









Photos compliments of Intraco USA

Pilkington **Solar-E™** and Pilkington **Solar-E™** Plus

Glazing our way into the future

With all the benefits of a pyrolytic low-e, it's hard to imagine making it even better.

The Pilkington **Solar-E**[™] Plus low-e coating provides the lowest solar heat gain coefficient (SHGC) of any pyrolytic family of products.

With a slightly deeper tint and improved solar performance, as noted by a lower SHGC, the Pilkington **Solar-E™** Plus tints are perfect for any new commercial building project or renovation. This range of tints includes Grey, Blue-Green, Graphite Blue, and Arctic Blue.

Pilkington **Solar-E**[™] and Pilkington **Solar-E**[™] Plus coatings offers low solar heat gain, low reflectivity, and glare control, which all contribute to sustainable commerical construction.

Pilkington **Solar-E™** Plus can help earn LEED® or any other green building certification. Sustainability credits can be achieved through improvements in proposed building performance ratings for new and renovated buildings.

Features and Benefits

- The low-e coating reduces the emissivity of glass and lowers the U-factor.
- Low SHGC values result in utility cost savings.
- Provides good visible light transmittance, helping to reduce the need for interior lighting.
- Low internal/external reflection, reducing sun glare and the need for blinds and shades.
- Low UV (ultraviolet) transmittance, reducing UV rays results in less fading.
- For further improved thermal control, add
 Pilkington Energy Advantage[™] low-e to an insulated unit (coating on the #4 surface).
- Can be laminated, toughened, bent and enameled using standard techniques.

Monolithic Performance Data^{1,10}

	Nominal Glass Thickness		Visible Light ²			S	olar Energ	JY²		U-Factor⁵			
		mm	ce³ %	Reflectance ⁴		ce³ %	e4 %	tance ²	ner*	*	**9_	olar Heat Gair Coefficient ⁷	Shading Coefficient ^s
	in.		Transmittance ³	Outside	Inside	Transmittance ³ %	Reflectance ⁴ %	UV Transmittance ²	U.S. Summer*	U.S. Winter*	European ^{6**}	Solar Heat Gain Coefficient ⁷	Sha
Pilkington Solar-E				<u> </u>	· ·								
	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
Clear	3/16	5	60	7	9	44	7	44	0.50	0.65	3.7	0.53	0.61
Cicai	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
EverGreen	5/16	8	40	7	9	16	5	5	0.50	0.64	3.7	0.32	0.36
Pilkington Solar-E	™ Plus so	olar contro	ol low-e (c	coating on	#2 surfa	ce)							
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
Dide-Green	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

Insulating Glass Unit Performance Data^{1,10}

Pikington Solar-E*** outer lite (costing on #2 surface) and Pikington Optificate** Clear inner lite		Nominal Glass Thickness		Visible Light ²			Solar Energy ²			U-Factor ⁵							
Pilkington Solar-E*** outer Ite (costing on #2 surface) and Pilkington Pilk		ii mu						e4 %	nce² %			U.S. Winter*		European ^{6**}		eat Gair cient?	ling cient ⁸
Clear			mm	Transmittan	Outside	Inside	Transmittan	Reflectanc	UV Transmitta	Air	Argon	Air	Argon	Air	Argon	Solar He Coeffi	Shad
Clear	Pilkington Solar-E™ outer lite (coating on #2 surface) and Pilkington Optifloat™ Clear inner lite																
Second File	Cloar	1/4	6	53	10	15	34	9	31	0.33	0.28	0.33	0.29	1.8	1.5	0.43	0.50
Figure F	Cledi	5/16	8	52	10	15	32	8	29	0.33	0.28	0.33	0.29	1.8	1.5	0.43	0.49
Pikington Solar-E*** Prival Priva	FuerCreen	1/4	6	40	8	15	17	6	7	0.33	0.28	0.33	0.29	1.8	1.5	0.26	0.30
Secondary 1/4 6	EverGreen	5/16	8	35	8	15	14	6	4	0.33	0.28	0.33	0.29	1.8	1.5	0.23	0.27
Grey 5/16 8 17 6 14 12 5 7 0.33 0.28 0.33 0.29 1.8 1.5 0.23 0.26 Blue-Green 1/4 6 37 8 15 20 6 15 0.33 0.28 0.33 0.29 1.9 1.6 0.30 0.34 67aphite Blue 1/4 6 31 7 15 17 6 12 0.33 0.28 0.33 0.29 1.8 1.5 0.27 0.31 67aphite Blue 1/4 6 31 7 15 18 6 14 0.33 0.28 0.33 0.29 1.8 1.5 0.22 0.23 Arctic Blue 1/4 6 27 6 14 14 5 9 0.33 0.28 0.33 0.29 1.8 1.5 0.22 0.25 Pill Interpretable 1/4 6 49 11 <td< td=""><td colspan="15">Pilkington Solar-E™ Plus outer lite (coating on #2 surface) and Pilkington Optifloat™ Clear inner lite</td></td<>	Pilkington Solar-E™ Plus outer lite (coating on #2 surface) and Pilkington Optifloat™ Clear inner lite																
Blue-Green		1/4	6	21	6	15	16	6	10	0.33	0.28	0.33	0.29	1.9	1.6	0.26	0.30
Blue-Green S/16	Grey	5/16	8	17	6	14	12	5	7	0.33	0.28	0.33	0.29	1.8	1.5	0.23	0.26
S/16 8 34 7 15 17 6 12 0.33 0.28 0.33 0.29 1.8 1.5 0.27 0.31	DI C	1/4	6	37	8	15	20	6	15	0.33	0.28	0.33	0.29	1.9	1.6	0.30	0.34
Graphite Blue 5/16 8 26 7 15 18 6 14 0.33 0.28 0.33 0.29 1.8 1.5 0.28 0.33 Arctic Blue 1/4 6 27 6 14 14 5 9 0.33 0.28 0.33 0.29 1.8 1.5 0.22 0.25 Pilkington Solar-E™ (coating on #2 surface) outer lite and Pilkington Energy Advantage™ Low-e (coating on the #4 surface) inner lite³ Clear 1/4 6 49 11 17 32 9 26 0.24 0.22 0.26 0.23 1.6 1.3 0.41 0.47 Clear 1/4 6 37 8 17 16 6 5 0.24 0.22 0.26 0.23 1.5 1.3 0.41 0.47 EverGreen 1/4 6 37 8 17 12 6 3 0.24 0.21 0.26 0.23 1.5 </td <td>Blue-Green</td> <td>5/16</td> <td>8</td> <td>34</td> <td>7</td> <td>15</td> <td>17</td> <td>6</td> <td>12</td> <td>0.33</td> <td>0.28</td> <td>0.33</td> <td>0.29</td> <td>1.8</td> <td>1.5</td> <td>0.27</td> <td>0.31</td>	Blue-Green	5/16	8	34	7	15	17	6	12	0.33	0.28	0.33	0.29	1.8	1.5	0.27	0.31
Arctic Blue 1/4 6 27 6 14 14 5 9 0.33 0.28 0.33 0.29 1.8 1.5 0.28 0.33 1/4 6 27 6 14 14 5 9 0.33 0.28 0.33 0.29 1.9 1.6 0.24 0.27 5/16 8 24 6 14 12 5 7 0.33 0.28 0.33 0.29 1.8 1.5 0.22 0.25 Pilkington Solar-E TM (coating on #2 surface) outer lite and Pilkington Energy Advantage TM Low-e (coating on the #4 surface) inner lite* Clear 1/4 6 49 11 17 32 9 26 0.24 0.22 0.26 0.23 1.6 1.3 0.41 0.47 5/16 8 48 11 17 29 9 23 0.24 0.21 0.26 0.23 1.5 1.3 0.40 0.45 EverGreen 1/4 6 37 8 17 16 6 5 0.24 0.22 0.26 0.23 1.5 1.3 0.24 0.27 Pilkington Solar-E TM Plus (coating on #2 surface) outer lite and Pilkington Energy Advantage TM Low-e (coating on the #4 surface) inner lite* Grey 1/4 6 20 6 17 14 6 8 0.25 0.22 0.26 0.23 1.6 1.3 0.20 0.23 Blue-Green 1/4 6 34 8 17 18 6 12 0.25 0.22 0.26 0.23 1.6 1.3 0.27 0.31 Blue-Green 1/4 6 29 7 17 20 6 14 0.25 0.22 0.26 0.23 1.6 1.3 0.24 0.28 Graphite Blue 1/4 6 29 7 17 20 6 14 0.25 0.22 0.26 0.23 1.6 1.3 0.29 0.34 Arctic Blue 1/4 6 25 6 16 16 6 11 0.24 0.22 0.26 0.23 1.6 1.3 0.29 0.34 Arctic Blue 1/4 6 25 6 16 16 6 11 0.24 0.22 0.26 0.23 1.6 1.3 0.20 0.25 Arctic Blue 1/4 6 25 6 16 16 6 11 0.24 0.22 0.26 0.23 1.6 1.3 0.26 0.29 Arctic Blue 1/4 6 25 6 16 16 6 17 0.25 0.22 0.26 0.23 1.6 1.3 0.26 0.29 Arctic Blue 1/4 6 25 6 16 16 6 17 0.25 0.22 0.26 0.23 1.6 1.3 0.21 0.25 Arctic Blue 1/4 6 25 6 16 16 6 17 0.25 0.22 0.26 0.23 1.6 1.3 0.21 0.25 Arctic Blue 1/4 6 25 6 16 16 6 17 0.25 0.22 0.26 0.23 1.6	Graphite Blue	1/4	6	31	7	15	22	6	18	0.33	0.28	0.33	0.29	1.9	1.6	0.32	0.37
Arctic Blue 5/16 8 24 6 14 12 5 7 0.33 0.28 0.33 0.29 1.8 1.5 0.22 0.25 Pilkington Solar-E™ (coating on #2 surface) outer lite and Pilkington Energy Advantage™ Low-e (coating on the #4 surface) inner lite³ Clear 1/4 6 49 11 17 32 9 26 0.24 0.22 0.26 0.23 1.6 1.3 0.41 0.47 EverGreen 1/4 6 37 8 17 16 6 5 0.24 0.22 0.26 0.23 1.6 1.3 0.40 0.45 EverGreen 1/4 6 37 8 17 12 6 3 0.24 0.22 0.26 0.23 1.6 1.3 0.21 0.24 Pilkington Solar-E™ Plus (coating on #2 surface) outer lite and Pilkington Energy Advantage™ Low-e (coating on the #4 surface) inner lite³ Greey 1/4 6 20 6		5/16	8	26	7	15	18	6	14	0.33	0.28	0.33	0.29	1.8	1.5	0.28	0.33
S/16 8 24 6 14 12 5 7 0.33 0.28 0.33 0.29 1.8 1.5 0.22 0.25 Pilkington Solar-E™ (coating on #2 surface) outer lite and Pilkington Energy Advantage™ Low-e (coating on the #4 surface) inner lites Clear		1/4	6	27	6	14	14	5	9	0.33	0.28	0.33	0.29	1.9	1.6	0.24	0.27
Clear 1/4 6 49 11 17 32 9 26 0.24 0.22 0.26 0.23 1.6 1.3 0.41 0.47 5/16 8 48 11 17 29 9 23 0.24 0.21 0.26 0.23 1.5 1.3 0.40 0.45 EverGreen 1/4 6 37 8 17 16 6 5 0.24 0.22 0.26 0.23 1.6 1.3 0.24 0.27 5/16 8 33 8 17 12 6 3 0.24 0.21 0.26 0.23 1.5 1.3 0.21 0.24 Fillington Solar-E ^{**} Plus (coating on #2 surface) outer lite and Pilkington Energy Advantage ^{***} Low-e (coating on the #4 surface) inner lite ⁹ Grey 1/4 6 20 6 17 14 6 8 0.25 0.22 0.26 0.23 1.6 1.3 0.23 <td>Arctic Blue</td> <td>5/16</td> <td>8</td> <td>24</td> <td>6</td> <td>14</td> <td>12</td> <td>5</td> <td>7</td> <td>0.33</td> <td>0.28</td> <td>0.33</td> <td>0.29</td> <td>1.8</td> <td>1.5</td> <td>0.22</td> <td>0.25</td>	Arctic Blue	5/16	8	24	6	14	12	5	7	0.33	0.28	0.33	0.29	1.8	1.5	0.22	0.25
Clear 5/16 8 48 11 17 29 9 23 0.24 0.21 0.26 0.23 1.5 1.3 0.40 0.45																	
5/16 8 48 11 17 29 9 23 0.24 0.21 0.26 0.23 1.5 1.3 0.40 0.45	Cloor	1/4	6	49	11	17	32	9	26	0.24	0.22	0.26	0.23	1.6	1.3	0.41	0.47
EverGreen 5/16 8 33 8 17 12 6 3 0.24 0.21 0.26 0.23 1.5 1.3 0.21 0.24 Pilkington Solar-E™ Plus (coating on #2 surface) outer lite and Pilkington Energy Advantage™ Low-e (coating on the #4 surface) inner lite Grey 1/4 6 20 6 17 14 6 8 0.25 0.22 0.26 0.23 1.6 1.3 0.23 0.26 5/16 8 16 6 16 11 5 5 0.24 0.22 0.26 0.23 1.6 1.3 0.20 0.23 1.6 1.3 0.20 0.23 1.6 1.3 0.20 0.23 1.6 1.3 0.20 0.23 1.6 1.3 0.20 0.23 1.6 1.3 0.27 0.31 1.6 1.3 0.27 0.31 1.6 1.3 0.27 0.31 1.6 1.3 0.24 0.28 1.6 1.3 0.24 0.28 1.6 1.3 0.24 0.28 1.6 1.3 0.24 0.28 1.6 1.3 0.24 0.28 1.6 1.3 0.29 0.34 1.6 1.3 0.29 0.34 1.6 1.3 0.29 0.34 1.6 1.3 0.29 0.34 1.6 1.3 0.26 0.29 1.4 0.25 0.25 0.22 0.26 0.23 1.6 1.3 0.26 0.29 1.4 0.25 0.26 0.23 1.6 1.3 0.26 0.29 1.4 0.25 0.26 0.23 1.6 1.3 0.26 0.29 1.4 0.25 0.26 0.23 1.6 1.3 0.26 0.29 1.4 0.25 0.26 0.23 1.6 1.3 0.26 0.29 1.4 0.25 0.26 0.23 1.6 1.3 0.26 0.29 1.4 0.25 0.26 0.23 1.6 1.3 0.26 0.29 1.4 0.25 0.26 0.23 1.6 1.3 0.26 0.29 1.4 0.25 0.26 0.23 1.6 1.3 0.26 0.29 1.4 0.25 0.26 0.23 1.6 1.3 0.26 0.29 1.4 0.25 0.26 0.23 1.6 1.3 0.26 0.29 1.4 0.25 0.26 0.23 1.6 1.3 0.26 0.29 1.4 0.25 0.26 0.23 1.6 1.3 0.26 0.29 1.4 0.25 0.26 0.23 1.6 1.3 0.26 0.29 1.4 0.25 0.26 0.23 1.6 1.3 0.26 0.29 1.4 0.25 0.26 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	Clear	5/16	8	48	11	17	29	9	23	0.24	0.21	0.26	0.23	1.5	1.3	0.40	0.45
5/16 8 33 8 17 12 6 3 0.24 0.21 0.26 0.23 1.5 1.3 0.21 0.24 Pilkington Solar-E™ Plus (coating on #2 surface) outer lite and Pilkington Energy Advantage™ Low-e (coating on the #4 surface) inner lite® 1/4 6 20 6 17 14 6 8 0.25 0.22 0.26 0.23 1.6 1.3 0.23 0.26 5/16 8 16 6 16 11 5 5 0.24 0.22 0.26 0.23 1.6 1.3 0.20 0.23 Blue-Green 1/4 6 34 8 17 18 6 12 0.25 0.22 0.26 0.23 1.6 1.3 0.27 0.31 5/16 8 32 7 16 15 6 9 0.24 0.22 0.26 0.23 1.6 1.3 0.24 0.28 Graphite Blue 1/4 6 29 7 17 20 6 14 0.25 0.22 0.26 0.23 1.6 1.3 0.29 0.34 5/16 8 25 7 16 16 6 11 0.24 0.22 0.26 0.23 1.6 1.3 0.26 0.29 Arctic Blue 1/4 6 25 6 16 13 5 7 0.25 0.22 0.26 0.23 1.6 1.3 0.21 0.25 Arctic Blue 1/4 6 25 6 16 13 5 7 0.25 0.22 0.26 0.23 1.6 1.3 0.21 0.25 Arctic Blue 1/4 6 25 6 16 13 5 7 0.25 0.22 0.26 0.23 1.6 1.3 0.21 0.25 Arctic Blue 1/4 6 25 6 16 13 5 7 0.25 0.22 0.26 0.23 1.6 1.3 0.21 0.25 Arctic Blue 1/4 6 25 6 16 13 5 7 0.25 0.22 0.26 0.23 1.6 1.3 0.21 0.25 Arctic Blue 1/4 6 25 6 16 13 5 7 0.25 0.22 0.26 0.23 1.6 1.3 0.21 0.25 Arctic Blue 1/4 6 25 6 16 13 5 7 0.25 0.22 0.26 0.23 1.6 1.3 0.21 0.25 Arctic Blue 1/4 6 25 6 16 13 5 7 0.25 0.22 0.26 0.23 1.6 1.3 0.21 0.25 Arctic Blue 1/4 6 25 6 16 17 17 17 17 17 17	EverGreen	1/4	6	37	8	17	16	6	5	0.24	0.22	0.26	0.23	1.6	1.3	0.24	0.27
Grey 1/4 6 20 6 17 14 6 8 0.25 0.22 0.26 0.23 1.6 1.3 0.23 0.26		5/16	8	33	8	17	12	6	3	0.24	0.21	0.26	0.23	1.5	1.3	0.21	0.24
Grey 5/16 8 16 6 16 11 5 5 0.24 0.22 0.26 0.23 1.6 1.3 0.20 0.23 Blue-Green 1/4 6 34 8 17 18 6 12 0.25 0.22 0.26 0.23 1.6 1.3 0.27 0.31 5/16 8 32 7 16 15 6 9 0.24 0.22 0.26 0.23 1.6 1.3 0.24 0.28 Graphite Blue 5/16 8 25 7 16 16 6 11 0.24 0.25 0.22 0.26 0.23 1.6 1.3 0.29 0.34 Arctic Blue 1/4 6 25 6 16 13 5 7 0.25 0.22 0.26 0.23 1.6 1.3 0.26 0.29 Arctic Blue 1/4 6 25 6 16 13 5 7 0.25 0.22 0.26 0.23 1.6 1.3 0.21 0.25	Pilkington Solar	-E™ Plus (coating	on #2 s	urface) c	uter lite a	and Pilki	ngton E ı	nergy A	dvantag	e ™ Low-e	(coating o	n the #4 s	urface) ir	ner lite9		
5/16 8 16 6 16 11 5 5 0.24 0.22 0.26 0.23 1.6 1.3 0.20 0.23 0.24 0.25 0.24 0.25	Grey	1/4	6	20	6	17	14	6	8	0.25	0.22	0.26	0.23	1.6	1.3	0.23	0.26
Blue-Green 5/16 8 32 7 16 15 6 9 0.24 0.22 0.26 0.23 1.6 1.3 0.24 0.28 Graphite Blue 5/16 8 25 7 16 16 6 11 0.24 0.22 0.26 0.23 1.6 1.3 0.29 0.34 Arctic Blue 1/4 6 25 6 16 13 5 7 0.25 0.22 0.26 0.23 1.6 1.3 0.26 0.29 Arctic Blue 1/4 6 25 6 16 13 5 7 0.25 0.22 0.26 0.23 1.6 1.3 0.21 0.25		5/16	8	16	6	16	11	5	5	0.24	0.22	0.26	0.23	1.6	1.3	0.20	0.23
5/16 8 32 7 16 15 6 9 0.24 0.22 0.26 0.23 1.6 1.3 0.24 0.28 Graphite Blue 1/4 6 29 7 17 20 6 14 0.25 0.22 0.26 0.23 1.6 1.3 0.29 0.34 5/16 8 25 7 16 16 6 11 0.24 0.22 0.26 0.23 1.6 1.3 0.26 0.29 Arctic Blue 1/4 6 25 6 16 13 5 7 0.25 0.22 0.26 0.23 1.6 1.3 0.21 0.25	Blue-Green	1/4	6	34	8	17	18	6	12	0.25	0.22	0.26	0.23	1.6	1.3	0.27	0.31
Graphite Blue 5/16 8 25 7 16 16 6 11 0.24 0.22 0.26 0.23 1.6 1.3 0.26 0.29 Arctic Blue 1/4 6 25 6 16 13 5 7 0.25 0.22 0.26 0.23 1.6 1.3 0.21 0.25		5/16	8	32	7	16	15	6	9	0.24	0.22	0.26	0.23	1.6	1.3	0.24	0.28
5/16 8 25 7 16 16 6 11 0.24 0.22 0.26 0.23 1.6 1.3 0.26 0.29 1/4 6 25 6 16 13 5 7 0.25 0.22 0.26 0.23 1.6 1.3 0.21 0.25 Arctic Blue	Graphite Blue	1/4	6	29	7	17	20	6	14	0.25	0.22	0.26	0.23	1.6	1.3	0.29	0.34
Arctic Blue		5/16	8	25	7	16	16	6	11	0.24	0.22	0.26	0.23	1.6	1.3	0.26	0.29
Arctic Blue 5/16 8 22 6 16 11 5 5 0.24 0.22 0.26 0.22 1.6 1.2 0.10 0.22	Arctic Blue	1/4	6	25	6	16	13	5	7	0.25	0.22	0.26	0.23	1.6	1.3	0.21	0.25
$\begin{pmatrix} & & & & & & & & & & & & & & & & & & &$		5/16	8	22	6	16	11	5	5	0.24	0.22	0.26	0.23	1.6	1.3	0.19	0.22

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

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 - 1, 10.

Durability of the Coating

Pyrolytic coated glass can be handled, cut, tempered, bent and fabricated into insulating glass units using standard techniques. It has a virtually unlimited shelf-life and can be single glazed, inventoried locally and edge deletion is not required. Also, ceramic frit can be applied or silk screened to the coated surface and it will not oxidize or change color over time.

Applications

- Commerical buildings requiring solar control
- Low/mid/high rise buildings
- Medical/Hospital
- Educational facilities/Schools
- Office buildings
- Retail buildings



^{*}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.

This publication provides only a general description of the product. Further, more detailed, information may be obtained from your local supplier of Pilkington products. It is the responsibility of the user to ensure that the use of this product is appropriate for any particular application and that such use complies with all relevant legislation, standards, codes of practice and other requirements. To the fullest extent permitted by applicable laws, Nippon Sheet Glass Co. Ltd. and its subsidiary companies disclaim all liability for any error in or omission from this publication and for all consequences of relying on it. Pilkington, "Solar-E" "Energy Advantage" "Optifloat" are trademarks owned by Nippon Sheet Glass Co. Ltd, or a subsidiary thereof.



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