

## Sound Control Performance Data

	Nominal Glass Thickness		dB Sound Reduction Index By Octave Band - Hz						
	in.	mm	125	250	500	1000	2000	4000	STC
Pilkington <b>Optiphon™</b>									
	5/16	8.8	30	30	32	36	38	43	36
	3/8	10.8	31	32	33	37	38	47	37
Monolithic Clear Glass									
	3/8	10	26	28	31	32	35	43	34
	5/16	8	20	24	29	34	29	37	32
	1/4	6	18	23	30	35	27	32	31
Clear Insulating Unit*									
	1/4	6	20	18	28	38	34	38	31

<sup>1</sup> Laboratory measured to the ISO 140-3 standard. Monolithic, unlaminate clear glass tested.

<sup>1</sup> Laboratory measured to the ASTM E90-09 standard. Other configurations are available through special order.

\* Insulating glass unit constructed of two lites of equal glass thickness and 1/2" (12.7 mm) airspace.

## Insulating Glass Unit Performance Data<sup>1,10</sup>

	Nominal Glass Thickness		Visible Light <sup>2</sup>			Solar Energy <sup>2</sup>			U-Factor <sup>5</sup>			Solar Heat Gain Coefficient <sup>7</sup>	Shading Coefficient <sup>8</sup>
			Transmittance <sup>3</sup> %	Reflectance <sup>4</sup> %		Transmittance <sup>3</sup> %	Reflectance <sup>4</sup> %	UV Transmittance <sup>2</sup> %	U.S. Summer*	U.S. Winter*	European <sup>6**</sup>		
	in.	mm		Outside	Inside								
Pilkington Uncoated Float Glass outer lite and Pilkington <b>Optifloat™</b> Clear inner lite													
Clear	3/32	2	83	15	15	79	14	70	0.51	0.48	2.8	0.82	0.94
	1/8	3	83	15	15	77	14	67	0.51	0.48	2.8	0.81	0.93
	5/32	4	82	15	15	75	14	64	0.50	0.48	2.8	0.79	0.91
	3/16	5	79	15	15	64	12	50	0.50	0.48	2.8	0.73	0.83
	1/4	6	78	15	15	61	12	47	0.50	0.47	2.8	0.71	0.81
Green	1/4	6	68	12	14	38	8	23	0.50	0.47	2.8	0.49	0.56
Blue-Green	1/4	6	67	12	14	39	8	26	0.50	0.47	2.8	0.50	0.58
Bronze	1/8	3.2	62	10	13	57	10	33	0.51	0.48	2.8	0.64	0.73
	3/16	5	53	9	13	45	8	23	0.50	0.48	2.8	0.55	0.64
	1/4	6	45	8	12	38	7	18	0.50	0.47	2.8	0.50	0.58
Grey	1/8	3.2	55	9	13	52	9	31	0.51	0.48	2.8	0.59	0.68
	3/16	5	45	8	13	39	7	21	0.50	0.48	2.8	0.50	0.58
	1/4	6	39	7	12	32	6	17	0.50	0.47	2.8	0.45	0.52
Pilkington <b>Graphite Blue™</b>	1/4	6	54	9	13	43	8	29	0.50	0.47	2.8	0.55	0.63
	5/16	8	47	8	13	35	7	23	0.49	0.47	2.8	0.48	0.55
Pilkington <b>EverGreen™</b> High Performance Tint	1/8	3	70	12	14	43	8	24	0.51	0.48	2.8	0.52	0.60
	3/16	5	65	11	14	35	7	18	0.50	0.48	2.8	0.46	0.53
	1/4	6	58	10	13	28	6	11	0.50	0.47	2.8	0.40	0.46
Pilkington <b>Arctic Blue™</b> High Performance Tint	5/32	4	59	10	13	40	7	28	0.50	0.48	2.8	0.49	0.57
	1/4	6	47	8	13	27	6	17	0.50	0.47	2.8	0.40	0.46
	5/16	8	37	7	12	20	5	10	0.49	0.47	2.8	0.34	0.39
Pilkington <b>SuperGrey™</b> High Performance Tint	1/8	3	23	5	12	20	5	6	0.51	0.48	2.8	0.33	0.38
	3/16	5	11	4	12	9	4	2	0.50	0.48	2.8	0.24	0.28
	1/4	6	8	4	11	6	4	1	0.50	0.47	2.8	0.22	0.25

An insulating unit consists of two lites of equal glass thickness, and a 1/2 in. (12.7 mm) airspace.

\*U.S. U-Factor (Btu/hr.sq ft. °F) is based on NFRC/ASTM standards, \*\*European U-Factor (W/sq m K) is based on EN 410/673 (CEN) standard.

All performance values are center-of-glass values calculated using the LBNL Window 6.3 program. See Pilkington Architectural Product Guide for explanation of references - <sup>1,10</sup>.