

# Reflective Films

Bold, efficient, high energy saving films

The SolarZone Reflective range provides maximum energy efficiency and value. By rejecting excess solar radiation, Silver and Solar Bronze films cut heat buildup through the glazing. SolarZone Xtra exterior Reflective films are particularly energy efficient on insulated glass (IGU), rejecting solar energy on the outer pane, keeping the inner pane cool, thereby reducing the HVAC load still further.

SolarZone Reflective films are the most popular choice for commercial projects with their strong visual statement, effective heat rejection, and the quickest return on investment.

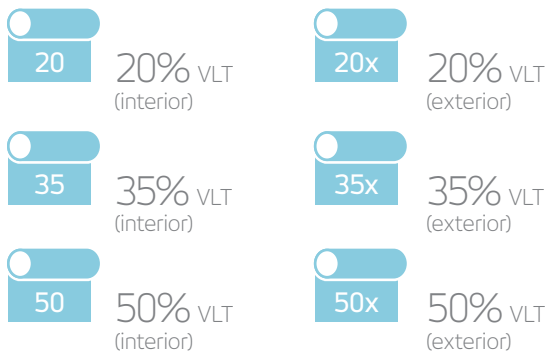
## Silver



A classic range designed for maximum efficiency at a competitive price.

### Specialty Silver products

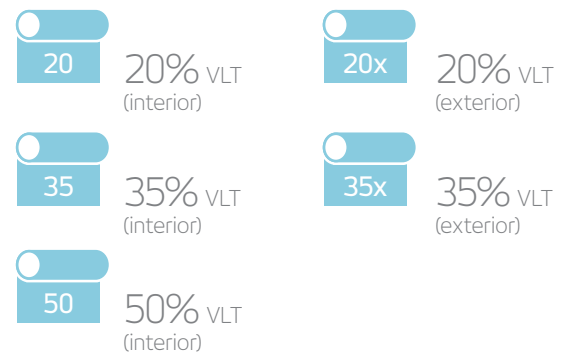
- **PolyZone Silver 20 Xtra**, engineered for exterior installation to polycarbonate and other rigid plastic substrates
- **SkyLite Silver 20X**, PolyZone SkyLite, specifically developed for exterior glass and plastic roof glazing installations
- **Silver Matte Xtra**, interior comfort with two-way night and day privacy
- **Low-E Silver**, 20 and 35% VLT for year-round energy efficiency; reflecting radiant internal heating back into the room in winter, reducing heat buildup in the summer



## Solar Bronze



Solar Bronze offers an alternative high-tech appearance with a warm bronze hue.



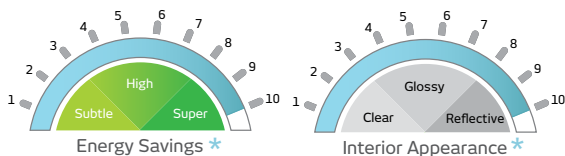
## Reflective films provide

- Excellent solar heat and glare rejection
- Highest levels of energy efficiency
- Quickest payback period
- 99+% UV block
- Upgraded building appearance
- Daytime privacy
- Low-E products: All year round energy efficiency

Optical and solar properties**		Silver 20	Silver 35	Silver 50	Silver 20 Low E	Silver 35 Low E	SkyLite Silver 20X (Exterior)
Item Number	PS adhesive WA adhesive	R05822S R06922W	R05834S R06934W	R05850S -	R06922E -	R06934E -	R157X15 -
Visible light transmitted (%)		18	34	50	17	27	15
Visible light reflected (interior) (%)		62	41	23	63	49	63
Visible light reflected (exterior) (%)		61	42	24	56	44	66
Ultraviolet block (%)		99	99	98	99	99	99.9
Total solar energy reflected (%)		55	39	24	51	41	64
Total solar energy transmitted (%)		13	25	39	12	19	10
Total solar energy absorbed (%)		32	36	37	37	40	26
Glare reduction (%)		80	63	44	81	70	84
Shading coefficient		0.25	0.40	0.59	0.24	0.33	0.20
Solar heat gain coeff. (G-value)		0.22	0.35	0.50	0.20	0.28	0.17
Winter U-value (IP) BTU/(hr×°F×ft²)		0.97	0.98	1.03	0.79	0.83	1.03
Winter U-value (SI) W/(°K×m²)		5.51	5.57	5.78	4.49	4.71	5.85
Emissivity		0.71	0.72	0.81	0.39	0.45	0.84
Total solar energy rejected (%)		78	65	50	80	72	83

Optical and solar properties**		Silver 20 Xtra (Exterior)	Silver 35 Xtra (Exterior)	Silver 50 Xtra (Exterior)	Solar Bronze 20* (Exterior)	Solar Bronze 35* (Exterior)	Solar Bronze 50 (Interior)
Item Number	PS adhesive WA adhesive	R07022X -	R07035X -	R07050X -	R069B2X -	R069B5X -	R069B3S R069B3W
Visible light transmitted (%)		17	33	48	16	33	50
Visible light reflected (interior) (%)		62	42	28	46	28	17
Visible light reflected (exterior) (%)		62	42	27	39	30	19
Ultraviolet block (%)		99.9	99.9	99.9	99	99	98
Total solar energy reflected (%)		63	45	30	64	52	32
Total solar energy transmitted (%)		12	25	37	9	21	36
Total solar energy absorbed (%)		25	30	33	27	27	32
Glare reduction (%)		81	63	46	82	64	44
Shading coefficient		0.22	0.39	0.53	0.20	0.33	0.52
Solar heat gain coeff. (G-value)		0.19	0.34	0.46	0.17	0.29	0.45
Winter U-value (IP) BTU/(hr×°F×ft²)		1.04	1.04	1.04	1.04	1.04	0.97
Winter U-value (SI) W/(°K×m²)		5.91	5.91	5.91	5.91	5.91	-
Emissivity		0.84	0.84	0.84	0.84	0.84	0.71
Total solar energy rejected (%)		81	66	54	83	70	55

\*Also available as interior film, PS and WA \*\*Performance results are calculated on 3 mm glass using NFRC methodology and LBNL Window 5.2 software, and are subject to variations in process conditions within industry standards and are only intended for estimating purposes.



\* Comparative scale, at similar levels of light transmission, and with reflective films as benchmark

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