

Monolithic Glass Standards and Sizes

| Quality Levels | Nominal Glass Thickness | | Approximate Weight ⁴ | | Thickness Tolerance Range ¹ | | | | Maximum Standard Size ^{2,3} | |
|---|-------------------------|-----|---------------------------------|-------------------|--|-------|-------|-------|--------------------------------------|-------------|
| | | | | | in. | | mm | | in. | mm |
| | in. | mm | lb/ft ² | kg/m ² | min. | max. | min. | max. | | |
| Pilkington Optifloat™ Clear, Pilkington Activ™ , Pilkington Energy Advantage™ , Pilkington Solar-E™ Plus, Pilkington OptiView™* , and Pilkington OptAR™ | | | | | | | | | | |
| Q3 | 3/32 | 2.5 | 1.2 | 6 | 0.085 | 0.101 | 2.16 | 2.57 | 96 x 130 | 2438 x 3302 |
| | 1/8 | 3 | 1.6 | 8 | 0.115 | 0.134 | 2.92 | 3.40 | 102 x 130 | 2591 x 3302 |
| | 5/32 | 4 | 2.1 | 10 | 0.149 | 0.165 | 3.78 | 4.19 | 130 x 180 | 3302 x 4572 |
| Q1/Q3 | 3/16 | 5 | 2.5 | 12 | 0.180 | 0.199 | 4.57 | 5.05 | 130 x 204 | 3302 x 5182 |
| Q2/Q3 | 1/4 | 6 | 3.1 | 15 | 0.219 | 0.244 | 5.56 | 6.20 | | |
| Pilkington Optifloat™ Heavy Clear, Pilkington Energy Advantage™*** , and Pilkington Solar-E™**** | | | | | | | | | | |
| Q3 | 5/16 | 8 | 4.1 | 20 | 0.292 | 0.332 | 7.42 | 8.43 | 130 x 204 | 3302 x 5182 |
| | 3/8 | 10 | 5.2 | 25 | 0.355 | 0.406 | 9.02 | 10.31 | | |
| | | 1/2 | 12 | 6.6 | 32 | 0.469 | 0.531 | 11.91 | 13.49 | 130 X 204 |
| Pilkington Optifloat™ Heavy Clear | | | | | | | | | | |
| Q3 | 5/8 | 16 | 8.2 | 40 | 0.595 | 0.656 | 15.09 | 16.66 | 130 X 204 | 3302 X 5182 |
| | 3/4 | 19 | 9.9 | 48 | 0.719 | 0.781 | 18.26 | 19.84 | | |
| Pilkington Optifloat™ Heavy Grey or Bronze | | | | | | | | | | |
| Q3 | 5/16 | 8 | 4.1 | 20.3 | 0.303 | 0.327 | 7.70 | 8.30 | 130 x 204 | 3302 x 5182 |
| | 3/8 | 10 | 5.2 | 25.4 | 0.382 | 0.406 | 9.70 | 10.30 | | |
| | | 1/2 | 12 | 6.6 | 32.0 | 0.469 | 0.531 | 11.91 | 13.49 | 130 x 204 |
| Pilkington Optifloat™ Grey or Bronze | | | | | | | | | | |
| Q3 | 1/8 | 3.2 | 1.6 | 8.0 | 0.115 | 0.134 | 2.92 | 3.40 | 102 x 130 | 2591 x 3302 |
| | 3/16 | 5 | 2.6 | 12.7 | 0.189 | 0.205 | 4.80 | 5.20 | 130 x 204 | 3302 x 5182 |
| | 1/4 | 6 | 3.1 | 15.2 | 0.228 | 0.244 | 5.80 | 6.20 | 130 x 204 | 3302 x 5182 |
| Pilkington Optifloat™ Heavy Blue-Green | | | | | | | | | | |
| Q3 | 5/16 | 8 | 4.1 | 20.3 | 0.303 | 0.327 | 7.70 | 8.30 | 130 x 204 | 3302 x 5182 |
| | 3/8 | 10 | 5.2 | 25.4 | 0.382 | 0.406 | 9.70 | 10.30 | | |
| Pilkington Optifloat™ Blue-Green, Green, Pilkington EverGreen™ , Pilkington Graphite Blue™ , and Pilkington SuperGrey™ | | | | | | | | | | |
| Q3 | 1/8 | 3.2 | 1.6 | 8.0 | 0.115 | 0.134 | 2.92 | 3.40 | 102 x 130 | 2591 x 3302 |
| | 3/16 | 5 | 2.6 | 12.7 | 0.189 | 0.205 | 4.80 | 5.20 | 130 x 204 | 3302 x 5182 |
| | 1/4 | 6 | 3.1 | 15.2 | 0.228 | 0.244 | 5.80 | 6.20 | 130 x 204 | 3302 x 5182 |
| Pilkington Arctic Blue™ High Performance Tint | | | | | | | | | | |
| Q3 | 5/32 | 4 | 2.1 | 10.1 | 0.150 | 0.165 | 3.80 | 4.20 | 130 x 180 | 3302 x 4572 |
| | 1/4 | 6 | 3.1 | 15.2 | 0.228 | 0.244 | 5.80 | 5.80 | 130 x 204 | 3302 x 5182 |
| | 3/8 | 10 | 5.2 | 25.4 | 0.382 | 0.406 | 9.70 | 10.30 | 130 x 204 | 3302 x 5182 |
| Pilkington Eclipse Advantage™ , Pilkington Mirropane™ and Pilkington MirroView™ | | | | | | | | | | |
| Q3 | 1/4 | 6 | 3.1 | 15.2 | 0.228 | 0.244 | 5.80 | 6.20 | 130 x 204 | 3302 x 5182 |
| Pilkington Optiwhite™ | | | | | | | | | | |
| Q3 | 1/8 | 3.2 | 1.6 | 8.0 | 0.115 | 0.134 | 2.92 | 3.40 | 96x130 | 2438x3302 |
| | 3/16 | 5 | 2.5 | 12 | 0.180 | 0.199 | 4.57 | 5.05 | | |
| | 1/4 | 6 | 3.1 | 15.2 | 0.228 | 0.244 | 5.80 | 6.20 | | |
| | 5/16 | 8 | 4.1 | 20.3 | 0.303 | 0.327 | 7.70 | 8.30 | 130 x 204 | 3302 x 5182 |
| | 3/8 | 10 | 5.2 | 25 | 0.355 | 0.406 | 9.02 | 10.31 | | |
| | 1/2 | 12 | 6.6 | 32 | 0.469 | 0.531 | 11.91 | 13.49 | | |
| | 5/8 | 15 | 7.8 | 38.0 | 0.571 | 0.61 | 14.50 | 15.50 | | |
| | 3/4 | 19 | 9.8 | 48.2 | 0.709 | 0.787 | 18.0 | 20.0 | | |
| Pilkington Texture Glass (all products except as noted below) | | | | | | | | | | |
| EN 572-5 | 5/32 | 4 | 2.1 | 10.1 | 0.142 | 0.157 | 3.80 | 4.20 | 52.0 x 83.9 | 1320 x 2130 |
| | 1/4 | 6 | 3.1 | 15.2 | 0.228 | 0.244 | 5.70 | 6.30 | | |
| Pilkington Texture Glass Reeded™ | | | | | | | | | | |
| EN 572-5 | 5/32 | 4 | 2.1 | 10.1 | 0.150 | 0.165 | 3.80 | 4.20 | 52.0 x 83.9 | 1320 x 2130 |
| Pilkington Texture Glass Austral™ and Morisco™ | | | | | | | | | | |
| EN 572-5 | 5/32 | 4 | 2.1 | 10.1 | 0.142 | 0.157 | 3.80 | 4.20 | 63.0 x 98.4 | 1600 x 2500 |
| Pilkington Texture Glass Rayado™ , Sparkel™ and Yacare™ | | | | | | | | | | |
| EN 572-5 | 5/32 | 4 | 2.1 | 10.1 | 0.142 | 0.157 | 3.80 | 4.20 | 57.1 x 88.6 | 1450 x 2250 |

- Per ASTM C 1036; with exception of Pilkington Texture Glass
 - Size listed may, in some cases, be too large to meet applicable static load requirements.
 - Certain other thicknesses and sizes may be available upon request
 - Based on the mean of the thickness range. Note glass density = 158 lb./cu. ft.
 - Coated glasses meet quality level of ASTM C 1376
- * Pilkington **OptiView™** is not available in 3/32" (2.5 mm). ** Pilkington **Optifloat™** Blue-Green: 1/8" (3.2 mm) and 3/16" (5 mm) are not standard products. Subject to availability.
 *** The largest size for Pilkington **Energy Advantage™** 1/2" (12 mm) is 130 x 204. **** Pilkington **Solar-E™** is not available in 1/2" (12 mm).

Uncoated Monolithic Glass Performance Data^{1,10}

| | Nominal Glass Thickness | | Visible Light ² | | | Solar Energy ² | | | U-Factor ⁵ | | | Solar Heat Gain Coefficient ⁷ | Shading Coefficient ⁸ |
|--|-------------------------|-----|------------------------------|----------------------------|--------|------------------------------|----------------------------|---------------------------------|-----------------------|--------------|-------------------------|--|----------------------------------|
| | in. | mm | Transmittance ³ % | Reflectance ⁴ % | | Transmittance ³ % | Reflectance ⁴ % | UV Transmittance ² % | U.S. Summer* | U.S. Winter* | European ^{6**} | | |
| | | | | Outside | Inside | | | | | | | | |
| Pilkington Optifloat™ Clear | | | | | | | | | | | | | |
| | 3/32 | 2.5 | 91 | 8 | 8 | 89 | 8 | 82 | 0.95 | 1.05 | 5.8 | 0.90 | 1.03 |
| | 1/8 | 3 | 91 | 8 | 8 | 88 | 8 | 80 | 0.94 | 1.04 | 5.8 | 0.89 | 1.02 |
| | 5/32 | 4 | 90 | 8 | 8 | 86 | 8 | 78 | 0.94 | 1.04 | 5.8 | 0.88 | 1.01 |
| | 3/16 | 5 | 89 | 8 | 8 | 80 | 7 | 65 | 0.93 | 1.03 | 5.7 | 0.83 | 0.96 |
| | 1/4 | 6 | 88 | 8 | 8 | 77 | 7 | 63 | 0.93 | 1.03 | 5.7 | 0.82 | 0.94 |
| | 5/16 | 8 | 87 | 8 | 8 | 73 | 7 | 57 | 0.92 | 1.01 | 5.6 | 0.79 | 0.91 |
| | 3/8 | 10 | 86 | 8 | 8 | 70 | 7 | 54 | 0.91 | 1.00 | 5.6 | 0.77 | 0.88 |
| | 1/2 | 12 | 84 | 8 | 8 | 64 | 6 | 49 | 0.89 | 0.98 | 5.5 | 0.73 | 0.84 |
| | 5/8 | 16 | 83 | 8 | 8 | 59 | 6 | 45 | 0.88 | 0.97 | 5.4 | 0.70 | 0.81 |
| | 3/4 | 19 | 81 | 7 | 7 | 55 | 6 | 41 | 0.86 | 0.95 | 5.3 | 0.67 | 0.78 |
| Pilkington Optiwhite™ low iron | | | | | | | | | | | | | |
| | 1/8 | 3 | 91 | 9 | 9 | 91 | 8 | 88 | 0.94 | 1.04 | 5.8 | 0.91 | 1.04 |
| | 5/32 | 4 | 91 | 9 | 9 | 90 | 8 | 87 | 0.94 | 1.04 | 5.8 | 0.91 | 1.04 |
| | 3/16 | 5 | 91 | 9 | 9 | 90 | 8 | 86 | 0.93 | 1.03 | 5.7 | 0.91 | 1.04 |
| | 1/4 | 6 | 91 | 9 | 9 | 90 | 8 | 85 | 0.93 | 1.02 | 5.7 | 0.90 | 1.04 |
| | 5/16 | 8 | 91 | 9 | 9 | 89 | 8 | 84 | 0.92 | 1.01 | 5.6 | 0.90 | 1.03 |
| | 3/8 | 10 | 91 | 9 | 9 | 88 | 8 | 83 | 0.91 | 1.00 | 5.6 | 0.89 | 1.03 |
| | 1/2 | 12 | 90 | 9 | 9 | 88 | 8 | 81 | 0.89 | 0.99 | 5.5 | 0.89 | 1.02 |
| | 5/8 | 15 | 90 | 9 | 9 | 86 | 8 | 77 | 0.88 | 0.97 | 5.4 | 0.88 | 1.01 |
| | 3/4 | 19 | 90 | 8 | 8 | 86 | 8 | 78 | 0.86 | 0.95 | 5.3 | 0.88 | 1.01 |
| Pilkington Optifloat™ Tints | | | | | | | | | | | | | |
| Green | 1/4 | 6 | 76 | 7 | 7 | 46 | 5 | 29 | 0.93 | 1.03 | 5.7 | 0.61 | 0.70 |
| Blue-Green | 1/4 | 6 | 75 | 7 | 7 | 48 | 6 | 32 | 0.93 | 1.02 | 5.7 | 0.62 | 0.72 |
| | 5/16 | 8 | 70 | 7 | 7 | 40 | 5 | 25 | 0.92 | 1.01 | 5.6 | 0.57 | 0.66 |
| | 3/8 | 10 | 67 | 6 | 6 | 36 | 5 | 21 | 0.91 | 1.00 | 5.6 | 0.54 | 0.63 |
| Bronze | 1/8 | 3 | 68 | 6 | 6 | 65 | 6 | 37 | 0.94 | 1.04 | 5.8 | 0.73 | 0.84 |
| | 3/16 | 5 | 59 | 6 | 6 | 55 | 6 | 28 | 0.93 | 1.03 | 5.7 | 0.67 | 0.77 |
| | 1/4 | 6 | 51 | 6 | 6 | 48 | 5 | 22 | 0.93 | 1.02 | 5.7 | 0.62 | 0.72 |
| | 5/16 | 8 | 44 | 5 | 5 | 39 | 5 | 16 | 0.92 | 1.01 | 5.6 | 0.57 | 0.65 |
| | 3/8 | 10 | 39 | 5 | 5 | 34 | 5 | 13 | 0.91 | 1.00 | 5.6 | 0.53 | 0.61 |
| | 1/2 | 12 | 29 | 5 | 5 | 25 | 4 | 8 | 0.89 | 0.98 | 5.5 | 0.48 | 0.55 |
| Grey | 1/8 | 3 | 61 | 6 | 6 | 59 | 6 | 35 | 0.94 | 1.04 | 5.8 | 0.69 | 0.80 |
| | 3/16 | 5 | 50 | 6 | 6 | 48 | 5 | 26 | 0.93 | 1.03 | 5.7 | 0.62 | 0.71 |
| | 1/4 | 6 | 44 | 5 | 5 | 41 | 5 | 21 | 0.93 | 1.02 | 5.7 | 0.58 | 0.66 |
| | 5/16 | 8 | 33 | 5 | 5 | 31 | 5 | 14 | 0.92 | 1.01 | 5.6 | 0.51 | 0.59 |
| | 3/8 | 10 | 28 | 5 | 5 | 26 | 5 | 11 | 0.91 | 1.00 | 5.6 | 0.48 | 0.55 |
| | 1/2 | 12 | 19 | 4 | 4 | 17 | 4 | 7 | 0.89 | 0.98 | 5.5 | 0.42 | 0.49 |
| Pilkington Graphite Blue™ | | | | | | | | | | | | | |
| | 1/4 | 6 | 61 | 6 | 6 | 54 | 6 | 37 | 0.93 | 1.02 | 5.7 | 0.67 | 0.77 |
| | 5/16 | 8 | 54 | 6 | 6 | 46 | 5 | 30 | 0.92 | 1.01 | 5.6 | 0.61 | 0.70 |
| | 3/8 | 10 | 47 | 5 | 5 | 39 | 5 | 25 | 0.91 | 1.00 | 5.6 | 0.57 | 0.65 |
| Pilkington EverGreen™ High Performance Tint | | | | | | | | | | | | | |
| | 1/8 | 3 | 76 | 7 | 7 | 49 | 6 | 27 | 0.94 | 1.04 | 5.8 | 0.63 | 0.72 |
| | 3/16 | 5 | 73 | 7 | 7 | 42 | 5 | 21 | 0.93 | 1.03 | 5.7 | 0.58 | 0.67 |
| | 1/4 | 6 | 66 | 6 | 6 | 33 | 5 | 14 | 0.93 | 1.02 | 5.7 | 0.53 | 0.60 |
| Pilkington Arctic Blue™ High Performance Tint | | | | | | | | | | | | | |
| | 5/32 | 4 | 65 | 6 | 6 | 45 | 5 | 31 | 0.94 | 1.04 | 5.8 | 0.60 | 0.69 |
| | 1/4 | 6 | 53 | 6 | 6 | 33 | 5 | 20 | 0.93 | 1.02 | 5.7 | 0.52 | 0.60 |
| | 5/16 | 8 | 42 | 5 | 6 | 25 | 5 | 13 | 0.92 | 1.01 | 5.6 | 0.47 | 0.54 |
| | 3/8 | 10 | 41 | 5 | 5 | 21 | 5 | 13 | 0.91 | 1.00 | 5.6 | 0.45 | 0.52 |
| Pilkington SuperGrey™ High Performance Tint | | | | | | | | | | | | | |
| | 1/8 | 3 | 25 | 5 | 5 | 23 | 4 | 6 | 0.94 | 1.04 | 5.8 | 0.45 | 0.52 |
| | 3/16 | 5 | 12 | 4 | 4 | 11 | 4 | 2 | 0.93 | 1.03 | 5.7 | 0.38 | 0.44 |
| | 1/4 | 6 | 9 | 4 | 4 | 8 | 4 | 1 | 0.93 | 1.03 | 5.7 | 0.36 | 0.41 |

*U.S. U-Factor (Btu/hr.sq ft. °F) is based on NFRC/ASTM standards, **European U-Factor (W/sq m K) is based on EN 410/673 (CEN) standard.
 All performance values are center-of-glass values calculated using the LBNL Window 6.3 program. See page 51 for explanation of references - 1, 10.

Coated Monolithic Glass Performance Data^{1,10}

| | Nominal Glass Thickness | | Visible Light ² | | | Solar Energy ² | | | U-Factor ⁵ | | | Solar Heat Gain Coefficient ⁷ | Shading Coefficient ⁸ |
|---|-------------------------|-----|------------------------------|----------------------------|--------|------------------------------|----------------------------|---------------------------------|-----------------------|--------------|-------------------------|--|----------------------------------|
| | in. | mm | Transmittance ³ % | Reflectance ⁴ % | | Transmittance ³ % | Reflectance ⁴ % | UV Transmittance ² % | U.S. Summer* | U.S. Winter* | European ^{6**} | | |
| | | | | Outside | Inside | | | | | | | | |
| Pilkington Energy Advantage™ thermal control low-e (coating on #2 surface) | | | | | | | | | | | | | |
| | 3/32 | 2.5 | 84 | 11 | 11 | 75 | 11 | 67 | 0.50 | 0.66 | 3.7 | 0.77 | 0.89 |
| | 1/8 | 3 | 84 | 11 | 11 | 74 | 11 | 66 | 0.50 | 0.65 | 3.7 | 0.77 | 0.88 |
| | 5/32 | 4 | 84 | 11 | 11 | 73 | 11 | 64 | 0.50 | 0.65 | 3.7 | 0.76 | 0.87 |
| | 3/16 | 5 | 83 | 11 | 12 | 68 | 10 | 53 | 0.49 | 0.65 | 3.7 | 0.71 | 0.82 |
| | 1/4 | 6 | 82 | 10 | 11 | 66 | 10 | 49 | 0.49 | 0.64 | 3.6 | 0.70 | 0.81 |
| | 5/16 | 8 | 81 | 10 | 11 | 62 | 9 | 45 | 0.49 | 0.64 | 3.6 | 0.67 | 0.77 |
| | 3/8 | 10 | 80 | 10 | 11 | 59 | 9 | 42 | 0.49 | 0.63 | 3.6 | 0.65 | 0.75 |
| | 1/2 | 12 | 79 | 10 | 11 | 56 | 8 | 42 | 0.49 | 0.63 | 3.6 | 0.63 | 0.73 |
| Pilkington Solar-E™ solar control low-e (coating on #2 surface) | | | | | | | | | | | | | |
| Clear | 1/8 | 3 | 60 | 8 | 9 | 46 | 8 | 48 | 0.50 | 0.66 | 3.7 | 0.54 | 0.63 |
| | 5/32 | 4 | 60 | 8 | 9 | 45 | 8 | 46 | 0.50 | 0.65 | 3.7 | 0.54 | 0.62 |
| | 3/16 | 5 | 60 | 7 | 9 | 44 | 7 | 44 | 0.50 | 0.65 | 3.7 | 0.53 | 0.61 |
| | 1/4 | 6 | 60 | 8 | 9 | 44 | 7 | 44 | 0.50 | 0.65 | 3.7 | 0.53 | 0.61 |
| | 5/16 | 8 | 59 | 8 | 9 | 42 | 7 | 41 | 0.50 | 0.64 | 3.7 | 0.52 | 0.59 |
| | 3/8 | 10 | 60 | 8 | 9 | 40 | 7 | 38 | 0.49 | 0.64 | 3.6 | 0.50 | 0.58 |
| Pilkington Solar-E™ Plus solar control low-e (coating on #2 surface) | | | | | | | | | | | | | |
| Blue-Green | 1/4 | 6 | 41 | 6 | 9 | 24 | 5 | 19 | 0.50 | 0.65 | 3.7 | 0.38 | 0.43 |
| | 5/16 | 8 | 39 | 6 | 9 | 21 | 5 | 15 | 0.50 | 0.65 | 3.7 | 0.35 | 0.41 |
| EverGreen | 1/4 | 6 | 38 | 6 | 9 | 17 | 5 | 8 | 0.50 | 0.65 | 3.7 | 0.32 | 0.37 |
| | 5/16 | 8 | 34 | 6 | 9 | 14 | 5 | 5 | 0.50 | 0.65 | 3.7 | 0.30 | 0.34 |
| Graphite Blue | 1/4 | 6 | 35 | 6 | 9 | 28 | 5 | 23 | 0.50 | 0.65 | 3.7 | 0.41 | 0.47 |
| | 5/16 | 8 | 30 | 6 | 9 | 23 | 5 | 18 | 0.50 | 0.64 | 3.7 | 0.37 | 0.43 |
| Arctic Blue | 1/4 | 6 | 30 | 5 | 8 | 17 | 5 | 11 | 0.50 | 0.65 | 3.7 | 0.32 | 0.37 |
| | 5/16 | 8 | 27 | 6 | 8 | 14 | 5 | 9 | 0.50 | 0.65 | 3.7 | 0.30 | 0.35 |
| Grey | 1/4 | 6 | 24 | 5 | 9 | 19 | 5 | 12 | 0.50 | 0.65 | 3.7 | 0.34 | 0.39 |
| | 5/16 | 8 | 19 | 5 | 8 | 15 | 5 | 9 | 0.50 | 0.64 | 3.7 | 0.31 | 0.36 |
| Pilkington Eclipse Advantage™ solar control low-e (coating on #2 surface) | | | | | | | | | | | | | |
| Clear | 1/4 | 6 | 67 | 25 | 28 | 58 | 19 | 30 | 0.53 | 0.67 | 3.7 | 0.62 | 0.72 |
| | 5/16 | 8 | 66 | 25 | 28 | 55 | 17 | 29 | 0.53 | 0.67 | 3.7 | 0.60 | 0.69 |
| Blue-Green | 1/4 | 6 | 56 | 19 | 27 | 35 | 11 | 16 | 0.53 | 0.67 | 3.7 | 0.46 | 0.53 |
| | 5/16 | 8 | 53 | 17 | 27 | 30 | 10 | 13 | 0.53 | 0.67 | 3.7 | 0.42 | 0.48 |
| EverGreen | 1/4 | 6 | 48 | 15 | 27 | 23 | 8 | 7 | 0.53 | 0.67 | 3.7 | 0.37 | 0.43 |
| | 5/16 | 8 | 43 | 13 | 27 | 18 | 7 | 4 | 0.53 | 0.67 | 3.7 | 0.34 | 0.39 |
| Arctic Blue | 1/4 | 6 | 39 | 12 | 27 | 23 | 8 | 10 | 0.53 | 0.67 | 3.7 | 0.37 | 0.42 |
| | 5/16 | 8 | 32 | 10 | 27 | 17 | 7 | 7 | 0.53 | 0.67 | 3.7 | 0.33 | 0.38 |
| Bronze | 1/4 | 6 | 38 | 11 | 27 | 35 | 10 | 11 | 0.53 | 0.67 | 3.7 | 0.46 | 0.53 |
| | 5/16 | 8 | 31 | 9 | 26 | 28 | 8 | 8 | 0.53 | 0.67 | 3.7 | 0.41 | 0.47 |
| Grey | 1/4 | 6 | 32 | 10 | 27 | 29 | 8 | 10 | 0.53 | 0.67 | 3.7 | 0.42 | 0.48 |
| | 5/16 | 8 | 25 | 8 | 27 | 22 | 7 | 7 | 0.53 | 0.67 | 3.7 | 0.37 | 0.42 |
| Pilkington Eclipse™ Gold (coating on #2 surface) | | | | | | | | | | | | | |
| | 1/4 | 6 | 40 | 36 | 45 | 45 | 25 | 9 | 0.93 | 1.02 | 5.7 | 0.54 | 0.62 |
| | 5/16 | 8 | 40 | 34 | 44 | 42 | 23 | 8 | 0.92 | 1.01 | 5.6 | 0.53 | 0.61 |
| Pilkington Eclipse™ Sunset Gold (coating on #2 surface) | | | | | | | | | | | | | |
| | 1/4 | 6 | 24 | 16 | 44 | 30 | 12 | 3 | 0.93 | 1.02 | 5.7 | 0.48 | 0.55 |
| Pilkington Activ™ self-cleaning (coating on #1 surface) | | | | | | | | | | | | | |
| Clear | 1/8 | 3 | 84 | 15 | 15 | 80 | 12 | 49 | 0.94 | 1.04 | 5.8 | 0.82 | 0.95 |
| | 5/32 | 4 | 83 | 15 | 15 | 79 | 12 | 47 | 0.94 | 1.04 | 5.8 | 0.81 | 0.93 |
| | 3/16 | 5 | 83 | 15 | 14 | 77 | 12 | 46 | 0.93 | 1.03 | 5.7 | 0.80 | 0.92 |
| | 1/4 | 6 | 82 | 15 | 15 | 75 | 12 | 44 | 0.93 | 1.02 | 5.7 | 0.79 | 0.90 |
| Blue | 1/4 | 6 | 49 | 14 | 9 | 32 | 11 | 14 | 0.93 | 1.02 | 5.7 | 0.50 | 0.57 |

*U.S. U-Factor (Btu/hr.sq ft. °F) is based on NFRC/ASTM standards, **European U-Factor (W/sq m K) is based on EN 410/673 (CEN) standard.
 All performance values are center-of-glass values calculated using the LBNL Window 6.3 program. See page 51 for explanation of references - ^{1,10}.

Laminated Monolithic Glass Performance Data^{1, 10}

| | Nominal Glass Thickness | | Visible Light ² | | | Solar Energy ² | | | U-Factor ⁵ | | | Solar Heat Gain Coefficient ⁷ | Shading Coefficient ⁸ |
|---|-------------------------|------|------------------------------|----------------------------|--------|------------------------------|----------------------------|---------------------------------|-----------------------|--------------|------------|--|----------------------------------|
| | in. | mm | Transmittance ³ % | Reflectance ⁴ % | | Transmittance ³ % | Reflectance ⁴ % | UV Transmittance ² % | U.S. Summer* | U.S. Winter* | European** | | |
| | | | | Outside | Inside | | | | | | | | |
| Pilkington OptiView [™] | 1/4 | 6.8 | 92 | 1.7 | 1.7 | 70 | 4 | <1 | 0.68 | 0.80 | 4.6 | 0.77 | 0.88 |
| Clear Glass (non-laminated) | 1/4 | 6 | 88 | 8 | 8 | 77 | 7 | 63 | 0.93 | 1.03 | 5.7 | 0.82 | 0.94 |
| Pilkington OptiView [™] | 5/16 | 8.8 | 90 | 1.7 | 1.7 | 67 | 4 | <1 | 0.67 | 0.79 | 4.5 | 0.75 | 0.86 |
| Clear Glass (non-laminated) | 5/16 | 8 | 87 | 8 | 8 | 73 | 7 | 57 | 0.92 | 1.01 | 5.6 | 0.79 | 0.91 |
| Pilkington OptiView [™] | 1/2 | 12.8 | 88 | 1.7 | 1.7 | 62 | 3 | <1 | 0.66 | 0.77 | 4.4 | 0.71 | 0.82 |
| Clear Glass (non-laminated) | 1/2 | 12 | 84 | 8 | 8 | 64 | 6 | 49 | 0.89 | 0.98 | 5.5 | 0.73 | 0.84 |

Clear float glass performance based on non-laminated, monolithic glass. (Note - all thicknesses are nominal)

Thickness of laminated glass = thickness of glass layer + thickness of pvb + thickness of glass layer

- 6.8 mm Pilkington **OptiView**[™] Single Laminated Glass = 3 mm Pilkington **OptiView**[™] (#1) + 0.8 mm clear pvb layer + 3 mm Pilkington **OptiView**[™] (#4)
- 8.8 mm Pilkington **OptiView**[™] Single Laminated Glass = 4 mm Pilkington **OptiView**[™] (#1) + 0.8 mm clear pvb layer + 4 mm Pilkington **OptiView**[™] (#4)
- 12.8 mm Pilkington **OptiView**[™] Single Laminated Glass = 6 mm Pilkington **OptiView**[™] (#1) + 0.8 mm clear pvb layer + 6 mm Pilkington **OptiView**[™] (#4)

Double Laminated Insulating Glass Unit Performance Data^{1, 10}

| Nominal Glass Thickness | | Visible Light ² | | | Solar Energy ² | | | U-Factor ⁵ | | | | | | Solar Heat Gain Coefficient ⁷ | Shading Coefficient ⁸ |
|---|------|------------------------------|----------------------------|--------|------------------------------|----------------------------|---------------------------------|-----------------------|-------|--------------|-------|------------|-------|--|----------------------------------|
| in. | mm | Transmittance ³ % | Reflectance ⁴ % | | Transmittance ³ % | Reflectance ⁴ % | UV Transmittance ² % | U.S. Summer* | | U.S. Winter* | | European** | | | |
| | | | Outside | Inside | | | | Air | Argon | Air | Argon | Air | Argon | | |
| Pilkington OptiView [™] Outer Lite (Coating on #1 and #2 Surface) and Pilkington OptiView [™] Inner Lite (Coating on #3 and #4 Surface) | | | | | | | | | | | | | | | |
| 1/4 | 6.8 | 84 | 3 | 3 | 54 | 5 | <1 | 0.33 | 0.30 | 0.33 | 0.30 | 1.9 | 1.7 | 0.66 | 0.76 |
| 5/16 | 8.8 | 81 | 3 | 3 | 50 | 5 | <1 | 0.32 | 0.30 | 0.32 | 0.29 | 1.9 | 1.7 | 0.64 | 0.73 |
| 1/2 | 12.8 | 77 | 3 | 3 | 43 | 4 | <1 | 0.32 | 0.29 | 0.32 | 0.29 | 1.9 | 1.7 | 0.59 | 0.68 |

An insulating unit consists of two lites of equal glass thickness.

Thickness of Double Laminated Insulating Glass = thickness of Single Laminated Glass layer + air space thickness + thickness of Single Laminated Glass layer

- 26.3 mm Pilkington **OptiView**[™] Double Laminated Insulating Glass = 6.8 mm Pilkington **OptiView**[™] Single Laminated Glass + 12.7 mm airspace + 6.8 mm Pilkington **OptiView**[™] Laminated Single Glass
- 30.3 mm Pilkington **OptiView**[™] Double Laminated Insulating Glass = 8.8 mm Pilkington **OptiView**[™] Single Laminated Glass + 12.7 mm airspace + 8.8 mm Pilkington **OptiView**[™] Laminated Single Glass
- 38.3 mm Pilkington **OptiView**[™] Double Laminated Insulating Glass = 12.8 mm Pilkington **OptiView**[™] Single Laminated Glass + 12.7 mm airspace + 12.8 mm Pilkington **OptiView**[™] Laminated Single Glass

Vacuum Glazing Performance Data

| | Thickness | | U-Factor ⁵ · European | | Solar Heat Gain Coefficient ⁷ |
|--|-----------|------|----------------------------------|------------------|--|
| | in. | mm | W/Sq. m.K | Btu/hr.sq ft. °F | |
| IGU with Low-e | 0.81 | 20.5 | 1.9 | 0.33 | 0.69 |
| Pilkington Spacia [™] * | 0.24 | 6.2 | 1.4 | 0.25 | 0.66 |
| Pilkington Spacia [™] Cool* | 0.24 | 6.2 | 1.0 | 0.18 | 0.49 |
| Pilkington Spacia [™] 21 Clear** | 0.72 | 18.2 | 0.9 | 0.16 | 0.51 |

*Double glazed unit

**Triple glazed unit

Sound Control Performance Data

| | Nominal Glass Thickness | | dB Sound Reduction Index By Octave Band - Hz | | | | | | |
|-----------------------------|-------------------------|------|--|-----|-----|------|------|------|-----|
| | in. | mm | 125 | 250 | 500 | 1000 | 2000 | 4000 | STC |
| Pilkington Optiphon™ | | | | | | | | | |
| | 5/16 | 8.8 | 30 | 30 | 32 | 36 | 38 | 43 | 36 |
| | 3/8 | 10.8 | 31 | 32 | 33 | 37 | 38 | 47 | 37 |
| Monolithic Clear Glass | | | | | | | | | |
| | 3/8 | 10 | 26 | 28 | 31 | 32 | 35 | 43 | 34 |
| | 5/16 | 8 | 20 | 24 | 29 | 34 | 29 | 37 | 32 |
| | 1/4 | 6 | 18 | 23 | 30 | 35 | 27 | 32 | 31 |
| Clear Insulating Unit* | | | | | | | | | |
| | 1/4 | 6 | 20 | 18 | 28 | 38 | 34 | 38 | 31 |

- Laboratory measured to the ISO 140-3 standard. Monolithic, unlaminate clear glass tested.
- Laboratory measured to the ASTM E90-09 standard. Other configurations are available through special order.
- * Insulating glass unit constructed of two lites of equal glass thickness and 1/2" (12.7 mm) airspace.

Insulating Glass Unit Performance Data^{1,10}

| | Nominal Glass Thickness | | Visible Light ² | | | Solar Energy ² | | | U-Factor ⁵ | | | Solar Heat Gain Coefficient ⁷ | Shading Coefficient ⁸ |
|--|-------------------------|-----|---------------------------------|-------------------------------|--------|---------------------------------|-------------------------------|------------------------------------|-----------------------|--------------|-------------------------|--|----------------------------------|
| | | | Transmittance ³ % | Reflectance ⁴ % | | Transmittance ³ % | Reflectance ⁴ % | UV Transmittance ² % | U.S. Summer* | U.S. Winter* | European ^{6**} | | |
| | in. | mm | | Outside | Inside | | | | | | | | |
| Pilkington Uncoated Float Glass outer lite and Pilkington Optifloat™ Clear inner lite | | | | | | | | | | | | | |
| Clear | 3/32 | 2 | 83 | 15 | 15 | 79 | 14 | 70 | 0.51 | 0.48 | 2.8 | 0.82 | 0.94 |
| | 1/8 | 3 | 83 | 15 | 15 | 77 | 14 | 67 | 0.51 | 0.48 | 2.8 | 0.81 | 0.93 |
| | 5/32 | 4 | 82 | 15 | 15 | 75 | 14 | 64 | 0.50 | 0.48 | 2.8 | 0.79 | 0.91 |
| | 3/16 | 5 | 79 | 15 | 15 | 64 | 12 | 50 | 0.50 | 0.48 | 2.8 | 0.73 | 0.83 |
| | 1/4 | 6 | 78 | 15 | 15 | 61 | 12 | 47 | 0.50 | 0.47 | 2.8 | 0.71 | 0.81 |
| Green | 1/4 | 6 | 68 | 12 | 14 | 38 | 8 | 23 | 0.50 | 0.47 | 2.8 | 0.49 | 0.56 |
| Blue-Green | 1/4 | 6 | 67 | 12 | 14 | 39 | 8 | 26 | 0.50 | 0.47 | 2.8 | 0.50 | 0.58 |
| Bronze | 1/8 | 3.2 | 62 | 10 | 13 | 57 | 10 | 33 | 0.51 | 0.48 | 2.8 | 0.64 | 0.73 |
| | 3/16 | 5 | 53 | 9 | 13 | 45 | 8 | 23 | 0.50 | 0.48 | 2.8 | 0.55 | 0.64 |
| | 1/4 | 6 | 45 | 8 | 12 | 38 | 7 | 18 | 0.50 | 0.47 | 2.8 | 0.50 | 0.58 |
| Grey | 1/8 | 3.2 | 55 | 9 | 13 | 52 | 9 | 31 | 0.51 | 0.48 | 2.8 | 0.59 | 0.68 |
| | 3/16 | 5 | 45 | 8 | 13 | 39 | 7 | 21 | 0.50 | 0.48 | 2.8 | 0.50 | 0.58 |
| | 1/4 | 6 | 39 | 7 | 12 | 32 | 6 | 17 | 0.50 | 0.47 | 2.8 | 0.45 | 0.52 |
| Pilkington Graphite Blue™ | 1/4 | 6 | 54 | 9 | 13 | 43 | 8 | 29 | 0.50 | 0.47 | 2.8 | 0.55 | 0.63 |
| | 5/16 | 8 | 47 | 8 | 13 | 35 | 7 | 23 | 0.49 | 0.47 | 2.8 | 0.48 | 0.55 |
| Pilkington Evergreen™ High Performance Tint | 1/8 | 3 | 70 | 12 | 14 | 43 | 8 | 24 | 0.51 | 0.48 | 2.8 | 0.52 | 0.60 |
| | 3/16 | 5 | 65 | 11 | 14 | 35 | 7 | 18 | 0.50 | 0.48 | 2.8 | 0.46 | 0.53 |
| | 1/4 | 6 | 58 | 10 | 13 | 28 | 6 | 11 | 0.50 | 0.47 | 2.8 | 0.40 | 0.46 |
| Pilkington Arctic Blue™ High Performance Tint | 5/32 | 4 | 59 | 10 | 13 | 40 | 7 | 28 | 0.50 | 0.48 | 2.8 | 0.49 | 0.57 |
| | 1/4 | 6 | 47 | 8 | 13 | 27 | 6 | 17 | 0.50 | 0.47 | 2.8 | 0.40 | 0.46 |
| | 5/16 | 8 | 37 | 7 | 12 | 20 | 5 | 10 | 0.49 | 0.47 | 2.8 | 0.34 | 0.39 |
| Pilkington Supergrey™ High Performance Tint | 1/8 | 3 | 23 | 5 | 12 | 20 | 5 | 6 | 0.51 | 0.48 | 2.8 | 0.33 | 0.38 |
| | 3/16 | 5 | 11 | 4 | 12 | 9 | 4 | 2 | 0.50 | 0.48 | 2.8 | 0.24 | 0.28 |
| | 1/4 | 6 | 8 | 4 | 11 | 6 | 4 | 1 | 0.50 | 0.47 | 2.8 | 0.22 | 0.25 |

An insulating unit consists of two lites of equal glass thickness, and a 1/2 in. (12.7 mm) airspace.

*U.S. U-Factor (Btu/hr.sq ft. °F) is based on NFRC/ASTM standards, **European U-Factor (W/sq m K) is based on EN 410/673 (CEN) standard.

All performance values are center-of-glass values calculated using the LBNL Window 6.3 program. See Pilkington Architectural Product Guide for explanation of references - 1,10.

One-Way Mirror Performance Data

| Product | Nominal Glass Thickness | | Glass Substrate | Visible ² Transmittance (%) | Visible ⁴ Reflectance Coated Side (%) | Visible ⁴ Reflectance Glass Side (%) | Recommended Light Ratio | Proper Glazing |
|------------------------------|-------------------------|----|-----------------|--|--|---|-----------------------------|---|
| | in. | mm | | | | | | |
| Pilkington Mirropane™ | 1/4 | 6 | Grey | 11 | 68 | 16 | 8:1 Subject-side: Observer- | Mirror coating toward subject-side |
| Pilkington MirroView™ | 1/8 | 3 | Clear | 20 | 76 | 70 | - | Mirror coating toward viewer-side |
| | 1/4 | 6 | Clear | 20 | 74 | 66 | - | Mirror coating toward viewer-side |

- Typical values of Pilkington production are provided.
- Visible data is based on laboratory spectrophotometric measurements weighted by the factors in W5_NFRC_2003.STD in LBNL Window 5.2 software.

Pilkington **Energy Advantage™** Low-e Insulating Glass Unit Performance Data^{1,10}

| | Nominal Glass Thickness | | Visible Light ² | | | Solar Energy ² | | | U-Factor ⁵ | | | | | | Solar Heat Gain Coefficient ⁷ | Shading Coefficient ⁸ |
|---|-------------------------|-----|------------------------------|----------------------------|--------|------------------------------|----------------------------|---------------------------------|-----------------------|-------|--------------|-------|-------------------------|-------|--|----------------------------------|
| | | | Transmittance ³ % | Reflectance ⁴ % | | Transmittance ³ % | Reflectance ⁴ % | UV Transmittance ² % | U.S. Summer* | | U.S. Winter* | | European ^{6**} | | | |
| | in. | mm | | Outside | Inside | | | | Air | Argon | Air | Argon | Air | Argon | | |
| Pilkington Uncoated Float Glass outer lite and Pilkington Energy Advantage™ low-e (coating on #3 surface) inner lite | | | | | | | | | | | | | | | | |
| Clear | 3/32 | 2.5 | 77 | 18 | 17 | 67 | 17 | 58 | 0.33 | 0.28 | 0.34 | 0.29 | 1.9 | 1.6 | 0.76 | 0.88 |
| | 1/8 | 3 | 77 | 17 | 17 | 66 | 17 | 55 | 0.33 | 0.28 | 0.34 | 0.29 | 1.9 | 1.6 | 0.75 | 0.87 |
| | 5/32 | 4 | 77 | 17 | 16 | 64 | 17 | 53 | 0.33 | 0.28 | 0.34 | 0.29 | 1.9 | 1.5 | 0.74 | 0.85 |
| | 3/16 | 5 | 74 | 17 | 17 | 55 | 15 | 41 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.68 | 0.79 |
| | 1/4 | 6 | 73 | 17 | 16 | 52 | 14 | 37 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.67 | 0.77 |
| Green | 1/4 | 6 | 63 | 13 | 15 | 33 | 9 | 18 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.44 | 0.50 |
| Blue-Green | 1/4 | 6 | 62 | 13 | 15 | 34 | 9 | 21 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.46 | 0.52 |
| Bronze | 1/8 | 3 | 58 | 12 | 15 | 48 | 12 | 27 | 0.33 | 0.28 | 0.34 | 0.29 | 1.9 | 1.6 | 0.58 | 0.67 |
| | 3/16 | 5 | 49 | 10 | 15 | 38 | 10 | 19 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.50 | 0.58 |
| | 1/4 | 6 | 42 | 8 | 14 | 32 | 8 | 14 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.45 | 0.52 |
| Grey | 1/8 | 3 | 52 | 10 | 15 | 43 | 10 | 26 | 0.33 | 0.28 | 0.34 | 0.29 | 1.9 | 1.6 | 0.53 | 0.61 |
| | 3/16 | 5 | 42 | 8 | 15 | 32 | 8 | 17 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.45 | 0.51 |
| | 1/4 | 6 | 36 | 7 | 14 | 27 | 7 | 13 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.40 | 0.46 |
| Pilkington Graphite Blue™ | 1/4 | 6 | 50 | 10 | 14 | 37 | 10 | 23 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.50 | 0.57 |
| | 5/16 | 8 | 44 | 9 | 14 | 30 | 8 | 18 | 0.33 | 0.28 | 0.33 | 0.28 | 1.8 | 1.5 | 0.44 | 0.50 |
| Pilkington EverGreen™ High Performance Tint | 1/8 | 3 | 65 | 14 | 16 | 37 | 9 | 20 | 0.33 | 0.28 | 0.34 | 0.29 | 1.9 | 1.6 | 0.46 | 0.53 |
| | 3/16 | 5 | 61 | 13 | 16 | 31 | 8 | 14 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.41 | 0.47 |
| | 1/4 | 6 | 54 | 11 | 14 | 24 | 7 | 9 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.35 | 0.40 |
| Pilkington Arctic Blue™ High Performance Tint | 5/32 | 4 | 55 | 11 | 15 | 34 | 8 | 23 | 0.33 | 0.28 | 0.34 | 0.29 | 1.9 | 1.5 | 0.44 | 0.50 |
| | 1/4 | 6 | 43 | 9 | 14 | 23 | 7 | 13 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.34 | 0.39 |
| | 5/16 | 8 | 35 | 7 | 14 | 17 | 6 | 8 | 0.33 | 0.28 | 0.33 | 0.28 | 1.8 | 1.5 | 0.29 | 0.33 |
| Pilkington Supergrey™ High Performance Tint | 1/8 | 3 | 21 | 5 | 14 | 16 | 5 | 5 | 0.33 | 0.28 | 0.34 | 0.29 | 1.9 | 1.6 | 0.27 | 0.31 |
| | 3/16 | 5 | 10 | 4 | 14 | 7 | 4 | 2 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.18 | 0.21 |
| | 1/4 | 6 | 7 | 4 | 13 | 5 | 4 | 1 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.16 | 0.18 |

An insulating unit consists of two lites of equal glass thickness, and a 1/2 in. (12.7 mm) airspace.

*U.S. U-Factor (Btu/hr.sq ft. °F) is based on NFRC/ASTM standards, **European U-Factor (W/sq m K) is based on EN 410/673 (CEN) standard.

All performance values are center-of-glass values calculated using the LBNL Window 6.3 program. See Pilkington Architectural Product Guide for explanation of references - 1, 10.

Pilkington **Energy Advantage™** Low-e **Insulating Glass Unit Performance Data**^{1,10}

| | Nominal Glass Thickness | | Visible Light ² | | | Solar Energy ² | | | U-Factor ⁵ | | | | | | Solar Heat Gain Coefficient ⁷ | Shading Coefficient ⁸ |
|--|-------------------------|-----|---------------------------------|-------------------------------|--------|---------------------------------|-------------------------------|------------------------------------|-----------------------|-------|--------------|-------|-------------------------|-------|--|----------------------------------|
| | | | Transmittance ³ % | Reflectance ⁴ % | | Transmittance ³ % | Reflectance ⁴ % | UV Transmittance ² % | U.S. Summer* | | U.S. Winter* | | European ^{6**} | | | |
| | in. | mm | | Outside | Inside | | | | Air | Argon | Air | Argon | Air | Argon | | |
| Pilkington Energy Advantage™ Low-e (coating on #2 surface) outer lite and Pilkington Optifloat™ Clear inner lite | | | | | | | | | | | | | | | | |
| | 3/32 | 2.5 | 77 | 17 | 18 | 67 | 16 | 58 | 0.33 | 0.28 | 0.34 | 0.29 | 1.9 | 1.6 | 0.70 | 0.81 |
| | 1/8 | 3 | 77 | 17 | 17 | 66 | 16 | 55 | 0.33 | 0.28 | 0.34 | 0.29 | 1.9 | 1.6 | 0.69 | 0.80 |
| | 5/32 | 4 | 77 | 16 | 17 | 64 | 15 | 53 | 0.33 | 0.28 | 0.34 | 0.29 | 1.9 | 1.5 | 0.69 | 0.79 |
| | 3/16 | 5 | 74 | 17 | 17 | 55 | 14 | 41 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.63 | 0.73 |
| | 1/4 | 6 | 73 | 16 | 17 | 52 | 13 | 37 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.62 | 0.71 |
| | 5/16 | 8 | 71 | 15 | 16 | 47 | 12 | 32 | 0.33 | 0.28 | 0.33 | 0.28 | 1.8 | 1.5 | 0.59 | 0.67 |
| | 3/8 | 10 | 69 | 15 | 16 | 43 | 12 | 29 | 0.32 | 0.27 | 0.33 | 0.28 | 1.8 | 1.5 | 0.56 | 0.64 |
| | 1/2 | 12 | 67 | 15 | 16 | 39 | 11 | 27 | 0.32 | 0.28 | 0.32 | 0.28 | 1.8 | 1.5 | 0.53 | 0.61 |
| Pilkington Energy Advantage™ Low-e (coating on #2 surface) outer lite and Pilkington Energy Advantage™ Low-e (coating on #4 surface) inner lite ⁹ | | | | | | | | | | | | | | | | |
| | 3/32 | 2.5 | 72 | 18 | 19 | 60 | 17 | 47 | 0.25 | 0.22 | 0.26 | 0.23 | 1.6 | 1.4 | 0.66 | 0.76 |
| | 1/8 | 3 | 72 | 18 | 19 | 58 | 17 | 46 | 0.25 | 0.22 | 0.26 | 0.23 | 1.6 | 1.3 | 0.65 | 0.75 |
| | 5/32 | 4 | 71 | 18 | 19 | 57 | 17 | 44 | 0.25 | 0.22 | 0.26 | 0.23 | 1.6 | 1.3 | 0.64 | 0.74 |
| | 3/16 | 5 | 69 | 18 | 19 | 49 | 15 | 33 | 0.24 | 0.21 | 0.26 | 0.23 | 1.6 | 1.3 | 0.59 | 0.68 |
| | 1/4 | 6 | 68 | 17 | 18 | 47 | 14 | 29 | 0.24 | 0.21 | 0.26 | 0.23 | 1.5 | 1.3 | 0.58 | 0.66 |
| | 5/16 | 8 | 66 | 17 | 18 | 42 | 13 | 26 | 0.24 | 0.21 | 0.26 | 0.23 | 1.5 | 1.3 | 0.54 | 0.62 |
| | 3/8 | 10 | 64 | 16 | 17 | 38 | 12 | 23 | 0.24 | 0.21 | 0.26 | 0.22 | 1.5 | 1.3 | 0.51 | 0.59 |
| | 1/2 | 12 | 63 | 16 | 18 | 36 | 11 | 24 | 0.24 | 0.21 | 0.26 | 0.23 | 1.5 | 1.3 | 0.49 | 0.57 |

An insulating unit consists of two lites of equal glass thickness, and a 1/2 in. (12.7 mm) airspace.

*U.S. U-Factor (Btu/hr.sq ft. °F) is based on NFRC/ASTM standards, **European U-Factor (W/sq m K) is based on EN 410/673 (CEN) standard.

All performance values are center-of-glass values calculated using the LBNL Window 6.3 program. See Pilkington Architectural Product Guide for explanation of references - ^{1, 10}.

Coated Insulating Glass Unit Performance Data^{1,10}

| | Nominal Glass Thickness | | Visible Light ² | | | Solar Energy ² | | | U-Factor ⁵ | | | | | | Solar Heat Gain Coefficient ⁷ | Shading Coefficient ⁸ |
|--|-------------------------|----|------------------------------|----------------------------|--------|------------------------------|----------------------------|---------------------------------|-----------------------|-------|--------------|-------|-------------------------|-------|--|----------------------------------|
| | in. | mm | Transmittance ³ % | Reflectance ⁴ % | | Transmittance ³ % | Reflectance ⁴ % | UV Transmittance ² % | U.S. Summer* | | U.S. Winter* | | European ^{6**} | | | |
| | | | | Outside | Inside | | | | Air | Argon | Air | Argon | Air | Argon | | |
| Pilkington Solar-E™ outer lite (coating on #2 surface) and Pilkington Optifloat™ Clear inner lite | | | | | | | | | | | | | | | | |
| Clear | 1/8 | 3 | 55 | 11 | 16 | 41 | 10 | 41 | 0.33 | 0.28 | 0.34 | 0.29 | 1.9 | 1.6 | 0.47 | 0.54 |
| | 5/32 | 4 | 55 | 10 | 16 | 40 | 9 | 39 | 0.33 | 0.28 | 0.34 | 0.29 | 1.9 | 1.6 | 0.46 | 0.53 |
| | 3/16 | 5 | 53 | 10 | 15 | 36 | 9 | 34 | 0.33 | 0.28 | 0.33 | 0.29 | 1.9 | 1.6 | 0.45 | 0.52 |
| | 1/4 | 6 | 53 | 10 | 15 | 34 | 9 | 31 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.43 | 0.50 |
| | 5/16 | 8 | 52 | 10 | 15 | 32 | 8 | 29 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.43 | 0.49 |
| Pilkington Solar-E™ Plus outer lite (coating on #2 surface) and Pilkington Optifloat™ Clear inner lite | | | | | | | | | | | | | | | | |
| Blue-Green | 1/4 | 6 | 37 | 8 | 15 | 20 | 6 | 15 | 0.33 | 0.28 | 0.33 | 0.29 | 1.9 | 1.6 | 0.30 | 0.34 |
| | 5/16 | 8 | 34 | 7 | 15 | 17 | 6 | 12 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.27 | 0.31 |
| EverGreen | 1/4 | 6 | 34 | 8 | 15 | 15 | 6 | 7 | 0.33 | 0.28 | 0.33 | 0.29 | 1.9 | 1.6 | 0.24 | 0.28 |
| | 5/16 | 8 | 30 | 7 | 15 | 12 | 5 | 4 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.22 | 0.25 |
| Graphite Blue | 1/4 | 6 | 25 | 6 | 14 | 19 | 5 | 16 | 0.33 | 0.28 | 0.33 | 0.29 | 1.9 | 1.6 | 0.30 | 0.34 |
| | 5/16 | 8 | 26 | 7 | 15 | 18 | 6 | 14 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.28 | 0.33 |
| Arctic Blue | 1/4 | 6 | 27 | 6 | 14 | 14 | 5 | 9 | 0.33 | 0.28 | 0.33 | 0.29 | 1.9 | 1.6 | 0.24 | 0.27 |
| | 5/16 | 8 | 24 | 6 | 14 | 12 | 5 | 7 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.22 | 0.25 |
| Grey | 1/4 | 6 | 21 | 6 | 15 | 16 | 6 | 10 | 0.33 | 0.28 | 0.33 | 0.29 | 1.9 | 1.6 | 0.26 | 0.30 |
| | 5/16 | 8 | 17 | 6 | 14 | 12 | 5 | 7 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.23 | 0.26 |
| Pilkington Solar-E™ (coating on #2 surface) outer lite and Pilkington Energy Advantage™ Low-e (coating on the #4 surface) inner lite ⁹ | | | | | | | | | | | | | | | | |
| Clear | 1/4 | 6 | 49 | 11 | 17 | 32 | 9 | 26 | 0.24 | 0.22 | 0.26 | 0.23 | 1.6 | 1.3 | 0.41 | 0.47 |
| | 5/16 | 8 | 48 | 11 | 17 | 29 | 9 | 23 | 0.24 | 0.21 | 0.26 | 0.23 | 1.5 | 1.3 | 0.40 | 0.45 |
| Pilkington Solar-E™ Plus (coating on #2 surface) outer lite and Pilkington Energy Advantage™ Low-e (coating on the #4 surface) inner lite ⁹ | | | | | | | | | | | | | | | | |
| Blue-Green | 1/4 | 6 | 34 | 8 | 17 | 18 | 6 | 12 | 0.25 | 0.22 | 0.26 | 0.23 | 1.6 | 1.3 | 0.27 | 0.31 |
| | 5/16 | 8 | 32 | 7 | 16 | 15 | 6 | 9 | 0.24 | 0.22 | 0.26 | 0.23 | 1.6 | 1.3 | 0.24 | 0.28 |
| EverGreen | 1/4 | 6 | 31 | 8 | 17 | 13 | 6 | 5 | 0.25 | 0.22 | 0.26 | 0.23 | 1.6 | 1.3 | 0.22 | 0.25 |
| | 5/16 | 8 | 28 | 7 | 17 | 11 | 5 | 3 | 0.24 | 0.22 | 0.26 | 0.23 | 1.6 | 1.3 | 0.19 | 0.22 |
| Graphite Blue | 1/4 | 6 | 23 | 6 | 16 | 17 | 6 | 13 | 0.25 | 0.22 | 0.26 | 0.23 | 1.6 | 1.3 | 0.27 | 0.31 |
| | 5/16 | 8 | 25 | 7 | 16 | 16 | 6 | 11 | 0.24 | 0.22 | 0.26 | 0.23 | 1.6 | 1.3 | 0.26 | 0.29 |
| Arctic Blue | 1/4 | 6 | 25 | 6 | 16 | 13 | 5 | 7 | 0.25 | 0.22 | 0.26 | 0.23 | 1.6 | 1.3 | 0.21 | 0.25 |
| | 5/16 | 8 | 22 | 6 | 16 | 11 | 5 | 5 | 0.24 | 0.22 | 0.26 | 0.23 | 1.6 | 1.3 | 0.19 | 0.22 |
| Grey | 1/4 | 6 | 20 | 6 | 17 | 14 | 6 | 8 | 0.25 | 0.22 | 0.26 | 0.23 | 1.6 | 1.3 | 0.23 | 0.26 |
| | 5/16 | 8 | 16 | 6 | 16 | 11 | 5 | 5 | 0.24 | 0.22 | 0.26 | 0.23 | 1.6 | 1.3 | 0.20 | 0.23 |

An insulating unit consists of two lites of equal glass thickness, and a 1/2 in. (12.7 mm) airspace.

*U.S. U-Factor (Btu/hr.sq ft. °F) is based on NFRC/ASTM standards, **European U-Factor (W/sq m K) is based on EN 410/673 (CEN) standard.

All performance values are center-of-glass values calculated using the LBNL Window 6.3 program. See Pilkington Architectural Product Guide for explanation of references - 1, 10.

Coated Insulating Glass Unit Performance Data^{1,10}

| | Nominal Glass Thickness | | Visible Light ² | | | Solar Energy ² | | | U-Factor ⁵ | | | | | | Solar Heat Gain Coefficient ⁷ | Shading Coefficient ⁸ |
|---|-------------------------|----|---------------------------------|-------------------------------|--------|---------------------------------|-------------------------------|------------------------------------|-----------------------|-------|--------------|-------|-------------------------|-------|--|----------------------------------|
| | | | Transmittance ³ % | Reflectance ⁴ % | | Transmittance ³ % | Reflectance ⁴ % | UV Transmittance ² % | U.S. Summer* | | U.S. Winter* | | European ^{6**} | | | |
| | in. | mm | | Outside | Inside | | | | Air | Argon | Air | Argon | Air | Argon | | |
| Pilkington Eclipse Advantage [™] (coating on #2 surface) outer lite and Pilkington Optifloat [™] Clear inner lite | | | | | | | | | | | | | | | | |
| Clear | 1/4 | 6 | 60 | 29 | 31 | 46 | 21 | 24 | 0.35 | 0.30 | 0.35 | 0.30 | 1.9 | 1.6 | 0.55 | 0.63 |
| | 5/16 | 8 | 58 | 29 | 30 | 42 | 20 | 21 | 0.34 | 0.30 | 0.34 | 0.30 | 1.9 | 1.6 | 0.53 | 0.60 |
| Blue-Green | 1/4 | 6 | 51 | 21 | 29 | 29 | 12 | 13 | 0.35 | 0.30 | 0.35 | 0.30 | 1.9 | 1.6 | 0.38 | 0.44 |
| | 5/16 | 8 | 47 | 19 | 29 | 24 | 10 | 10 | 0.34 | 0.30 | 0.34 | 0.30 | 1.9 | 1.6 | 0.34 | 0.39 |
| EverGreen | 1/4 | 6 | 43 | 17 | 30 | 20 | 9 | 6 | 0.35 | 0.30 | 0.35 | 0.30 | 1.9 | 1.6 | 0.29 | 0.33 |
| | 5/16 | 8 | 38 | 15 | 29 | 15 | 8 | 4 | 0.34 | 0.30 | 0.34 | 0.30 | 1.9 | 1.6 | 0.25 | 0.29 |
| Arctic Blue | 1/4 | 6 | 35 | 13 | 30 | 19 | 9 | 9 | 0.35 | 0.30 | 0.35 | 0.30 | 1.9 | 1.6 | 0.29 | 0.33 |
| | 5/16 | 8 | 29 | 11 | 29 | 14 | 7 | 6 | 0.34 | 0.30 | 0.34 | 0.30 | 1.9 | 1.6 | 0.25 | 0.28 |
| Bronze | 1/4 | 6 | 34 | 13 | 29 | 28 | 11 | 9 | 0.35 | 0.30 | 0.35 | 0.30 | 1.9 | 1.6 | 0.38 | 0.44 |
| | 5/16 | 8 | 28 | 10 | 28 | 21 | 9 | 6 | 0.34 | 0.30 | 0.34 | 0.30 | 1.9 | 1.6 | 0.33 | 0.38 |
| Grey | 1/4 | 6 | 29 | 10 | 29 | 23 | 9 | 8 | 0.35 | 0.30 | 0.35 | 0.30 | 1.9 | 1.6 | 0.34 | 0.39 |
| | 5/16 | 8 | 22 | 8 | 29 | 17 | 7 | 6 | 0.34 | 0.30 | 0.34 | 0.30 | 1.9 | 1.6 | 0.28 | 0.32 |
| Pilkington Eclipse Advantage [™] (coating on #2 surface) outer lite and Pilkington Energy Advantage [™] Low-e (coating on #4 surface) inner lite ⁹ | | | | | | | | | | | | | | | | |
| Clear | 1/4 | 6 | 56 | 30 | 30 | 41 | 22 | 19 | 0.25 | 0.23 | 0.27 | 0.24 | 1.6 | 1.4 | 0.51 | 0.58 |
| | 5/16 | 8 | 55 | 29 | 30 | 37 | 20 | 17 | 0.25 | 0.23 | 0.27 | 0.24 | 1.6 | 1.4 | 0.48 | 0.55 |
| Blue-Green | 1/4 | 6 | 48 | 22 | 29 | 26 | 12 | 10 | 0.25 | 0.23 | 0.27 | 0.24 | 1.6 | 1.4 | 0.35 | 0.40 |
| | 5/16 | 8 | 44 | 20 | 29 | 21 | 11 | 8 | 0.25 | 0.23 | 0.27 | 0.24 | 1.6 | 1.4 | 0.30 | 0.35 |
| EverGreen | 1/4 | 6 | 40 | 18 | 30 | 18 | 9 | 5 | 0.25 | 0.23 | 0.27 | 0.24 | 1.6 | 1.4 | 0.26 | 0.30 |
| | 5/16 | 8 | 36 | 15 | 29 | 14 | 8 | 3 | 0.25 | 0.23 | 0.27 | 0.24 | 1.6 | 1.4 | 0.23 | 0.26 |
| Arctic Blue | 1/4 | 6 | 33 | 14 | 29 | 17 | 9 | 7 | 0.25 | 0.23 | 0.27 | 0.24 | 1.6 | 1.4 | 0.26 | 0.30 |
| | 5/16 | 8 | 27 | 11 | 29 | 13 | 7 | 5 | 0.25 | 0.23 | 0.27 | 0.24 | 1.6 | 1.4 | 0.22 | 0.25 |
| Bronze | 1/4 | 6 | 32 | 13 | 29 | 24 | 11 | 7 | 0.25 | 0.23 | 0.27 | 0.24 | 1.6 | 1.4 | 0.34 | 0.39 |
| | 5/16 | 8 | 26 | 10 | 28 | 19 | 9 | 5 | 0.25 | 0.23 | 0.27 | 0.24 | 1.6 | 1.4 | 0.29 | 0.33 |
| Grey | 1/4 | 6 | 27 | 11 | 29 | 20 | 9 | 7 | 0.25 | 0.23 | 0.27 | 0.24 | 1.6 | 1.4 | 0.30 | 0.35 |
| | 5/16 | 8 | 21 | 8 | 29 | 15 | 7 | 5 | 0.25 | 0.23 | 0.27 | 0.24 | 1.6 | 1.4 | 0.25 | 0.29 |

An insulating unit consists of two lites of equal glass thickness, and a 1/2 in. (12.7 mm) airspace.

*U.S. U-Factor (Btu/hr.sq ft. °F) is based on NFRC/ASTM standards, **European U-Factor (W/sq m K) is based on EN 410/673 (CEN) standard.

All performance values are center-of-glass values calculated using the LBNL Window 6.3 program. See Pilkington Architectural Product Guide for explanation of references - ^{1,10}.

| | Nominal Glass Thickness | | Visible Light ² | | | Solar Energy ² | | | U-Factor ⁵ | | | | | | Solar Heat Gain Coefficient ⁷ | Shading Coefficient ⁸ |
|--|-------------------------|----|----------------------------|----------------------------|--------|------------------------------|----------------------------|---------------------------------|-----------------------|-------|--------------|-------|----------|-------|--|----------------------------------|
| | | | Transmittance ³ | Reflectance ⁴ % | | Transmittance ³ % | Reflectance ⁴ % | UV Transmittance ² % | U.S. Summer* | | U.S. Winter* | | Europe** | | | |
| | in. | mm | | Outside | Inside | | | | Air | Argon | Air | Argon | Air | Argon | | |
| Pilkington Eclipse™ (coating on #2 surface) outer lite and Pilkington Optifloat™ Clear inner lite | | | | | | | | | | | | | | | | |
| Gold | 1/4 | 6 | 36 | 38 | 45 | 35 | 27 | 7 | 0.50 | 0.47 | 0.47 | 0.45 | 2.8 | 2.6 | 0.45 | 0.52 |
| | 5/16 | 8 | 36 | 35 | 42 | 31 | 24 | 5 | 0.49 | 0.47 | 0.47 | 0.44 | 2.8 | 2.6 | 0.43 | 0.49 |
| Sunset Gold | 1/4 | 6 | 22 | 16 | 44 | 24 | 13 | 3 | 0.50 | 0.47 | 0.47 | 0.45 | 2.8 | 2.6 | 0.36 | 0.42 |
| Pilkington Eclipse™ (coating on #2 surface) outer lite and Pilkington Energy Advantage™ Low-e (coating on #3 surface) inner lite | | | | | | | | | | | | | | | | |
| Gold | 1/4 | 6 | 34 | 38 | 42 | 30 | 28 | 5 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.41 | 0.48 |
| | 5/16 | 8 | 34 | 36 | 40 | 26 | 26 | 4 | 0.33 | 0.28 | 0.33 | 0.28 | 1.8 | 1.5 | 0.39 | 0.45 |
| Sunset Gold | 1/4 | 6 | 21 | 16 | 41 | 19 | 14 | 2 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.31 | 0.36 |
| Pilkington Activ™ (coating on #1 surface) outer lite and Pilkington Optifloat™ Clear inner lite | | | | | | | | | | | | | | | | |
| Clear | 1/8 | 3 | 77 | 21 | 20 | 71 | 17 | 43 | 0.51 | 0.48 | 0.48 | 0.45 | 2.8 | 2.7 | 0.74 | 0.86 |
| | 5/32 | 4 | 76 | 21 | 20 | 69 | 17 | 41 | 0.50 | 0.48 | 0.48 | 0.45 | 2.8 | 2.7 | 0.73 | 0.84 |
| | 3/16 | 5 | 75 | 20 | 20 | 62 | 16 | 36 | 0.50 | 0.48 | 0.48 | 0.45 | 2.8 | 2.6 | 0.70 | 0.81 |
| | 1/4 | 6 | 74 | 21 | 20 | 59 | 16 | 34 | 0.50 | 0.47 | 0.47 | 0.45 | 2.8 | 2.6 | 0.68 | 0.78 |
| Blue | 1/4 | 6 | 44 | 16 | 15 | 26 | 12 | 11 | 0.50 | 0.47 | 0.47 | 0.45 | 2.8 | 2.6 | 0.38 | 0.43 |
| Pilkington Activ™ (coating on #1 surface) outer lite and Pilkington Energy Advantage™ Low-e (coating on #3 surface) inner lite | | | | | | | | | | | | | | | | |
| Clear | 1/8 | 3 | 72 | 23 | 21 | 60 | 20 | 36 | 0.33 | 0.28 | 0.34 | 0.29 | 1.9 | 1.6 | 0.69 | 0.80 |
| | 5/32 | 4 | 71 | 23 | 21 | 58 | 20 | 34 | 0.33 | 0.28 | 0.34 | 0.29 | 1.9 | 1.5 | 0.68 | 0.78 |
| | 3/16 | 5 | 70 | 23 | 21 | 53 | 19 | 30 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.66 | 0.76 |
| | 1/4 | 6 | 69 | 23 | 20 | 51 | 19 | 27 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.64 | 0.74 |
| Blue | 1/4 | 6 | 40 | 17 | 16 | 22 | 12 | 9 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.33 | 0.38 |
| Pilkington Activ™ (coating on #1 surface) outer lite and Pilkington Solar-E™ (coating on #3 surface) inner lite | | | | | | | | | | | | | | | | |
| Clear | 1/8 | 3 | 51 | 21 | 13 | 37 | 20 | 27 | 0.33 | 0.28 | 0.34 | 0.29 | 1.9 | 1.6 | 0.64 | 0.74 |
| | 5/32 | 4 | 51 | 21 | 13 | 36 | 20 | 26 | 0.33 | 0.28 | 0.34 | 0.29 | 1.9 | 1.6 | 0.63 | 0.73 |
| | 3/16 | 5 | 50 | 21 | 13 | 35 | 19 | 25 | 0.33 | 0.28 | 0.33 | 0.29 | 1.9 | 1.6 | 0.62 | 0.71 |
| | 1/4 | 6 | 50 | 21 | 13 | 34 | 19 | 24 | 0.33 | 0.28 | 0.33 | 0.29 | 1.8 | 1.5 | 0.60 | 0.69 |

An insulating unit consists of two lites of equal glass thickness, and a 1/2 in. (12.7 mm) airspace.

*U.S. U-Factor (Btu/hr.sq ft. °F) is based on NFRC/ASTM standards, **European U-Factor (W/sq m K) is based on EN 410/673 (CEN) standard.

All performance values are center-of-glass values calculated using the LBNL Window 6.3 program. See Pilkington Architectural Product Guide for explanation of references - 1, 10.

NSG **TEC™** Performance Data

| Product | Thickness (mm) | Visible Light Transmittance (%) | Sheet Resistance (Ohms/sq.) | Haze (%) | Hemispherical Emittance |
|------------------------------------|------------------------------|---------------------------------|-----------------------------|----------|-------------------------|
| NSG TEC™ Product Properties | | | | | |
| NSG TEC™ 7 | 2.2, 3.0, 3.2 | 80-81.5 | 6-8 | 3 | 0.12 |
| NSG TEC™ 8 | 2.2, 3.2 | 82-83 | 6-9 | 12 | 0.12 |
| NSG TEC™ 10 | 2.2, 3.2 | 83-84.5 | 9-11 | ≤0.35 | 0.14 |
| NSG TEC™ 15 | 1.6, 1.8, 2.2, 3.0, 3.2, 4.0 | 83-84.5 | 12-14 | ≤0.35 | 0.15 |
| | 5.0, 6.0, 8.0, 10.0 | 82-83 | 12-14 | ≤0.45 | 0.15 |
| NSG TEC™ 20 | 4.0 | 80-85 | 19-25 | ≤0.80 | 0.22 |
| NSG TEC™ 35 | 3.2, 6.0 | 82-84 | 32-48 | ≤0.65 | 0.34 |
| NSG TEC™ 50 | 6.0 | 80-85 | 43-53 | ≤0.55 | 0.39 |
| NSG TEC™ 70 | 3.2, 4.0 | 82-84 | 58-72 | 0.5 | 0.45 |
| NSG TEC™ 100 | 3.2, 4.0 | 83-84 | 125-145 | 0.5 | 0.60 |
| NSG TEC™ 250 | 3.2, 4.0 | 84-85 | 260-325 | 0.7 | 0.67 |
| NSG TEC™ 1000 | 3.2 | 88 | 1000-3000 | 0.5 | 0.84 |

Notes: Nominal values shown. Specifications subject to change. Substrate = Clear soda lime glass.

| Glazing (Room/Cool Side) | Airspaces (Number) | U-Value (W/M² K) | Room-Side Glass Temp. (C) | Condensation RH** (%) | RH Improvement (%) | Heat Flow Through Glass (W/m²) | Heat Flow Reduction (%) | Power Density (W/m²) |
|---|--------------------|------------------|---------------------------|-----------------------|--------------------|--------------------------------|-------------------------|----------------------|
| NSG TEC™ Refrigerator Door Applications* | | | | | | | | |
| Clear/Clear | 1 | 2.4 | 20 | 64 | Base Case | 54 | Base Case | 0 |
| Triple Clear*** | 2 | 2.0 | 21 | 69 | 8 | 45 | 17 | 0 |
| NSG TEC™ 15/Clear | 1 | 1.7 | 22 | 73 | 14 | 38 | 30 | 0 |

* Room-side temperature = 27°C, refrigeration temperature = 4°C.

*** No power.

| Glazing (Room/Cool Side) | Airspaces (Number) | U-Value (W/M² K) | Room-Side Glass Temp. (C) | Condensation RH** (%) | RH Improvement (%) | Heat Flow Through Glass (W/m²) | Heat Flow Reduction (%) | Power Density (W/m²) |
|---|--------------------|------------------|---------------------------|-----------------------|--------------------|--------------------------------|-------------------------|----------------------|
| NSG TEC™ Freezer Door Applications* | | | | | | | | |
| Triple Clear*** | 2 | 1.9 | 15 | 48 | Base Case | 87 | Base Case | 0 |
| NSG TEC™ 70/Clear/Clear | 2 | 1.7 | 24 | 81 | 70 | 82 | 6 | 82 |
| NSG TEC™ 70/NSG TEC™ 15 | 1 | 1.6 | 25 | 87 | 82 | 75 | 14 | 82 |
| NSG TEC™ 70/NSG TEC™ 15/clear | 2 | 1.5 | 25 | 90 | 88 | 73 | 17 | 82 |

* Room-side temperature = 27°C, freezer temperature = -20°C.

** Condensation along the room-side glass surface away from the frame when the relative humidity (RH) within the room is greater than the value noted.

Notes: All glass 3.2mm; Airspace 12mm for doubles, 6mm for triples; Airspace filled with air; All simulations utilizing LBL Windows 5.2; Demist heater power of 100 Watts (82 W/m²); Input voltage = 120 volts; Units 800mm × 1,700mm, bus bars along 800mm dimensions.

Performance Data Notes

1. Some combinations or installations may require heating treating to prevent glass breakage from thermal stress.
2. Visible, Solar and UV data are based on laboratory spectrophotometric measurements weighted by an appropriate weighting function(s) using LBNL Windows 6.3 Software. Wave length ranges of the sun's energy used to calculate properties: Visible from 0.38 to 0.78 microns, Solar from 0.30 to 2.5 microns and UV from 3.0 to 0.38 microns.
3. Transmittance - Percentage of normally incident visible light or solar energy passing directly through the glazing.
4. Reflectance - Percentage of normally incident visible light or solar energy reflected away from the glazing.
5. U-Factor (Btu/hr.sq ft. °F) - Measure of the heat gain or loss through glazing due to environmental differences between the outdoor and indoor air. U-Factors given are center-of-glass values calculated using LBNL Windows 6.3. To NFRC standard 100-2001. Winter U-Factors are based on an outdoor temperature of 0°F (-18°C), an indoor temperature of 70°F (21°C) and a 12.3 mph (5.5m/s) wind velocity with no sun. Summer U-Factors are based on an outdoor temperature of 90°F (32°C), and indoor temperature of 75°F (24°C), a solar intensity of 248 Btu/hr.sq ft. °F. (783 W/sqm) and a 6.3mph (2.8m/s) wind. To obtain metric U-Factor (W/sq m. °C), multiply by 5.678. "U-Factor" is identical to the previously known term of "U-Value".
6. European U-Factor (W/sq m.K) is based on EN 410/673 (CEN) standard.
7. Solar Heat Gain Coefficient or SHGC - The ratio of the total solar heat gain through the glass relative to the incident solar radiation. The solar heat gain includes both the solar energy directly transmitted through the glass, plus the solar energy absorbed by the glass and subsequently convected and thermally radiated inward.
8. Shading Coefficient or SC - The ratio of solar heat gain through the glass relative to that through 1/8" (3mm) clear glass at nominal incidence. Note that Relative Heat Gain or RHG (Btu/hr.sq ft), which is the amount of heat gained through the glass at assumed summer conditions, can be calculated using the following equation: $RHG = SC \times 200 + Us \times 14$. To obtain metric RHG (W/sq m), multiply by 3.154.
9. A low-e coating on the exposed interior surface may increase the possibility of condensation formation during winter conditions.
10. Typical values of Pilkington production are provided.

Design and Uniform Static Loads
ASTM Standard Practice E 1300 contains design load evaluation procedures for different glass thickness and failure probabilities. For a copy of this standard visit www.ASTM.org or write to:

ASTM
100 Bar Harbor Drive
West Conshohocken, PA 19428

For design and comprehensive technical data, please visit the Pilkington Web site:

www.pilkington.com/na

Technical Bulletins

ATS 129
Properties

ATS 171
Optics and Window 5
Procedures

This publication provides only a general description of the product. Further, more detailed, information may be obtained from your local supplier of Pilkington products. It is the responsibility of the user to ensure that the use of this product is appropriate for any particular application and that such use complies with all relevant legislation, standards, codes of practice and other requirements. To the fullest extent permitted by applicable laws, Nippon Sheet Glass Co. Ltd. and its subsidiary companies disclaim all liability for any error in or omission from this publication and for all consequences of relying on it. Pilkington, "Activ," "Eclipse," "Eclipse Advantage," "Energy Advantage" "Mirropane," "MirroView," "OptAR," "Optifloat," "Optiphon," "OptiView," "Optiwhite," "Planar," "Pyrostop," "Optifloat," "Solar-E," "Spacia," and "TEC" are trademarks owned by Nippon Sheet Glass Co. Ltd, or a subsidiary thereof.



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