

ALUMINIUM FRAMES, FAÇADES AND SKYLIGHTS



BLAST RESISTANT SECURITY SYSTEM

BLAST RESISTANT SECURITY SYSTEM SCHÜCO AWS 90 XR

In view of the increased number of terrorist attacks around the world, the need for security is growing in every country. In addition to protection against bullets, this also includes protection against bomb blasts. Here, the demand for blast-resistant windows, doors and façades is growing markedly. In this sensitive market segment, Schüco also offers a wide range of system solutions for different requirements in accordance with ISO 16933 US-GSA.



XR system panels for blast resistance

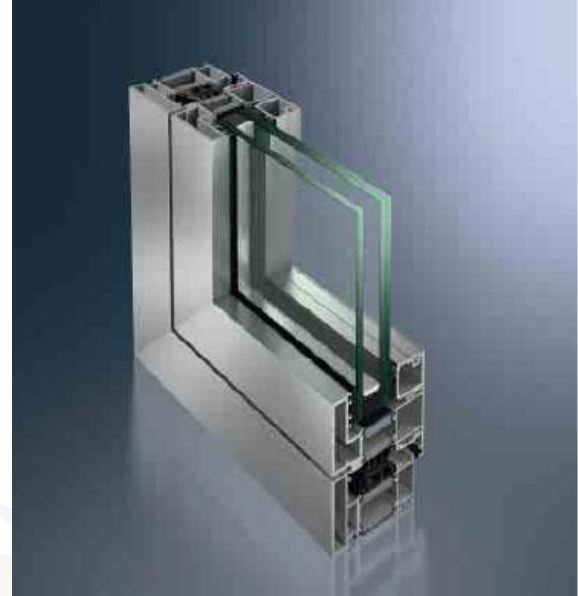
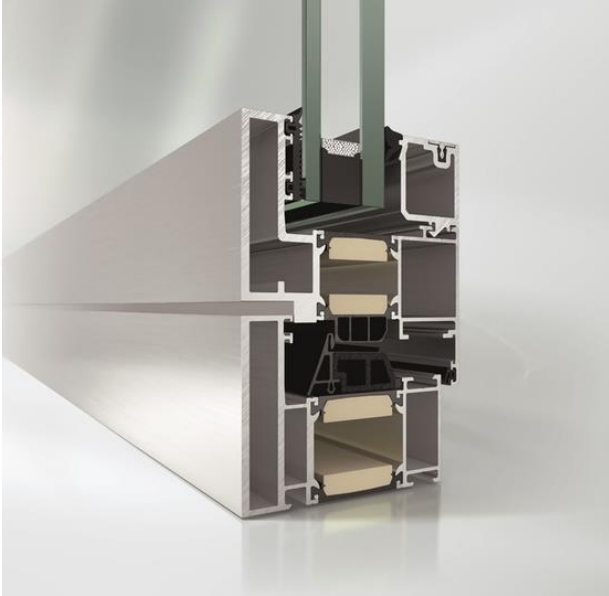
With the new XR product range, Schüco offers flexible system solutions for blast-resistant windows, doors and façades. Certified in accordance with ISO 16933, the systems allow the highest safety and security requirements to be combined with modern architecture.

For the highest level of planning reliability, the relevant proofs of blast resistance and the corresponding system approvals in accordance with EN 14351-1 (windows and external pedestrian door sets) and EN 13830 (curtain walling) are available.

These system approvals can be used as a summary of the system features for the Declaration of Performance and CE marking.

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SCHÜCO AWS 90 XR



The Schüco AWS 90 XR window system is air-blast tested in accordance with ISO 16933. The tested turn/tilt window with vent dimensions of 1210 x 1890mm (47.64 x 74.41in) withstood a shock wave of 169 kPa generated by a blast 19 m (62.34 feet) from the test unit. The unit therefore achieved EXV 19 (E) classification in accordance with ISO 16933.

Product benefits

- Turn/tilt window tested to EXV 19 (E) in accordance with ISO 16933: tested vent size 1210 x 1840mm (47.64 x 72.44in).
- Schüco AvanTec concealed fittings.
- Extended area of application based on calculations.
- System approval in accordance with 14351-1 for Schüco AWS 90 XR
- $U_f = 1.6 \text{ W/m}^2\text{K}$ in accordance with DIN EN ISO 100772



BLAST RESISTANT SECURITY SYSTEM SCHÜCO ADS 90 XR



With the ADS 90 XR door system, Schüco offers explosion-resistant system solutions up to class EXV19 (E) for outward-opening, single and double-leaf doors. In the explosion test, proof was obtained for a leaf dimensions of 1100 x 2250 mm (43.31 x 88.58in).

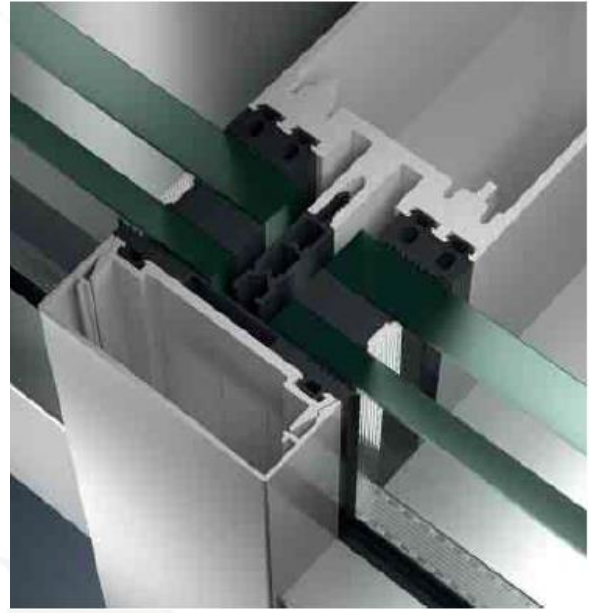
Product benefits

- Single and double-leaf doors (outward-opening) tested to EXV19 (E) in accordance with ISO 16933.
- Tested vent size: 1100 x 2250 mm (43.31 x 88.58in).
- Panic function in accordance with EN 179/EN 1125
- Extended area of application based on calculations
- System approval in accordance with EN 14351-1 for Schüco ADS 90 XR available as a summary of the relevant system features.



BLAST RESISTANT SECURITY SYSTEM

SCHÜCO FAÇADE FW 80+ XR / FW 60+ XR



The Schüco FW 80+ XR and FW 60+ XR façade systems complete the range of XR series products tested in accordance with ISO 16933. This system offers developers and architects maximum design freedom with tested glass dimensions of up to 1545 x 1980 mm (60.83 x 77.95in). FW 60 XR has been tested 19 m from the explosion and FW 80+ XR as close as 15 m (49 feet). Both façade constructions achieved the hazard level “D – very low hazard”.

Advantages

- FW 80+ XR successfully tested in accordance with ISO16933 to EXV 15 (D)
- FW 60+ XR tested to EXV 19 (D).
- Tested unit dimensions: 3485 x 3210 mm (137,20 x 126.38 in).
- Maximum tested glass sizes: 1545 x 1980 mm (60,83 x 77,95 in).
- Excellent thermal insulation: $U_f = 1.2 \text{ W/m}^2\text{K}$.
- Extended area of application based on calculations.
- System approval for Schüco FW 80+ XR available as a summary of the relevant system features.