



Site Information

JYSK - Central Warehouse Bulgaria



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In 1979 Lars Larson, the founder of the company, came up with the idea of combining a range of bedding with furniture and other home furnishings. This initial idea has grown into a company with more than 23,000 employees in over 50 countries worldwide. In 2018, a new central warehouse was built in Bozhuriste close to the Bulgarian capital Sofia, from which the entire Balkan region is supplied. The two high-bay storages of the 85,000 m² complex offer space for 121,632 euro-pallets.



On both high-bay warehouse roofs, which are each 166 m long and 55 m wide, 196 VenturiSmoke VS1 single flap systems with a total geometric opening area of 313 m² were installed. Being 42.5 meters high, wind speeds of up to 120 km/h (33.45 m/sec) may occur on the roofs. Any installation here must meet specific wind suction load values. Roda was awarded with the contract, as their single flap VenturiSmoke VS1 is tested for wind suction loads of up to WL 4,500. Aluminium frame profiles with an installation depth of 100 mm provide the necessary stability for the flaps, whilst hinges and end position locked cylinders were designed for durability to withstand the mechanical strain of daily ventilation processes. The pneumatically operated flaps are supplied via their own air pressure system featuring several compressors. Roda not only supplied and installed the single flaps but also the entire control system including compressors. Direct client for this project was the German company WEB Elementbau GmbH, who planned and assembled the building envelop for both high-bay storages. Impressions of this project can be received [here](#).

Burkhard Baranski | Project Manager WEB Elementbau GmbH

„The high wind suction values tipped the scales in favour of roda’s systems. But I also consider roda’s excellent communication and good service worth mentioning. This is especially important, if projects abroad have to be coordinated with local authorities, Therefore, I have nothing but praise for the cooperation with roda and look forward to realizing further projects with Mr. Eberhardt.“



During the construction phase, the gigantic steel skeleton of the high-bay storages was revealed.



The SHEV systems generate an effective opening area of 97 m² for each of the two high-bay storages.



VS1 in ventilation position with a stroke of 300 mm.



One of the two control cabinets for ventilation control and SHEV triggering in case of fire.