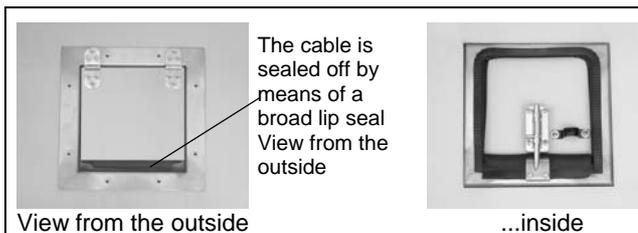
1. Cut-out the wall panel in the desired position. Attention: the cut-out is 30 cm smaller than the flange plate. The glued-on gasket serves as a sealing between the wall panel and the flange plate and must therefore lie flat on the wall panel.
2. Seal off open edges of the cut (we recommend the INTERTEC polyester repair package Art. No. SW036)
3. Align the flange plate (approx. 30 mm larger than the cut out all around) outside and over the cut-out and fasten.
4. Transfer the drilling points of the flange plate to the wall panel.
5. Drill the holes in the wall panel in accordance with the supplied bolts.
6. Bolt the flange plate to the wall panel (nuts inside).

Ordering Example:

Flange plate, stainless steel or GRP material, specify exact dimensions

4 Cable entry door

The door can be latched in the cabinet wall from the inside; e.g. the door can be closed again after entry of a cable.



5 Cable entry frame

Designed for entries in protective cabinets of fire resistance class "F30" according to DIN 4102.



Subject to technical changes.