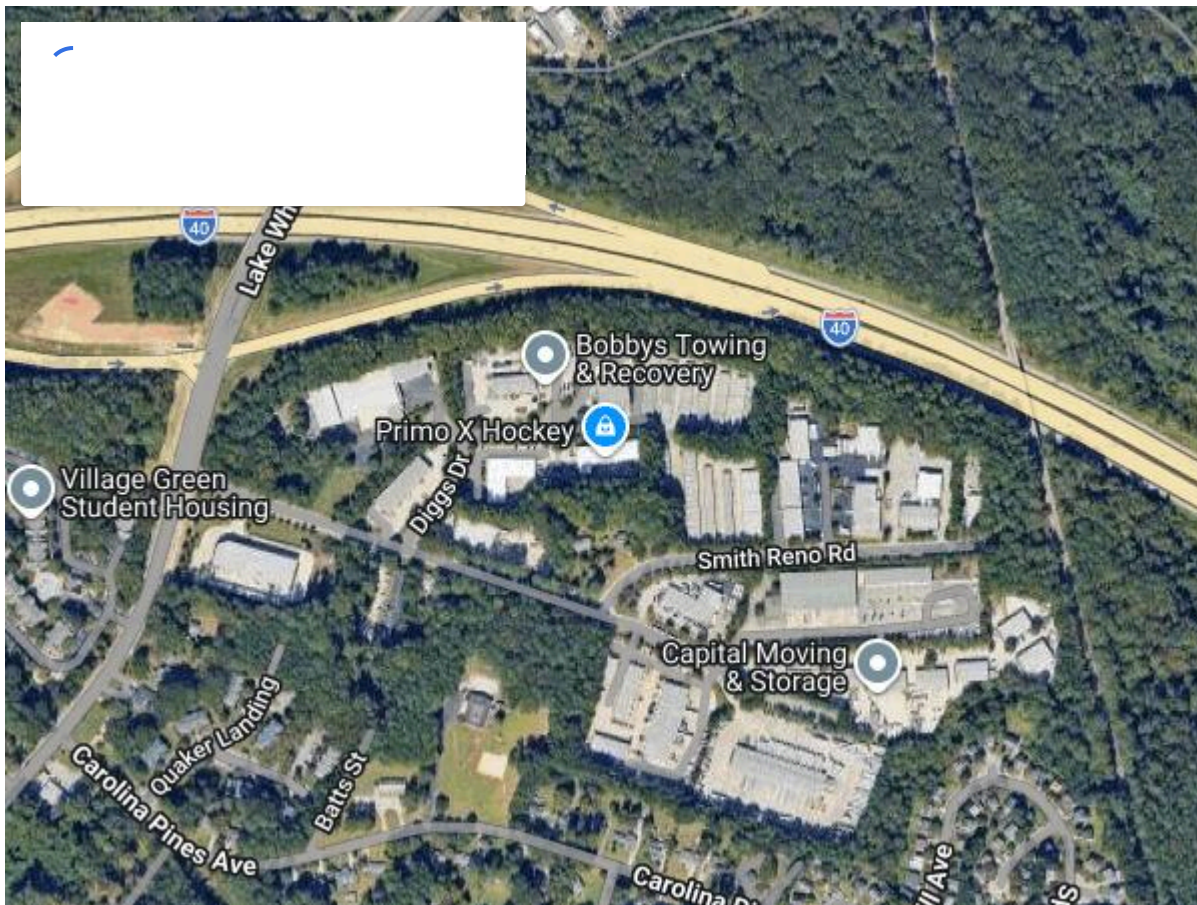




Low E Glass and Solar Heat Gain on West Facing Windows in Raleigh NC From May through September, the west side of a Raleigh house takes a beating every afternoon. The sun drops lower, shines straight through the glass and heats whatever it lands on, which is why a west-facing bedroom or living room can still feel warm long after dinner. The fix often lies in the glass itself, and Low-E coatings are where Harland Windows & Siding usually starts the conversation. Solar heat gain coefficient, or SHGC, measures how much of the sun's heat a window lets through. The lower the number, the less heat gets in. In colder parts of the country, homeowners mostly worry about holding heat in during winter. The Triangle is different, since the area spends more on cooling than heating, so SHGC matters most here. A Low-E coating on the glass blocks much of the sun's heat and UV while still letting light through, so the room stays bright without baking. A low SHGC is the number to look for on a west or south wall, while a north wall can usually take a slightly higher figure. For a sense of the numbers, the Ascent double-hung by Kensington with LowE 366 glass and argon carries an NFRC SHGC rating of 0.19, while still admitting visible light at 0.43. Heat Mirror windows by Kensington, which Harland also installs, use a thin film suspended between the panes that reflects heat and blocks UV. The UV part matters as much as the heat. Sunlight through ordinary [Window Replacement Raleigh NC Harland Windows & Siding](#) glass slowly fades hardwood floors, rugs and upholstery, and west rooms get the strongest late sun of the day. The sun's heat is absorbed by floors and furniture and released for hours, so a west room can stay warm well after sunset.

Harland Windows & Siding | 1401-G Diggs Dr, Raleigh, NC 27603 | 919-851-0060

If you live near Centennial Campus or along Avent Ferry Rd and have a west-facing room nobody wants to sit in by late afternoon, the glass is a likely culprit. Choosing glass by orientation is one of the most useful conversations in any window replacement Raleigh NC project. A Carolina Arbors homeowner had the reverse problem, a drafty living room that sat empty every winter, and it became the family's favorite room after new windows. Either way, the right glass and a tight custom fit can bring an unused room back into daily life. New windows with the right glass can lower cooling costs, though results vary from home to home. Every window is custom-made to the measured opening and installed by the company's own crew. Harland Windows & Siding offers free estimates, multiple cost options and financing. Call 919-851-0060 to have the team from Diggs Dr in Southwest Raleigh take a look at your sunniest rooms. Spring and fall are the busiest seasons, so booking before summer arrives gives you new glass in time for the hottest months.



[FAQ](#) [About](#)

Window Replacement Raleigh NC How much does it cost to replace windows in Raleigh, NC? Most window replacement projects in Raleigh run between \$6,000 and \$40,000, depending on how many windows you are replacing and the type of installation. Harland Windows & Siding builds every quote around custom windows, installation by its own crew, removal and disposal of the old windows, and clean up. Estimates are free, so call 919-851-0060 for a number based on your actual home. What is the average cost of a good replacement window? The price of a single window depends on its size, style and glass package, so a budget-friendly single-hung and a large bay window can be far apart. Harland Windows & Siding offers everything from single-hung units up to Ascent triple pane and Heat Mirror glass. Your free written proposal includes several cost options, so you can compare quality levels side by side instead of guessing from an average. What is the cheapest time of year to replace windows? The biggest seasonal factor is scheduling. Spring and fall are the busiest seasons at Harland Windows & Siding, and because every window is made to order, most jobs start 3 to 4 weeks after booking. Booking early gives you more flexibility, and financing is available if spreading the cost matters more to your budget than the month you book. What is the average cost to replace 20 windows? It depends on the size of each window and the glass you choose. A typical home has 10 to 15 windows, and full-home projects with Harland Windows & Siding usually fall in the \$6,000 to \$40,000 range, so a 20-window house will depend heavily on the mix of styles and glass packages. The honest answer is an itemized quote, which the company provides free after measuring each opening. Is it cheaper to buy windows and have someone install them? Buying windows yourself can look cheaper at first, but stock sizes may need shimming to fit openings they were not made for, and you lose a single point of responsibility if something goes wrong. Harland Windows & Siding quotes custom-made windows and installation by its own crew as one price, including removal of the old windows and daily clean up. That keeps the cost clear and the fit right from the start. Is a big box store or a local installer better for window replacement? A local installer gives you more direct accountability, since the people who measure and quote belong to the same company that installs. Harland Windows & Siding has been based on Diggs Dr in Southwest Raleigh since 1986, uses its own crew rather than subcontractors and holds an A+ rating with the BBB. One Durham homeowner found its price came in at around half of the big box quotes, with a better warranty. Who has the best windows for the money? Value comes down to three things: the glass package, how well the window fits the opening and the warranty behind it. Harland Windows & Siding custom-makes every window to the measured opening and offers Heat

Mirror glass as well as the Ascent series, which carries a lifetime, non-prorated, transferable warranty. A window that seals tightly and lasts for decades can cost less over time than a cheaper unit you end up replacing again. Is it cheaper to replace all windows at once? Whole-house replacement gives you the biggest comfort gain, one crew from start to finish and a consistent look, all in a single round of measuring and installation. Harland Windows & Siding can also handle one window or one room at a time if the budget is tight, and financing is available for larger projects. Your free estimate can include both approaches so you can compare them. Do I need a permit to replace windows in Raleigh? In most cases, replacing windows in the same openings does not require a permit in Raleigh. Changing opening sizes or adding new windows may, and Harland Windows & Siding helps you work out what applies during the free estimate. Call 919-851-0060 if you are planning an addition or a larger change to your openings. How long does window installation take? Once the custom windows arrive, installation for most homes takes one to two days, with larger whole-house jobs running a little longer. Because each window is made to order, most jobs with Harland Windows & Siding start 3 to 4 weeks after booking. The crew cleans up at the end of every day, so your home stays livable throughout. Are triple pane windows worth it in Raleigh? Triple pane can make sense in Raleigh, where long, hot summers mean solar heat gain matters as much as insulation. The Ascent series installed by Harland Windows & Siding uses Advanced Thin Triple Pane Glass, and a double-hung with LowE 366 and argon is rated at a U-factor of 0.19 and an SHGC of 0.19 while staying up to 40% lighter than standard triple pane. Whether it pays off depends on your home, so the free estimate includes options at different price points. What is the difference between Heat Mirror and triple pane glass? Heat Mirror suspends a thin clear film inside the gap of a double-pane unit, reflecting heat and blocking UV without the weight of a third pane of glass. Triple pane adds a third layer of glass, and the Ascent series uses an ultra-thin center pane that lets in 35% more visible light than standard triple pane. Harland Windows & Siding is one of a small number of certified Heat Mirror installers in North Carolina and installs both, so you can compare them side by side.