

ID : 88
 Name : LBNL Report - 6mm-12mm(air)-6mm Double Glazing
 Tilt : 90.0
 Glazings: 2
 KEFF : 0.117 [W/m-K]
 Width : 23.430 [mm]
 Uvalue : 2.703 [W/m2-K]
 SHGCc : 0.704
 SCc : 0.809
 Tvis : 0.786
 RHG : 532.796 [W/m2]

Layer Data for Glazing System '88 LBNL Report - 6mm-12mm(air)-6mm Double Glazing'

ID	Name	D(mm)	Tsol	1 Rsol	2 Tvis	1 Rvis	2 Tir	1 Emis	2 Keff

Outside									
103	CLEAR_6.DAT	# 5.7	.771	.070	.070	.884	.080	.080	.000
1	Air	12.0							.064
103	CLEAR_6.DAT	# 5.7	.771	.070	.070	.884	.080	.080	.000
									.840
									.840
									1.00
Inside									

Environmental Conditions: 1 NFRC 100-2010

Tout	Tin	WndSpd	Wnd Dir	Solar	Tsky	Esky
(C)	(C)	(m/s)	(W/m2)	(C)		

Uvalue	-18.0	21.0	5.50	Windward	0.0	-18.0
Solar	32.0	24.0	2.75	Windward	783.0	32.0
					1.00	1.00

Optical Properties for Glazing System '88 LBNL Report - 6mm-12mm(air)-6mm Double Glazing'

Angle	0	10	20	30	40	50	60	70	80	90	Hemis
Tvis :	0.786	0.786	0.784	0.779	0.766	0.735	0.663	0.510	0.253	0.000	0.683
Rfvis :	0.144	0.144	0.144	0.147	0.157	0.185	0.253	0.403	0.662	1.000	0.229
Rbvis :	0.144	0.144	0.144	0.147	0.157	0.185	0.253	0.403	0.662	1.000	0.229
Tsol :	0.607	0.606	0.601	0.593	0.577	0.546	0.483	0.362	0.165	0.000	0.510
Rfsol :	0.114	0.114	0.114	0.115	0.123	0.145	0.201	0.328	0.566	1.000	0.184
Rbsol :	0.114	0.114	0.114	0.115	0.123	0.145	0.201	0.328	0.566	1.000	0.184

Abs1 : 0.167 0.168 0.170 0.175 0.182 0.190 0.200 0.209 0.202 0.000 0.185

Abs2 : 0.113 0.113 0.115 0.116 0.118 0.119 0.115 0.101 0.067 0.000 0.111

SHGCc: 0.704 0.703 0.701 0.694 0.680 0.651 0.588 0.459 0.239 0.000 0.609

Tdw-K : 0.524

Tdw-ISO: 0.690

Tuv : 0.463

Temperature Distribution (degrees C)

Winter Summer

Out In Out In

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Lay1 -14.4 -13.8 37.8 38.1

Lay2 6.0 6.6 36.7 36.3

ID : 86
 Name : 3mm clear glass
 Tilt : 90.0
 Glazings: 1
 KEFF : 1.000 [W/m-K]
 Width : 3.048 [mm]
 Uvalue : 5.913 [W/m2-K]
 SHGCc : 0.861
 SCc : 0.989
 Tvis : 0.899
 RHG : 665.580 [W/m2]

Layer Data for Glazing System '86 3mm clear glass'

ID	Name	D(mm)	Tsol	1 Rsol	2 Tvis	1 Rvis	2 Tir	1 Emis	2 Keff

Outside									
102	CLEAR_3.DAT	# 3.0	.834	.075	.075	.899	.083	.083	.000 .840 .840 1.00
Inside									

Environmental Conditions: 1 NFRC 100-2010

Tout	Tin	WndSpd	Wnd Dir	Solar	Tsky	Esky
(C)	(C)	(m/s)	(W/m2)	(C)		

Uvalue	-18.0	21.0	5.50	Windward	0.0	-18.0 1.00
Solar	32.0	24.0	2.75	Windward	783.0	32.0 1.00

Optical Properties for Glazing System '86 3mm clear glass'

Angle	0	10	20	30	40	50	60	70	80	90	Hemis
Tvis :	0.899	0.899	0.898	0.896	0.889	0.870	0.822	0.705	0.441	0.000	0.822
Rfvis :	0.083	0.083	0.083	0.085	0.091	0.109	0.156	0.272	0.536	1.000	0.148
Rbvis :	0.083	0.083	0.083	0.085	0.091	0.109	0.156	0.272	0.536	1.000	0.148
Tsol :	0.834	0.833	0.831	0.827	0.818	0.797	0.749	0.637	0.389	0.000	0.753
Rfsol :	0.075	0.075	0.075	0.077	0.082	0.099	0.143	0.253	0.506	1.000	0.136
Rbsol :	0.075	0.075	0.075	0.077	0.082	0.099	0.143	0.253	0.506	1.000	0.136
Abs1 :	0.091	0.092	0.094	0.096	0.100	0.104	0.108	0.110	0.105	0.000	0.101

SHGCc: 0.861 0.860 0.859 0.855 0.847 0.827 0.781 0.669 0.420 0.000 0.783

Tdw-K : 0.728

Tdw-ISO: 0.842

Tuv : 0.715

Temperature Distribution (degrees C)

Winter Summer

Out In Out In

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Lay1 -10.1 -9.4 32.4 32.3

ID : 87
 Name : 3mm clear glass + Silver 20
 Tilt : 90.0
 Glazings: 1
 KEFF : 0.943 [W/m-K]
 Width : 3.099 [mm]
 Uvalue : 5.480 [W/m2-K]
 SHGCc : 0.216
 SCc : 0.248
 Tvis : 0.163
 RHG : 194.219 [W/m2]

Layer Data for Glazing System '87 3mm clear glass + Silver 20'

ID	Name	D(mm)	Tsol	1	Rsol	2	Tvis	1	Rvis	2	Tir	1	Emis	2	Keff
30083	CLEAR_3+S20.BSA#	3.1	.115	.527	.631	.163	.583	.583	.000	.840	.700	.943			

Environmental Conditions: 1 NFRC 100-2010

	Tout	Tin	WndSpd	Wnd Dir	Solar	Tsky	Esky
	(C)	(C)	(m/s)	(W/m2)	(C)		
Uvalue	-18.0	21.0	5.50	Windward	0.0	-18.0	1.00
Solar	32.0	24.0	2.75	Windward	783.0	32.0	1.00

Optical Properties for Glazing System '87 3mm clear glass + Silver 20'

Angle	0	10	20	30	40	50	60	70	80	90	Hemis
Tvis :	0.163	0.164	0.162	0.159	0.156	0.151	0.138	0.113	0.068	0.000	0.142
Rfvis :	0.583	0.580	0.579	0.581	0.585	0.593	0.608	0.649	0.756	1.000	0.600
Rbvis :	0.583	0.580	0.579	0.581	0.585	0.593	0.609	0.649	0.756	1.000	0.600
Tsol :	0.115	0.115	0.114	0.112	0.110	0.106	0.097	0.079	0.048	0.000	0.100
Rfsol :	0.527	0.523	0.522	0.524	0.529	0.538	0.555	0.601	0.723	1.000	0.547
Rbsol :	0.631	0.628	0.628	0.629	0.633	0.640	0.654	0.689	0.784	1.000	0.645
Abs1 :	0.359	0.362	0.364	0.364	0.361	0.356	0.347	0.319	0.229	0.000	0.343

SHGCc: 0.216 0.217 0.216 0.215 0.212 0.206 0.195 0.169 0.111 0.000 0.196

Tdw-K : 0.081

Tdw-ISO: 0.141

Tuv : 0.011

Temperature Distribution (degrees C)

Winter Summer

Out In Out In

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Lay1 -10.7 -10.0 39.9 40.0

ID : 94
 Name : PR40 on 3mm Clear Glass
 Tilt : 90.0
 Glazings: 1
 KEFF : 0.983 [W/m-K]
 Width : 5.716 [mm]
 Uvalue : 5.640 [W/m2-K]
 SHGCc : 0.412
 SCc : 0.474
 Tvis : 0.395
 RHG : 338.436 [W/m2]

Layer Data for Glazing System '94 PR40 on 3mm Clear Glass'

ID	Name	D(mm)	Tsol	1	Rsol	2	Tvis	1	Rvis	2	Tir	1	Emis	2	Keff

Outside															
2747	PR40.mmm	# 5.7	.219	.147	.079	.395	.066	.066	.000	.840	.780	.983			
Inside															

Environmental Conditions: 1 NFRC 100-2010

Tout	Tin	WndSpd	Wnd Dir	Solar	Tsky	Esky
(C)	(C)	(m/s)	(W/m2)	(C)		

Uvalue	-18.0	21.0	5.50	Windward	0.0	-18.0 1.00
Solar	32.0	24.0	2.75	Windward	783.0	32.0 1.00

Optical Properties for Glazing System '94 PR40 on 3mm Clear Glass'

Angle	0	10	20	30	40	50	60	70	80	90	Hemis
Tvis :	0.395	0.397	0.392	0.386	0.379	0.365	0.335	0.273	0.164	0.000	0.345
Rfvis:	0.066	0.058	0.057	0.060	0.070	0.088	0.123	0.213	0.453	0.999	0.116
Rbvis:	0.066	0.058	0.056	0.059	0.070	0.088	0.122	0.213	0.453	0.999	0.115
Tsol :	0.219	0.220	0.218	0.214	0.210	0.203	0.186	0.152	0.091	0.000	0.191
Rfsol:	0.147	0.140	0.138	0.141	0.151	0.167	0.198	0.281	0.500	0.999	0.191
Rbsol:	0.079	0.071	0.069	0.073	0.083	0.101	0.134	0.224	0.461	0.999	0.127
Abs1 :	0.634	0.640	0.644	0.645	0.639	0.630	0.616	0.568	0.408	0.001	0.607

SHGCc: 0.412 0.416 0.414 0.411 0.405 0.395 0.373 0.324 0.213 0.000 0.376

Tdw-K : 0.106

Tdw-ISO: 0.245

Tuv : 0.000

ID : 93
 Name : LX25 on 3mm Clear Glass
 Tilt : 90.0
 Glazings: 1
 KEFF : 0.941 [W/m-K]
 Width : 3.031 [mm]
 Uvalue : 5.323 [W/m2-K]
 SHGCc : 0.336
 SCc : 0.386
 Tvis : 0.207
 RHG : 280.202 [W/m2]

Layer Data for Glazing System '93 LX25 on 3mm Clear Glass'

ID	Name	D(mm)	Tsol	1 Rsol	2 Tvis	1 Rvis	2 Tir	1 Emis	2 Keff

Outside									
30088	3_Clear+HL25.BS#	3.0	.178	.257	.396	.207	.053	.054	.000 .840 .649 .941
Inside									

Environmental Conditions: 1 NFRC 100-2010

Tout	Tin	WndSpd	Wnd Dir	Solar	Tsky	Esky
(C)	(C)	(m/s)	(W/m2)	(C)		

Uvalue	-18.0	21.0	5.50	Windward	0.0	-18.0 1.00
Solar	32.0	24.0	2.75	Windward	783.0	32.0 1.00

Optical Properties for Glazing System '93 LX25 on 3mm Clear Glass'

Angle	0	10	20	30	40	50	60	70	80	90	Hemis
Tvis :	0.207	0.208	0.205	0.202	0.198	0.191	0.176	0.143	0.086	0.000	0.181
Rfvis :	0.053	0.045	0.044	0.047	0.058	0.076	0.110	0.202	0.446	0.999	0.104
Rbvis :	0.054	0.046	0.044	0.048	0.058	0.076	0.111	0.203	0.446	0.999	0.104
Tsol :	0.178	0.180	0.177	0.175	0.171	0.165	0.152	0.124	0.074	0.000	0.156
Rfsol :	0.257	0.251	0.250	0.252	0.261	0.275	0.302	0.374	0.565	0.999	0.295
Rbsol :	0.396	0.391	0.390	0.392	0.399	0.411	0.433	0.491	0.647	0.999	0.425
Abs1 :	0.564	0.569	0.573	0.573	0.568	0.560	0.546	0.502	0.361	0.001	0.539

SHGCc: 0.336 0.339 0.337 0.335 0.330 0.321 0.304 0.263 0.173 0.000 0.306

Tdw-K : 0.061

Tdw-ISO: 0.139

Tuv : 0.001

Temperature Distribution (degrees C)

Winter Summer

Out In Out In

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Lay1 -10.9 -10.2 45.5 45.7

ID : 94
 Name : LX70 on 3mm Clear Glass
 Tilt : 90.0
 Glazings: 1
 KEFF : 0.941 [W/m-K]
 Width : 3.031 [mm]
 Uvalue : 5.281 [W/m2-K]
 SHGCc : 0.450
 SCc : 0.517
 Tvis : 0.704
 RHG : 362.457 [W/m2]

Layer Data for Glazing System '94 LX70 on 3mm Clear Glass'

ID	Name	D(mm)	Tsol	1 Rsol	2 Tvis	1 Rvis	2 Tir	1 Emis	2 Keff
30089	3_Clear+LX70.BS#	3.0	.359	.306	.401	.704	.081	.079	.000 .840 .636 .941

 Outside
 Inside

Environmental Conditions: 1 NFRC 100-2010

Tout	Tin	WndSpd	Wnd Dir	Solar	Tsky	Esky	
(C)	(C)	(m/s)	(W/m2)	(C)			
Uvalue	-18.0	21.0	5.50	Windward	0.0	-18.0	1.00
Solar	32.0	24.0	2.75	Windward	783.0	32.0	1.00

Optical Properties for Glazing System '94 LX70 on 3mm Clear Glass'

Angle	0	10	20	30	40	50	60	70	80	90	Hemis
Tvis :	0.704	0.709	0.700	0.689	0.676	0.652	0.598	0.487	0.293	0.000	0.616
Rfvis :	0.081	0.074	0.072	0.075	0.086	0.103	0.137	0.226	0.462	0.999	0.130
Rbvis :	0.079	0.072	0.070	0.073	0.084	0.101	0.135	0.224	0.461	0.999	0.128
Tsol :	0.359	0.362	0.357	0.352	0.345	0.333	0.305	0.249	0.150	0.000	0.314
Rfsol :	0.306	0.300	0.299	0.301	0.309	0.322	0.348	0.415	0.594	0.999	0.340
Rbsol :	0.401	0.396	0.395	0.397	0.404	0.415	0.437	0.495	0.649	0.999	0.429
Abs1 :	0.335	0.338	0.344	0.347	0.346	0.345	0.347	0.336	0.257	0.001	0.335

SHGCc: 0.450 0.453 0.450 0.445 0.438 0.426 0.399 0.340 0.218 0.000 0.405

Tdw-K : 0.193

Tdw-ISO: 0.443

Tuv : 0.003

Temperature Distribution (degrees C)

Winter Summer

Out In Out In

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Lay1 -11.0 -10.3 39.5 39.5