

KBS® Sealbags

Application instructions for expanding pillows in through-penetration fire stops

Wall penetrations

Prior to inserting **KBS® Sealbags** into an opening, they should be patted in a way that their content is evenly distributed in the pillow. Then place **KBS® Sealbags** into the opening by staggering the joints (like brick construction) (**Picture 1**).

Where the space becomes tight between **KBS® Sealbag** layers and cable trays, use a smooth wooden stick to help push **KBS® Sealbags** in place (**Picture 2**).

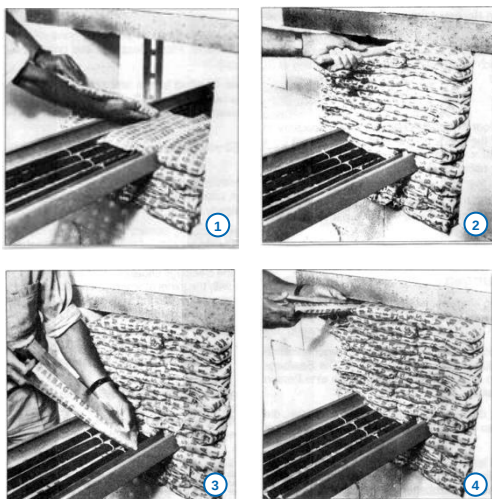
For tight spaces, use **KBS® Sealbags** 250 or 400, which may be rolled lengthwise for insertion into small openings.

If cables are in contact with the wall/ceiling soffit, it is necessary to place a layer of pillows between soffit and cable. **KBS® Sealbags** 250 or 400 are particularly suitable for this.

After all cables have been properly sealed, the seal bags can now – as described above – be inserted up to the upper edge of the opening. Then again thinner and / or rolled up seal bags are used until the last remaining spaces are filled.

For placing the last layer of **KBS® Sealbags** into the opening, two flat pieces of sheet metal may be used to “sandwich” the **KBS® Sealbags** for easier insertion (**Picture 3+4**). The metal sheets are then removed.

A wire screen should be placed on both sides of the seal to prevent theft and damage.



Floor and ceiling openings

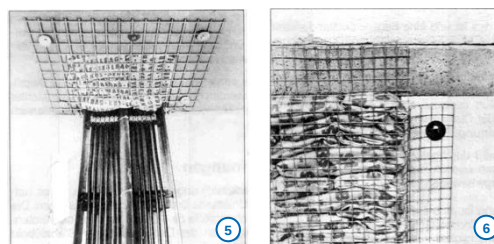
To facilitate installation of **KBS® Sealbags** in floor or ceiling openings, it is necessary to attach a wire screen to the underside of the opening. The wire gauge should be min. 4 mm, the mesh size approx. 50 x 50 mm square and spotwelded. The screen should be fastened to the ceiling using steel dowels with 8 mm thread and large steel washers (**Picture 5**).

Where the floor/ceiling is less than 300 mm thick and a fire resistance rating of ≥ 90 minutes is required, the wire mesh grille should be angled in the shape of a basket so that a penetration seal thickness of 34 cm is created (**Picture 6**).

After the wire screen has been installed, the **KBS® Sealbags** should be laid lengthwise and flat onto the wire mesh, layer after layer, with the joints staggered. The filling of tight spaces is accomplished as described above.

A wire screen should be placed over the top of the seal to prevent theft and damage.

Attention: Do not walk on the floor penetration.



Conclusion

The installation has been carried out properly if it is not possible to see through the bag layers at any point and the individual bags can only be moved out of their position with great force.

Important

These application instructions are a recommendation from the manufacturer. Details that are important for fire protection, e. g. minimum thickness of the penetration seal, wall or floor/ceiling and other requirements depending on the required fire resistance, can be found in the approval notification / test report from any state or neutral approval / testing institute responsible in the respective country.

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