

DIVISION 8 - DOORS AND WINDOWS

Section 08800 - Glazing

Introduction

Glass is a major maintenance issue for the University due to breakage from accidents and vandalism. The Consultant is encouraged to use light sizes which are easily replaced by the University, and carefully consider the use of any specialty glazing.

Part 1 – General

- Provide calculations for thermal stress, wind load, and structural requirements. Calculations for thermal stress should relate to partial, full and seasonal shading effects.
- Avoid the use of film applied to exposed surfaces of glass whenever possible.
- Wired (safety) glass is not allowed in any application
- Tinted/colored glass or spectrally selective glazing shall be reviewed and approved by the UA FDC Project Manager.

Part 2 - Products

- Exterior Window Openings
 - Standard Glazing: 1" insulating units with solar control low emissivity (low-e) coating
 - Use heat treated glass as required by thermal stress analysis
 - Use laminated glass for obscure or translucent glazing
 - Safety Glazing: 1" insulating glass units, where required by code, either fully tempered (FT) or laminated
 - Spandrel Glass
 - Use heat treated glass as required.
 - Space immediately behind Spandrel glass shall be adequately vented.
- Interior Window Openings
 - Standard Glazing: Annealed float or laminated
 - Use laminated glass for obscure or translucent glazing
 - Safety Glazing: where required by code, either fully tempered (FT) or laminated
- Fire-rated Glazing
 - Due to high cost of installation and replacement the use of fire rated glazing should be carefully considered during the design and approved by the UA FDC Project Manager.
 - Transparent ceramic (used as part of an insulating unit if exterior rated glazing is required).
 - Transparent wall units designed as a barrier wall (inert material turns to foam during a fire)
- Specialty Glazing
 - Coordinate approval of specialty glazing such as bullet resistant, acoustical, one way viewing, projection booths, etc. with UA FDC Project Manager to determine products that will meet specific needs.
 - Ceramic pattern may be used if reviewed and approved by UA FDC Project Manager.

- Mirror Glass: shall be framed in stainless steel and shall have a backing sheet.

Part 3 - Execution

- Mirrors shall be set with theft-proof mounting.

End of Section 08800