

Neutral Films

Low reflectance, high performance

SolarZone Cold Steel 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. Manufactured using a patented process,

Cold Steel's attractive neutral color delivers excellent solar energy rejection with a surprisingly low visible light reflectance.

Cold Steel



Cold Steel presents an ideal solution for economic energy-saving projects when it's important to preserve views and retain a natural appearance — both inside and out.

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



20% VLT



50% VLT



35% VLT



70% VLT



Cold Steel 35 inside and out

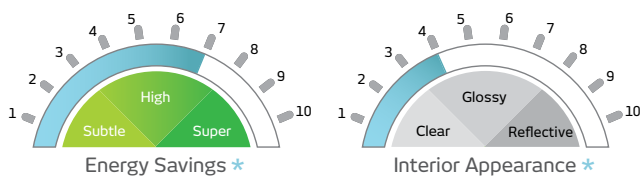


SolarZone Cold Steel films provide

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

| Optical and solar properties** | | Cold Steel 20 | Cold Steel 35 | Cold Steel 50 | Cold Steel 70 |
|--|-------------|---------------|---------------|---------------|---------------|
| Item Number | PS adhesive | - | - | R058L3S | R058X4S |
| | WA adhesive | R070L6W | R070L5W | 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 |

**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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