

Standard

**EN410**

Select product

**Sentinel Plus Stainless Steel 40 OSW**

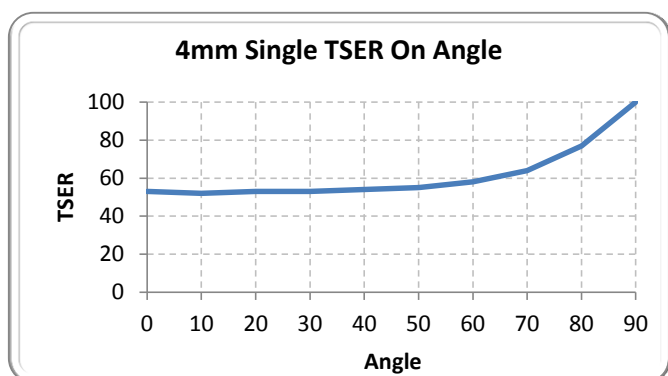
	4mm Single Clear	6mm Single Clear	4mm Double Clear	6mm Double Clear	6mm Double Low-E S#2	6mm Double Low-E S#3	4mm Triple Clear	4mm Triple LE S#2&5
<b>Performance results</b>								
<b>Visible light</b>								
Transmittance %	39	39	35	35	29	34	33	30
Reflectance exterior %	18	18	19	19	19	19	20	19
Reflectance interior %	15	15	21	20	17	16	25	19
Glare reduction %	57	57	57	57	57	57	56	57
<b>Solar energy</b>								
Transmittance %	36	35	32	29	17	22	27	18
Absorptance %	47	48	50	53	61	57	54	61
Reflectance %	17	17	18	18	22	21	19	21
Solar heat gain coefficient (G-value)	,47	,46	,39	,37	,21	,28	,34	,24
Light to solar heat gain ratio (VLT/SHGC)	,82	,83	,91	,93	1,39	1,20	,96	1,28
Total solar energy rejected %	53	54	61	63	79	72	66	76
Total solar energy rejected % @60°	58							
Solar heat gain reduction %	45	45	50	50	49	54	52	53
<b>Thermal energy</b>								
Emissivity	,87	,87	,87	,87	,87	,87	,87	,87
Winter U-factor (W/m <sup>2</sup> °C)	5,7	5,7	2,8	2,8	1,1	1,1	1,8	0,6
Winter heat loss reduction %	0	0	0	0	0	0	0	0
<b>Ultraviolet light</b>								
Blocked @ 300 to 380 nm %	>99	>99	>99	>99	>99	>99	>99	>99
<b>Fade control</b>								
UV Tdw-ISO @ 300 to 700 nm %	26	26	24	24	20	23	22	20
Fade Reduction %	69	68	68	66	64	65	67	66

**IR rejection**

780 to 2500nm	79	80
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**Physical properties**

Thickness (microns)	50	microns
Tensile Strength ASTM D 882	2110	kg/cm <sup>2</sup>
Elongation ASTM D 882	>100	%
Yield Stress (5%) ASTM D 882	1100	kg/cm <sup>2</sup>
Break Strength ASTM D 882	11,0	kg/cm
Yield Strength (5%) ASTM D 882	5,4	kg/cm
Tear Strength (Graves) ASTM D 1004	1,5	kg
Tensile Modulus ASTM D 882	35000	kg/cm <sup>2</sup>
Puncture Strength ASTM D 4830	15,0	kg
Peel Strength ASTM D 903	>985	g/cm
Poisson's Ratio ASTM D 882	0,38	
Abrasion Resistance (100 Cycles) ASTM D 1003-92, ASTM D 1044	<5	%


**Performance results notes:**

Calculated using LBNL Window 7.2 according to EN410 and EN673.

IR rejection = 1 - average unweighted transmittance