



# COLD STEEL



HanitaTek  
Window Films

COLD STEEL



## HIGH-PERFORMANCE ARCHITECTURAL FILMS

A panoramic view is a prime asset, especially in residential settings. However, a marvelous view can be impaired by excessive glare, and increased room temperatures.

Cold Steel solar-control architectural films are the ideal solution, subtly reducing glare and controlling heat buildup—without affecting the view.

Manufactured using a patented process, Cold Steel remains virtually neutral in color while supplying excellent solar-energy rejection and surprisingly low visible-light reflectance. It also provides outstanding UV protection, blocking 99% of harmful and damaging UVA and UVB radiation.

Cold Steel is available in 20%, 35%, 50% and 70% light transmission with a water-activated (WA) adhesive system. Several Cold Steel films have also been modified for exterior (outdoor) applications, with Pressure Sensitive PS adhesive and a special scratch-resistant coating. Cold Steel 35 and 50 are also available in the SafetyZone™ line.

## COLD STEEL: THE CLEAR SOLUTION TO SUN & GLARE

- Neutral shade for a natural appearance
- High solar-energy rejection reduces heat buildup
- Low reflectance improves view
- 99% UV block reduces fading and sun damage to furnishings and skin
- 78% glare reduction for greater comfort

## AVAILABLE IN:

- 20, 35, 50 & 70% VLT
- 6 & 10 Mil security films
- 20 & 35% VLT for exterior application

S O L A R Z O N E

# COLD STEEL



## SOLARZONE™

Optical & Solar Properties	Cold Steel 20	Cold Steel 35	Cold Steel 50	Cold Steel 70
Visible Light Transmitted	19%	35%	47%	66%
<b>Total Solar Energy Reflected</b>	<b>26%</b>	<b>20%</b>	<b>20%</b>	<b>11%</b>
Total Solar Energy Absorbed	59%	53%	41%	31%
<b>Total Solar Energy Transmitted</b>	<b>15%</b>	<b>27%</b>	<b>39%</b>	<b>58%</b>
Visible Light Reflected - Exterior	19%	12%	14%	9%
<b>Visible Light Reflected - Interior</b>	<b>25%</b>	<b>17%</b>	<b>17%</b>	<b>11%</b>
U-Value	0.95	0.95	0.98	1.01
<b>UV Radiation Rejected</b>	<b>99%</b>	<b>99%</b>	<b>99%</b>	<b>99%</b>
Shading Coefficient	0.35	0.48	0.57	0.76
<b>Solar Heat Gain Coefficient</b>	<b>0.30</b>	<b>0.42</b>	<b>0.5</b>	<b>0.66</b>
Emissivity	0.81	0.84	0.84	0.88
<b>Total Solar Energy Rejected</b>	<b>68%</b>	<b>56%</b>	<b>51%</b>	<b>34%</b>

## SAFETYZONE™

Optical & Solar Properties	6 Mil Cold Steel 35	10 Mil Cold Steel 35	6 Mil Cold Steel 50	10 Mil Cold Steel 50	6 Mil Cold Steel 70
Visible Light Transmitted	34%	34%	46%	46%	66%
<b>Visible Light Reflected</b>	<b>12%</b>	<b>12%</b>	<b>13%</b>	<b>13%</b>	<b>9%</b>
UV Radiation Rejected	99%	99%	97%	97%	99%
<b>Total Solar Energy Reflected</b>	<b>19%</b>	<b>19%</b>	<b>19%</b>	<b>19%</b>	<b>10%</b>
Total Solar Energy Transmitted	25%	25%	37%	37%	56%
<b>Total Solar Energy Absorbed</b>	<b>56%</b>	<b>56%</b>	<b>44%</b>	<b>44%</b>	<b>34%</b>
Shading Coefficient	0.46	0.46	0.56	0.56	0.75
<b>Total Solar Energy Rejected</b>	<b>57%</b>	<b>57%</b>	<b>52%</b>	<b>52%</b>	<b>35%</b>

All solar performance data is based on film being applied to the inside of 1/4 inch clear monolithic annealed glass. All data reported has been measured, calculated and reported in accordance with ASTM, ASHRAE and AIMCAL standards. The data is subject to variations within accepted industry standards.

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