

VANGUARD

1%, 3%, AND 5% OPENNESS



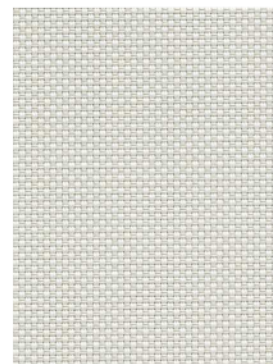
VANGUARD
AUTHENTIC



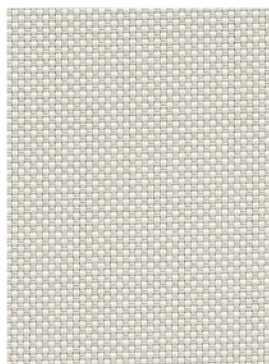
VANGUARD
GENTLE BEIGE



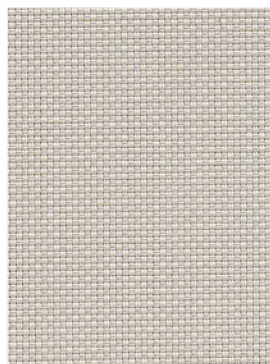
VANGUARD
CORTINA



VANGUARD
DEW



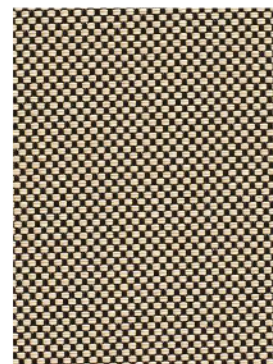
VANGUARD
ELUSIVE



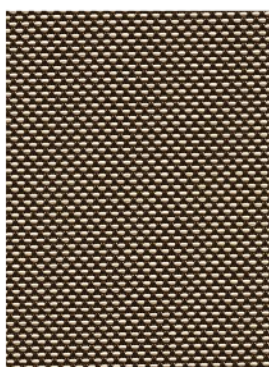
VANGUARD
MACEDONIA



VANGUARD
CHROME



VANGUARD
PENDULUM



VANGUARD
HOMAGE



VANGUARD
OBSIDIAN



VANGUARD
PELTON

VANGUARD

1%, 3%, AND 5% OPENNESS

FENESTRATION PROPERTIES

VANGUARD 1%

Openness: **1%**
 Max Fabric Width: **116"**
 UV Blockage: **99%**
 Railroad: **Available**
 Seaming: **Available**
 Shade Price Group: **SB**

		Solar Optical Properties				Shading Coefficient w/						
						Single			Insulating			
Color Name	Code	Ts	Rs	As	Tv	1/8 CL	1/4 CL	1/4 HA	1/2 CL	1CL	1HA	Fabric Composition:
Authentic	47909	18	70	12	14	.31	.31	.31	.29	.30	.24	24% Polyester/76% Vinyl on Polyester
Gentle Beige	47911	16	67	17	12	.32	.33	.32	.31	.31	.25	24% Polyester/76% Vinyl on Polyester
Cortina	47910	15	66	19	9	.33	.33	.32	.31	.31	.25	25% Polyester/75% Vinyl on Polyester
Dew	47914	10	59	31	7	.37	.37	.33	.35	.35	.27	21% Polyester/79% Vinyl on Polyester
Elusive	47912	9	59	32	7	.37	.36	.33	.35	.34	.27	21% Polyester/79% Vinyl on Polyester
Macedonia	47913	8	47	45	6	.45	.44	.37	.43	.41	.30	21% Polyester/79% Vinyl on Polyester
Chrome	47915	2	25	73	2	.59	.56	.44	.56	.52	.36	24% Polyester/76% Vinyl on Polyester
Pendulum	47916	1	20	79	1	.62	.59	.45	.59	.54	.38	24% Polyester/76% Vinyl on Polyester
Homage	47917	2	13	85	3	.67	.64	.48	.64	.58	.40	21% Polyester/79% Vinyl on Polyester
Obsidian	47919	2	12	86	2	.68	.64	.48	.64	.58	.41	25% Polyester/75% Vinyl on Polyester
Peloton	47918	2	12	86	3	.68	.64	.48	.64	.58	.40	21% Polyester/79% Vinyl on Polyester

VANGUARD 3%

Openness: **3%**
 Max Fabric Width: **116"**
 UV Blockage: **97%**
 Railroad: **Available**
 Seaming: **Available**
 Shade Price Group: **SA**

Authentic	48209	21	68	11	17	.33	.33	.32	.31	.31	.25	24% Polyester/76% Vinyl on Polyester
Gentle Beige	48211	18	66	16	15	.34	.34	.32	.32	.32	.25	24% Polyester/76% Vinyl on Polyester
Cortina	48210	15	65	20	10	.34	.34	.32	.32	.32	.25	18% Polyester/82% Vinyl on Polyester
Dew	48214	12	58	30	10	.38	.38	.34	.36	.35	.27	21% Polyester/79% Vinyl on Polyester
Elusive	48212	11	58	31	10	.38	.37	.34	.36	.35	.27	21% Polyester/79% Vinyl on Polyester
Macedonia	48213	9	48	43	7	.45	.43	.37	.42	.40	.30	21% Polyester/79% Vinyl on Polyester
Chrome	48215	5	28	67	6	.58	.55	.43	.55	.51	.36	24% Polyester/76% Vinyl on Polyester
Pendulum	48216	4	24	72	5	.60	.57	.44	.57	.52	.37	24% Polyester/76% Vinyl on Polyester
Homage	48217	4	13	83	6	.68	.64	.48	.64	.58	.40	21% Polyester/79% Vinyl on Polyester
Obsidian	48219	2	11	87	4	.68	.65	.48	.64	.59	.41	18% Polyester/82% Vinyl on Polyester
Peloton	48218	4	12	84	5	.69	.65	.48	.65	.59	.40	21% Polyester/79% Vinyl on Polyester

VANGUARD 5%

Openness: **5%**
 Max Fabric Width: **116"**
 UV Blockage: **95%**
 Railroad: **Available**
 Seaming: **Available**
 Shade Price Group: **SA**

Authentic	48309	24	67	9	21	.35	.35	.33	.32	.32	.26	24% Polyester/76% Vinyl on Polyester
Gentle Beige	48311	21	65	14	18	.35	.35	.33	.33	.33	.26	24% Polyester/76% Vinyl on Polyester
Cortina	48310	18	65	17	13	.34	.35	.32	.32	.33	.26	16% Polyester/84% Vinyl on Polyester
Dew	48314	14	57	29	13	.39	.39	.35	.37	.36	.28	21% Polyester/79% Vinyl on Polyester
Elusive	48312	14	55	31	13	.41	.40	.35	.38	.37	.28	21% Polyester/79% Vinyl on Polyester
Macedonia	48313	12	45	43	11	.47	.46	.38	.45	.43	.31	21% Polyester/79% Vinyl on Polyester
Chrome	48315	6	26	68	8	.59	.57	.44	.56	.52	.37	24% Polyester/76% Vinyl on Polyester
Pendulum	48316	6	22	72	8	.62	.59	.45	.59	.54	.38	24% Polyester/76% Vinyl on Polyester
Homage	48317	6	14	80	9	.68	.64	.48	.64	.58	.40	21% Polyester/79% Vinyl on Polyester
Obsidian	48319	4	10	86	7	.69	.66	.49	.66	.60	.42	16% Polyester/84% Vinyl on Polyester
Peloton	48318	6	12	82	8	.69	.65	.48	.65	.59	.41	21% Polyester/79% Vinyl on Polyester

The solar optical properties are used to calculate the shading coefficient. The shading coefficient represents the percentage of solar heat gain that is transmitted to the interior through the glass and shading system. Darker colors provide maximum glare reduction and visibility. Lighter colors provide maximum heat reflection and reduced visibility.

Ts = Solar Transmittance 1/4CL = 1/4" Clear Glass
 Rs = Solar Reflectance 1/4HA = 1/4" Heat Absorbing Glass
 As = Solar Absorptance 1/2CL = 1/2" Insulating Clear Glass
 Tv = Visual Transmittance 1CL = 1" Insulating Clear Glass
 1/8CL = 1/8" Clear Glass 1HA = 1" Insulating Heat Absorbing Glass

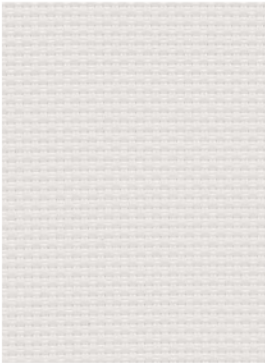
CERTIFICATIONS:

Bacterial and Fungal Resistance	ASTM G21 & ASTM E2180
Environmental Certification	Greenguard Gold
Fire Classification	NFPA 701 TM#1



PLEXUS

1%, 3%, AND 5% OPENNESS



PLEXUS
SOAPSTONE



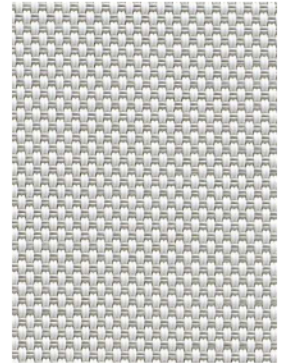
PLEXUS
RENEWAL



PLEXUS
CHALCEDONY



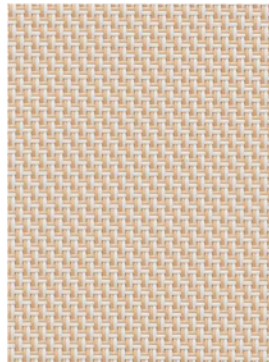
PLEXUS
STATELY



PLEXUS
NICHE



PLEXUS
LANDMARK



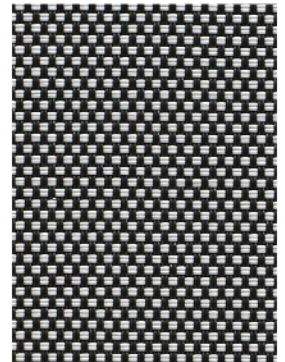
PLEXUS
PROVISIONS



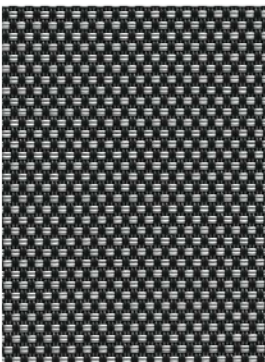
PLEXUS
TRAVERTINE



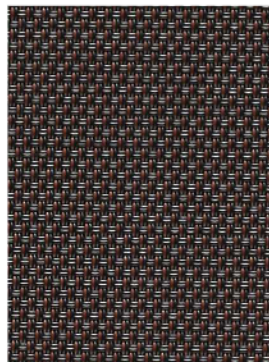
PLEXUS
TRANQUILITY



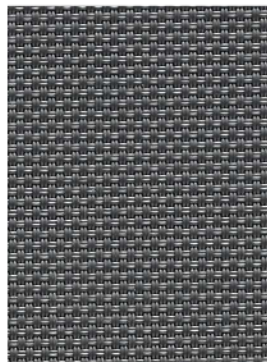
PLEXUS
SUBLIME GRAY



PLEXUS
PENUMBRA



PLEXUS
NUTLEY PIER



PLEXUS
BLACK GRANITE

PLEXUS

1%, 3%, AND 5% OPENNESS

FENESTRATION PROPERTIES

PLEXUS 1%

Openness: **1%**
 Max Fabric Width: **116"**
 UV Blockage: **99%**
 Railroad: **Available**
 Seaming: **Available**
 Shade Price Group: **SD**

		Shading Coefficient w/										
		Solar Optical Properties				Single			Insulating			
Color Name	Code	Ts	Rs	As	Tv	1/8 CL	1/4 CL	1/4 HA	1/2 CL	1CL	1HA	Fabric Composition:
Soapstone	47601	19	76	5	15	.26	.28	.29	.25	.27	.22	19% Polyester/81% Vinyl on Polyester
Renewal	47602	9	78	13	7	.22	.24	.27	.22	.24	.21	25% Polyester/75% Vinyl on Polyester
Chalcedony	47604	7	65	28	5	.32	.32	.31	.30	.31	.25	25% Polyester/75% Vinyl on Polyester
Stately	47605	7	62	31	5	.34	.34	.32	.32	.32	.26	25% Polyester/75% Vinyl on Polyester
Niche	47613	4	57	39	4	.37	.36	.33	.35	.35	.27	25% Polyester/75% Vinyl on Polyester
Landmark	47606	6	54	40	3	.39	.39	.35	.38	.37	.28	25% Polyester/75% Vinyl on Polyester
Provisions	47603	7	63	30	4	.33	.33	.32	.32	.32	.25	25% Polyester/75% Vinyl on Polyester
Travertine	47607	4	43	53	2	.47	.45	.38	.45	.42	.31	25% Polyester/75% Vinyl on Polyester
Tranquility	47611	5	38	57	3	.51	.49	.40	.48	.45	.33	19% Polyester/81% Vinyl on Polyester
Sublime Gray	47612	3	18	79	3	.64	.61	.46	.61	.55	.39	19% Polyester/81% Vinyl on Polyester
Penumbra	47608	1	8	91	1	.71	.66	.49	.66	.60	.41	25% Polyester/75% Vinyl on Polyester
Nutley Pier	47609	1	6	93	1	.72	.68	.50	.68	.61	.42	25% Polyester/75% Vinyl on Polyester
Black Granite	47610	1	7	92	2	.71	.67	.49	.67	.61	.42	25% Polyester/75% Vinyl on Polyester

PLEXUS 3%

Openness: **3%**
 Max Fabric Width: **116"**
 UV Blockage: **97%**
 Railroad: **Available**
 Seaming: **Available**
 Shade Price Group: **SB**

Soapstone	47701	21	75	4	17	.28	.29	.29	.26	.27	.23	19% Polyester/81% Vinyl on Polyester
Renewal	47702	11	77	12	11	.24	.25	.27	.23	.25	.21	25% Polyester/75% Vinyl on Polyester
Chalcedony	47704	10	63	27	8	.34	.34	.32	.32	.32	.26	25% Polyester/75% Vinyl on Polyester
Stately	47705	10	58	32	9	.38	.37	.34	.36	.35	.27	25% Polyester/75% Vinyl on Polyester
Niche	47713	7	55	38	8	.39	.38	.34	.37	.36	.28	25% Polyester/75% Vinyl on Polyester
Landmark	47706	10	52	38	10	.42	.41	.36	.40	.38	.29	25% Polyester/75% Vinyl on Polyester
Provisions	47703	10	61	29	8	.35	.35	.33	.34	.33	.26	25% Polyester/75% Vinyl on Polyester
Travertine	47707	6	42	52	6	.48	.47	.39	.46	.43	.32	25% Polyester/75% Vinyl on Polyester
Tranquility	47711	6	38	56	5	.51	.49	.40	.48	.45	.33	19% Polyester/81% Vinyl on Polyester
Sublime Gray	47712	3	17	80	4	.65	.61	.46	.61	.56	.39	19% Polyester/81% Vinyl on Polyester
Penumbra	47708	3	8	89	5	.71	.67	.49	.67	.61	.42	25% Polyester/75% Vinyl on Polyester
Nutley Pier	47709	3	6	91	4	.72	.68	.50	.68	.62	.42	25% Polyester/75% Vinyl on Polyester
Black Granite	47710	3	7	90	5	.72	.67	.50	.67	.61	.42	25% Polyester/75% Vinyl on Polyester

PLEXUS 5%

Openness: **5%**
 Max Fabric Width: **116"**
 UV Blockage: **95%**
 Railroad: **Available**
 Seaming: **Available**
 Shade Price Group: **SB**

Soapstone	47801	24	73	3	21	.30	.31	.31	.28	.29	.24	13% Polyester/87% Vinyl on Polyester
Renewal	47802	16	75	9	16	.26	.28	.29	.25	.27	.22	25% Polyester/75% Vinyl on Polyester
Chalcedony	47804	13	63	24	13	.35	.35	.32	.33	.33	.26	25% Polyester/75% Vinyl on Polyester
Stately	47805	13	55	32	13	.40	.40	.35	.38	.37	.28	25% Polyester/75% Vinyl on Polyester
Niche	47813	10	50	40	12	.43	.42	.36	.41	.40	.30	25% Polyester/75% Vinyl on Polyester
Landmark	47806	16	50	34	17	.45	.44	.37	.42	.40	.30	25% Polyester/75% Vinyl on Polyester
Provisions	47803	13	60	27	13	.37	.37	.34	.35	.35	.27	25% Polyester/75% Vinyl on Polyester
Travertine	47807	9	39	52	11	.51	.49	.40	.48	.45	.33	25% Polyester/75% Vinyl on Polyester
Tranquility	47811	10	38	52	10	.52	.50	.41	.49	.46	.33	13% Polyester/87% Vinyl on Polyester
Sublime Gray	47812	7	18	75	9	.65	.62	.47	.61	.56	.39	13% Polyester/87% Vinyl on Polyester
Penumbra	47808	6	8	86	9	.72	.68	.50	.67	.61	.42	25% Polyester/75% Vinyl on Polyester
Nutley Pier	47809	5	6	89	8	.73	.69	.50	.68	.62	.42	25% Polyester/75% Vinyl on Polyester
Black Granite	47810	7	7	86	10	.73	.68	.50	.68	.62	.42	25% Polyester/75% Vinyl on Polyester

The solar optical properties are used to calculate the shading coefficient. The shading coefficient represents the percentage of solar heat gain that is transmitted to the interior through the glass and shading system. Darker colors provide maximum glare reduction and visibility. Lighter colors provide maximum heat reflection and reduced visibility.

Ts = Solar Transmittance 1/4CL = 1/4" Clear Glass
 Rs = Solar Reflectance 1/4HA = 1/4" Heat Absorbing Glass
 As = Solar Absorptance 1/2CL = 1/2" Insulating Clear Glass
 Tv = Visual Transmittance 1CL = 1" Insulating Clear Glass
 1/8CL = 1/8" Clear Glass 1HA = 1" Insulating Heat Absorbing Glass

CERTIFICATIONS:

Bacterial and Fungal Resistance	ASTM G21 & ASTM E2180
Environmental Certification	Greenguard Gold
Fire Classification	NFPA 701 TM#1

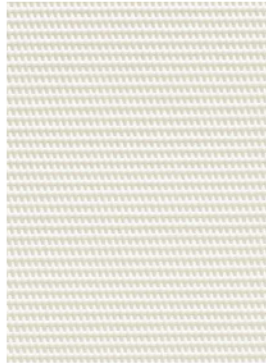


BROADCAST

1% OPENNESS



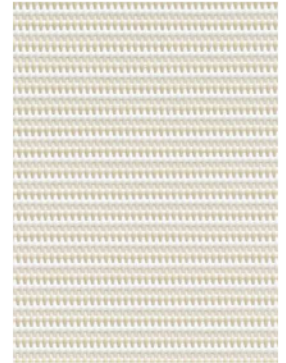
**BROADCAST
CONSTELLATION**



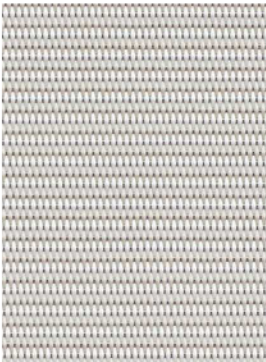
**BROADCAST
AUSTERE**



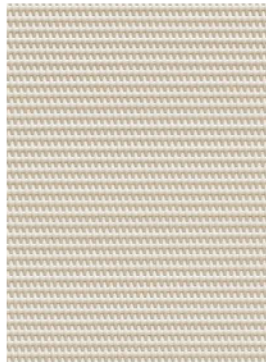
**BROADCAST
CONTINENTAL**



**BROADCAST
SIMPLICITY**



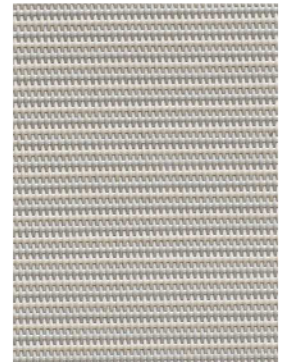
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SONNET**



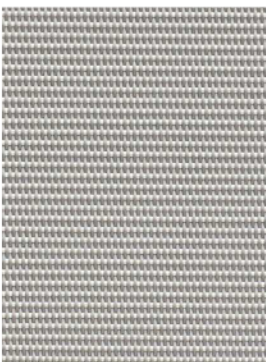
**BROADCAST
CASHMERE**



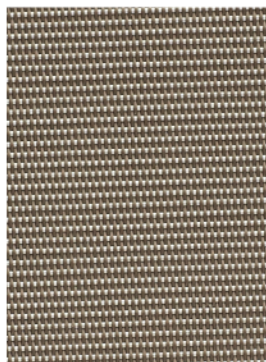
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ALFRESCO**



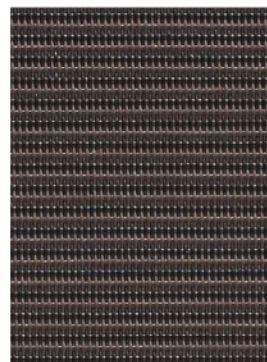
**BROADCAST
MOTIF**



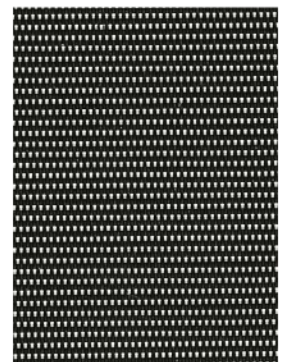
**BROADCAST
GENUINE**



**BROADCAST
GOURMET**



**BROADCAST
TALIESIN**



**BROADCAST
SERENADE**

STANDARD WEAVE

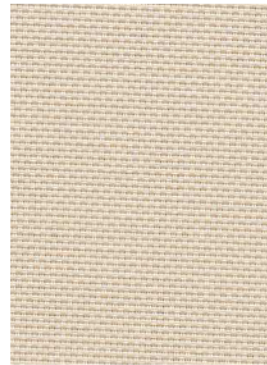
1%, 3%, 5%, AND 10% OPENNESS



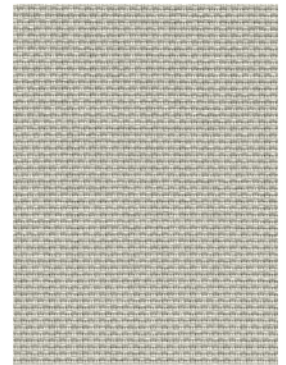
STANDARD WEAVE
CALCITE



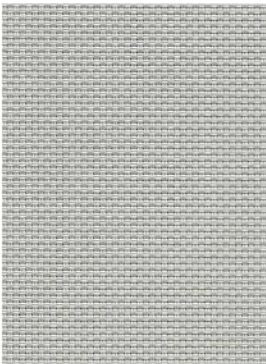
STANDARD WEAVE
DAIKON



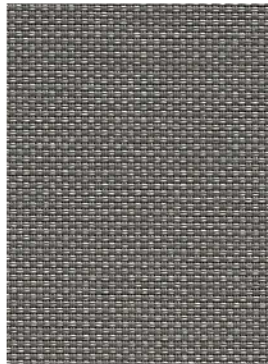
STANDARD WEAVE
INFALLIBLE



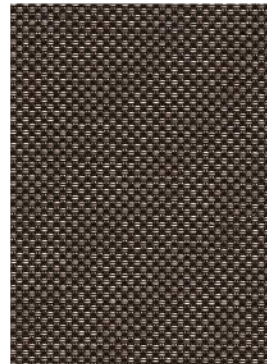
STANDARD WEAVE
ONCE



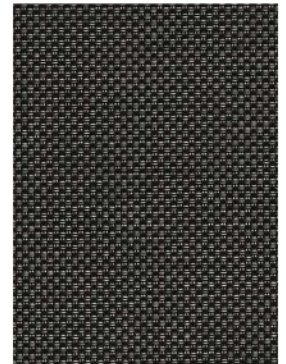
STANDARD WEAVE
VERANDA



STANDARD WEAVE
POLISHED



STANDARD WEAVE
CAFÉ DOPPIO



STANDARD WEAVE
CHISELED

STANDARD WEAVE

1%, 3%, 5%, AND 10% OPENNESS

FENESTRATION PROPERTIES

STANDARD WEAVE 1%

Openness: **1%**
 Max Fabric Width: **116"**
 UV Blockage: **99%**
 Railroad: **Available**
 Seaming: **Available**
 Shade Price Group: **SB**

		Solar Optical Properties				Shading Coefficient w/						
						Single			Insulating			
Color Name		Ts	Rs	As	Tv	1/8 CL	1/4 CL	1/4 HA	1/2 CL	1CL	1HA	Fabric Composition:
Calcite	47901	20	75	5	15	.27	.28	.29	.26	.27	.23	24% Polyester/76% Vinyl on Polyester
Daikon	47902	24	60	16	19	.40	.39	.35	.37	.36	.28	25% Polyester/75% Vinyl on Polyester
Infallible	47903	11	55	34	6	.40	.39	.35	.38	.37	.28	25% Polyester/75% Vinyl on Polyester
Once	47904	9	33	58	6	.55	.53	.42	.52	.48	.35	25% Polyester/75% Vinyl on Polyester
Veranda	47905	6	38	56	4	.51	.49	.40	.48	.45	.33	21% Polyester/79% Vinyl on Polyester
Polished	47906	1	16	83	2	.65	.62	.47	.61	.56	.39	24% Polyester/76% Vinyl on Polyester
Café Doppio	47907	2	7	91	3	.71	.67	.50	.67	.61	.42	21% Polyester/79% Vinyl on Polyester
Chiseled	47908	2	5	93	4	.73	.68	.50	.69	.62	.42	21% Polyester/79% Vinyl on Polyester

STANDARD WEAVE 3%

Openness: **3%**
 Max Fabric Width: **116"**
 UV Blockage: **97%**
 Railroad: **Available**
 Seaming: **Available**
 Shade Price Group: **SA**

Color Name		Ts	Rs	As	Tv	1/8 CL	1/4 CL	1/4 HA	1/2 CL	1CL	1HA	Fabric Composition:
Calcite	48201	22	72	6	18	.30	.31	.31	.28	.29	.24	24% Polyester/76% Vinyl on Polyester
Daikon	48202	23	70	7	18	.32	.32	.31	.30	.31	.25	18% Polyester/82% Vinyl on Polyester
Infallible	48203	12	53	35	7	.42	.41	.36	.39	.38	.29	18% Polyester/82% Vinyl on Polyester
Once	48204	8	32	60	6	.55	.53	.42	.52	.49	.35	18% Polyester/82% Vinyl on Polyester
Veranda	48205	7	37	56	7	.52	.50	.40	.49	.46	.33	21% Polyester/79% Vinyl on Polyester
Polished	48206	3	15	82	4	.66	.63	.47	.62	.57	.39	24% Polyester/76% Vinyl on Polyester
Café Doppio	48207	4	7	89	5	.72	.68	.50	.68	.61	.42	21% Polyester/79% Vinyl on Polyester
Chiseled	48208	4	5	91	6	.73	.69	.50	.69	.62	.42	21% Polyester/79% Vinyl on Polyester

STANDARD WEAVE 5%

Openness: **5%**
 Max Fabric Width: **116"**
 UV Blockage: **95%**
 Railroad: **Available**
 Seaming: **Available**
 Shade Price Group: **SA**

Color Name		Ts	Rs	As	Tv	1/8 CL	1/4 CL	1/4 HA	1/2 CL	1CL	1HA	Fabric Composition:
Calcite	48301	25	70	5	22	.33	.33	.32	.30	.31	.25	24% Polyester/76% Vinyl on Polyester
Daikon	48302	26	69	5	20	.34	.34	.32	.31	.32	.25	16% Polyester/84% Vinyl on Polyester
Infallible	48303	14	52	34	10	.43	.42	.36	.40	.39	.29	16% Polyester/84% Vinyl on Polyester
Once	48304	10	32	58	9	.56	.54	.43	.53	.49	.35	16% Polyester/84% Vinyl on Polyester
Veranda	48305	10	37	53	10	.53	.51	.41	.50	.46	.34	21% Polyester/79% Vinyl on Polyester
Polished	48306	5	15	80	7	.67	.63	.47	.63	.57	.40	24% Polyester/76% Vinyl on Polyester
Café Doppio	48307	6	7	87	8	.72	.68	.50	.68	.62	.42	21% Polyester/79% Vinyl on Polyester
Chiseled	48308	6	5	89	9	.74	.69	.51	.69	.63	.43	21% Polyester/79% Vinyl on Polyester

STANDARD WEAVE 10%

Openness: **10%**
 Max Fabric Width: **116"**
 UV Blockage: **90%**
 Railroad: **Available**
 Seaming: **Available**
 Shade Price Group: **SB**

Color Name		Ts	Rs	As	Tv	1/8 CL	1/4 CL	1/4 HA	1/2 CL	1CL	1HA	Fabric Composition:
Calcite	48401	30	66	4	29	.37	.37	.34	.34	.34	.27	24% Polyester/76% Vinyl on Polyester
Daikon	48402	28	68	4	23	.35	.35	.33	.32	.32	.26	16% Polyester/84% Vinyl on Polyester
Infallible	48403	18	52	30	15	.44	.43	.37	.41	.40	.30	16% Polyester/84% Vinyl on Polyester
Once	48404	15	37	48	14	.54	.52	.42	.51	.47	.34	16% Polyester/84% Vinyl on Polyester
Veranda	48405	13	36	51	14	.54	.52	.42	.51	.47	.34	21% Polyester/79% Vinyl on Polyester
Polished	48406	11	15	74	16	.68	.64	.48	.64	.58	.40	24% Polyester/76% Vinyl on Polyester
Café Doppio	48407	8	7	85	12	.73	.69	.50	.68	.62	.42	21% Polyester/79% Vinyl on Polyester
Chiseled	48408	9	5	86	14	.75	.70	.51	.70	.63	.43	21% Polyester/79% Vinyl on Polyester

The solar optical properties are used to calculate the shading coefficient. The shading coefficient represents the percentage of solar heat gain that is transmitted to the interior through the glass and shading system. Darker colors provide maximum glare reduction and visibility. Lighter colors provide maximum heat reflection and reduced visibility.

Ts = Solar Transmittance 1/4CL = 1/4" Clear Glass
 Rs = Solar Reflectance 1/4HA = 1/4" Heat Absorbing Glass
 As = Solar Absorptance 1/2CL = 1/2" Insulating Clear Glass
 Tv = Visual Transmittance 1CL = 1" Insulating Clear Glass
 1/8CL = 1/8" Clear Glass 1HA = 1" Insulating Heat Absorbing Glass

CERTIFICATIONS:

Bacterial and Fungal Resistance	ASTM G21 & ASTM E2180
Environmental Certification	Greenguard Gold
Fire Classification	NFPA 701 TM#1

