

**WINDOW AND DOOR PERFORMANCE REQUIREMENTS****GENERAL INFORMATION**

- 1.1 Window and Door Air Leak Testing - For projects with windows and doors within scope, air leakage for fenestration and doors shall be determined in accordance with AAMA/WDMA/CSA 101/I.S.2/A440, NFRC 400, or ASTM E283.

DESIGN REQUIREMENTS

- 2.1 insulation - For components included in project scope, design exterior fenestration to U-values and R-values with a 5% improvement over code.
- 2.2 Solar Heat Gain - Design glazing solar heat gain coefficient (SHGC) with a 5% improvement over code.
- 2.3 Skylights - Skylight curbs shall be insulated to the level of roofs with insulation entirely above deck.
- 2.4 Operable Windows - Guarantee that 75% of the commonly used areas feature operable windows allowing access to outdoor air. These windows should adhere to the prescribed opening size and placement specifications outlined in ASHRAE 62.1-2016 with Addendum I, section 6.4.1.2. See CU Design Requirement [08 56 56 - WINDOW GUARDS](#) for Accident Prevention for requirements for stops and guards.
- 2.5 Window to Wall Ratio - Window to Wall Ratio (WWR) of no more than 40% on each orientation is encouraged.
- 2.6 Sun Controls - Exterior sun controls for S, E, and W orientations with a protection factor of at least PF-0.5 is encouraged.
- 2.7 Bird-Friendly Design - All windows, regardless of location or code requirements, must meet *Local Law 15* requirements, as applicable based on window type and size. Design teams to utilize *NYC Bird Alliance Bird-Friendly Building Design* and *Make Your Windows Bird Friendly* guidance.