

Monolithic Glass Standards and Sizes

Quality Levels	Nominal Glass Thickness		Approximate Weight ⁴		Thickness Tolerance Range ¹				Maximum Standard Size ^{2,3}	
	in.	mm	lb/ft ²	kg/m ²	in.		mm		in.	mm
					min.	max.	min.	max.		
Pilkington Optifloat™ Clear, Pilkington Activ™ , Pilkington Energy Advantage™ , Pilkington Solar-E™ Plus, Pilkington OptiView™* , and Pilkington OptAR™										
Q3	3/32	2.5	1.2	6	0.085	0.101	2.16	2.57	96 x 130	2438 x 3302
	1/8	3	1.6	8	0.115	0.134	2.92	3.40	102 x 130	2591 x 3302
	5/32	4	2.1	10	0.149	0.165	3.78	4.19	130 x 180	3302 x 4572
Q1/Q3	3/16	5	2.5	12	0.180	0.199	4.57	5.05	130 x 204	3302 x 5182
Q2/Q3	1/4	6	3.1	15	0.219	0.244	5.56	6.20		
Pilkington Optifloat™ Heavy Clear, Pilkington Energy Advantage™**** , and Pilkington Solar-E™****										
Q3	5/16	8	4.1	20	0.292	0.332	7.42	8.43	130 x 204	3302 x 5182
	3/8	10	5.2	25	0.355	0.406	9.02	10.31		
		1/2	12	6.6	32	0.469	0.531	11.91	13.49	130 X 204
Pilkington Optifloat™ Heavy Clear										
Q3	5/8	16	8.2	40	0.595	0.656	15.09	16.66	130 X 204	3302 X 5182
	3/4	19	9.9	48	0.719	0.781	18.26	19.84		
Pilkington Optifloat™ Heavy Grey or Bronze										
Q3	5/16	8	4.1	20.3	0.303	0.327	7.70	8.30	130 x 204	3302 x 5182
	3/8	10	5.2	25.4	0.382	0.406	9.70	10.30		
		1/2	12	6.6	32.0	0.469	0.531	11.91	13.49	130 x 204
Pilkington Optifloat™ Grey or Bronze										
Q3	1/8	3.2	1.6	8.0	0.115	0.134	2.92	3.40	102 x 130	2591 x 3302
	3/16	5	2.6	12.7	0.189	0.205	4.80	5.20	130 x 204	3302 x 5182
	1/4	6	3.1	15.2	0.228	0.244	5.80	6.20	130 x 204	3302 x 5182
Pilkington Optifloat™ Heavy Blue-Green										
Q3	5/16	8	4.1	20.3	0.303	0.327	7.70	8.30	130 x 204	3302 x 5182
	3/8	10	5.2	25.4	0.382	0.406	9.70	10.30		
Pilkington Optifloat™ Blue-Green, Green, Pilkington EverGreen™ , Pilkington Graphite Blue™ , and Pilkington SuperGrey™										
Q3	1/8	3.2	1.6	8.0	0.115	0.134	2.92	3.40	102 x 130	2591 x 3302
	3/16	5	2.6	12.7	0.189	0.205	4.80	5.20	130 x 204	3302 x 5182
	1/4	6	3.1	15.2	0.228	0.244	5.80	6.20	130 x 204	3302 x 5182
Pilkington Arctic Blue™ High Performance Tint										
Q3	5/32	4	2.1	10.1	0.150	0.165	3.80	4.20	130 x 180	3302 x 4572
	1/4	6	3.1	15.2	0.228	0.244	5.80	5.80	130 x 204	3302 x 5182
	3/8	10	5.2	25.4	0.382	0.406	9.70	10.30	130 x 204	3302 x 5182
Pilkington Eclipse Advantage™ , Pilkington Mirropane™ and Pilkington MirroView™										
Q3	1/4	6	3.1	15.2	0.228	0.244	5.80	6.20	130 x 204	3302 x 5182
Pilkington Optiwhite™										
Q3	1/8	3.2	1.6	8.0	0.115	0.134	2.92	3.40	96x130	2438x3302
	3/16	5	2.5	12	0.180	0.199	4.57	5.05		
	1/4	6	3.1	15.2	0.228	0.244	5.80	6.20		
	5/16	8	4.1	20.3	0.303	0.327	7.70	8.30	130 x 204	3302 x 5182
	3/8	10	5.2	25	0.355	0.406	9.02	10.31		
	1/2	12	6.6	32	0.469	0.531	11.91	13.49		
	5/8	15	7.8	38.0	0.571	0.61	14.50	15.50		
	3/4	19	9.8	48.2	0.709	0.787	18.0	20.0		
Pilkington Texture Glass (all products except as noted below)										
EN 572-5	5/32	4	2.1	10.1	0.143	0.172	3.62	4.37	52.0 x 84.0	1320 x 2140
	1/4	6	3.1	15.2	0.224	0.256	5.70	6.50		
Pilkington Texture Glass Reeded™										
EN 572-5	5/32	4	2.1	10.1	0.143	0.172	3.62	4.37	52.0 x 83.9	1320 x 2130
Pilkington Texture Glass Austral™ and Morisco™										
EN 572-5	5/32	4	2.1	10.1	0.143	0.172	3.62	4.37	63.0 x 98.0	1600 x 2500
Pilkington Texture Glass Rayado™ , Sparkel™ and Yacare™										
EN 572-5	5/32	4	2.1	10.1	0.143	0.172	3.62	4.37	57.0 x 98.0	1450 x 2500
EN 572-5	3/16	5	2.6	12.7	0.173	0.213	4.39	5.42	63.0 x 98.0	1600 x 2500

- Per ASTM C 1036; with exception of Pilkington Texture Glass
 - Size listed may, in some cases, be too large to meet applicable static load requirements.
 - Certain other thicknesses and sizes may be available upon request
 - Based on the mean of the thickness range. Note glass density = 158 lb./cu. ft.
 - Coated glasses meet quality level of ASTM C 1376
- * Pilkington **OptiView™** is not available in 3/32" (2.5 mm). ** Pilkington **Optifloat™** Blue-Green: 1/8" (3.2 mm) and 3/16" (5 mm) are not standard products. Subject to availability.
 *** The largest size for Pilkington **Energy Advantage™** 1/2" (12 mm) is 130 x 204. **** Pilkington **Solar-E™** is not available in 1/2" (12 mm).

Uncoated Monolithic Glass Performance Data^{1,10}

	Nominal Glass Thickness		Visible Light ²			Solar Energy ²			U-Factor ⁵			Solar Heat Gain Coefficient ⁷	Shading Coefficient ⁸
	in.	mm	Transmittance ³ %	Reflectance ⁴ %		Transmittance ³ %	Reflectance ⁴ %	UV Transmittance ² %	U.S. Summer*	U.S. Winter*	European**		
				Outside	Inside								
Pilkington Optifloat™ Clear													
	3/32	2.5	91	8	8	89	8	82	0.95	1.05	5.8	0.90	1.03
	1/8	3	91	8	8	88	8	80	0.94	1.04	5.8	0.89	1.02
	5/32	4	90	8	8	86	8	78	0.94	1.04	5.8	0.88	1.01
	3/16	5	89	8	8	80	7	65	0.93	1.03	5.7	0.83	0.96
	1/4	6	88	8	8	77	7	63	0.93	1.03	5.7	0.82	0.94
	5/16	8	87	8	8	73	7	57	0.92	1.01	5.6	0.79	0.91
	3/8	10	86	8	8	70	7	54	0.91	1.00	5.6	0.77	0.88
	1/2	12	84	8	8	64	6	49	0.89	0.98	5.5	0.73	0.84
	5/8	16	83	8	8	59	6	45	0.88	0.97	5.4	0.70	0.81
	3/4	19	81	7	7	55	6	41	0.86	0.95	5.3	0.67	0.78
Pilkington Optiwhite™ low iron													
	1/8	3	91	9	9	91	8	88	0.94	1.04	5.8	0.91	1.04
	5/32	4	91	9	9	90	8	87	0.94	1.04	5.8	0.91	1.04
	3/16	5	91	9	9	90	8	86	0.93	1.03	5.7	0.91	1.04
	1/4	6	91	9	9	90	8	85	0.93	1.02	5.7	0.90	1.04
	5/16	8	91	9	9	89	8	84	0.92	1.01	5.6	0.90	1.03
	3/8	10	91	9	9	88	8	83	0.91	1.00	5.6	0.89	1.03
	1/2	12	90	9	9	88	8	81	0.89	0.99	5.5	0.89	1.02
	5/8	15	90	9	9	86	8	77	0.88	0.97	5.4	0.88	1.01
	3/4	19	90	8	8	86	8	78	0.86	0.95	5.3	0.88	1.01
Pilkington Optifloat™ Tints													
Green	1/4	6	76	7	7	46	5	29	0.93	1.03	5.7	0.61	0.70
Blue-Green	1/4	6	75	7	7	48	6	32	0.93	1.02	5.7	0.62	0.72
	5/16	8	70	7	7	40	5	25	0.92	1.01	5.6	0.57	0.66
	3/8	10	67	6	6	36	5	21	0.91	1.00	5.6	0.54	0.63
Bronze	1/8	3	68	6	6	65	6	37	0.94	1.04	5.8	0.73	0.84
	3/16	5	59	6	6	55	6	28	0.93	1.03	5.7	0.67	0.77
	1/4	6	51	6	6	48	5	22	0.93	1.02	5.7	0.62	0.72
	5/16	8	44	5	5	39	5	16	0.92	1.01	5.6	0.57	0.65
	3/8	10	39	5	5	34	5	13	0.91	1.00	5.6	0.53	0.61
	1/2	12	29	5	5	25	4	8	0.89	0.98	5.5	0.48	0.55
Grey	1/8	3	61	6	6	59	6	35	0.94	1.04	5.8	0.69	0.80
	3/16	5	50	6	6	48	5	26	0.93	1.03	5.7	0.62	0.71
	1/4	6	44	5	5	41	5	21	0.93	1.02	5.7	0.58	0.66
	5/16	8	33	5	5	31	5	14	0.92	1.01	5.6	0.51	0.59
	3/8	10	28	5	5	26	5	11	0.91	1.00	5.6	0.48	0.55
	1/2	12	19	4	4	17	4	7	0.89	0.98	5.5	0.42	0.49
Pilkington Graphite Blue™													
	1/4	6	61	6	6	54	6	37	0.93	1.02	5.7	0.67	0.77
	5/16	8	54	6	6	46	5	30	0.92	1.01	5.6	0.61	0.70
	3/8	10	47	5	5	39	5	25	0.91	1.00	5.6	0.57	0.65
Pilkington EverGreen™ High Performance Tint													
	1/8	3	76	7	7	49	6	27	0.94	1.04	5.8	0.63	0.72
	1/4	6	66	6	6	33	5	14	0.93	1.02	5.7	0.53	0.60
Pilkington Arctic Blue™ High Performance Tint													
	5/32	4	65	6	6	45	5	31	0.94	1.04	5.8	0.60	0.69
	1/4	6	53	6	6	33	5	20	0.93	1.02	5.7	0.52	0.60
	5/16	8	42	5	6	25	5	13	0.92	1.01	5.6	0.47	0.54
	3/8	10	41	5	5	21	5	13	0.91	1.00	5.6	0.45	0.52
Pilkington SuperGrey™ High Performance Tint													
	1/8	3	25	5	5	23	4	6	0.94	1.04	5.8	0.45	0.52
	3/16	5	12	4	4	11	4	2	0.93	1.03	5.7	0.38	0.44
	1/4	6	9	4	4	8	4	1	0.93	1.03	5.7	0.36	0.41
	1/4	6	9	4	4	8	4	1	0.93	1.03	5.7	0.36	0.41

*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 page 51 for explanation of references - 1, 10.

Coated Monolithic Glass Performance Data^{1,10}

	Nominal Glass Thickness		Visible Light ²			Solar Energy ²			U-Factor ⁵			Solar Heat Gain Coefficient ⁷	Shading Coefficient ⁸
	in.	mm	Transmittance ³ %	Reflectance ⁴ %		Transmittance ³ %	Reflectance ⁴ %	UV Transmittance ² %	U.S. Summer*	U.S. Winter*	European ^{6**}		
				Outside	Inside								
Pilkington Energy Advantage™ thermal control low-e (coating on #2 surface)													
	3/32	2.5	84	11	11	75	11	67	0.50	0.66	3.7	0.77	0.89
	1/8	3	84	11	11	74	11	66	0.50	0.65	3.7	0.77	0.88
	5/32	4	84	11	11	73	11	64	0.50	0.65	3.7	0.76	0.87
	3/16	5	83	11	12	68	10	53	0.49	0.65	3.7	0.71	0.82
	1/4	6	82	10	11	66	10	49	0.49	0.64	3.6	0.70	0.81
	5/16	8	81	10	11	62	9	45	0.49	0.64	3.6	0.67	0.77
	3/8	10	80	10	11	59	9	42	0.49	0.63	3.6	0.65	0.75
	1/2	12	79	10	11	56	8	42	0.49	0.63	3.6	0.63	0.73
Pilkington Solar-E™ solar control low-e (coating on #2 surface)													
Clear	1/8	3	60	8	9	46	8	48	0.50	0.66	3.7	0.54	0.63
	5/32	4	60	8	9	45	8	46	0.50	0.65	3.7	0.54	0.62
	3/16	5	60	7	9	44	7	44	0.50	0.65	3.7	0.53	0.61
	1/4	6	60	8	9	44	7	44	0.50	0.65	3.7	0.53	0.61
	5/16	8	59	8	9	42	7	41	0.50	0.64	3.7	0.52	0.59
	3/8	10	60	8	9	40	7	38	0.49	0.64	3.6	0.50	0.58
EverGreen	1/4	6	45	6	9	20	5	8	0.50	0.65	3.7	0.35	0.40
	5/16	8	40	7	9	16	5	5	0.50	0.64	3.7	0.32	0.36
Pilkington Solar-E™ Plus solar control low-e (coating on #2 surface)													
Grey	1/4	6	24	5	9	19	5	12	0.50	0.65	3.7	0.34	0.39
	5/16	8	19	5	8	15	5	9	0.50	0.65	3.7	0.31	0.36
Blue-Green	1/4	6	41	6	9	24	5	19	0.50	0.65	3.7	0.38	0.43
	5/16	8	39	6	9	21	5	15	0.50	0.65	3.7	0.35	0.40
Graphite Blue	1/4	6	35	6	9	28	5	23	0.50	0.65	3.7	0.41	0.47
	5/16	8	30	6	9	23	5	18	0.50	0.65	3.7	0.37	0.43
Arctic Blue	1/4	6	30	5	8	17	5	11	0.50	0.65	3.7	0.32	0.37
	5/16	8	27	6	8	14	5	9	0.50	0.65	3.7	0.30	0.35
Pilkington Eclipse Advantage™ solar control low-e (coating on #2 surface)													
Clear	1/4	6	67	25	28	58	19	30	0.53	0.67	3.7	0.62	0.72
	5/16	8	66	25	28	55	17	29	0.53	0.67	3.7	0.60	0.69
Blue-Green	1/4	6	56	19	27	35	11	16	0.53	0.67	3.7	0.46	0.53
	5/16	8	53	17	27	30	10	13	0.53	0.67	3.7	0.42	0.48
EverGreen	1/4	6	48	15	27	23	8	7	0.53	0.67	3.7	0.37	0.43
	5/16	8	43	13	27	18	7	4	0.53	0.67	3.7	0.34	0.39
Arctic Blue	1/4	6	39	12	27	23	8	10	0.53	0.67	3.7	0.37	0.42
	5/16	8	32	10	27	17	7	7	0.53	0.67	3.7	0.33	0.38
Bronze	1/4	6	38	11	27	35	10	11	0.53	0.67	3.7	0.46	0.53
	5/16	8	31	9	26	28	8	8	0.53	0.67	3.7	0.41	0.47
Grey	1/4	6	32	10	27	29	8	10	0.53	0.67	3.7	0.42	0.48
	5/16	8	25	8	27	22	7	7	0.53	0.67	3.7	0.37	0.42
Pilkington Eclipse™ Gold (coating on #2 surface)													
	1/4	6	40	36	45	45	25	9	0.93	1.02	5.7	0.54	0.62
	5/16	8	40	34	44	42	23	8	0.92	1.01	5.6	0.53	0.61
Pilkington Eclipse™ Sunset Gold (coating on #2 surface)													
	1/4	6	24	16	44	30	12	3	0.93	1.02	5.7	0.48	0.55
Pilkington Activ™ self-cleaning (coating on #1 surface)													
Clear	1/8	3	84	15	15	80	12	49	0.94	1.04	5.8	0.82	0.95
	5/32	4	83	15	15	79	12	47	0.94	1.04	5.8	0.81	0.93
	1/4	6	82	15	15	75	12	44	0.93	1.02	5.7	0.79	0.90
Blue	1/4	6	49	14	9	32	11	14	0.93	1.02	5.7	0.50	0.57

*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 page 51 for explanation of references - ^{1,10}.