



.1 Definitions

- .1 The term “window”, as used in this section, is defined as curtain walls, storefronts, vents and entrance systems.

.2 Finish

- .1 TYPICAL: clear anodized aluminum, unless approved otherwise to suit the application

.3 Performance Requirements

- .1 Thermal Performance – at a minimum, meet the most stringent requirement, below:
 - .1 System (including vision areas):
 - .1 U-Factor: maximum $1.75 \text{ W/m}^2\cdot\text{K}$
 - .2 Solar Heat Gain Coefficient (SHGC): maximum 0.45.
 - .1 Decrease SHGC at windows on South and West elevations as required to provide adequate indoor thermal comfort.
 - .3 Energy Rating:
 - .1 Exceed by 10% the values specified by the **ENERGY RATING PATH** of Natural Resources Canada - ENERGY STAR Qualifying Criteria for windows, effective 01 June 2010.
 - .2 LEED Certification and Sustainability:
 - .1 LEED projects: augment and coordinate the thermal performance of window assemblies with the performance of other assemblies, systems and equipment, as required to achieve the necessary LEED credit objectives.
- .2 Testing: windows shall be tested for air leakage on projects with a significant quantity. Confirm with Project Officer.

.4 Window Hardware

- .1 Hardware: stainless steel or white bronze sash locks and handles.
- .2 Latching/locking devices shall be cam handle type (rotor operators not acceptable).
- .3 Opening restrictors shall be installed to limit window *opening* as follows:
 - .1 Residential units in dorms: 100mm.
 - .2 Typical: 150mm
- .4 Opening operation
 - .1 Residential units in dorms: awning opening, unless approved otherwise..
- .5 Screens shall not be provided, except some ground floor rooms, reviewed on a case by case basis.

.5 Warranty – 24 months

- .1 Windows shall stay in place and remain leak proof including coverage for complete system failure in accordance with GC 24, but for Twenty-four (24) months.

.6 Acceptable Products

- .1 Kawneer 1600 or 1602 System c/w 526 Isoport or AA900 Isoweb vents, or other equivalent Kawneer products to suit the application.
- .2 Other pre-approved equal.