

## Scheuten solar control and heat reflective insulating glass

# ISOLIDE® BRILLIANT



November 2020

Product name		Isolide® Brilliant 71/39	Isolide® Brilliant 70/35 NG	Isolide® Brilliant 61/32	Isolide® Brilliant 60/27	Isolide® Brilliant 51/26
<b>Type</b>		6# - [cavity] - 4	6# - [cavity] - 4	6# - [cavity] - 4	6# - [cavity] - 4	6# - [cavity] - 4
Glass composition (# = position of coating)						
Colour impression		Neutral	Neutral Light Blue / Gray	Neutral Light Blue	Neutral Blue	Neutral Blue
Remarks						
<b>Day light</b>						
Light transmission ( $\tau_v$ )	(%)	71	70	62	60	51
Exterior light reflection ( $\rho_{v,ext}$ )	(%)	12	13	14	14	16
Interior light reflection ( $\rho_{v,int}$ )	(%)	13	15	13	13	21
<b>Colour rendering index (Ra)</b>						
Translucency	(%)	95	94	96	95	88
<b>Solar light and energy</b>						
Direct energy transmission ( $\tau_e$ )	(%)	37	34	31	26	25
Direct energy reflection ( $\rho_{e,ext}$ )	(%)	32	37	33	38	35
Energy absorption outer pane ( $\alpha_e$ )	(%)	30	29	35	36	39
Energy absorption inner pane ( $\alpha_i$ )	(%)	1	1	1	1	1
Total energy transmission (g)	(%)	39	35	34	28	28
<b>Thermal insulation, Ug-value</b>						
Cavity 15 - 16 mm + Argon gas fill	(W/m <sup>2</sup> K)	1,0	1,0	1,0	1,0	1,0
Cavity 9 - 12 mm + Krypton gas fill	(W/m <sup>2</sup> K)	1,0	1,0	1,0	1,0	1,0

Optical and thermal properties are based on EN 1096, EN 410 and EN 673.

Tolerances on color according to GEPVP; tolerances on light-technical or energetic specifications +/- 3 points; tolerances on Ug-value +/- 0,1 W / m<sup>2</sup>K.

Standard available thicknesses Brilliant coatings: 6, 8, 4(2)4 and for the 71/39 also in 4 and 3(1)3. For other thicknesses, please contact our sales department.

If the absorption of the outer pane is more than 45%, an increased risk may occur on breakage due to thermal stress, dependent on orientation and application.

Its optimal insulation may cause the glazing to condensate on the outside.

A distorted reflected image may occur in insulating glass based on differences of pressure and temperature.

The above Brilliant coatings are standard products. Project based other coatings in various ranges are available.

Contact our sales department for further details.

For matching Colorsafe® enamelled panels or shadow boxes please contact our sales department.

## Scheuten solar control and heat reflective insulating glass

# ISOLIDE® BRILLIANT T



November 2020

Product name	Isolide® Brilliant 71/39 T	Isolide® Brilliant 70/35 NGT	Isolide® Brilliant 61/32 T	Isolide® Brilliant 60/27 T	Isolide® Brilliant 51/26
Type	6# - [cavity] - 4	6# - [cavity] - 4	6# - [cavity] - 4	6# - [cavity] - 4	6# - [cavity] - 4
Glass composition (# = position of coating)	Neutral	Neutral Light Blue / Gray	Neutral Light Blue	Neutral Blue	Neutral Blue
Colour impression					*
Remarks					

### Day light

	(%)	71	70	62	60	51
Light transmission ( $\tau_v$ )	(%)	71	70	62	60	51
Exterior light reflection ( $\rho_{v,ext}$ )	(%)	13	14	14	15	16
Interior light reflection ( $\rho_{v,int}$ )	(%)	14	15	14	16	21

### Colour rendering index (Ra)

	(%)	96	93	96	94	88
Translucency	(%)	96	93	96	94	88

### Solar light and energy

	(%)	37	34	32	26	25
Direct energy transmission ( $\tau_e$ )	(%)	37	34	32	26	25
Direct energy reflection ( $\rho_{e,ext}$ )	(%)	34	36	32	40	35
Energy absorption outer pane ( $\alpha_e$ )	(%)	28	30	35	34	39
Energy absorption inner pane ( $\alpha_i$ )	(%)	1	1	1	0	1
Total energy transmission (g)	(%)	39	35	34	27	28

### Thermal insulation, Ug-value

	(W/m <sup>2</sup> K)	1,0	1,0	1,0	1,0	1,0
Cavity 15 - 16 mm + Argon gas fill	(W/m <sup>2</sup> K)	1,0	1,0	1,0	1,0	1,0
Cavity 9 - 12 mm + Krypton gas fill	(W/m <sup>2</sup> K)	1,0	1,0	1,0	1,0	1,0

\* This type of coating is applied to a fixed size. Special conditions apply for this, please consult our sales department.

Optical and thermal properties are based on EN 1096, EN 410 and EN 673.

Tolerances on color according to GEPVP; tolerances on light-technical or energetic specifications +/- 3 points; tolerances on Ug-value +/- 0,1 W / m<sup>2</sup>K.

Standard available thicknesses Brilliant coatings: 6 and 8. For other thicknesses, please contact our sales department.

The temperable versions (T) of the Brilliant series have been color-matched to match the float version, but they are not exactly identical.

Its optimal insulation may cause the glazing to condensate on the outside.

A distorted reflected image may occur in insulating glass based on differences of pressure and temperature.

The above Brilliant coatings are standard products. Project based other coatings in various ranges are available.

Contact our sales department for further details.

For matching Colorsafe® enamelled panels or shadow boxes please contact our sales department.