



MÜHLEN SOHN

Installation of Fluitex® airslide fabrics

These recommendations are written for Mühlen Sohn's Fluitex® airslide fabrics and require the fabric characteristics of the same. The recommendations are based on the experiences of plant manufacturers and operators as well as those of Mühlen Sohn. They do not form the basis of guidelines for construction nor a guarantee for functionality.

1. The bottom or plenum section of the airslide is placed on a workbench and clamped into place. Special adhesive is applied on the exposed longitudinal metal flanges (none on the cross braces). Allow time for the adhesive to become semi-hardened or tacky.
2. The Mühlen Sohn Fluitex fabric, which has been cut to the correct length and had its edges heat-sealed, is now cut to length allowing an extra 150 mm for trimming and tensioning. The Fluitex fabric is placed over the length of the airslide and firmly fixed with bolts to one of the end flanges. To fix and tension open top sections a metal batten and screws are used in place of bolts
3. The previously mentioned additional 150 mm of Fluitex fabric are now fixed into a clamp or fabric stretcher which is on the workbench. By means of this the Fluitex fabric is stretched by approximately 2%, so that it lies under tension along the length of the air slide.
4. Using a template, holes are now cut into the fabric, approximately 100 mm apart and suitable screws are used to fix the fabric to the air slide. The fixing holes made in the fabric should be heat-sealed with a hot iron. The fastening screws should be fixed by alternating from side to side (see attached sketch).
5. The tension is now released from the fabric stretcher and the Fluitex fabric cut to the exact length of air slide, without extending the fabric beyond the end of the flange. A hammer is bounced on the fabric to check that the fabric is as taut as possible (drumskin effect).
 - 5.1. Airslide sections over 400 mm width: the clamping batten is mounted over the central longitudinal flange; holes are drilled through the fabric and the central longitudinal flange. If self-tapping screws are used, the clamping batten serves as a template and the screws are then inserted and tightened.
6. If the air slide has an open top, the clamping battens are placed on top of the Fluitex fabric along the lateral flanges. Holes are drilled through the fabric and the bolts inserted. If the air slide has a closed top, the air slide is turned over, holes are drilled through the fabric and the bolts fastened.
Please note: No additional adhesive is to be applied to the upper surface of the fabric where it is in contact with the upper part of the flange.
7. Subsequently a sealing compound may be applied along each flange to make sure that the gap between the batten and the Fluitex fabric are properly sealed.
8. If a perforated metal plate is used underneath the Fluitex fabric, both top and bottom surfaces of all edges of the metal plate must be liberally coated with sealing compound up to 25 mm in from the edge. If a perforated metal plate is used on top of the Fluitex fabric, only the top and bottom surfaces of the long sides (not ends) need to be liberally coated with sealing compound also up to 25 mm in from the edge.
9. If necessary, Mühlen Sohn can supply a complete accessory package including adhesive, sealant, protective wire mesh and tools.

