

Fabricated Glass Certification

Flat glass products provided by Arch Aluminum and Glass conform to *ASTM C 1036 Standard Specification for Flat Glass*. Transparent flat glass products, *Type I, Class 1 and 2* are provided at quality level *Q3*. *Type II, Class 1 and 2* provided at quality level *Q5* with form, finish, mesh and pattern as specified. Glass dimensional tolerances will fall within nominal guidelines listed in table 2. Additional industry guidelines or governmental regulations apply to specific products listed herein and if applicable permanently marked on individual components indicating compliance.

Coated Glass, Pyrolitic CVD and Vacuum MSVD

Fabricated glass products with thin film coatings designed to alter solar or emissive properties conform to *ASTM C 1376 Standard Specification for Pyrolitic and Vacuum Coated Glass Products*.

Heat Treated Glass

All heat-treated glass products conform to *ASTM C 1048 Standard Specification for Heat Treated Flat Glass, Kind HS, Kind FT, Coated and Uncoated*.

- **Kind HS or heat-strengthened** glass is produced with surface compression of 3500 - 7500 psi. Heat Strengthened glass is NOT a safety glazing product
- **Opaque Spandrel Coatings¹**, Ceramic Frit, Condition B, *ASTM C 1048*; Opaci-Coat® 300 silicon elastomer, Condition C, *ASTM C 1048* and *GTA Engineering Standards 89 – 4 – 6*.
- **Fully Tempered** glass with logo² complies with *ANSI Z 97.1 2004* and *CPSC 16 CFR 1201* as safety glazing material.

Insulating Glass

All insulated glass products conform to *ASTM E 2188* and *ASTM E 2190* as required by participation in the Insulated Glass Certification Council, (IGCC) 2005. These standards replaced the ASTM E 773 – 774 CBA tiered system in 2005 as the Council moved to the Harmonized Insulated Glass Standards for North America (HIGS). Each IGU is permanently marked with date, IGCC registration, and compliance to standard as well as the producing Arch Aluminum location.

Laminated Glass³

All laminated glass products conform to *ASTM C 1172 Standard Specification for Laminated Flat Glass*. Standard laminates with minimum 0.030" PVB interlayer comply with *ANSI Z 97.1 2004* and *16 CFR 1201 II* as safety glazing material. Ballistic, Blast resistance and Hurricane glass are specialty-laminated products independently certified or tested to resist specific threats. Separate certification will be provided when ordering any of these products.

Mirror

Base glass used for production conforms to *ASTM C 1036 Standard Specification for Flat Glass, Type I, Class 1 and 2, Q2* or better. All mirror products conform to *ASTM C 1503 Standard Specification for Silvered Flat Glass Mirror*.

Wire Glass

¼" Polished Diamond and Georgian wire glass is rated fire resistant material. *Under Writers Laboratory Inc. File R-6128*. Wire glass is restricted to non-hazardous applications requiring labeled fire rating as sized and tested from 20 to 90 minutes. Wire glass is not suitable for all applications or locations and its use is restricted in schools, athletic and day care facilities where IBC 2003 or NFPA 5000 is enforced. The design professional is responsible for determining the appropriate use of wired or safety glazing products. Consult applicable building codes prior to specifying. Wire glass does not meet impact requirements of *CPSC 16 CFR 1201*

Note:

¹ *Non-vision glass, coated side unsuitable as finished surface. Large variation in coating density will be seen in transmission from coated side. This is normal and not cause for rejection. View for acceptance per standard.*

² *IBC 2003 requires tempered logo to be visible and legible post installation.*

³ *National Elevator Code ASME A 17.1 requires ALL glass used in cab OR hoist way have logo showing compliance to ANSI Z 97.1 visible and legible post installation.*