



Technical Bulletin

ATS-128
2013-01-14

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 _____

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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°F)
- * Summer U--Factor not to exceed _____ Btu/(hr.sq.ft°F)
- * 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".

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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".

The in this information contained bulletin is offered for assistance in the application of Pilkington North America Inc. flat glass products, but **IT DOES NOT CONSTITUTE A WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.** Actual performance may vary in particular applications.

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