

SUNERGY — NEUTRAL HARD-COATED GLASS OFFERING SOLAR PROTECTION AND GOOD THERMAL INSULATION

Double Glazing 6-16-4 (iplus 1.0 in #3 - with 90% Argon)

| | Coating Position | Colour | EN 410 (2011) | | | | | | EN 673 U _g value W/(m ² K) ⁽¹⁾ | Temperable/ Bendable | Cut size | Edge deletion | Shelf life |
|-------------------|------------------|------------|---------------|--------|------------|------------|--------|------|---|-------------------------|----------|------------------|------------|
| | | | LT (%) | SF (%) | LR ext (%) | LR int (%) | EA (%) | SC | | | | | |
| Sunergy Clear | #2 | Neutral | 58 | 41 | 13 | 18 | 49 | 0.47 | 1.0 | Yes | N/A | No | Unlimited |
| Sunergy Green | #2 | Green | 47 | 28 | 10 | 17 | 69 | 0.32 | 1.0 | Yes | N/A | No | Unlimited |
| Sunergy Azur | #2 | Light blue | 47 | 30 | 10 | 17 | 67 | 0.34 | 1.0 | Yes | N/A | No | Unlimited |
| Sunergy Dark Blue | #2 | Dark blue | 34 | 24 | 8 | 17 | 74 | 0.28 | 1.0 | Yes | N/A | No | Unlimited |
| Sunergy Grey | #2 | Grey | 29 | 24 | 6 | 17 | 72 | 0.28 | 1.0 | Yes | N/A | No | Unlimited |

STOPSOL — REFLECTIVE COATED GLASS PROVIDING SOLAR CONTROL

Double Glazing 6-16-4 (iplus 1.0 in #3 - with 90% Argon)

| | Coating Position | Colour | EN 410 (2011) | | | | | | EN 673 U _g value W/(m ² K) ⁽¹⁾ | Temperable/ Bendable | Cut size | Edge deletion | Shelf life |
|-------------------------------|------------------|--------------|---------------|--------|------------|------------|--------|------|---|-------------------------|----------|------------------|------------|
| | | | LT (%) | SF (%) | LR ext (%) | LR int (%) | EA (%) | SC | | | | | |
| Stopsol Classic Clear | #2 | Neutral | 33 | 29 | 28 | 36 | 41 | 0.33 | 1.0 | Yes | N/A | No | Unlimited |
| Stopsol Classic Grey | #2 | Grey | 16 | 18 | 10 | 35 | 72 | 0.21 | 1.0 | Yes | N/A | No | Unlimited |
| Stopsol Classic Green | #2 | Green | 27 | 18 | 20 | 35 | 73 | 0.21 | 1.0 | Yes | N/A | No | Unlimited |
| Stopsol Classic Bronze | #2 | Bronze | 19 | 19 | 12 | 35 | 69 | 0.22 | 1.0 | Yes | N/A | No | Unlimited |
| Stopsol Supersilver Clear | #2 | Neutral | 54 | 42 | 37 | 36 | 22 | 0.48 | 1.0 | Yes | N/A | No | Unlimited |
| Stopsol Supersilver Grey | #2 | Grey | 26 | 24 | 12 | 35 | 66 | 0.28 | 1.0 | Yes | N/A | No | Unlimited |
| Stopsol Supersilver Green | #2 | Green | 44 | 27 | 27 | 36 | 62 | 0.31 | 1.0 | Yes | N/A | No | Unlimited |
| Stopsol Supersilver Dark Blue | #2 | Dark blue | 35 | 24 | 19 | 35 | 66 | 0.28 | 1.0 | Yes | N/A | No | Unlimited |
| Stopsol SilverLight PrivaBlue | #2 | Intense blue | 23 | 16 | 8 | 28 | 82 | 0.18 | 1.0 | Yes | N/A | No | Unlimited |

IPLUS / PLANIBEL LOW-E — THERMAL INSULATION, NEUTRAL AESTHETICS AND HIGH LIGHT TRANSMISSION

Double Glazing 4-15-4 (with 90% Argon)

| | Coating Position | Colour | EN 410 (2011) | | | | | | EN 673 U _g value W/(m ² K) ⁽¹⁾ | Temperable/ Bendable | Cut size | Edge deletion | Shelf life |
|---------------------------|------------------|---------|---------------|--------|------------|------------|--------|------|---|-------------------------|----------|------------------|------------|
| | | | LT (%) | SF (%) | LR ext (%) | LR int (%) | EA (%) | SC | | | | | |
| iplus 1.1 | #3 | Neutral | 82 | 64 | 12 | 12 | 14 | 0.74 | 1.1 | No | No | Yes | 3 months |
| iplus 1.1T ⁽²⁾ | #3 | Neutral | 82 | 66 | 12 | 12 | 13 | 0.76 | 1.1 | Yes | No | Yes | 3 months |
| iplus 1.0 | #3 | Neutral | 77 | 57 | 15 | 16 | 16 | 0.66 | 1.0 | No | No | Yes | 3 months |
| iplus 1.0T ⁽²⁾ | #3 | Neutral | 81 | 62 | 13 | 14 | 13 | 0.71 | 1.0 | Yes | No | Yes | 3 months |
| iplus 1.1-AF | #2 #1 | Neutral | 76 | 57 | 16 | 16 | 19 | 0.66 | 1.1 | No | N/A | Yes | 3 months |
| Energy N-AF | #2 #1 | Neutral | 69 | 39 | 16 | 16 | 27 | 0.45 | 1.0 | No | N/A | Yes | 3 months |
| Planibel A | #3 | Neutral | 73 | 75 | 17 | 15 | 23 | 0.86 | 1.4 | Yes | N/A | No | Unlimited |
| Planibel G | #3 | Neutral | 75 | 76 | 17 | 16 | 19 | 0.87 | 1.5 | Yes | N/A | No | Unlimited |
| Planibel G fast | #3 | Neutral | 75 | 76 | 17 | 16 | 18 | 0.87 | 1.5 | Yes | N/A | No | Unlimited |
| Planibel AS | #3 | Neutral | 84 | 75 | 12 | 13 | 9 | 0.86 | 1.2 | Yes | No | Yes | 3 months |

Triple Glazing 4-14-4 mm Clearvision-14-4 (with 90% Argon)

| | Coating Position | Colour | EN 410 (2011) | | | | | | EN 673 U _g value W/(m ² K) ⁽¹⁾ | Temperable/ Bendable | Cut size | Edge deletion | Shelf life |
|------------------------------|------------------|---------|---------------|--------|------------|------------|--------|------|---|-------------------------|----------|------------------|------------|
| | | | LT (%) | SF (%) | LR ext (%) | LR int (%) | EA (%) | SC | | | | | |
| iplus Top 1.1 on Clearvision | #2 | Neutral | 77 | 55 | 16 | 16 | 13 | 0.63 | 0.6 | No | No | Yes | 3 months |
| iplus Top 1.1 on Clearvision | #5 | | | | | | | | | | | | |
| iplus 1.1 | #2 | Neutral | 75 | 53 | 16 | 16 | 19 | 0.61 | 0.6 | No | No | Yes | 3 months |
| iplus 1.1 | #5 | | | | | | | | | | | | |
| iplus 1.1-AF | #2 #1 | Neutral | 70 | 50 | 19 | 19 | 24 | 0.57 | 0.6 | No | N/A | Yes | 3 months |
| iplus 1.1 | #5 | | | | | | | | | | | | |
| Energy N-AF | #2 #1 | Neutral | 63 | 36 | 18 | 19 | 30 | 0.41 | 0.6 | No | N/A | Yes | 3 months |
| iplus 1.1 | #5 | | | | | | | | | | | | |
| iplus LS | #2 | Neutral | 75 | 61 | 17 | 17 | 19 | 0.70 | 0.7 | No | No | Yes | 3 months |
| iplus LS | #3 | | | | | | | | | | | | |

Triple Glazing 4-16-4 mm Clearvision-16-4 (with 90% Argon)

| | Coating Position | Colour | EN 410 (2011) | | | | | | EN 673 U _g value W/(m ² K) ⁽¹⁾ | Temperable/ Bendable | Cut size | Edge deletion | Shelf life |
|--|------------------|---------|---------------|--------|------------|------------|--------|------|---|-------------------------|----------|------------------|------------|
| | | | LT (%) | SF (%) | LR ext (%) | LR int (%) | EA (%) | SC | | | | | |
| iplus 1.0 | #2 | Neutral | 66 | 43 | 22 | 22 | 22 | 0.49 | 0.5 | No | No | Yes | 3 months |
| iplus 1.0 | #5 | | | | | | | | | | | | |
| iplus 1.0 on Clearvision | #2 | Neutral | 68 | 44 | 22 | 22 | 16 | 0.51 | 0.5 | No | No | Yes | 3 months |
| iplus 1.0 on Clearvision | #5 | | | | | | | | | | | | |
| iplus 1.0T on Clearvision ⁽²⁾ | #2 | Neutral | 76 | 52 | 19 | 19 | 11 | 0.6 | 0.5 | Yes | No | Yes | 3 months |
| iplus 1.0T on Clearvision | #5 | | | | | | | | | | | | |

IPLUS / ENERGY SOLAR LOW-E — THERMAL INSULATION AND SOLAR CONTROL

Double Glazing 4-15-4 (with 90% Argon)

| | | | | | | | | | | | | | |
|--------------|----|---------|----|----|----|----|----|------|-----|-----|----|-----|----------|
| Energy N | #2 | Neutral | 73 | 41 | 12 | 14 | 24 | 0.47 | 1.0 | No | No | Yes | 3 months |
| Energy NT | #2 | Neutral | 74 | 42 | 12 | 14 | 22 | 0.48 | 1.0 | Yes | No | Yes | 3 months |
| Energy Light | #2 | Neutral | 65 | 43 | 27 | 24 | 18 | 0.49 | 1.0 | Yes | No | Yes | 3 months |

N/A : non applicable

⁽¹⁾ Identical values for a 15 or 16 mm spacer.

⁽²⁾ This coating must be tempered to reach its final performances and aesthetics. It can not be used annealed.

1157283 ENG – 05/19

PERFORMANCES
COATINGS
Solar control
& thermal insulation

AGC

Your Dreams, Our Challenge

STOPRAY - IPASOL - SOFT-COATED GLASS OFFERING THERMAL INSULATION AND MAXIMUM SOLAR PROTECTION

COATED PRODUCTS AVAILABLE IN STOCK - Double Glazing 6-16-4 (with 90% Argon)

| | Coating Position | Colour | EN 410 (2011) | | | | | | EN 673 | Temperable/ Bendable | Cut size | Edge deletion | Shelf life |
|--|------------------|----------------|---------------|--------|------------|------------|--------|------|--|-------------------------|----------|-------------------|------------|
| | | | LT (%) | SF (%) | LR ext (%) | LR int (%) | EA (%) | SC | U _g value W/(m ² K) ⁽¹⁾ | | | | |
| Stopray Ultraselect-50 on Clearvision ⁽⁴⁾ | #2 | Neutral | 51 | 24 | 20 | 14 | 32 | 0.28 | 1.0 | No | Yes | Yes | 3 months |
| Stopray Ultra-60 on Clearvision | #2 | Neutral | 62 | 29 | 13 | 15 | 26 | 0.33 | 1.0 | No | Yes | Yes | 3 months |
| ipasol ultraselect 62/29 on Clearvision ⁽⁴⁾ | #2 | Neutral | 64 | 30 | 10 | 11 | 26 | 0.34 | 1.0 | No | Yes | Yes | 3 months |
| Stopray Vision-72 | #2 | Neutral | 72 | 38 | 13 | 14 | 26 | 0.44 | 1.0 | No | No | Yes | 3 months |
| Stopray Vision-72T ⁽²⁾ | #2 | Neutral | 72 | 38 | 13 | 14 | 26 | 0.44 | 1.0 | Yes | No | Yes | 3 months |
| Stopray Vision-62 ⁽⁴⁾ | #2 | Neutral | 62 | 33 | 15 | 14 | 32 | 0.38 | 1.0 | No | No | Yes | 3 months |
| Stopray Vision-62T ⁽²⁾⁽⁴⁾ | #2 | Neutral | 62 | 33 | 15 | 14 | 32 | 0.38 | 1.0 | Yes | No | Yes | 3 months |
| Stopray Vision-52 ⁽⁴⁾ | #2 | Neutral | 52 | 27 | 16 | 13 | 37 | 0.31 | 1.0 | No | No | Yes | 3 months |
| Stopray Vision-52T ⁽²⁾⁽⁴⁾ | #2 | Neutral | 52 | 27 | 16 | 13 | 37 | 0.31 | 1.0 | Yes | No | Yes | 3 months |
| Stopray Vision-40 | #2 | Neutral | 40 | 21 | 19 | 15 | 39 | 0.24 | 1.0 | No | No | Yes | 3 months |
| Stopray Vision-40T ⁽²⁾ | #2 | Neutral | 40 | 21 | 19 | 15 | 39 | 0.24 | 1.0 | Yes | No | Yes | 3 months |
| Stopray SilverFlex | #2 | Neutral | 44 | 27 | 48 | 46 | 21 | 0.31 | 1.0 | Yes | No | Yes | 3 months |
| Stopray Titanium 37T ⁽²⁾ | #2 | Grey | 36 | 24 | 6 | 12 | 64 | 0.28 | 1.0 | Yes | No | Yes | 3 months |
| ipasol light grey 60/33 | #2 | Neutral | 60 | 33 | 10 | 11 | 35 | 0.38 | 1.0 | No | Yes | Yes | 3 months |
| ipasol neutral 70/37 | #2 | Neutral | 70 | 37 | 12 | 15 | 29 | 0.43 | 1.0 | No | Yes | Yes | 3 months |
| ipasol neutral 50/27 | #2 | Neutral | 50 | 27 | 9 | 11 | 48 | 0.31 | 1.1 | No | Yes | Yes | 3 months |
| Stopray Smart 51/33 | #2 | Neutral | 51 | 34 | 26 | 18 | 31 | 0.39 | 1.1 | Yes | No | No ⁽³⁾ | 9 months |
| Stopray Smart 30/20 | #2 | Neutral bluish | 30 | 21 | 29 | 15 | 47 | 0.24 | 1.1 | Yes | No | No ⁽³⁾ | 9 months |

COATED PRODUCTS AVAILABLE IN STOCK - Double Glazing 6-16-4 (iplus 1.0 in #3 - with 90% Argon)

| | Coating Position | Colour | EN 410 (2011) | | | | | | EN 673 | Temperable/ Bendable | Cut size | Edge deletion | Shelf life |
|-----------------------|------------------|---------|---------------|--------|------------|------------|--------|------|--|-------------------------|----------|---------------|------------|
| | | | LT (%) | SF (%) | LR ext (%) | LR int (%) | EA (%) | SC | U _g value W/(m ² K) ⁽¹⁾ | | | | |
| ipasol bright neutral | #2 | Neutral | 55 | 42 | 36 | 36 | 24 | 0.48 | 1.0 | Yes | Yes | No | 3 months |

COATED PRODUCTS MADE ON REQUEST - Double Glazing 6-16-4 (with 90% Argon)

| | Coating Position | Colour | EN 410 (2011) | | | | | | EN 673 | Temperable/ Bendable | Cut size | Edge deletion | Shelf life |
|--|------------------|-----------|---------------|--------|------------|------------|--------|------|--|-------------------------|----------|---------------|------------|
| | | | LT (%) | SF (%) | LR ext (%) | LR int (%) | EA (%) | SC | U _g value W/(m ² K) ⁽¹⁾ | | | | |
| Stopray Ultra-50 on Clearvision ⁽⁴⁾ | #2 | Neutral | 50 | 23 | 18 | 14 | 32 | 0.26 | 1.0 | No | No | Yes | 3 months |
| Stopray Vision-60 | #2 | Neutral | 61 | 35 | 15 | 18 | 37 | 0.40 | 1.0 | No | Yes | Yes | 3 months |
| Stopray Vision-60T ⁽²⁾ | #2 | Neutral | 60 | 37 | 15 | 20 | 37 | 0.43 | 1.0 | Yes | No | Yes | 3 months |
| Stopray Vision-50 | #2 | Neutral | 50 | 28 | 19 | 22 | 41 | 0.32 | 1.0 | No | Yes | Yes | 3 months |
| Stopray Vision-50T ⁽²⁾ | #2 | Neutral | 50 | 30 | 17 | 22 | 39 | 0.34 | 1.0 | Yes | No | Yes | 3 months |
| Stopray Indigo 48T ⁽²⁾ | #2 | Dark Blue | 47 | 27 | 8 | 13 | 67 | 0.31 | 1.0 | Yes | No | Yes | 3 months |
| ipasol platin 47/29 | #2 | Silver | 47 | 30 | 40 | 30 | 30 | 0.34 | 1.0 | No | Yes | Yes | 3 months |
| ipasol shine 40/22 | #2 | Blue | 40 | 22 | 16 | 12 | 54 | 0.25 | 1.1 | No | Yes | Yes | 3 months |
| ipasol sky 30/17 | #2 | Blue | 30 | 17 | 18 | 11 | 63 | 0.20 | 1.1 | No | Yes | Yes | 3 months |
| ipasol platin 25/17 | #2 | Silver | 25 | 17 | 64 | 33 | 20 | 0.20 | 1.0 | No | Yes | Yes | 3 months |

COATED PRODUCTS MADE ON REQUEST - Double Glazing 6-16-4 (iplus 1.0 in #3 - with 90% Argon)

| | Coating Position | Colour | EN 410 (2011) | | | | | | EN 673 | Temperable/ Bendable | Cut size | Edge deletion | Shelf life |
|---------------------|------------------|---------|---------------|--------|------------|------------|--------|------|--|-------------------------|----------|---------------|------------|
| | | | LT (%) | SF (%) | LR ext (%) | LR int (%) | EA (%) | SC | U _g value W/(m ² K) ⁽¹⁾ | | | | |
| ipasol bright white | #2 | Neutral | 56 | 45 | 38 | 36 | 12 | 0.52 | 1.0 | Yes | Yes | No | 3 months |

COATED PRODUCTS AVAILABLE IN STOCK - Triple glazing 6-14-4-14-4 (Coating in #2 - Clearvision - iplus 1.1 on Clearvision in #5 - with 90% Argon)

| | Coating Position | Colour | EN 410 (2011) | | | | | | EN 673 | Temperable/ Bendable | Cut size | Edge deletion | Shelf life |
|---|------------------|---------|---------------|--------|------------|------------|--------|------|--|-------------------------|----------|---------------|------------|
| | | | LT (%) | SF (%) | LR ext (%) | LR int (%) | EA (%) | SC | U _g value W/(m ² K) ⁽¹⁾ | | | | |
| Stopray Ultraselect-50 on Clearvision | #2 | Neutral | 46 | 23 | 21 | 17 | 34 | 0.26 | 0.6 | No | Yes | Yes | 3 months |
| Stopray Ultra-60 on Clearvision | #2 | Neutral | 57 | 27 | 15 | 18 | 27 | 0.31 | 0.6 | No | Yes | Yes | 3 months |
| ipasol ultraselect 62/29 on Clearvision | #2 | Neutral | 58 | 28 | 12 | 15 | 29 | 0.32 | 0.6 | No | Yes | Yes | 3 months |

COATED PRODUCTS AVAILABLE IN STOCK - Triple glazing 6-14-4-14-4 (Coating in #2 - Clearvision - iplus 1.1 in #5 - with 90% Argon)

| | | | | | | | | | | | | | |
|-----------------------------------|----|---------|----|----|----|----|----|------|-----|-----|-----|-----|----------|
| Stopray Vision-72 | #2 | Neutral | 66 | 35 | 16 | 18 | 29 | 0.40 | 0.6 | No | No | Yes | 3 months |
| Stopray Vision-72T ⁽²⁾ | #2 | Neutral | 66 | 35 | 16 | 18 | 29 | 0.40 | 0.6 | Yes | No | Yes | 3 months |
| Stopray Vision-62 | #2 | Neutral | 56 | 31 | 17 | 17 | 35 | 0.35 | 0.6 | No | No | Yes | 3 months |
| Stopray Vision-62T ⁽²⁾ | #2 | Neutral | 56 | 31 | 17 | 17 | 35 | 0.35 | 0.6 | Yes | No | Yes | 3 months |
| Stopray Vision-52 | #2 | Neutral | 47 | 25 | 18 | 16 | 40 | 0.29 | 0.6 | No | No | Yes | 3 months |
| Stopray Vision-52T ⁽²⁾ | #2 | Neutral | 47 | 25 | 18 | 16 | 40 | 0.29 | 0.6 | Yes | No | Yes | 3 months |
| Stopray Vision-40 | #2 | Neutral | 37 | 20 | 20 | 18 | 40 | 0.23 | 0.6 | No | No | Yes | 3 months |
| Stopray Vision-40T ⁽²⁾ | #2 | Neutral | 37 | 20 | 20 | 18 | 40 | 0.23 | 0.6 | Yes | No | Yes | 3 months |
| Stopray SilverFlex | #2 | Neutral | 41 | 25 | 49 | 45 | 23 | 0.29 | 0.6 | Yes | No | Yes | 3 months |
| ipasol light grey 60/33 | #2 | Neutral | 36 | 31 | 12 | 15 | 36 | 0.36 | 0.6 | No | Yes | Yes | 3 months |
| ipasol neutral 70/37 | #2 | Neutral | 65 | 35 | 15 | 18 | 31 | 0.40 | 0.6 | No | Yes | Yes | 3 months |
| ipasol neutral 50/27 | #2 | Neutral | 46 | 25 | 10 | 15 | 51 | 0.29 | 0.6 | No | Yes | Yes | 3 months |
| Stopray Vision-60T ⁽²⁾ | #2 | Neutral | 55 | 34 | 16 | 23 | 40 | 0.39 | 0.6 | Yes | No | Yes | 3 months |
| Stopray Vision-50T ⁽²⁾ | #2 | Neutral | 46 | 28 | 19 | 24 | 42 | 0.32 | 0.6 | Yes | No | Yes | 3 months |
| Stopray Vision-60 | #2 | Neutral | 56 | 32 | 17 | 21 | 39 | 0.37 | 0.6 | No | Yes | Yes | 3 months |
| Stopray Vision-50 | #2 | Neutral | 46 | 26 | 20 | 24 | 44 | 0.30 | 0.6 | No | Yes | Yes | 3 months |
| ipasol platin 25/17 | #2 | Silver | 23 | 16 | 64 | 34 | 21 | 0.18 | 0.6 | No | Yes | Yes | 3 months |
| ipasol platin 47/29 | #2 | Silver | 43 | 27 | 41 | 31 | 32 | 0.31 | 0.6 | No | Yes | Yes | 3 months |
| ipasol shine 40/22 | #2 | Blue | 37 | 20 | 17 | 15 | 54 | 0.23 | 0.6 | No | Yes | Yes | 3 months |
| ipasol sky 30/17 | #2 | Blue | 28 | 15 | 19 | 15 | 64 | 0.17 | 0.6 | No | Yes | Yes | 3 months |

N/A : non applicable

⁽¹⁾ Identical values for a 15 or 16 mm spacer.

⁽²⁾ This coating must be tempered to reach its final performances and aesthetics. It can not be used annealed.

⁽³⁾ Please follow the processing instructions in the "Stopray Smart Processing Guide" and in the "Stopray Smart Sealant Compatibility Guide".

⁽⁴⁾ Inner pane Planibel Clearvision.