

Ratings > **Clear Views** Use our ratings to find windows that can stand up to wind and rain.

Recommended	Rank	Brand & Model	Overall Score	Test Results		
				Wind resistance, 0° F	Wind resistance, 70° F	Rain resistance
VINYL REPLACEMENT WINDOWS						
✓	1	Pella 350 Series	91	↑	↑	↑
✓	2	Simonton Reflections 5500	73	↑	↑	↓
✓	3	Jeld-Wen V-2500 Series	69	↑	↑	↓
	4	Window World 6000 Series	67	↑	↑	↓
✓	5	Simonton Prism Platinum	66	↑	↑	↓
✓	6	Pella ThermaStar	64	↑	↑	↓
✓	7	Atrium 8700 Series	64	↑	↑	↓
	8	Andersen American Craftsmen 70 Series Pro	59	↓	↑	↓
	9	ReliaBilt (Lowe's) 3201 Series	55	↓	↓	↓
	10	Alside Mezzo Series	54	↓	↑	↓
WOOD REPLACEMENT WINDOW						
✓	1	Pella Lifestyle Series	72	↑	↑	↓
✓	3	Andersen 400 Series Woodwright	64	↓	↑	↓
COMPOSITE REPLACEMENT WINDOWS						
✓	1	Pella Impervia	81	↑	↑	↑
✓	2	Andersen A-Series	81	↑	↑	↑



HOW WE TEST: We purchased custom-made double-hung, double-pane replacement windows with a low-e coating and a gas fill directly from manufacturers. Each window was ordered to fit a 3x5-foot opening and installed per manufacturers' instructions in a frame designed to replicate the structural opening in the wall of a house. We calculate the **Overall Score** by evaluating a window's wind resistance at 0° F and 70° F, and rain resistance at 70° F. To measure **Wind resistance, 0° F**, we subject a window to simulated wind speeds of 25 mph and 50 mph, while holding the temperature at 0° F, and measure the amount of air leaking through the window with a flowmeter. This same test is repeated, but at room temperature, for our rating for **Wind resistance, 70° F**. For **Rain resistance**, we pelt a window with 5 gallons of water per square foot per hour while slowly increasing wind velocity until water is detected anywhere on the inside of the window. We start at 30 mph, and the velocity can reach a simulated maximum gale force wind speed of 74 mph.