


Table 1 – Pilkington Insulight™ Sun – Double Glazing Units

6 mm Pilkington **Optifloat™** Clear inner pane and 16 mm argon-filled cavity, unless otherwise indicated.

Solar control with thermal insulation (low-e)

| Product Description | Light | | Solar Radiant Heat | | | | Shading Coefficient | | U value (W/m²K) | Performance inc. acoustic Light Transmittance / g-value (R _v) | | |
|--|----------------------|-------------|----------------------|-------------|-------------|-------------------------------|---------------------|-------|-----------------|---|-------------------|--------------------|
| | Transmittance (LT) % | Reflectance | Direct transmittance | Reflectance | Absorptance | g-value (Total transmittance) | Short wavelength | Total | | Pane thickness combinations | | |
| Outer Pane | | | | | | | | | Argon (90%) | 6 mm + 6 mm panes | 8 mm + 6 mm panes | 10 mm + 6 mm panes |
| Pilkington Suncool™ - superior solar control with thermal insulation (low-e) | | | | | | | | | | | | |
| 6 mm 70/40 | 70 | 0.10 | 0.38 | 0.28 | 0.34 | 0.42 | 0.44 | 0.48 | 1.1 | 70/42 (31 dB) | 69/41 (36 dB) | 68/40 (40 dB) |
| 6 mm 70/35 | 69 | 0.16 | 0.34 | 0.35 | 0.31 | 0.37 | 0.39 | 0.43 | 1.0 | 69/37 (31 dB) | 68/37 (36 dB) | 67/36 (40 dB) |
| 6 mm 66/33 | 65 | 0.16 | 0.32 | 0.35 | 0.33 | 0.36 | 0.37 | 0.41 | 1.0 | 65/36 (31 dB) | 64/35 (36 dB) | 64/34 (40 dB) |
| 6 mm 60/31 | 59 | 0.11 | 0.28 | 0.32 | 0.40 | 0.32 | 0.33 | 0.37 | 1.0 | 59/32 (31 dB) | 58/31 (38 dB) | 57/31 (40 dB) |
| 6 mm Silver 50/30 | 49 | 0.39 | 0.28 | 0.43 | 0.29 | 0.31 | 0.32 | 0.36 | 1.0 | 49/31 (31 dB) | 49/31 (36 dB) | 48/30 (40 dB) |
| 6 mm Blue 50/27 | 49 | 0.19 | 0.25 | 0.35 | 0.40 | 0.28 | 0.28 | 0.32 | 1.1 | 49/28 (31 dB) | 49/28 (36 dB) | 48/27 (40 dB) |
| 6 mm 50/25 | 49 | 0.18 | 0.24 | 0.33 | 0.43 | 0.27 | 0.27 | 0.31 | 1.0 | 49/27 (31 dB) | 49/27 (36 dB) | 48/26 (40 dB) |
| 6 mm 40/22 | 39 | 0.20 | 0.19 | 0.35 | 0.46 | 0.23 | 0.22 | 0.26 | 1.1 | 39/23 (31 dB) | 39/22 (36 dB) | 38/22 (40 dB) |
| 6 mm 30/17 | 30 | 0.25 | 0.15 | 0.37 | 0.48 | 0.18 | 0.18 | 0.21 | 1.1 | 30/18 (31 dB) | 29/18 (36 dB) | 29/18 (40 dB) |
| Pilkington Suncool™ OW* (low iron) - superior solar control with thermal insulation (low-e) | | | | | | | | | | | | |
| 6 mm 70/40 | 73 | 0.10 | 0.44 | 0.39 | 0.17 | 0.45 | 0.50 | 0.52 | 1.1 | 73/45 (31 dB) | 73/45 (36 dB) | 73/45 (40 dB) |
| 6 mm 70/35 | 73 | 0.16 | 0.38 | 0.47 | 0.15 | 0.39 | 0.43 | 0.45 | 1.0 | 73/39 (31 dB) | 73/39 (36 dB) | 72/39 (40 dB) |
| 6 mm 66/33 | 69 | 0.17 | 0.36 | 0.47 | 0.17 | 0.37 | 0.42 | 0.43 | 1.0 | 69/37 (31 dB) | 69/37 (36 dB) | 68/37 (40 dB) |
| 6 mm 60/31 | 61 | 0.11 | 0.30 | 0.32 | 0.38 | 0.32 | 0.35 | 0.37 | 1.0 | 61/32 (31 dB) | 60/31 (36 dB) | 59/31 (40 dB) |
| 6 mm Blue 50/27 | 52 | 0.20 | 0.28 | 0.46 | 0.26 | 0.29 | 0.32 | 0.33 | 1.1 | 52/29 (31 dB) | 52/29 (36 dB) | 52/29 (40 dB) |
| 6 mm 50/25 | 52 | 0.19 | 0.27 | 0.44 | 0.29 | 0.28 | 0.31 | 0.32 | 1.0 | 52/28 (31 dB) | 52/28 (36 dB) | 52/28 (40 dB) |
| 6 mm 40/22 | 41 | 0.21 | 0.22 | 0.46 | 0.32 | 0.24 | 0.25 | 0.28 | 1.1 | 41/24 (31 dB) | 41/24 (33 dB) | 41/23 (40 dB) |
| 6 mm 30/17 | 32 | 0.27 | 0.17 | 0.50 | 0.33 | 0.19 | 0.20 | 0.22 | 1.1 | 32/19 (31 dB) | 31/19 (36 dB) | 31/19 (40 dB) |
| Pilkington Activ Suncool™ (self-cleaning) - superior solar control with thermal insulation (low-e) | | | | | | | | | | | | |
| 6 mm 70/40 | 66 | 0.15 | 0.35 | 0.32 | 0.33 | 0.39 | 0.41 | 0.45 | 1.1 | 66/39 (31 dB) | 64/39 (36 dB) | 64/38 (40 dB) |
| 6 mm 70/35 | 65 | 0.21 | 0.32 | 0.44 | 0.24 | 0.35 | 0.37 | 0.40 | 1.0 | 65/35 (31 dB) | 64/35 (36 dB) | 64/34 (40 dB) |
| 6 mm 66/33 | 61 | 0.21 | 0.30 | 0.40 | 0.30 | 0.33 | 0.35 | 0.38 | 1.0 | 61/33 (31 dB) | 61/33 (36 dB) | 60/32 (40 dB) |
| 6 mm 60/31 | 56 | 0.24 | 0.27 | 0.41 | 0.32 | 0.30 | 0.31 | 0.34 | 1.0 | 56/30 (31 dB) | 55/30 (36 dB) | 54/29 (40 dB) |
| 6 mm Silver 50/30 | 47 | 0.42 | 0.27 | 0.52 | 0.21 | 0.30 | 0.31 | 0.34 | 1.0 | 47/30 (31 dB) | 47/30 (36 dB) | 46/29 (40 dB) |
| 6 mm Blue 50/27 | 47 | 0.24 | 0.23 | 0.39 | 0.38 | 0.27 | 0.27 | 0.31 | 1.1 | 47/27 (31 dB) | 46/26 (36 dB) | 46/26 (40 dB) |
| 6 mm 50/25 | 47 | 0.23 | 0.23 | 0.42 | 0.35 | 0.26 | 0.26 | 0.30 | 1.0 | 47/26 (31 dB) | 46/25 (36 dB) | 46/25 (40 dB) |
| 6 mm 40/22 | 37 | 0.25 | 0.18 | 0.40 | 0.42 | 0.21 | 0.21 | 0.24 | 1.1 | 37/21 (31 dB) | 37/21 (36 dB) | 36/21 (40 dB) |
| 6 mm 30/17 | 28 | 0.30 | 0.14 | 0.40 | 0.46 | 0.17 | 0.17 | 0.20 | 1.1 | 28/17 (31 dB) | 28/17 (36 dB) | 28/17 (40 dB) |
| Pilkington Eclipse Advantage™ + Pilkington Optitherm™ S3 inner pane - solar control + thermal insulation | | | | | | | | | | | | |
| 6 mm Clear | 59 | 0.28 | 0.37 | 0.27 | 0.36 | 0.45 | 0.43 | 0.52 | 1.1 | 59/45 (31 dB) | N/A | N/A |
| 6 mm Blue-Green | 50 | 0.20 | 0.26 | 0.14 | 0.60 | 0.32 | 0.30 | 0.37 | 1.1 | 50/32 (31 dB) | N/A | N/A |
| 6 mm Bronze | 33 | 0.12 | 0.22 | 0.13 | 0.65 | 0.29 | 0.25 | 0.33 | 1.1 | 33/29 (31 dB) | N/A | N/A |
| 6 mm Grey | 28 | 0.10 | 0.19 | 0.11 | 0.70 | 0.25 | 0.22 | 0.29 | 1.1 | 28/25 (31 dB) | N/A | N/A |
| 6 mm EverGreen | 42 | 0.17 | 0.19 | 0.10 | 0.71 | 0.25 | 0.22 | 0.29 | 1.1 | 42/25 (31 dB) | N/A | N/A |
| 6 mm Arctic Blue | 34 | 0.13 | 0.18 | 0.09 | 0.73 | 0.24 | 0.21 | 0.28 | 1.1 | 34/24 (31 dB) | N/A | N/A |
| Pilkington Solar-E™ Clear + Pilkington Optitherm™ S3 inner pane - solar control + thermal insulation | | | | | | | | | | | | |
| 6 mm Pilkington Solar-E™ Clear | 52 | 0.10 | 0.32 | 0.11 | 0.57 | 0.39 | 0.36 | 0.45 | 1.1 | 52/39 (31 dB) | N/A | N/A |

* With 6 mm Pilkington **Optiwhite™** inner pane.

Table 2 – Pilkington **Insulight™** Sun Triple – Triple Glazing Units

6 mm Pilkington **Optifloat™** S3 mid-pane,[#]
6 mm Pilkington **Optifloat™** Clear inner pane,
with 16 mm argon cavities, unless otherwise indicated.

Solar control with thermal insulation (low-e)

| Product Description | Light | | Solar Radiant Heat | | | | Shading Coefficient | | U value (W/m ² K) | Performance inc. acoustic Light Transmittance / g-value (R _w) | | |
|--|----------------------|-------------|----------------------|-------------|-------------|--------------------------------|---------------------|-------|------------------------------|---|--------------------|---------------------|
| | Transmittance (LT) % | Reflectance | Direct transmittance | Reflectance | Absorptance | g-value (*Total transmittance) | Short wavelength | Total | | Pane thickness combinations | | |
| Outer Pane | | | | | | | | | Argon (90%) | 6 mm + 6 mm + 6 mm | 8 mm + 6 mm + 6 mm | 10 mm + 6 mm + 6 mm |
| Pilkington Suncool™ - superior solar control with thermal insulation (low-e) | | | | | | | | | | | | |
| 6 mm 70/40 | 61 | 0.13 | 0.30 | 0.29 | 0.41 | 0.36 | 0.35 | 0.41 | 0.6 | 61/36 (34 dB) | 60/35 (38 dB) | 59/35 (N/A) |
| 6 mm 70/35 | 61 | 0.19 | 0.28 | 0.36 | 0.36 | 0.33 | 0.32 | 0.38 | 0.6 | 61/33 (34 dB) | 60/32 (38 dB) | 59/31 (N/A) |
| 6 mm 66/33 | 57 | 0.19 | 0.26 | 0.36 | 0.38 | 0.31 | 0.30 | 0.36 | 0.6 | 57/31 (34 dB) | 57/31 (38 dB) | 56/30 (N/A) |
| 6 mm 60/31 | 52 | 0.13 | 0.23 | 0.33 | 0.44 | 0.28 | 0.27 | 0.32 | 0.6 | 52/28 (34 dB) | 51/27 (38 dB) | 50/27 (N/A) |
| 6 mm Silver 50/30 | 44 | 0.40 | 0.22 | 0.44 | 0.34 | 0.27 | 0.25 | 0.31 | 0.6 | 44/27 (34 dB) | 43/26 (38 dB) | 43/26 (N/A) |
| 6 mm Blue 50/27 | 43 | 0.20 | 0.20 | 0.35 | 0.45 | 0.24 | 0.23 | 0.28 | 0.6 | 43/24 (34 dB) | 43/24 (38 dB) | 42/23 (N/A) |
| 6 mm 50/25 | 43 | 0.20 | 0.19 | 0.33 | 0.48 | 0.23 | 0.22 | 0.26 | 0.6 | 43/23 (34 dB) | 43/23 (38 dB) | 42/23 (N/A) |
| 6 mm 40/22 | 35 | 0.21 | 0.16 | 0.35 | 0.49 | 0.19 | 0.18 | 0.22 | 0.6 | 35/19 (34 dB) | 34/19 (38 dB) | 34/19 (N/A) |
| 6 mm 30/17 | 26 | 0.26 | 0.12 | 0.37 | 0.51 | 0.15 | 0.14 | 0.17 | 0.6 | 26/15 (34 dB) | 26/15 (38 dB) | 26/15 (N/A) |
| Pilkington Suncool™ OW* (low iron) - superior solar control with thermal insulation (low-e) | | | | | | | | | | | | |
| 6 mm 70/40 | 64 | 0.13 | 0.34 | 0.41 | 0.25 | 0.38 | 0.39 | 0.44 | 0.6 | 64/38 (34 dB) | 64/38 (38 dB) | 64/38 (N/A) |
| 6 mm 70/35 | 64 | 0.19 | 0.31 | 0.49 | 0.20 | 0.34 | 0.35 | 0.39 | 0.6 | 64/34 (34 dB) | 64/34 (38 dB) | 64/34 (N/A) |
| 6 mm 66/33 | 60 | 0.20 | 0.29 | 0.49 | 0.22 | 0.33 | 0.34 | 0.38 | 0.6 | 60/33 (34 dB) | 60/32 (38 dB) | 60/32 (N/A) |
| 6 mm 60/31 | 53 | 0.13 | 0.25 | 0.33 | 0.42 | 0.28 | 0.28 | 0.32 | 0.6 | 53/28 (34 dB) | 52/27 (38 dB) | 52/27 (N/A) |
| 6 mm Blue 50/27 | 46 | 0.21 | 0.23 | 0.47 | 0.30 | 0.25 | 0.26 | 0.29 | 0.6 | 46/25 (34 dB) | 46/25 (38 dB) | 46/25 (N/A) |
| 6 mm 50/25 | 46 | 0.21 | 0.22 | 0.45 | 0.33 | 0.24 | 0.25 | 0.28 | 0.6 | 46/24 (34 dB) | 46/24 (38 dB) | 46/24 (N/A) |
| 6 mm 40/22 | 36 | 0.22 | 0.18 | 0.47 | 0.35 | 0.20 | 0.20 | 0.23 | 0.6 | 36/20 (34 dB) | 36/20 (38 dB) | 36/20 (N/A) |
| 6 mm 30/17 | 28 | 0.27 | 0.14 | 0.50 | 0.36 | 0.16 | 0.16 | 0.18 | 0.6 | 28/16 (34 dB) | 28/16 (38 dB) | 28/16 (N/A) |

* 6 mm Pilkington **Optitherm™** S3 mid-pane with 6 mm Pilkington **Optiwhite™** inner pane.

Pilkington **Optitherm™** S3 coating on surface 4 (counting from the outside)

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