Glass Specification Writing

Summary
The following sections cover Clear and Tinted Glass; Clear Low-E Glass; Solar Control Coated Glass; Anti-Reflective Glass; Self-Cleaning Glass; Transparent Mirrors. Underlined words or values between ( ) need to be appropriately selected for the particular specification being written.

Clear and Tinted
All float glass designated on the drawings shall be (2.5, 3, 4, 5, 6, 8, 10, 12, 15, 16, or 19 mm) thick Pilkington (Optiwhite™), (Optifloat™ Clear, Green, Blue-Green, Grey, Bronze), or: EverGreen™, Arctic Blue™, or SuperGrey™) float glass as manufactured by Pilkington North America, Inc. Float glass shall meet the quality requirements Q3 of ASTM C 1036 "Standard Specification for Flat Glass".

Clear Low-E Glass
All sealed insulating glass (IG) units, with (x) mm wide Air, or Argon gap) as designated on the drawings shall have (2.5, 3, 4, 5, 6, 8, 10 or 12 mm) thick Pilkington Energy Advantage™ Low-E Glass, with the coating on the (#2, #3 or #4) surface(s), as manufactured by Pilkington North America, Inc. The center-of-glass area of the IG unit assembly will provide the following performance characteristics:

- Winter U-Factor not to exceed ________ Btu/(hr.sq.ft°F)
- Summer U-Factor not to exceed ________ Btu/(hr.sq.ft°F)
- Average daylight transmittance of ________ %
- Solar Heat Gain Coefficient not to exceed ________
The Low-E coating will meet the coating quality specifications ASTM C 1376-03 "Standard Specification for Pyrolytic and Vacuum Deposition Coatings on Flat Glass".

**Solar Control Coated Glass**

All single glazed or sealed insulating glass (IG) units, with ((x) mm wide Air or Argon gap) as designated on the drawings, shall have (2.5, 3, 4, 5, 6, or 8 mm) thick

((Pilkington Solar-E™ (Clear, Arctic Blue, Blue-Green, Grey, EverGreen))

or

(Pilkington Solar-E™ Plus (Arctic Blue, Blue-Green, Grey, EverGreen))

or

(Pilkington Eclipse Advantage™ (Clear, Arctic Blue, Blue-Green, Grey, EverGreen))

Glass, with the coating on the #2 surface, as manufactured by Pilkington North America, Inc. The center-of-glass area of the IG unit assembly will provide the following performance characteristics:

* Winter U-Factor not to exceed ________ Btu/(hr.sq.ft°C)
* Summer U-Factor not to exceed ________ Btu/(hr.sq.ft°C)
* Average daylight transmittance of ________ %
* Solar Heat Gain Coefficient not to exceed ________

(Performance values from www.pilkington.com/na Sun Management Calculator or by calling 800 221 0444 x 4)

The Low-E coating will meet the coating quality specifications ASTM C 1376-03 "Standard Specification for Pyrolytic and Vacuum Deposition Coatings on Flat Glass".

For IG units the room-side light shall be (2.5, 3, 4, 5, 6, or 8 mm) thick

(Pilkington Optifloat™ Clear Glass

or

Pilkington Energy Advantage™ Low-E Glass, with the coating on surface (#3 or #4))

**LOW REFLECTION COATED GLASS**

Low Reflective glass designated on the drawings shall be (3 mm Monolithic, 6 mm Laminated (0.015”, 0.030”, 0.045”, 0.060”) clear pvb interlayer), 6 mm Monolithic, 12 mm Laminated (0.015”, 0.030”, 0.045”, 0.060”) clear pvb interlayer), Pilkington OptiView™ Low Reflective Glass, with the coating on surface (#1 monolithic, #1 and #4 Laminated) as manufactured by Pilkington North America, Inc. in the sizes noted. The reflective coating shall meet the quality specifications ASTM C 1376-03 "Standard Specification for Pyrolytic and Vacuum Deposition Coatings on Flat Glass".
**SELF-CLEANING GLASS**

All self-cleaning glass designated on the drawings shall be (3, 4, 5, or 6 mm) Pilkington Activ™ Clear or (6 mm Pilkington Activ™ Blue) Self-Cleaning Glass as manufactured by Pilkington North America, Inc. in the sizes noted.

The coating shall meet the quality specifications ASTM C 1376-03 "Standard Specification for Pyrolytic and Vacuum Deposition Coatings on Flat Glass".

**TRANSPARENT MIRRORS**

All transparent mirrors designated on the drawings shall be (6 mm Pilkington Mirropane™ Transparent Mirror or (3 mm or 6 mm) Pilkington MirroView™ TV Cover Glass), as manufactured by Pilkington North America, Inc. in the sizes noted. The reflective coating shall meet the quality specifications ASTM C 1376-03 "Standard Specification for Pyrolytic and Vacuum Deposition Coatings on Flat Glass".

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