



SYSTEM 4500

TILT-TURN, FIXED – BLAST RESISTANT

The System 4500 tilt-turn and fixed window designs offer builders and architects a very unique product for large openings in both residential and commercial markets. This versatile design is three in one: an inward opening casement in the turn position, a secure top venting hopper in the tilt position and a tightly-sealed picture window when closed. When subjected to 4 and 7 psi blast loading in an Architectural Testing Inc. Security Fenestration Certificate Program, all REHAU System 4500 samples received “No Damage” or “No Hazard” ratings.

1 Multiple locking points and dual weather seals

Provide a high level of air and water tightness

2 Large chambers

Accommodate reinforcements required for large openings in heavy commercial applications

3 Accessory groove

Accepts a variety of accessories such as brickmolds, extension jambs and profiles to couple window elements

4 Overall 1 in. IG (blast resistant configuration)

Increases energy efficiency and acoustical properties

5 3 1/4 in (83 mm) frame depth

Allows for easy replacement installation

Performance Summary

ASTM + GSA: Blast Performance Condition 1 and 2

AAMA: up to Class CW-PG100-DAW and AW-PG70-FW

U-factor down to 0.28-0.32

ASTM E90 Acoustical (STC): up to 43 dB

GSA/ISC Performance Conditions for Window System Response

Performance	Protection	Hazard Level	Description of Window Glazing Response
1	Safe	None	Glazing does not break. No visible damage to glazing or frame.
2	Very High	None	Glazing cracks but is retained by the frame. Dusting or very small fragments near sill or on floor acceptable.
3a	High	Very Low	Glazing cracks. Fragments enter space and land on floor no further than 3.3 ft from the window.
3b	High	Low	Glazing cracks. Fragments enter space and land on floor no further than 10 ft from the window.
4	Medium	Medium	Glazing cracks. Fragments enter space and land on floor and impact a vertical witness panel at a distance of no more than 10 ft from the window at a height no greater than 2 ft above the floor.
5	Low	High	Glazing cracks and window fails catastrophically. Fragments enter space impacting a vertical witness panel at a distance of no more than 10 ft from the window at a height greater than 2 ft above the floor.

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