Cold Steel

High-Performance Architectural Films

Optical and Solar Properties	Cold Steel 20	Cold Steel 35	Cold Steel 50	Cold Steel 70
Visible Light Transmitted	22%	39%	51%	68%
Visible Light Reflected (interior)	24%	15%	16%	9%
Visible Light Reflected (exterior)	25%	17%	18%	10%
Ultra Violet 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	1.00	1.03	1.04	1.08
Emissivity	0.76	0.82	0.84	0.91
Total Solar Energy Rejected	70%	55%	49%	31%
Item Number	R070L6W	R070L5W	R069L3W	R069L4W

Optical and Solar Properties	Cold Steel 35, 6 mil	Cold Steel 35, 10 mil	Cold Steel 50, 6 mil	Cold Steel 50, 10 mil	Cold Steel 70, 6 mil
Visible Light Transmitted	39%	40%	52%	52%	63%
Visible Light Reflected (interior)	16%	17%	16%	16%	14%
Visible Light Reflected (exterior)	18%	17%	17%	16%	19%
Ultra Violet Block	99%	99%	99%	99%	99%
Total Solar Energy Reflected	19%	18%	19%	17%	16%
Total Solar Energy Transmitted	29%	30%	42%	43%	55%
Total Solar Energy Absorbed	52%	52%	40%	40%	29%
Glare reduction	56%	55%	42%	40%	31%
Shading Coefficient	0.52	0.53	0.62	0.64	0.73
Solar Heat Gain Coeff. (G-value)	0.44	0.46	0.53	0.55	0.63
Winter U Value	1.07	1.08	1.07	1.08	1.08
Emissivity	0.90	0.91	0.90	0.92	0.91
Total Solar Energy Rejected	56%	54%	47%	45%	37%
Item Number	R170L5T	R270L5T	R169L3T	R269L3T	R169X4T

Performance results are calculated on 3mm 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.

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