

# Complex Glazing Database: Version 19.0

## Shade Materials

Windows and Envelope Materials Group, Lawrence Berkeley National Laboratory; <https://windows.lbl.gov/software/cgdb>

Notes for 19.0:

Shade Materials:

A bug was fixed in the data so that now, in WINDOW, when a Shade Material that has a # is used to define a Shading Layer, the program will keep the # in the Shading Layer definition as well as the Glazing System, which is needed for NFRC certification.

### CHANGSHU HIGH-TECH ENERG

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	$\epsilon_f$	$\epsilon_b$	T <sub>ir</sub>	T <sub>visF</sub>	T <sub>visB</sub>	R <sub>visF</sub>	R <sub>visB</sub>	T <sub>solF</sub>	T <sub>solB</sub>	R <sub>solF</sub>	R <sub>solB</sub>
42000	slats-white	Y	19		slats-white.txt	0.2	160	0.799	0.799	0	0	0	0.774	0.774	0	0	0.684	0.684
42001	slats-tan	Y	19		slats-tan.txt	0.2	160	0.81	0.81	0	0	0	0.359	0.359	0	0	0.357	0.357

### Comfortex

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	$\epsilon_f$	$\epsilon_b$	T <sub>ir</sub>	T <sub>visF</sub>	T <sub>visB</sub>	R <sub>visF</sub>	R <sub>visB</sub>	T <sub>solF</sub>	T <sub>solB</sub>	R <sub>solF</sub>	R <sub>solB</sub>
46015	Linen Weave 3/4" Light Filtering	Y	19	@	Linen Weave 0.75" Light Filtering.txt	0.3	0.12	0.647	0.602	0.198	0.61	0.61	0.387	0.385	0.607	0.61	0.374	0.373
46016	Linen Weave 3/4" Room Darkening	Y	19	@	Linen Weave 0.75" Room Darkening.txt	0.2	0.12	0.776	0.882	0	0.0001	0.0001	0.828	0.828	0.0002	0.0002	0.660	0.638
46017	Verona 3/4" Light Filtering	Y	19	@	Verona 0.75" Light Filtering.txt	0.3	0.12	0.766	0.713	0.075	0.468	0.468	0.532	0.526	0.463	0.46	0.510	0.501
46018	Verona 3/4" Room Darkening	Y	19	@	Verona 0.75" Room Darkening.txt	0.2	0.12	0.787	0.882	0	4E-05	4E-05	0.825	0.834	0.0002	0.0002	0.676	0.647
46019	Boutique 3/4" Light Filtering	Y	19	@	Boutique 0.75" Light Filtering.txt	0.2	0.12	0.684	0.671	0.169	0.539	0.539	0.460	0.453	0.54	0.54	0.444	0.437
46020	Boutique 3/4" Room Darkening	Y	19	@	Boutique 0.75" Room Darkening.txt	0.2	0.12	0.818	0.867	0	2E-07	2E-07	0.826	0.838	0.0001	0.0001	0.663	0.651

**Comfortex**

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	$\epsilon_f$	$\epsilon_b$	T <sub>ir</sub>	T <sub>visF</sub>	T <sub>visB</sub>	R <sub>visF</sub>	R <sub>visB</sub>	T <sub>solF</sub>	T <sub>solB</sub>	R <sub>solF</sub>	R <sub>solB</sub>
46021	Aspen 3/8" Double Cell Light Filtering	Y	19	@	Aspen 0.375" Double Cell Light Filtering.txt	0.2	0.12	0.673	0.652	0.185	0.6	0.6	0.400	0.406	0.598	0.6	0.387	0.393
46022	SlumberShade 3/4" Blackout	Y	19	@	SlumberShade 0.75" Blackout.txt	0.2	0.12	0.842	0.867	0	3E-11	3E-11	0.839	0.859	1E-04	1E-04	0.679	0.669

**Generic**

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	$\epsilon_f$	$\epsilon_b$	T <sub>ir</sub>	T <sub>visF</sub>	T <sub>visB</sub>	R <sub>visF</sub>	R <sub>visB</sub>	T <sub>solF</sub>	T <sub>solB</sub>	R <sub>solF</sub>	R <sub>solB</sub>
30101	Opaque white colored slat material		19		Slat Metal A	0.6	160	0.9	0.9	0	0	0	0.7	0.7	0	0	0.7	0.7
30102	Opaque pastel colored slat material		19		Slat Metal B	0.6	160	0.9	0.9	0	0	0	0.55	0.55	0	0	0.55	0.55
30103	Opaque light-dark colored slat material		19		Slat Metal C	0.6	160	0.9	0.9	0	0	0	0.7	0.4	0	0	0.7	0.4
30104	Translucent white colored slat material		19		Slat Metal D	0.6	160	0.55	0.55	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.5	0.5
31002	Example		19		Diffusing shade material	2	0.9	0.84	0.84	0	0.4	0.4	0.2	0.2	0.5	0.5	0.3	0.3
31006	Woven Shade		19		Woven Shade Material	0.6	0.3	0.9	0.9	0	0	0	0.5	0.5	0	0	0.5	0.5
31008	Horizontal slat - White GLF14	Y	19		vb02_glf14.txt	2.9	0.12	0.733	0.733	0	3E-06	3E-06	0.829	0.829	0.003	0.003	0.814	0.814
31009	Horizontal slat - Wood PK138	Y	19		vb14_pk138.txt	3.1	0.12	0.866	0.866	0.0577	3E-06	3E-06	0.133	0.133	0.001	0.001	0.234	0.234
31010	Vertical slat - Mocha	Y	19		vt01_Mocha.txt	1	0.12	0.825	0.825	0.0456	0.052	0.052	0.201	0.201	0.213	0.21	0.449	0.449
31011	Vertical slat - Snow	Y	19		vt02_Snow.txt	1	0.12	0.766	0.766	0.0843	0.0004	0.0004	0.866	0.866	0.029	0.03	0.831	0.831
31012	Vertical slat - Presidential	Y	19		vt03_Presidential.txt	1	0.12	0.851	0.851	0.0744	1E-05	1E-05	0.337	0.337	0.003	0.003	0.347	0.347

**Generic**

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	$\epsilon_f$	$\epsilon_b$	T <sub>ir</sub>	T <sub>visF</sub>	T <sub>visB</sub>	R <sub>visF</sub>	R <sub>visB</sub>	T <sub>solF</sub>	T <sub>solB</sub>	R <sub>solF</sub>	R <sub>solB</sub>
31013	Roller shutter - Antique White	Y	19		rs_AntiqueWhite.txt	4	0.034	0.78	0.78	0	0	0	0.705	0.705	0	0	0.655	0.655
31014	Roller shutter - Bronze	Y	19		rs_Bronze.txt	4	0.034	0.782	0.782	0	0	0	0.076	0.076	0	0	0.087	0.087
31015	Roller shutter - Silver	Y	19		rs_Silver.txt	4	0.034	0.654	0.654	0	0	0	0.54	0.54	0	0	0.565	0.565
31016	Roller shutter - True White	Y	19		rs_TrueWhite.txt	4	0.034	0.816	0.816	0	0	0	0.833	0.833	0	0	0.735	0.735

**Hongding Industrial Co., Ltd.**

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	$\epsilon_f$	$\epsilon_b$	T <sub>ir</sub>	T <sub>visF</sub>	T <sub>visB</sub>	R <sub>visF</sub>	R <sub>visB</sub>	T <sub>solF</sub>	T <sub>solB</sub>	R <sub>solF</sub>	R <sub>solB</sub>
33000	Pained 12.5 Aluminum Coil 5052-H19	Y	19	@	trimliteslat.txt	0.1	160	0.81	0.81	0	0	0	0.757	0.757	0	0	0.683	0.683

**Hunter Douglas**

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	$\epsilon_f$	$\epsilon_b$	T <sub>ir</sub>	T <sub>visF</sub>	T <sub>visB</sub>	R <sub>visF</sub>	R <sub>visB</sub>	T <sub>solF</sub>	T <sub>solB</sub>	R <sub>solF</sub>	R <sub>solB</sub>
31033	C23 White/Alumium back	Y	19	@	C23_innerwalls.txt	0.2	0.12	0.784	0.04	0	0	0	0.816	0.851	0	0	0.828	0.868
31034	C22-951 Inner wall	Y	19	@	C22-951_innerwalls.txt	0.2	0.12	0.68	0.68	0.14	0.480	0.480	0.461	0.461	0.484	0.48	0.441	0.441
31035	C22-951 Outer wall	Y	19	@	C22-951_outerwalls.txt	0.2	0.12	0.72	0.72	0.12	0.453	0.453	0.494	0.494	0.459	0.46	0.457	0.457
31036	C22-951 Glue line	Y	19	@	C22-951_glueline.txt	0.2	0.12	0.78	0.78	0.03	0.309	0.309	0.657	0.657	0.312	0.31	0.599	0.599
31037	C82 Transparent plastic	Y	19	@	C82_TransparentPlastic.txt	0.2	0.12	0.17	0.17	0.71	0.905	0.905	0.095	0.095	0.906	0.91	0.092	0.092
31038	D2 White wall	Y	19	@	D2_WhiteWallMaterial.txt	0.2	0.12	0.69	0.69	0.19	0.620	0.620	0.376	0.376	0.636	0.64	0.352	0.352
31039	D7 White on Silver back	Y	19	@	D7_WhiteOnSilverBack.txt	0.2	0.12	0.84	0.04	0	0	0	0.735	0.927	0	0	0.723	0.936

**Hunter Douglas**

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	$\epsilon_f$	$\epsilon_b$	T <sub>ir</sub>	T <sub>visF</sub>	T <sub>visB</sub>	R <sub>visF</sub>	R <sub>visB</sub>	T <sub>solF</sub>	T <sub>solB</sub>	R <sub>solF</sub>	R <sub>solB</sub>
31040	D8 - White sheer	Y	19	@	D8_WhiteSheer.txt	0.2	0.12	0.37	0.37	0.58	0.884	0.884	0.116	0.116	0.890	0.89	0.107	0.107
34001	BO 25g	Y	19	@	BO25g.txt	0.1	0.12	0.076	0.03	0	0	0	0.822	0.908	0	0	0.829	0.916
34002	BO 25g	Y	19	@	BO25g_flip.txt	0.1	0.12	0.003	0.076	0	0	0	0.908	0.822	0	0	0.916	0.829
34003	PET C90	Y	19	@	C90PET.txt	0.1	0.12	0.182	0.182	0.696	0.907	0.907	0.093	0.093	0.905	0.90	0.092	0.092
34004	D7 White on Silver back	Y	19	@	D7_WhiteOnSilverBack.txt	0.1	0.12	0.84	0.04	0	0	0	0.723	0.912	0	0	0.714	0.918
34005	D7 White on Silver back	Y	19	@	D7_WhiteOnSilverBack_flip.txt	0.1	0.12	0.04	0.84	0	0	0	0.912	0.723	0	0	0.918	0.714
34006	Architella Elan 3/4" Outer Fabric (C22/C23)	Y	19	@	Architella_Elan_Outer.txt	0.1	0.12	0.833	0.833	0.158	0.504	0.504	0.494	0.494	0.518	0.52	0.452	0.452
34007	Architella Elan 3/4" Inner Fabric Semi Opaque (C22/C56)	Y	19	@	Architella_Elan_Semi-Opaque_Inner_Cell.txt	0.1	0.12	0.798	0.789	0.1911	0.558	0.558	0.429	0.443	0.556	0.56	0.413	0.427
34008	Architella Elan 3/4" Inner Fabric Opaque(C23/C57)	Y	19	@	Architella_Elan_Opaque_Inner_Cell.txt	0.09	0.12	0.756	0.034	0	2E-06	2E-06	0.807	0.927	7E-05	7E-05	0.813	0.934
34009	Architella Reception 3/4" Outer Fabric (C56/C57)	Y	19	@	Architella_Reception_Outer.txt	0.1	0.12	0.8	0.842	0.1282	0.431	0.431	0.568	0.553	0.442	0.44	0.524	0.522
34010	Applause 3/4" Semi Opaque (E40)	Y	19	@	Applause_Semi-Opaque.txt	0.2	0.12	0.821	0.821	0.1812	0.504	0.504	0.494	0.494	0.518	0.52	0.452	0.452
34011	Applause 3/4" Opaque (E41)	Y	19	@	Applause_Opaque.txt	0.2	0.12	0.825	0.026	0	1E-05	1E-05	0.735	0.922	0.0001	0.0001	0.716	0.927
34012	Classic 3/8" Semi Opaque (D1)	Y	19	@	Classic .375" Semi Opaque (D1).txt	0.1	0.12	0.63	0.616	0.231	0.571	0.571	0.428	0.412	0.603	0.60	0.365	0.360
34013	Elite 3/4" Semi Opaque (D2)	Y	19	@	Classic .75" Semi Opaque (D2).txt	0.2	0.12	0.771	0.655	0.125	0.495	0.495	0.504	0.485	0.520	0.52	0.441	0.43
34014	Legends 3/8" Opaque (E4)	Y	19	@	Legends .375" Opaque (E4).txt	0.1	0.12	0.731	0.032	0	0.0001	0.0001	0.740	0.923	0.0002	0.0002	0.725	0.933

**Hunter Douglas**

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	εf	εb	Tir	TvisF	TvisB	RvisF	RvisB	TsolF	TsolB	RsolF	RsolB
34015	Architella Classic 3/4" Outer Fabric (C50/C51)	Y	19	@	Architella Classic .75" (C50-C51).txt	0.2	0.12	0.681	0.693	0.16	0.508	0.508	0.491	0.483	0.547	0.55	0.416	0.418
34016	Applause 3/8" Semi Opaque (E42)	Y	19	@	Applause .375" Semi Opaque (E42).txt	0.2	0.12	0.641	0.626	0.2	0.611	0.611	0.388	0.382	0.627	0.63	0.347	0.349
34017	Legends 3/4" Opaque (E3)	Y	19	@	Legends .75" Opaque (E3).txt	0.2	0.12	0.841	0.03	0	0.0001	0.0001	0.761	0.915	0.0002	0.0002	0.726	0.926
34018	Vintage 3/4" Semi Opaque (E50)	Y	19	@	Vintage .75" Semi Opaque (E50).txt	0.1	0.12	0.68	0.614	0.146	0.49	0.49	0.509	0.5	0.505	0.51	0.459	0.467
34019	F50 3/4" Semi Opaque (F50)	Y	19	@	Madison .75" Semi Opaque (F50).txt	0.1	0.12	0.682	0.695	0.183	0.527	0.527	0.455	0.452	0.539	0.54	0.416	0.414
34020	Vintage 3/4" Opaque (E51)	Y	19	@	Vintage .75" Opaque (E51).txt	0.1	0.12	0.801	0.028	0	0.0002	0.0002	0.751	0.918	0.0002	0.0002	0.745	0.927
34021	Architella Bamboo 3/4" Outer Fabric (C95/C96)	Y	19	@	Architella Bamboo .75" (C95-C96).txt	0.4	0.12	0.664	0.624	0.153	0.48	0.48	0.515	0.499	0.474	0.47	0.496	0.482
34022	Architella Linen 3/4" Outer Fabric (X89/X90)	Y	19	@	Architella Calypso .75" (X89-X90).txt	0.1	0.12	0.624	0.649	0.158	0.464	0.464	0.536	0.535	0.470	0.47	0.516	0.515
34023	Commercial 3/4" Opaque (D23)	Y	19	@	Commercial .75" Opaque (D23).txt	0.2	0.12	0.799	0.029	0	0.0002	0.0002	0.742	0.914	0.0002	0.0002	0.739	0.923
34024	Reception 3/4" Opaque (D57)	Y	19	@	Reception .75" Opaque (D57).txt	0.1	0.12	0.77	0.028	0	0.0001	0.0001	0.746	0.922	0.0002	0.0002	0.744	0.931
34025	F9 3/8" Opaque (F9)	Y	19	@	PL Solid Print .375" Opaque (F9).txt	0.05	0.12	0.796	0.031	0	7E-05	7E-05	0.712	0.92	0.0001	0.0001	0.71	0.93
34026	Architella AlexaM 3/4" Semi Opaque (X45)	Y	19	@	Architella AlexaM .75" Semi Opaque (X45).txt	0.05	0.12	0.516	0.595	0.288	0.743	0.743	0.250	0.262	0.744	0.74	0.238	0.248
34027	F17 3/4" Opaque (F17)	Y	19	@	PL Solid Print .75" Opaque (F17).txt	0.1	0.12	0.754	0.028	0	0.0001	0.0001	0.751	0.916	0.0002	0.0002	0.749	0.927
34028	Commercial 3/4" Semi Opaque (D22)	Y	19	@	Commercial .75" Semi Opaque (D22).txt	0.1	0.12	0.688	0.654	0.147	0.380	0.380	0.607	0.626	0.388	0.39	0.570	0.581

**Hunter Douglas**

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	εf	εb	Tir	TvisF	TvisB	RvisF	RvisB	TsolF	TsolB	RsolF	RsolB
34029	Architella Bamboo 3/4" Semi Opaque (C97)	Y	19	@	Architella Bamboo .75" Semi Opaque (C97).txt	0.03	0.12	0.199	0.193	0.694	0.911	0.911	0.089	0.088	0.91	0.91	0.087	0.087
34030	Architella Alustra 3/4" Fabric SemiOpaque (Y10)	Y	19	@	Architella Alustra .75" Inner SemiOpaque(Y10).txt	0.04	0.12	0.48	0.477	0.402	0.888	0.888	0.112	0.112	0.884	0.88	0.110	0.110
34031	Architella Alexa 3/4" Outer Fabric (C93/C94)	Y	19	@	Architella Alexa .75" Outer Fabric (C93-C94).txt	0.4	0.12	0.7	0.673	0.126	0.456	0.456	0.539	0.537	0.460	0.46	0.506	0.515
34032	Architella India Silk 3/4" Street (X01)	Y	19		Arch India Silk 0.75" St (X01).txt	0.3	0.12	0.86	0.82	0	0.435	0.435	0.563	0.562	0.445	0.45	0.514	0.527
34033	Architella Alexa Metallic 3/4" Street (X45)	Y	19	@	Arch Alexa Metallic 0.75" St (X45).txt	0.3	0.12	0.766	0.807	0	0.441	0.441	0.558	0.563	0.448	0.45	0.514	0.508
34034	Architella Apollo 3/4" Street (U20)	Y	19	@	Arch Apollo 0.75" St (U20).txt	0.3	0.12	0.831	0.842	0	0.479	0.479	0.520	0.521	0.488	0.49	0.483	0.469
34035	Architella Leela 3/4" Street (Y01)	Y	19	@	Arch Leela 0.75" St (Y01).txt	0.4	0.12	0.883	0.67	0	0.405	0.405	0.584	0.593	0.404	0.40	0.546	0.572
34036	Architella Etched 3/4" Street (X11)	Y	19	@	Arch Etched 0.75" St (X11).txt	0.3	0.12	0.756	0.872	0	0.418	0.418	0.581	0.573	0.425	0.42	0.530	0.536
34037	Architella Jardin 3/4" Street (X42)	Y	19	@	Arch Jardin 0.75" St (X42).txt	0.4	0.12	0.798	0.821	0	0.390	0.390	0.597	0.600	0.391	0.39	0.579	0.563
34038	Architella Apollo 3/4" Room (U20)	Y	19	@	Arch Apollo 0.75" Rm (U20).txt	0.3	0.12	0.635	0.635	0.232	0.519	0.519	0.292	0.292	0.567	0.57	0.318	0.318
34039	Architella India Silk 3/4" Room (X21)	Y	19	@	Arch India Silk 0.75" Rm (X21).txt	0.3	0.12	0.731	0.647	0.108	0.093	0.093	0.239	0.310	0.248	0.25	0.473	0.501
34040	Architella Etched 3/4" Room (X11)	Y	19	@	Arch Etched 0.75" Rm (X11).txt	0.3	0.12	0.582	0.582	0.315	0.621	0.621	0.260	0.260	0.656	0.66	0.285	0.285

**Hunter Douglas**

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	$\epsilon_f$	$\epsilon_b$	T <sub>ir</sub>	T <sub>visF</sub>	T <sub>visB</sub>	R <sub>visF</sub>	R <sub>visB</sub>	T <sub>solF</sub>	T <sub>solB</sub>	R <sub>solF</sub>	R <sub>solB</sub>
34041	Architella Macon Room 1 - Tan (X91)	Y	19	@	Arch Macon Rm 1 - Tan (X91).txt	0.3	0.12	0.491	0.491	0.345	0.595	0.595	0.267	0.267	0.639	0.64	0.295	0.295
34042	Architella Macon Room 2 - Blue (X91)	Y	19	@	Arch Macon Rm 2 - Blue (X91).txt	0.3	0.12	0.46	0.46	0.387	0.523	0.523	0.159	0.159	0.626	0.63	0.238	0.238
34043	Architella Macon Room 3 - Brown (X91)	Y	19	@	Arch Macon Rm 3 - Brown (X91).txt	0.3	0.12	0.416	0.416	0.416	0.435	0.435	0.046	0.046	0.613	0.61	0.166	0.166
34044	Architella Leela 3/4" Room (X51)	Y	19	@	Arch Leela 0.75" Rm (X51).txt	0.3	0.12	0.657	0.657	0.192	0.506	0.506	0.424	0.424	0.525	0.53	0.426	0.426
34045	Architella Jardin 3/4" Room (X42)	Y	19	@	Arch Jardin 0.75" Rm (X42).txt	0.4	0.12	0.683	0.683	0.222	0.501	0.501	0.298	0.298	0.567	0.57	0.337	0.337
34046	Architella Alexa Metallic 3/4" Room (X45)	Y	19	@	Arch Alexa Metallic 0.75" Rm (X45).txt	0.4	0.12	0.638	0.762	0	0.122	0.122	0.322	0.421	0.119	0.12	0.329	0.415
34047	Architella Batiste 3/4" Room (Y09)	Y	19	@	Arch Batiste 0.75" Rm (Y09).txt	0.2	0.12	0.517	0.517	0.371	0.662	0.662	0.338	0.338	0.671	0.67	0.321	0.321
34056	HD Custom 1	Y	19	@	HD Custom 1.txt	0.3	0.12	0.626	0.459	0.114	0.427	0.427	0.542	0.56	0.42	0.42	0.528	0.547
34057	HD Custom 2	Y	19	@	HD Custom 2.txt	0.3	0.12	0.605	0.599	0	0.0002	0.0002	0.788	0.842	0.0003	0.0003	0.771	0.849
34058	HD Custom 3	Y	19	@	HD Custom 3.txt	0.3	0.12	0.578	0.556	0.158	0.505	0.505	0.490	0.500	0.505	0.50	0.471	0.484
34059	HD Custom 4	Y	19	@	HD Custom 4.txt	0.2	0.12	0.724	0.521	0.164	0.516	0.516	0.484	0.486	0.514	0.51	0.462	0.463
34060	HD Custom 5	Y	19	@	HD Custom 5.txt	0.4	0.12	0.572	0.463	0.134	0.486	0.486	0.509	0.514	0.485	0.48	0.497	0.501
34061	HD Custom 6	Y	19	@	HD Custom 6.txt	0.3	0.12	0.694	0.386	0	2E-06	2E-06	0.749	0.876	1E-04	1E-04	0.744	0.887
46000	Sonnette Elan Outer Fabric(SN01/SN02)	Y	19	@	Sonnette_Elan_Outer.txt	0.3	0.12	0.836	0.835	0.0734	0.486	0.486	0.514	0.497	0.489	0.49	0.489	0.470

**Hunter Douglas**

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	εf	εb	Tir	TvisF	TvisB	RvisF	RvisB	TsolF	TsolB	RsolF	RsolB
46001	Sonnette Elan Back Fabric Semi Opaque (SN01)	Y	19	@	Sonnette_Elan_Semi-Opaque.txt	0.2	0.12	0.815	0.815	0.124	0.521	0.521	0.478	0.478	0.527	0.53	0.450	0.450
46002	Sonnette Elan Back Fabric Opaque (SN02)	Y	19	@	Sonnette_Elan_Opaque.txt	0.2	0.12	0.787	0.795	0	0.0008	0.0008	0.849	0.777	0.001	0.001	0.813	0.763
46003	Sonnette Textura Outer Fabric(SN07/SN08)	Y	19	@	Sonnette_Textura_Outer.txt	0.3	0.12	0.821	0.824	0.0557	0.362	0.362	0.339	0.504	0.385	0.38	0.352	0.479
46004	Sonnette Textura Back Fabric Semi Opaque (SN07)	Y	19	@	Sonnette_Textura_Semi-Opaque.txt	0.2	0.12	0.737	0.737	0.1081	0.519	0.519	0.481	0.481	0.516	0.52	0.465	0.465
46005	Sonnette Textura Back Fabric Opaque (SN08)	Y	19	@	Sonnette_Textura_Opaque.txt	0.3	0.12	0.773	0.773	0	0.0004	0.0004	0.838	0.783	0.0008	0.0008	0.799	0.766
46006	Sonnette Elan Metallic Outer Fabric (SN03/04)	Y	19	@	Sonnette Elan Metallic Otr Fabric (SN03-04).txt	0.3	0.12	0.745	0.765	0.087	0.372	0.372	0.627	0.592	0.391	0.39	0.562	0.535
46007	Sonnette Highline Outer Fabric (SN05/06)	Y	19	@	Sonnette Highline Otr Fabric (SN05-06).txt	0.3	0.12	0.722	0.746	0.089	0.480	0.480	0.508	0.517	0.478	0.48	0.476	0.489
46008	SN09/10 Outer Fabric	Y	19	@	SN09-10 Outer Fabric.txt	0.3	0.12	0.66	0.804	0.047	0.385	0.385	0.356	0.471	0.413	0.41	0.395	0.459
46009	SN11/12 Outer Fabric	Y	19	@	SN11-12 Outer Fabric.txt	0.3	0.12	0.63	0.764	0.084	0.424	0.424	0.4	0.498	0.446	0.45	0.437	0.482
46010	SN13/14 Outer Fabric	Y	19	@	SN13-14 Outer Fabric.txt	0.3	0.12	0.687	0.727	0.096	0.364	0.364	0.309	0.481	0.411	0.41	0.377	0.473
46011	SN15/16 Outer Fabric	Y	19	@	SN15-16 Outer Fabric.txt	0.3	0.12	0.736	0.736	0.05	0.417	0.417	0.385	0.496	0.443	0.44	0.438	0.484

**Intigral**

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	εf	εb	Tir	TvisF	TvisB	RvisF	RvisB	TsolF	TsolB	RsolF	RsolB
32000	112 Alabaster	Y	19	#	Intigral Alabaster 112 (intigral_112alabaster.txt)	0.2	160	0.78	0.78	0	0	0	0.716	0.716	0	0	0.673	0.673



**Intigral**

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	εf	εb	Tir	TvisF	TvisB	RvisF	RvisB	TsolF	TsolB	RsolF	RsolB
32001	205 White Satin	Y	19	#	IntigralI White Satin 2015 (intigral_205WhiteSatin.txt)	0.2	160	0.76	0.76	0	0	0	0.741	0.741	0	0	0.686	0.686
32002	Tan	Y	19	#	intigral_tan.txt	0.2	160	0.77	0.77	0	0	0	0.34	0.34	0	0	0.347	0.347

**Levelor**

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	εf	εb	Tir	TvisF	TvisB	RvisF	RvisB	TsolF	TsolB	RsolF	RsolB
31020	Mosaic RD Snow, 53970199, CS06, white	Y	19	@	CS06_whitevinyl.txt	0.2	0.12	0.706	0.558	0.0405	0.002	0.002	0.763	0.758	0.003	0.003	0.756	0.766
31021	Mosaic RD Snow, 53970199, CS06, glueline	Y	19	@	CS06_glueline.txt	0.2	0.12	0.543	0.498	0.0783	0.001	0.001	0.740	0.741	0.001	0.001	0.734	0.751
31022	Classic RD Snow, CS05, white	Y	19	@	CS05_whitefront.txt	0.2	0.12	0.81	0.57	0	0	0	0.760	0.735	0	0	0.756	0.727
31023	Classic RD Snow, CS05, glueline	Y	19	@	CS05_glueline.txt	0.2	0.12	0.501	0.495	0.0433	0.0002	0.0002	0.723	0.829	0.0003	0.0003	0.720	0.834
31024	Accordia Des. Col. LF Snow, 12470199, CS04, white	Y	19	@	CS04_whitefabric.txt	0.2	0.12	0.673	0.739	0.0810	0.396	0.396	0.602	0.603	0.395	0.39	0.582	0.582
31025	Accordia Des. Col. LF Snow, 12470199, CS04, gl	Y	19	@	CS04_glueline.txt	0.2	0.12	0.709	0.735	0.0700	0.301	0.301	0.684	0.692	0.299	0.3	0.663	0.669
31026	Acc. Des. Col. LF Snow, 19470199, CS03, white	Y	19	@	CS03_White.txt	0.2	0.12	0.693	0.687	0.109	0.447	0.447	0.544	0.549	0.445	0.45	0.524	0.529
31027	Acc. Des. Col. LF Snow, 19470199, CS03, gl	Y	19	@	CS03_glueline.txt	0.2	0.12	0.777	0.782	0.0002	0.269	0.269	0.712	0.689	0.267	0.27	0.687	0.665
31028	Accordia LF Cream, 19170202, CS02, White	Y	19	@	CS02_WhiteBack.txt	0.2	0.12	0.670	0.692	0.1103	0.515	0.515	0.482	0.483	0.509	0.51	0.469	0.469
31029	Accordia LF Cream, 19170202, CS02, gl	Y	19	@	CS02_glueline.txt	0.2	0.12	0.704	0.658	0.1397	0.416	0.416	0.512	0.535	0.419	0.42	0.496	0.521

**Levelor**

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	εf	εb	Tir	TvisF	TvisB	RvisF	RvisB	TsolF	TsolB	RsolF	RsolB
31030	Accordia LF Cream, 19170202, CS02, Sheer	Y	19	@	CS02_frontsheerfabric.txt	0.2	0.12	0.646	0.66	0.2307	0.551	0.551	0.4	0.395	0.561	0.56	0.39	0.384
31031	Accordia Classic LF Toffee, 19570216, CS01, gl	Y	19	@	CS01_glueline.txt	0.2	0.12	0.753	0.779	0.0623	0.296	0.296	0.451	0.476	0.322	0.32	0.436	0.461
31032	Accordia Classic LF Toffee, 19570216, CS01, brown	Y	19	@	CS01_brownfabric.txt	0.2	0.12	0.697	0.679	0.1552	0.378	0.378	0.149	0.309	0.442	0.44	0.182	0.305

**ODL**

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	εf	εb	Tir	TvisF	TvisB	RvisF	RvisB	TsolF	TsolB	RsolF	RsolB
31112	Blind White	Y	19	#	ODL White Blind	0.2	160	0.8	0.8	0	0	0	0.732	0.732	0	0	0.649	0.649
31114	Painted Aluminum Blind - Espresso	Y	19	#	ODL Espresso Blind	0.2	160	0.82	0.82	0	0	0	0.083	0.083	0	0	0.081	0.081
31115	Painted Aluminum Blind - Sand	Y	19	#	ODL Sand Blind	0.2	160	0.82	0.82	0	0	0	0.551	0.551	0	0	0.5	0.5
31116	Painted Aluminum Blind - Tan	Y	19	#	ODL Tan Blind	0.2	160	0.82	0.82	0	0	0	0.474	0.474	0	0	0.482	0.482

**Ozroll**

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	εf	εb	Tir	TvisF	TvisB	RvisF	RvisB	TsolF	TsolB	RsolF	RsolB
51000	Elipso Blade Black	Y	19		Elipso Blade Black.txt	1	1	0.799	0.799	0	0	0	0.040	0.040	0	0	0.039	0.039
51001	Elipso Blade Surf Mist	Y	19		Elipso Blade Surf Mist.txt	1	1	0.813	0.813	0	0	0	0.698	0.698	0	0	0.569	0.569
51002	Elipso Blade White	Y	19		Elipso Blade White.txt	1	1	0.775	0.775	0	0	0	0.917	0.917	0	0	0.815	0.815
51003	Elipso Blade Wood Grain	Y	19		Elipso Blade Wood Grain.txt	1	1	0.819	0.819	0	0	0	0.323	0.323	0	0	0.441	0.441

**Ozroll**

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	$\epsilon_f$	$\epsilon_b$	Tir	TvisF	TvisB	RvisF	RvisB	TsolF	TsolB	RsolF	RsolB
51004	Inspire Blade White	Y	19		Inspire Blade White.txt	1	1	0.678	0.678	0	0	0	0.89	0.89	0	0	0.813	0.813
51005	Residential Curved Slat Black	Y	19		Residential Curved Black.txt	1	1	0.697	0.884	0	0	0	0.052	0.052	0	0	0.14	0.144
51006	Residential Curved Slat Grey	Y	19		Residential Curved Grey.txt	1	1	0.729	0.891	0	0	0	0.456	0.478	0	0	0.477	0.500
51007	Residential Curved Slat White	Y	19		Residential Curved White.txt	1	1	0.672	0.876	0	0	0	0.824	0.866	0	0	0.720	0.756
51008	Sentry Fireshield White	Y	19		Sentry Fireshield White.txt	1	1	0.745	0.885	0	0	0	0.798	0.858	0	0	0.689	0.739
51009	Storm Shield White	Y	19		Storm Shield White.txt	1	1	0.69	0.888	0	0	0	0.812	0.861	0	0	0.714	0.757

**Pella**

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	$\epsilon_f$	$\epsilon_b$	Tir	TvisF	TvisB	RvisF	RvisB	TsolF	TsolB	RsolF	RsolB
31100	White Venetian Blind Slat	Y	19	#	White Venetian Blind Slat (white.txt)	0.1	160	0.9	0.9	0	0	0	0.743	0.743	0	0	0.677	0.677
31107	Marine Venetian Blind Slat	Y	19	#	Marine Venetian Blind Slat (marine.txt)	0.1	160	0.9	0.9	0	0	0	0.073	0.073	0	0	0.186	0.186

**ScreenLine**

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	$\epsilon_f$	$\epsilon_b$	Tir	TvisF	TvisB	RvisF	RvisB	TsolF	TsolB	RsolF	RsolB
35000	S102 White ScreenLine slat	Y	19	#	SL_S102_white.txt	0.2	160	0.807	0.807	0	0	0	0.766	0.766	0	0	0.710	0.710
35001	S106 Yellow ScreenLine slat	Y	19	#	SL_S106_yellow.txt	0.2	160	0.796	0.796	0	0	0	0.713	0.713	0	0	0.666	0.666
35002	S125 Beige ScreenLine slat	Y	19	#	SL_S125_dark_cream.txt	0.2	160	0.8	0.8	0	0	0	0.621	0.621	0	0	0.583	0.583
35003	S130 Green ScreenLine slat	Y	19	#	SL_S130_green.txt	0.2	160	0.806	0.806	0	0	0	0.655	0.655	0	0	0.603	0.603
35004	S142 Light Blue ScreenLine slat	Y	19	#	SL_S142_light_blue.txt	0.2	160	0.811	0.811	0	0	0	0.718	0.718	0	0	0.678	0.678

**ScreenLine**

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	$\epsilon_f$	$\epsilon_b$	T <sub>ir</sub>	T <sub>visF</sub>	T <sub>visB</sub>	R <sub>visF</sub>	R <sub>visB</sub>	T <sub>solF</sub>	T <sub>solB</sub>	R <sub>solF</sub>	R <sub>solB</sub>
35005	S149 Cream ScreenLine slat	Y	19	#	SL_S149_cream.txt	0.2	160	0.817	0.817	0	0	0	0.745	0.745	0	0	0.706	0.706
35006	S155 Matt Grey ScreenLine slat	Y	19	#	SL_S155_matt_grey.txt	0.2	160	0.82	0.82	0	0	0	0.475	0.475	0	0	0.399	0.399
35007	S157 Satin Silver ScreenLine slat	Y	19	#	SL_S157_satin_silver.txt	0.2	160	0.62	0.62	0	0	0	0.670	0.670	0	0	0.674	0.674
35008	S156 Glittery Silver ScreenLine slat	Y	19	#	SL_S156_glittery_silver.txt	0.2	160	0.581	0.581	0	0	0	0.615	0.615	0	0	0.658	0.658
35009	Vanity C000 white ScreenLine fabric	Y	19	#	SL_Vanity_C000_white.txt	0.2	0.3	0.854	0.855	0.031	0.556	0.556	0.444	0.444	0.561	0.56	0.423	0.423
35010	Vanity C010 cream ScreenLine fabric	Y	19	#	SL_Vanity_C010_cream.txt	0.2	0.3	0.864	0.867	0.028	0.522	0.522	0.471	0.471	0.521	0.52	0.444	0.444

**Shucheng Energy Saving Techn**

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	$\epsilon_f$	$\epsilon_b$	T <sub>ir</sub>	T <sub>visF</sub>	T <sub>visB</sub>	R <sub>visF</sub>	R <sub>visB</sub>	T <sub>solF</sub>	T <sub>solB</sub>	R <sub>solF</sub>	R <sub>solB</sub>
48000	SCES White	Y	19	@	SCES_white.txt	0.2	160	0.78	0.78	0	0	0	0.788	0.788	0	0	0.702	0.702

**Sunset Windows and Doors LL**

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	$\epsilon_f$	$\epsilon_b$	T <sub>ir</sub>	T <sub>visF</sub>	T <sub>visB</sub>	R <sub>visF</sub>	R <sub>visB</sub>	T <sub>solF</sub>	T <sub>solB</sub>	R <sub>solF</sub>	R <sub>solB</sub>
41000	Sunset White VB	Y	19	#	SunsetWhite.txt	0.2	120	0.9	0.9	0	0	0	0.805	0.805	0	0	0.703	0.703

**ThermeShade**

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	$\epsilon_f$	$\epsilon_b$	T <sub>ir</sub>	T <sub>visF</sub>	T <sub>visB</sub>	R <sub>visF</sub>	R <sub>visB</sub>	T <sub>solF</sub>	T <sub>solB</sub>	R <sub>solF</sub>	R <sub>solB</sub>
31111	Solar Comfort Radiant Barrier	Y	19		SCRadiantBarrier.txt	0.2	0.12	0.863	0.836	0	0	0	0.890	0.488	0	0	0.866	0.49

**WINDAT**

ID	Name	SpecDat	DB Ver #	Cert	Input Filename	t (mm)	k (W/m-k)	$\epsilon_f$	$\epsilon_b$	Tir	TvisF	TvisB	RvisF	RvisB	TsolF	TsolB	RsolF	RsolB
31000	light venetian blind	Y	19		WINDAT Internal Light Venetian Blind-Optics5.txt	1.5	160	0.9	0.9	0	1E-09	1E-09	0.469	0.469	1E-09	1E-09	0.544	0.544