

Two in one: new parallel opening and top hung projecting out window – large formats and easy to assemble

Lüdenscheid, June 2009. An interesting new development from Hueck/Hartmann has just successfully passed the tests and has been certified in accordance with DIN EN 14351: The new sash profile which not only can be used as a parallel opening window, but also as a top hung projecting out window stands out on account of, amongst other things, its special ease of assembly. In addition, particularly large-area windows can be constructed in both opening types thanks to the properly thought-out construction of the sash designed as a façade insert element.

Elegant appearance and natural ventilation

Parallel opening windows are used where the elegant appearance and homogeneous view of a glass façade are to be preserved even for windows which are opened in different ways. In contrast to conventional bottom hung or turn-tilt windows, the window area is not turned with regard to the frame, but is opened in an alignment parallel to the glass façade.

In addition, due to the infinitely adjustable opening widths this opening type is particularly suitable for the realisation of natural ventilation concepts which are gaining increasing importance when energy costs are on the rise. In comparison with the tilted window, parallel opening windows achieve a far higher air change rate with the same opening width. The fresh air distributed evenly across all four sides of the window leads in the process to a considerably more pleasant room ventilation. Advantageously, as with all opening out windows, no space is taken up in the interior with this opening type.

Versatile façade insert element

In addition to parallel opening windows, the newly developed sash can also be processed, via an opening mechanism with stay-arms, into top hung projecting out windows. The new development designed as an insert element can be used in the VF 50/60, VF 50 RR façades with pressure plate and cover profiles as well as in the Hueck/Hartmann element façade. In addition, as a fully bonded SG-sash it can be used in structural glazing façades such as the VF 50 RR SG. As an alternative, the system can be used with a flat, circumferential glazing bead for applications where a structural glazing solution is not possible without mechanical safety.

Large window formats

An important special feature of the new development are the large formats in which top hung projecting out windows, but in particular the parallel opening windows can be realised. With the new design, sash sizes up to a width of two and a height of four metres can be constructed. This is achieved by means of a circumferential locking device which – irrespective of the stay-arm fitting – makes locking points possible at every necessary position. Due to their construction and geometry, the fittings can also safely carry the high sash weights attributable to the pane size, 200 kg for example can still be realised without any problems.

Simple assembly

A further highlight of the new sash is its special ease of assembly: it is screwed concealed from the front. Due to this type of screwing, a uniform controlled pressure is exerted on the gasket. This means that maximum requirements with regard to weatherproof sealing are met even for structural glazing façades where the window is not held in the façade via pressure plate and cover profiles (air permeability in accordance with EN 12152: Class 4 / watertightness in accordance with EN 12154: Class E 1200 / resistance to wind load: Class C5).



Caption:

Optimum insert element for glass façades: The parallel opening window from Hueck/Hartmann enables to realize large window formats with a homogeneous appearance.

Photo: Eduard Hueck GmbH & Co.KG