

PART 1 - GENERAL

- 1.01 Summary: Manufactured glass and glazing systems for project window and door requirements, including vision lights and interior windows, sealants, glazing tape, gaskets, setting blocks, edge blocks, shims, glazing accessories, anchorage devices and miscellaneous items, concealed and non-concealed, for weather-tight systems, per energy code and in compliance with UAF's Design Standards for Energy Conservation. Refer to other Division 8 Design Standards for glazing requirements for insulated plastic and fiberglass window units.
- 1.02. Manufacturer's standard warranty against material defects in manufacture of glass or deterioration due to normal conditions of use under any normal temperature and humidity condition for Fairbanks, Alaska, and not to handling, installing, and cleaning practices contrary to glass manufacturer's published instructions.
- A. Coated glass products: Five (5) years.
 - B. Laminated glass products: Five (5) years.
 - C. Insulated glass products: Guaranteed against seal failures causing clouding or fogging of any kind between glass for ten (10) years.

PART 2 - PRODUCTS

- 2.01. Sealed insulating glass units: Minimum: Heat-treated, heat-strengthened, coated float glass, fully tempered where safety glass required. No tinting unless approved by UAF FS/DDC Project Manager. Preassembled, organically sealed lites of glass separated by dehydrated air space.
- A. Minimum Thickness, each pane: 1/8 inch glazing, 1/2 inch to 3/4 inch air space, 1/8 inch glazing. For new construction, 1/4 inch glazing, 1/2 inch to 3/4 inch air space, 1/4 inch glazing, 1/2 inch to 3/4 inch air space, 1/4 inch glazing.
 - B. Low-E coating on 2nd and 5th surface for triple-pane unit and on 2nd surface for double pane unit. Require sample of glazing to ensure Low-E coating is not causing unwanted color or tinting of glazing unit.
 - C. Sealing system: Manufacturer's thermal break system.
 - D. Air space filling: dehydrated air with silica packets or Argon.
 - E. U-value: Not more than 0.20 BTU/hr-ft²-F. Review current available materials for better than this standard's thermal performance.
 - F. Shading coefficient (SC): 0.32 or better, for new construction 0.28 or better.

- G. Solar Heat Gain Coefficient (SHGC): 0.28 or better, for new construction .025 or better.
- 2.02. Non-insulated glass units: Colored interior glass is only allowed upon approval of the FS/DDC Project Manager. Select fire rated glazing that is clear.
- 2.03 High Performance Sealed insulating glass units: Select a high performance insulating glass unit such as Solera or Kal-Wall when a high percentage of transparency is not a driving factor and U-value, SC, and SHGC are better than a sealed insulating glass unit.

PART 3 – EXECUTION (NOT USED)

END OF SECTION