

## Assembly instructions

### Fire protection ventilation grille for vertical walls, type LKS 60 and LKS 45

1. The installation of grilles in the fire partition wall is governed by a certified height location depending on the degree of fire resistance.

Installation of the ventilation grille in a **lightweight (SDK)** mounted supporting structure and the degree of fire resistance:

Type LKS 60- the lower edge of the grille is 0.1 to 2.56 m above the floor level-EI45 / EW90

Type LKS 60- upper edge of the grille max. 0.5 m above the floor level-EI60 / EW90

Installation of the ventilation grille in a **rigid (masonry)** mounted supporting structure and the degree of fire resistance:

Type LKS 60- the lower edge of the grille is 0.1 to 2.56 m above the floor level-EI60 / EW90

Type LKS 60- upper edge of the grille max. 0.5 m above the floor level - EI90 / EW90

Type LKS 60- the lower edge of the grille is 0.5 to 2.56 m above the floor level - EI90 / EW90

Type LKS 45- the upper edge of the grille is max. 0.5 m above the floor level - EI60 / EW90

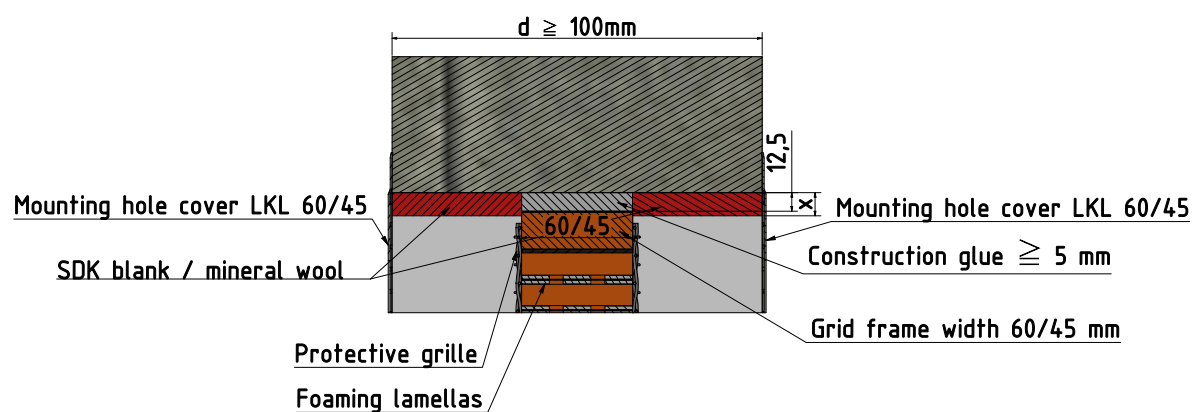
The distance from the edge of the ventilation grille to the upper and lower edges of the support structure must not be reduced below 100 mm, the distance from the edge of the ventilation grille to the side edge of the support structure must not be reduced below 200 mm.

2. The grille is installed in the prepared mounting hole in the fire dividing structure / wall in the horizontal direction (width x height) according to the above-mentioned permitted height location. The mounting hole is made approx. 5-10 mm larger than the width and height of the installed grille.
3. A standard construction adhesive is used to fill the gap between the fire partition wall and the grille frame. Construction glue is applied along the entire outer circumference of the grille frame in a thickness of 5-10 mm.
4. The grille with the applied construction adhesive is seated and centred in the middle of the thickness of the fire partition wall and allowed to harden so that there is no displacement in the wall in any direction. The drying time depends on the properties of the construction adhesive used, the thickness applied and the ambient temperature. During installation, it is necessary to protect the functional mechanisms and the interior of the grille from contamination.
5. The perimeter joints are sealed on both sides and along the entire perimeter of the installed grille (in width and height) with a fire protection SDK blank of 12.5 mm thick or a 20 mm thick mineral wool. The width of the blank is equal to the width of the gap between the installed grille and the outer edge of the wall (see detail in Fig.1 and Fig. 2).
6. The cover of the mounting hole type LKL is fixed symmetrically from both visible sides of the wall structure. When installing the cover, care must be taken to ensure that the functional lamellas of the grille are not covered by any part of the cover other than the part of the perforated sheet with a hole size of 10 mm applied inside. It is not allowed to cover the slats with the full circumferential frame of the cover.  
To fix the cover of the LKL mounting hole to the wall, screws are used, which are applied to the holes in the corners of the peripheral frame of the cover and are part of the supplied accessories.

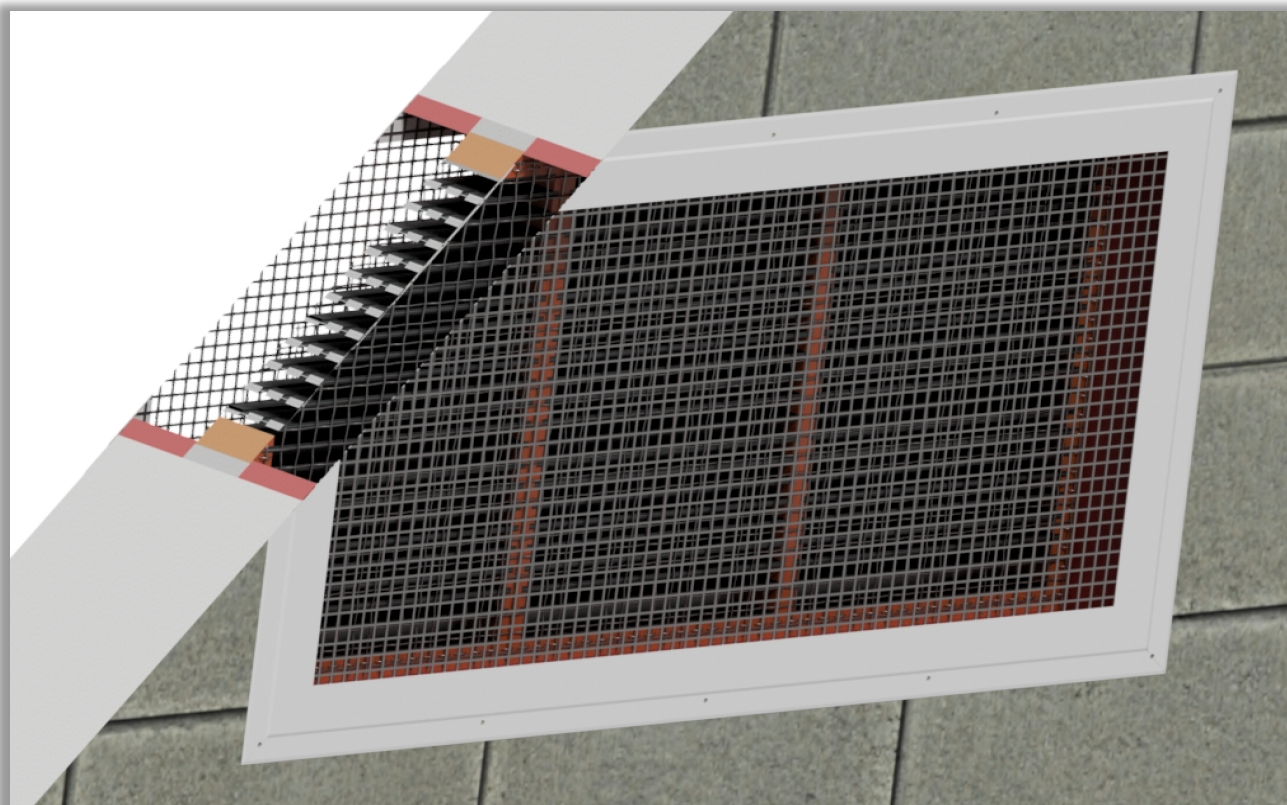
**Careful when unpacking and handling the shipment - LKL grille covers are varnished!**

Assembly instructions

Detail of installation in the wall fig.1



Detail of installation in the wall fig.2



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