

Neutral Films

Low reflectance, high performance

SolarZone Neutral films add a subtle gray appearance to glazing for an extremely effective reduction in heat gain and glare that preserves the natural view through the glass.

PerLite



PerLite is a highly durable, ceramic-based film. PerLite, previously Cold Steel, was developed using a proprietary patented advanced ceramic coating technology. As a result, its attractive neutral grey color delivers excellent solar energy rejection, with surprisingly low visible light reflectance. This makes PerLite an ideal solution for economic energy-saving projects when it's important to preserve views and retain a natural appearance — both inside and out.



20% VLT



50% VLT



35% VLT



70% VLT

Also available as 6 and 10 mil energy-saving security laminates under the SolarZone Safe range.

Natura



Natura low reflectance neutral grey solar control films give highly effective heat rejection, glare reduction and privacy. Developed for residential & commercial projects targeting effective energy control but requiring a subtle appearance on glass. Natura is ideal for installation on single pane windows; consult Hanita's film-to-glass application chart for additional options.



7% VLT



15% VLT



28% VLT



PerLite 35 inside and out



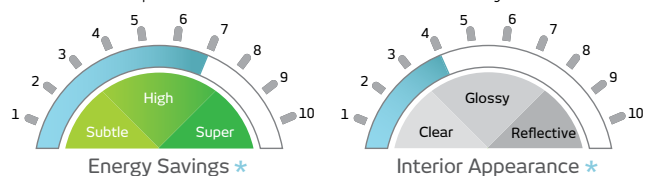
SolarZone Neutral films provide

- **High heat rejection** - lowers cooling costs, enhances comfort
- **High glare reduction** - improves screen viewing, reduces eyestrain
- **Neutral color** - provides natural gray appearance, inside and out
- **99% UV block** - limits fading and damage from the sun

Optical and solar properties**		PerLite 20	PerLite 35	PerLite 50	PerLite 70
Item Number	PS adhesive WA adhesive	- R070L6W	- R070L5W	R058L3S R069L3W	- R069L4W
Visible light transmitted (%)		22	39	51	68
Visible light reflected (interior) (%)		24	15	16	9
Visible light reflected (exterior) (%)		25	17	18	10
Ultraviolet block (%)		99	99	99	99
Total solar energy reflected (%)		29	17	20	10
Total solar energy transmitted (%)		14	29	40	59
Total solar energy absorbed (%)		57	54	40	31
Glare reduction (%)		76	56	43	25
Shading coefficient		0.36	0.52	0.60	0.79
Solar heat gain coeff. (G-value)		0.30	0.45	0.51	0.69
Winter U-value (IP) BTU/(hr×°F×ft²)		1.00	1.03	1.04	1.08
Winter U-value (SI) W/(°K×m²)		5.68	5.85	5.91	6.13
Emissivity		0.76	0.82	0.84	0.91
Total solar energy rejected (%)		70	55	49	31

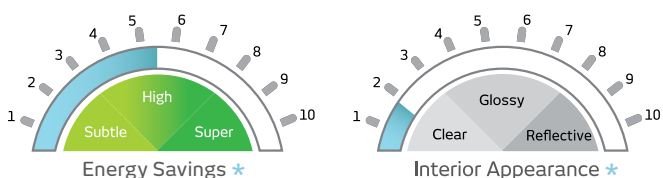
PerLite is the new brand name for the Cold Steel line.

**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.



Optical and solar properties	Natura 07	Natura 15	Natura 28
Visible Light Transmitted	7%	16%	31%
Visible Light Reflected (Int)	11%	11%	9%
Visible Light Reflected (Ext)	14%	9%	14%
Ultra Violet Block	99%	99%	99%
Total Solar Energy Reflected	20%	10%	15%
Total Solar Energy Transmitted	12%	15%	33%
Total Solar Energy Absorbed	68%	75%	52%
Shading Coefficient	0.36	0.44	0.56
Glare Reduction	92%	83%	65%
Solar Heat Gain Coefficient (G-Value)	0.32	0.38	0.48
Total Solar Energy Rejected	68%	62%	52%
Product number	R058L7W	R058L9W	R069L8W

WA adhesive



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

solarzone@hanitaenergy.com | www.hanitaenergy.com | US: www.hanitatek.com
 Hanita Coatings RCA Ltd | Kibbutz Hanita, 2288500, Israel | T: +972 4 985 9919
 solar@hanitacoatings.com | www.hanitacoatings.com

energy efficiency

