

PRODUCT DESCRIPTION	Visible Light			Solar Energy						U-Values (W/m ² .K)			RHG (NFRC)
	LT%	LR%		ET%	ER%	European		American		European EN673	American		W/m2
		Ext	Int			EN410		NFRC*			NFRC*		
						g - value	SC	SHGC	SC		Winter	Summer	
1	2	3	4	5	6	8	10	11	12	13	14	15	
Coating													
ST Green	26	40	3	27	21	38	0.43	37	0.43	5.04	5.07	4.45	306
ST Blue	25	23	17	19	23	31	0.36	32	0.37	4.04	4.76	4.11	265
ST Grey	21	12	7	17	14	32	0.37	32	0.37	4.69	4.71	4.04	265
ST Light Grey	58	9	15	52	7	62	0.71	60	0.69	5.44	5.53	4.95	474
ST Bronze	25	13	7	20	15	34	0.39	34	0.39	4.84	4.86	4.22	279
ST Gold	28	35	5	23	25	34	0.39	34	0.39	4.84	4.85	4.21	279
ST BlueGreen	20	18	18	11	12	27	0.31	27	0.31	4.74	4.76	4.10	227

MEASUREMENTS: Measurements are done at Emirates Glass Laboratory using Perkin Elmer spectrophotometers comprising “Spectrum on FT-IR” for measurement of surface emissivity and “LAMDA 900 UV/Vis/NIR” for measurement of spectral transmission.

INPUT DATA: Input data are given in accordance with boundary conditions established in Europe and North America as follows:

Spectral and Optical : Values are calculated according to:

EUROPE – EN 410 (AIR MASS = 1.00: SOLAR ELEVATION = 90°)

USA – NFRC 300/200 (AIR MASS = 1.50: SOLAR ELEVATION = 42°)

Thermal Insulation : U-Values are calculated according to:

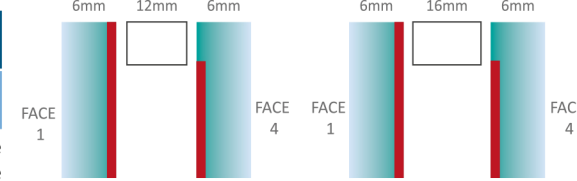
EUROPE - EN 673

USA - NFRC 100

TOLERANCES: The above data represent nominal values based on center-of-glass measurements and take no account of IG spacers or framing. Furthermore, the data are based on representative samples of factory production, but actual samples may vary slightly due to manufacturing tolerances as well as the type of instrumentation and calibration used by 3rd parties to measure the spectral and thermal insulation values.
A slight shift in visible light transmittance or reflectance may be noticed after heat treatment.

NOTE: Edge Deletion - MSVD Low E coatings applied to architectural float glass contain silver which, if the edge is exposed to humidity, can potentially cause failure of the insulating unit seals. Low E coatings containing silver and double silver products must therefore always be edge deleted prior to the application of primary and secondary sealants in order to maintain the integrity of the unit.

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		Ext	Int			g - value		SC		SHGC		SC		12mm air	16mm air	12mm air	16mm air		Winter	Summer
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Coating						12mm air	16mm air	12mm air	16mm air	12mm air	16mm air	12mm air	16mm air	12mm air	16mm air	12mm air	16mm air	12mm air	16mm air	
ST Green	19	41	9	15	22	25	25	0.29	0.29	23	23	0.27	0.27	1.85	1.63	1.85	1.88	1.86	1.64	185
ST Blue	18	23	16	11	23	21	20	0.24	0.23	19	19	0.22	0.22	1.84	1.62	1.84	1.87	1.84	1.62	153
ST Grey	15	13	11	10	14	20	19	0.23	0.22	18	18	0.21	0.21	1.84	1.62	1.84	1.87	1.84	1.62	147
ST Light Grey	42	10	15	29	11	45	45	0.51	0.51	41	41	0.48	0.48	1.87	1.65	1.86	1.89	1.87	1.65	317
ST Bronze	18	14	10	12	16	22	22	0.25	0.25	20	20	0.23	0.23	1.84	1.62	1.84	1.87	1.85	1.63	159
ST Gold	20	35	9	13	25	23	23	0.26	0.26	21	21	0.24	0.24	1.84	1.62	1.84	1.87	1.85	1.62	166
ST BlueGreen	14	18	16	7	12	15	15	0.18	0.17	13	13	0.15	0.15	1.84	1.62	1.84	1.87	1.84	1.62	109

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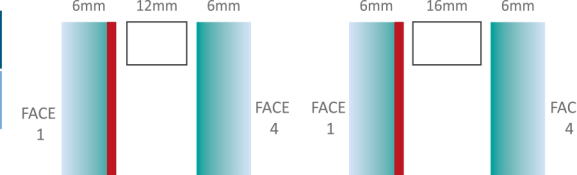
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						12mm air	16mm air	12mm air	16mm air	12mm air	16mm air	12mm air	16mm air						12mm air	16mm air		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
Coating																						
ST Green	23	41	11	21	21	29	29	0.33	0.33	27	27	0.32	0.32	2.56	2.42	2.34	2.34	2.44	2.30	221		
ST Blue	23	23	22	16	23	24	23	0.27	0.27	22	22	0.25	0.25	2.44	2.29	2.26	2.27	2.35	2.20	176		
ST Grey	19	13	13	14	14	23	23	0.26	0.26	21	21	0.24	0.24	2.42	2.27	2.24	2.25	2.33	2.17	170		
ST Light Grey	52	12	20	43	10	51	51	0.59	0.59	49	49	0.57	0.57	2.71	2.59	2.44	2.44	2.56	2.43	379		
ST Bronze	22	14	14	17	15	25	25	0.29	0.29	23	23	0.26	0.26	2.48	2.34	2.28	2.29	2.38	2.23	183		
ST Gold	25	36	12	19	25	26	26	0.30	0.30	24	24	0.28	0.28	2.48	2.33	2.28	2.29	2.38	2.23	195		
ST BlueGreen	18	18	22	9	12	18	17	0.21	0.20	15	15	0.18	0.18	2.44	2.29	2.25	2.27	2.35	2.19	132		

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