SECTION 08 8100
GLASS GLAZING

PART 1 - GENERAL

1.1 SUMMARY

A. Includes But Not Limited To:
   1. Quality of glazing used in entries and windows.

B. Related Sections:
   1. Section 08 4113: Furnishing and installing of glazing in aluminum-framed storefront.
   2. Section 08 5113 or 08 5313: Furnishing and installing of glazing in windows.

1.2 REFERENCES

A. American Society For Testing And Materials:
   1. ASTM C 1036-01, 'Standard Specification For Flat Glass.'
   2. ASTM C 1048-04, 'Standard Specification For Heat-Treated Flat Glass - Kind H, Kind FT Coated and Uncoated Glass.'
   3. ASTM E 774-97, 'Standard Specification for Sealed Insulating Glass Units.'

1.3 QUALITY ASSURANCE


B. Manufacturer's Labels: Labels showing strength, grade, thickness, type, and quality are required on each piece of glass.

PART 2 - PRODUCTS

2.1 MATERIAL

A. Exterior Window Glazing:
   1. Thickness: 1/8 inch 3 mm minimum, Double Strength.
   2. Glazing shall have following characteristics:
      a. Clear: ASTM C 1036, Type I, Class I, Quality q3.
      b. Pyrolytic Low E:
         1) Performance Standard: Energy Advantage Clear by LOF.
         2) Type One Acceptable Manufacturers:
            a) AFG
            b) LOF
            c) PPG
            d) Visteon.
            e) Other low E glazing system standard with window manufacturer that meets or exceeds performance characteristics of specified glazing is acceptable as approved by Architect before bidding. See Section 01 6000.
      c. Obscure: ASTM C 1036, Type II, Class I, Form 3, Quality q8, Pattern #62.
      d. Glazing in windows within 24 inches 600 mm of exterior doors shall be tempered meeting requirements of ASTM C 1048, Kind FT, Condition A, Type I, Class I, Quality q3.
B. Storefront Glazing:
   1. Thickness: \textit{1/4 inch 6 mm}. 
   2. Glazing shall have following characteristics:
      a. Clear: ASTM C 1036, Type I, Class I, Quality q3.
      b. Pyrolytic Low E:
         1) Performance Standard: Energy Advantage Clear by LOF.
         2) Type One Acceptable Manufacturers:
            a) AFG
            b) LOF
            c) PPG
            d) Visteon.
            e) Equal as approved by Architect before bidding. See Section 01 6000.
      c. Obscure: ASTM C 1036, Type II, Class I, Form 3, Quality q8, Pattern - #62.
      d. Glazing below door height shall be tempered meeting requirements of ASTM C 1048, Kind FT, Condition A, Type I, Class I, Quality q3.

2.2 MANUFACTURERS

A. Contact Information for Low E Glazing Manufacturers:
   1. AFG Industries, Kingsport, TN  \url{www.afg.com}.
   2. Pilkington Libby-Owens-Ford - LOF, Toledo, OH  \url{www.pilkington.com}.
   3. PPG Industries, Pittsburgh, PA  \url{www.ppgglass.com}.
   4. Visteon, Allen Park, MI  \url{www.visteon.com/floatglass/}.

2.3 FABRICATION

A. Except where glass exceeds \textit{66 inches 1 650 mm} in width, cut clear glass so any wave will run horizontally when glazed.

B. Install muntins for exterior aluminum entries and aluminum windows between panes of insulating glazing units. No muntins on interior Vestibule storefront entries.

C. Sealed, Insulating Glazing Units:
   1. Double pane, sealed insulating glass units meeting requirements of ASTM E 774, Class A. Install at exterior windows and exterior aluminum-framed storefront.
   2. Unit Thickness: \textit{5/8 inch 16 mm} minimum, \textit{one inch 25 mm} maximum.
   3. Insulated obscure units shall consist of one pane of specified obscure glass and one pane of standard glass.
   4. Type Seal:
      a. Metal-to-glass bond and separated by \textit{1/2 inch 13 mm} dehydrated air space.
      b. Use non-hardening sealants.
   5. Category Four Approved Fabricators. See Section 01 6000 for definitions of Categories.

PART 3 - EXECUTION: Not Used

END OF SECTION