





R-099
White
47", 60"



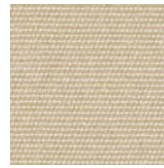
R-122
Seashell
47"



R-117
Raw
47", 60"



R-217
Ivory
47"



R-115
Cream
47"



R-791
Beige Slub Tweed
47"



R-180
Sand
47"



R-126
Linen
47", 60", 78", 98"



R-794
Sand Slub Tweed
47"



R-220
Argent
47"



R-133
Cinnamon
47"



R-222
Oak Buff
47"



R-100
Beige
47", 60"



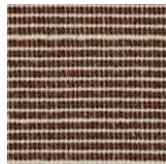
R-178
Toast
47", 60", 78", 98"



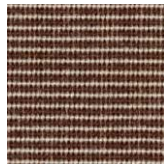
R-139
Heather Beige
47", 60", 78", 98"



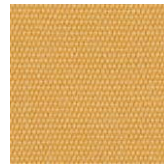
R-143
Hemp Beige
47", 60"



R-793
Linen Slub Tweed
47"



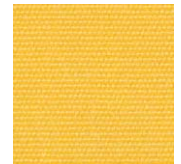
R-775
Linen Tweed
47", 60", 98"



R-149
Corn
47"



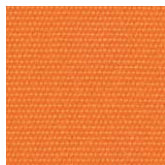
R-239
Yellow Tweed
47"



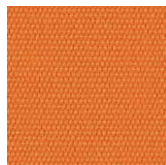
R-554
Yellow
47", 60"



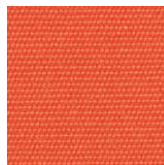
R-101
Mandarin
47"



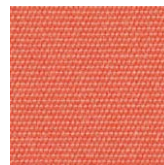
R-567
Orange
47", 60"



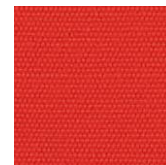
R-185
Pumpkin
47", 60"



R-241
Phoenix
47"



R-105
Salmon
47"



R-176
Red
47", 60"



R-182
Vermillion
47", 60"



R-177
Burgundy
47", 60", 78", 98"



R-104
Chestnut
47", 60"



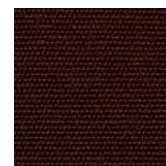
R-195
Cacao
47"



R-243
Tapenade
47", 60"



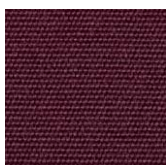
R-244
Dun
47", 60"



R-156
Brown
47", 60"



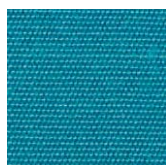
R-181
Coffee
47"



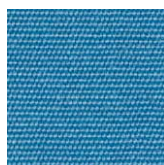
R-165
Mauve
47"



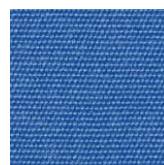
R-110
Lilly
47"



R-171
Turquoise
47", 60"



R-193
Light Blue
47"



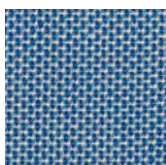
R-169
Steel Blue
47", 60"



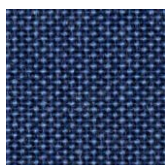
R-172
Blue
47", 60", 78", 98"



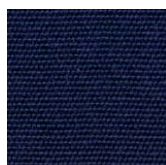
R-173
Dark Blue
47", 60", 78"



R-229
Sapphire
47"



R-232
Denim
47"



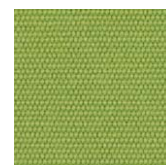
R-170
Admiral Blue
47", 60", 78"



R-174
Navy Blue
47", 60"



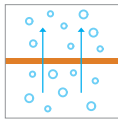
R-175
Captain Navy
47", 60", 78", 98"



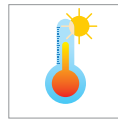
R-160
Pistachio
47"



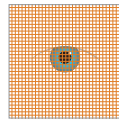
R-187
Jade
47"



Permeability
to steam



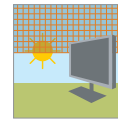
Thermal
comfort



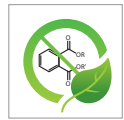
Privacy



Partial
darkening



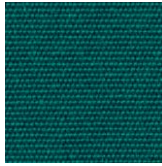
Glare control



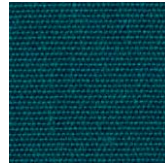
Free from
phthalates



R-162
Khaki
47"



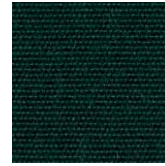
R-142
Emerald
47", 60"



R-163
Green
47", 60"



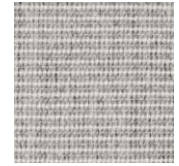
R-248
Hunter
47"



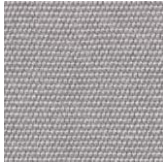
R-102
Forest Green
47", 60", 78", 98"



R-114
Pearl
47", 60"



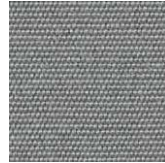
R-197
Lead Tweed
47"



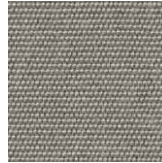
R-186
Silver
47"



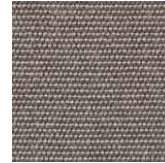
R-196
Titanium
47"



R-123
Argenta Grey
47", 60"



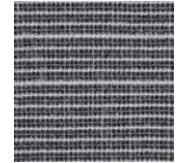
R-138
Cadet Grey
47", 60", 78", 98"



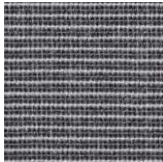
R-161
Grey
47", 60"



R-127
Moonrock
47", 60", 98"



R-792
Taupe Slub Tweed
47"



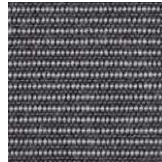
R-776
Taupe Tweed
47"



R-194
Ash
47", 60", 78"



R-198
Nickel
47", 60", 78"



R-774
Smoke Tweed
47"



R-164
Charcoal Grey
47", 60"



R-770
Charcoal Tweed
47", 60", 98"



R-150
Dark Grey
47"

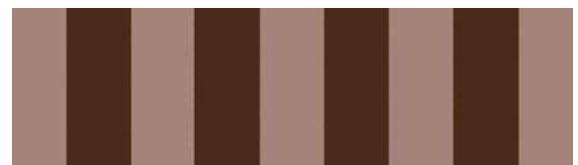


R-103
Black
47", 60", 78", 98"

CONTACT US FOR OTHER AVAILABLE REFERENCES



54 fancy colors
Gray, Brown, Yellow, Red, Blue, Green



6 classic striped colors

RECASENS USA
BCN 1886

Thermal Properties (*)										Visual Properties							
Recacril		Thermal Factors							UV		Optical Factors						
		Fabric			Fabric + Glazing in Parallel Position						TV n-h ($\tau_{v, nh}$)	TV n-n ($\tau_{v, nn}$)	RV n-h ($\rho_{v, nh}$)	Visual Comfort Class			
					Type C Glazing		Type D Glazing		Glare Control	Night Time Privacy				Visual Contact with the Outside	Use of Daylight		
Ref.	Color	TS ($\tau_{e,B}$)	RS ($\rho_{e,B}$)	AS ($\alpha_{e,B}$)	$g_{tot ext}$	Thermal Comfort Class	$g_{tot ext}$	Thermal Comfort Class	(τ_{uv})	TV n-h ($\tau_{v, nh}$)	TV n-n ($\tau_{v, nn}$)	RV n-h ($\rho_{v, nh}$)	Glare Control	Night Time Privacy	Visual Contact with the Outside	Use of Daylight	
R-099	White	25.9	67.8	6.3	0.18	2	0.12	3	11.9	27.4	0.0	69.5	2	2	0	3	
R-122	Seashell	21.0	60.7	18.3	0.16	2	0.10	3	8.8	21.1	0.0	61.1	2	2	0	2	
R-117	Raw	21.1	61.4	17.5	0.16	2	0.10	3	7.3	17.7	0.0	58.0	2	2	0	2	
R-217	Ivory	21.6	58.0	20.4	0.16	2	0.11	3	6.2	16.7	0.0	52.9	2	2	0	2	
R-115	Cream	14.6	49.5	35.9	0.13	3	0.09	4	3.3	13.0	0.0	48.2	2	3	0	2	
R-791	Beige Slub Tweed	19.3	57.0	23.7	0.15	3	0.10	3	4.5	14.2	0.0	51.2	2	3	0	2	
R-180	Sand	15.1	51.5	33.4	0.13	3	0.09	4	2.3	9.1	0.0	44.5	2	3	0	1	
R-126	Linen	16.2	48.3	35.5	0.14	3	0.10	4	1.1	6.1	0.0	36.6	2	3	0	1	
R-794	Sand Slub Tweed	10.0	41.2	48.8	0.11	3	0.08	4	1.7	6.4	0.0	36.1	2	3	0	1	
R-220	Argent	5.9	37.7	56.4	0.09	4	0.07	4	0.9	3.7	0.0	33.7	3	4	0	1	
R-133	Cinnamon	11.7	41.9	46.4	0.12	3	0.09	4	1.9	6.9	0.0	35.2	2	3	0	1	
R-222	Oak Buff	16.6	48.2	35.2	0.14	3	0.10	4	0.6	7.6	0.0	39.0	2	3	0	1	
R-100	Beige	15.3	46.1	38.6	0.14	3	0.10	4	0.5	4.5	0.0	33.6	2	3	0	1	
R-178	Toast	10.6	41.2	48.2	0.11	3	0.08	4	0.0	0.8	0.0	26.0	4	4	0	0	
R-139	Heather Beige	4.1	29.3	66.6	0.09	4	0.07	4	0.1	0.8	0.0	22.4	4	4	0	0	
R-143	Hemp Beige	10.7	37.1	52.2	0.12	3	0.09	4	0.0	0.4	0.0	20.0	4	4	0	0	
R-793	Linen Slub Tweed	4.2	21.8	74.0	0.09	4	0.08	4	0.4	1.9	0.0	17.8	4	4	0	0	
R-775	Linen Tweed	4.4	23.8	71.8	0.09	4	0.08	4	0.6	2.3	0.0	20.0	3	4	0	1	
R-149	Corn	12.1	40.4	47.5	0.12	3	0.09	4	0.1	5.3	0.0	35.9	2	3	0	1	
R-239	Yellow Tweed	18.6	53.8	27.6	0.15	3	0.10	3	0.4	15.9	0.0	56.0	2	2	0	2	
R-554	Yellow	17.2	51.2	31.6	0.14	3	0.10	4	0.2	13.3	0.0	50.6	2	3	0	2	
R-101	Mandarin	16.9	46.0	37.1	0.15	3	0.10	3	0.2	5.7	0.0	30.6	2	3	0	1	
R-567	Orange	15.6	44.8	39.6	0.14	3	0.10	4	0.5	4.7	0.0	25.8	2	3	0	1	
R-185	Pumpkin	9.3	39.7	51.0	0.11	3	0.08	4	0.0	0.8	0.0	22.0	4	4	0	0	
R-241	Phoenix	16.5	44.6	38.9	0.14	3	0.10	3	0.1	2.9	0.0	19.0	3	4	0	1	
R-105	Salmon	17.3	45.9	36.8	0.15	3	0.10	3	0.4	3.7	0.0	23.9	3	4	0	1	
R-176	Red	13.6	39.1	47.3	0.13	3	0.10	4	0.0	0.7	0.0	10.3	4	4	0	0	
R-182	Vermillion	11.2	39.3	49.5	0.12	3	0.09	4	0.0	0.1	0.0	7.4	4	4	0	0	
R-177	Burgundy	4.3	26.0	69.7	0.09	4	0.07	4	0.0	0.0	0.0	4.9	4	4	0	0	
R-104	Chestnut	1.5	21.6	76.9	0.08	4	0.07	4	0.0	0.0	0.0	8.1	4	4	0	0	
R-195	Cacao	0.3	12.7	87.0	0.08	4	0.07	4	0.0	0.0	0.0	7.2	4	4	0	0	
R-243	Tapenade	0.2	14.3	85.5	0.08	4	0.07	4	0.0	0.0	0.0	10.9	4	4	0	0	
R-244	Dun	0.6	10.9	88.5	0.08	4	0.07	4	0.0	0.1	0.0	8.3	4	4	0	0	
R-156	Brown	0.0	4.8	95.2	0.09	4	0.08	4	0.0	0.0	0.0	3.3	4	4	0	0	
R-181	Coffee	0.0	4.4	95.6	0.09	4	0.08	4	0.1	0.0	0.0	3.0	4	4	0	0	
R-165	Mauve	9.7	27.9	62.4	0.12	3	0.09	4	0.0	0.0	0.0	5.7	4	4	0	0	
R-110	Lilly	11.8	42.1	46.1	0.12	3	0.09	4	0.5	0.6	0.0	19.0	4	4	0	0	
R-171	Turquoise	9.9	35.2	54.9	0.12	3	0.09	4	0.1	1.7	0.0	21.7	4	4	0	0	
R-193	Light Blue	14.4	42.5	43.1	0.13	3	0.10	4	0.5	2.9	0.0	25.8	3	4	0	1	
R-169	Steel Blue	12.0	37.2	50.8	0.13	3	0.09	4	0.2	0.9	0.0	16.4	4	4	0	0	
R-172	Blue	2.0	18.8	79.2	0.08	4	0.07	4	0.0	0.0	0.0	5.5	4	4	0	0	
R-173	Dark Blue	3.8	21.7	74.5	0.09	4	0.08	4	0.0	0.0	0.0	3.4	4	4	0	0	
R-229	Sapphire	9.1	35.8	55.1	0.11	3	0.08	4	1.0	3.9	0.0	24.4	3	4	0	1	
R-232	Denim	2.5	16.7	80.8	0.09	4	0.08	4	0.2	0.5	0.0	8.8	4	4	0	0	
R-170	Admiral Blue	0.1	9.3	90.6	0.08	4	0.07	4	0.0	0.0	0.0	3.0	4	4	0	0	
R-174	Navy Blue	0.0	5.6	94.4	0.08	4	0.08	4	0.0	0.0	0.0	2.3	4	4	0	0	
R-175	Captain Navy	0.0	5.7	94.3	0.08	4	0.08	4	0.0	0.0	0.0	2.2	4	4	0	0	
R-160	Pistachio	9.0	35.7	55.3	0.11	3	0.08	4	0.0	1.4	0.0	30.7	4	4	0	0	
R-187	Jade	10.0	34.1	55.9	0.12	3	0.09	4	0.0	0.6	0.0	20.6	4	4	0	0	
R-162	Khaki	0.2	11.8	88.0	0.08	4	0.07	4	0.0	0.0	0.0	9.6	4	4	0	0	
R-142	Emerald	2.3	15.8	81.9	0.09	4	0.08	4	0.0	0.2	0.0	9.1	4	4	0	0	
R-163	Green	4.7	21.1	74.2	0.10	4	0.08	4	0.0	0.0	0.0	6.6	4	4	0	0	
R-248	Hunter	0.0	6.3	93.7	0.08	4	0.07	4	0.0	0.0	0.0	5.1	4	4	0	0	
R-102	Forest Green	0.0	6.3	93.7	0.08	4	0.07	4	0.0	0.0	0.0	3.9	4	4	0	0	
R-114	Pearl	14.2	50.5	35.3	0.13	3	0.09	4	6.9	13.9	0.0	50.1	2	3	0	2	
R-197	Lead Tweed	10.4	44.2	45.4	0.11	3	0.08	4	5.1	10.9	0.0	45.1	2	3	0	2	
R-186	Silver	9.4	41.8	48.8	0.11	3	0.08	4	2.4	5.0	0.0	35.2	2	3	0	1	
R-196	Titanium	2.3	27.7	70.0	0.08	4	0.07	4	1.3	2.3	0.0	27.9	3	4	0	1	
R-123	Argenta Grey	4.1	29.8	66.1	0.09	4	0.07	4	0.6	2.1	0.0	25.9	3	4	0	1	
R-138	Cadet Grey	3.3	29.7	67.0	0.08	4	0.07	4	0.6	1.9	0.0	26.7	4	4	0	0	
R-161	Grey	1.7	24.2	74.1	0.08	4	0.07	4	0.3	0.8	0.0	21.2	4	4	0	0	
R-127	Moonrock	0.4	14.8	84.8	0.08	4	0.07	4	0.0	0.1	0.0	12.4	4	4	0	0	
R-792	Taupe Slub Tweed	2.2	21.7	76.1	0.08	4	0.07	4	0.6	1.4	0.0	18.3	4	4	0	0	
R-776	Taupe Tweed	2.2	22.1	75.7	0.08	4	0.07	4	0.5	1.3	0.0	18.6	4	4	0	0	
R-194	Ash	0.3	9.8	89.9	0.08	4	0.07	4	0.3	0.3	0.0	9.9	4	4	0	0	
R-198	Nickel	9.1	29.6	61.3	0.12	3	0.09	4	0.0	0.0	0.0	11.2	4	4	0	0	
R-774	Smoke Tweed	0.9	16.1	83.0	0.08	4	0.07	4	0.2	0.4	0.0	13.0	4	4	0	0	
R-164	Charcoal Grey	0.1	9.5	90.4	0.08	4	0.07	4	0.0	0.0	0.0	6.4	4	4	0	0	
R-770	Charcoal Tweed	0.2	8.1	91.7	0.08	4	0.07	4	0.0	0.1	0.0	7.5	4	4	0	0	
R-150	Dark Grey	0.0	4.4	95.6	0.09	4	0.08	4	0.0	0.0	0.0	3.5	4	4	0	0	
R-103	Black	0.0	1.5	98.5	0.09	4	0.08	4	0.0	0.0	0.0	1.5	4	4	0	0	

THERMAL PROPERTIES FOR SOLAR PROTECTION DEVICES PROJECTING ON GLASS ()**

RECACRIL		FABRIC + Type C Glazing						FABRIC + Type D Glazing					
		$\beta = 90^\circ$		$\beta = 45^\circ$		$\beta = 30^\circ$		$\beta = 90^\circ$		$\beta = 45^\circ$		$\beta = 30^\circ$	
REF.	COLOR	$g_{tot\ ext}$	THERMAL COMFORT CLASS	$g_{tot\ ext}$	THERMAL COMFORT CLASS	$g_{tot\ ext}$	THERMAL COMFORT CLASS	$g_{tot\ ext}$	THERMAL COMFORT CLASS	$g_{tot\ ext}$	THERMAL COMFORT CLASS	$g_{tot\ ext}$	THERMAL COMFORT CLASS
R-099	White	0.33	2	0.26	2	0.22	2	0.18	2	0.14	3	0.12	3
R-122	Seashell	0.32	2	0.24	2	0.20	2	0.17	2	0.13	3	0.11	3
R-117	Raw	0.32	2	0.24	2	0.20	2	0.17	2	0.13	3	0.11	3
R-217	Ivory	0.32	2	0.24	2	0.21	2	0.17	2	0.13	3	0.11	3
R-115	Cream	0.29	2	0.21	2	0.18	2	0.16	2	0.11	3	0.10	4
R-791	Beige Slub Tweed	0.31	2	0.23	2	0.20	2	0.17	2	0.12	3	0.11	3
R-180	Sand	0.30	2	0.21	2	0.18	2	0.16	2	0.12	3	0.10	4
R-126	Linen	0.30	2	0.22	2	0.18	2	0.16	2	0.12	3	0.10	4
R-794	Sand Slub Tweed	0.28	2	0.19	2	0.16	2	0.15	2	0.11	3	0.09	4
R-220	Argent	0.26	2	0.18	2	0.14	3	0.14	3	0.10	4	0.08	4
R-133	Cinnamon	0.28	2	0.20	2	0.16	2	0.15	2	0.11	3	0.09	4
R-222	Oak Buff	0.30	2	0.22	2	0.19	2	0.16	2	0.12	3	0.10	3
R-100	Beige	0.30	2	0.21	2	0.18	2	0.16	2	0.12	3	0.10	4
R-178	Toast	0.28	2	0.20	2	0.16	2	0.15	2	0.11	3	0.09	4
R-139	Heather Beige	0.26	2	0.17	2	0.13	3	0.14	3	0.09	4	0.07	4
R-143	Hemp Beige	0.28	2	0.20	2	0.16	2	0.15	2	0.11	3	0.09	4
R-793	Linen Slub Tweed	0.26	2	0.17	2	0.13	3	0.14	3	0.09	4	0.07	4
R-775	Linen Tweed	0.26	2	0.17	2	0.13	3	0.14	3	0.09	4	0.07	4
R-149	Corn	0.29	2	0.20	2	0.17	2	0.16	2	0.11	3	0.09	4
R-239	Yellow Tweed	0.31	2	0.23	2	0.19	2	0.17	2	0.12	3	0.10	3
R-554	Yellow	0.30	2	0.22	2	0.19	2	0.16	2	0.12	3	0.10	3
R-101	Mandarin	0.30	2	0.22	2	0.19	2	0.16	2	0.12	3	0.10	3
R-567	Orange	0.30	2	0.22	2	0.18	2	0.16	2	0.12	3	0.10	4
R-185	Pumpkin	0.28	2	0.19	2	0.16	2	0.15	3	0.10	3	0.08	4
R-241	Phoenix	0.30	2	0.22	2	0.18	2	0.16	2	0.12	3	0.10	3
R-105	Salmon	0.30	2	0.22	2	0.19	2	0.16	2	0.12	3	0.10	3
R-176	Red	0.29	2	0.21	2	0.17	2	0.16	2	0.11	3	0.09	4
R-182	Vermillion	0.28	2	0.20	2	0.16	2	0.15	2	0.11	3	0.09	4
R-177	Burgundy	0.26	2	0.17	2	0.13	3	0.14	3	0.09	4	0.07	4
R-104	Chestnut	0.25	2	0.16	2	0.12	3	0.14	3	0.09	4	0.07	4
R-195	Cacao	0.25	2	0.16	2	0.12	3	0.13	3	0.08	4	0.06	4
R-243	Tapenade	0.24	2	0.16	2	0.12	3	0.13	3	0.08	4	0.06	4
R-244	Dun	0.25	2	0.16	2	0.12	3	0.13	3	0.09	4	0.06	4
R-156	Brown	0.24	2	0.15	2	0.12	3	0.13	3	0.08	4	0.06	4
R-181	Coffee	0.24	2	0.15	2	0.12	3	0.13	3	0.08	4	0.06	4
R-165	Mauve	0.28	2	0.19	2	0.16	2	0.15	2	0.10	3	0.08	4
R-110	Lily	0.28	2	0.20	2	0.17	2	0.15	2	0.11	3	0.09	4
R-171	Turquoise	0.28	2	0.19	2	0.16	2	0.15	2	0.10	3	0.09	4
R-193	Light Blue	0.29	2	0.21	2	0.18	2	0.16	2	0.11	3	0.10	4
R-169	Steel Blue	0.29	2	0.20	2	0.17	2	0.15	2	0.11	3	0.09	4
R-172	Blue	0.25	2	0.16	2	0.13	3	0.14	3	0.09	4	0.07	4
R-173	Dark Blue	0.26	2	0.17	2	0.13	3	0.14	3	0.09	4	0.07	4
R-229	Sapphire	0.28	2	0.19	2	0.15	2	0.15	3	0.10	3	0.08	4
R-232	Denim	0.25	2	0.16	2	0.13	3	0.14	3	0.09	4	0.07	4
R-170	Admiral Blue	0.24	2	0.15	2	0.12	3	0.13	3	0.08	4	0.06	4
R-174	Navy Blue	0.24	2	0.15	2	0.12	3	0.13	3	0.08	4	0.06	4
R-175	Captain Navy	0.24	2	0.15	2	0.12	3	0.13	3	0.08	4	0.06	4
R-160	Pistachio	0.28	2	0.19	2	0.15	2	0.15	3	0.10	3	0.08	4
R-187	Jade	0.28	2	0.19	2	0.16	2	0.15	2	0.11	3	0.09	4
R-162	Khaki	0.24	2	0.16	2	0.12	3	0.13	3	0.08	4	0.06	4
R-142	Emerald	0.25	2	0.16	2	0.13	3	0.14	3	0.09	4	0.07	4
R-163	Green	0.26	2	0.17	2	0.14	3	0.14	3	0.09	4	0.07	4
R-248	Hunter	0.24	2	0.15	2	0.12	3	0.13	3	0.08	4	0.06	4
R-102	Forest Green	0.24	2	0.15	2	0.12	3	0.13	3	0.08	4	0.06	4
R-114	Pearl	0.29	2	0.21	2	0.18	2	0.16	2	0.11	3	0.10	4
R-197	Lead Tweed	0.28	2	0.20	2	0.16	2	0.15	2	0.11	3	0.09	4
R-186	Silver	0.28	2	0.19	2	0.16	2	0.15	3	0.10	3	0.08	4
R-196	Titanium	0.25	2	0.16	2	0.13	3	0.14	3	0.09	4	0.07	4
R-123	Argenta Grey	0.26	2	0.17	2	0.13	3	0.14	3	0.09	4	0.07	4
R-138	Cadet Grey	0.26	2	0.17	2	0.13	3	0.14	3	0.09	4	0.07	4
R-161	Grey	0.25	2	0.16	2	0.12	3	0.14	3	0.09	4	0.07	4
R-127	Moonrock	0.25	2	0.16	2	0.12	3	0.13	3	0.08	4	0.06	4
R-792	Taupe Slub Tweed	0.25	2	0.16	2	0.13	3	0.14	3	0.09	4	0.07	4
R-776	Taupe Tweed	0.25	2	0.16	2	0.13	3	0.14	3	0.09	4	0.07	4
R-194	Ash	0.25	2	0.16	2	0.12	3	0.13	3	0.08	4	0.06	4
R-198	Nickel	0.28	2	0.19	2	0.15	2	0.15	3	0.10	3	0.08	4
R-774	Smoke Tweed	0.25	2	0.16	2	0.12	3	0.13	3	0.09	4	0.07	4
R-164	Charcoal Grey	0.24	2	0.15	2	0.12	3	0.13	3	0.08	4	0.06	4
R-770	Charcoal Tweed	0.24	2	0.16	2	0.12	3	0.13	3	0.08	4	0.06	4
R-150	Dark Grey	0.24	2	0.15	2	0.12	3	0.13	3	0.08	4	0.06	4
R-103	Black	0.24	2	0.15	2	0.12	3	0.13	3	0.08	4	0.06	4

THERMAL FACTORS

FABRIC

TS ($\tau_{e,b}$):	Solar transmittance factor of the fabric in %
RS ($\rho_{e,b}$):	Solar reflection factor of the fabric in %
AS ($\alpha_{e,b}$):	Solar absorption factor of the fabric in %

FABRIC + GLAZING

g_{tot ext} :	Total solar energy transmittance factor. Glass + fabric in parallel position / Fabric on the outside.
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(*) The g_{tot} values are provided for standard glazing types C and D. Please contact us to request the g_{tot} study relating to any other kind of standard glazing or specific glazing for the project.

(**) The g_{tot} values are provided for South-facing standard type C and D glazing. Please contact us to request the g_{tot} study for any other type of standard glazing or specific glazing of the project, as well as for the study relating to East/West or North orientations.

TYPES OF GLAZING

Type C Glazing:	g = 0.59 Total solar energy transmittance factor U = 1.20 W/(m ² .K) Thermal transmittance coefficient Double glazing (4mm float + 16mm chamber + 4mm float), with low emission coating in position 3 (outer surface of the indoor glass), chamber filled with argon.
Type D Glazing:	g = 0.32 Total solar energy transmittance factor U = 1.10 W/(m ² .K) Thermal transmittance coefficient Double glazing (4mm float + 16mm chamber + 4mm float), with low emission coating in position 2 (inner surface of the outdoor glass), chamber filled with argon.

ULTRAVIOLET FACTORS

TUV (τ_{uv}):	Total ultraviolet spectrum transmission factor in %
UPF :	Ultraviolet protection factor UV80 (Excellent protection)

$$100\% \text{ SOLAR RADIATION} = RS + AS + TS$$

RS SOLAR REFLECTION

Solar energy reflected by the material towards the outside

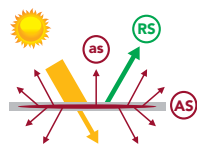
TS SOLAR TRANSMISSION

Solar energy that goes through the material.

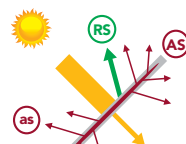
AS SOLAR ABSORPTION

Solar energy absorbed by the material.

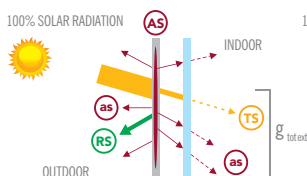
as solar radiation absorption in the form of heat outside and inside.



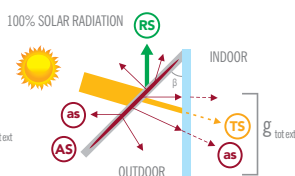
HORIZONTAL FABRIC WITHOUT GLASS



OBLIQUE FABRIC WITHOUT GLASS

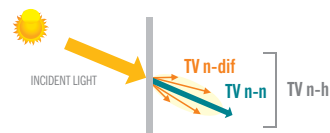


FABRIC PARALLEL TO THE GLASS OUTSIDE



FABRIC OBLIQUE TO THE GLASS

OPTICAL FACTORS



TV n-n ($\tau_{v, n-n}$):	Normal-normal light transmittance in %
TV n-dif ($\tau_{v, n-dif}$):	Normal-diffuse light transmittance in %
TV n-h ($\tau_{v, n-h}$):	Normal-hemispheric light transmittance in %
RV n-h ($\rho_{v, n-h}$):	Normal-hemispheric light reflectance in %

STANDARDS, TESTS AND CALCULATIONS

Solar and light characteristics determined according to the UNE-EN 410:2011 standard "Glass in building. Determination of luminous and solar characteristics of glazing" from the spectral measures of **transmittance and reflectance**, carried out according to the UNE-EN 14500:2010 standard "Blinds and shutters. Thermal and acoustic comfort. Test and calculation methods", **endorsed by trials carried out in an ENAC-accredited laboratory**.

g_{tot ext}, for glass and fabric in parallel position, calculates according to UNE-EN 13363-1:2003 + A1:2008 "Solar protection devices combined with glazing. Calculation of solar and light transmittance. Part 1: Simplified method".

Approximation of g_{tot ext}, for projecting solar protection devices, calculated according to UNE-EN 14500:2010 "Blinds and shutters. Thermal and acoustic comfort. Test and calculation methods".

Types of features for thermal comfort and visual comfort calculated according to UNE-EN 14501:2006 "Blinds and shutters. Thermal and visual comfort. Performance characteristics and classification" (0 Very small effect / 1 Small effect / 2 Moderate effect / 3 Efficient / 4 Very efficient).

Ultraviolet Protection Factor UV80, certified by an external laboratory according to UV Standard 801.

INTERIOR DESIGN AND DECORATION

INDOOR TEXTILE ARCHITECTURE		R	T
Decorative accessories		✓	✓

FACADES AND ENCLOSURES

AWNINGS		R	T
Folding awnings		✓	✓
Drop-arm awnings		✓	✓
Classic awnings		✓	✓
Invisible arm awnings (1)		✓	✓
Roller drop awnings (2)		✓	✓
Vertical or downward awnings		✓	✓
Hoods or fixed canopies		✓	✓
Retractable hoods or Dutch awnings		✓	✓
COVERINGS AND ENCLOSURES		R	T
Fixed pergolas and walkways		✓	
Verandas (3)		✓	
Pergolas with folding awning		✓	
Roofs with fabric enclosures		✓	
Walls with fabric enclosures		✓	✓ (**)

(1) Depending on awning model, up to 6.5m in line and 5m extension with 2 arms and Llaza ironworks. Ask for more information about maximum dimensions for multi-arm awnings.

(2) For awnings up to, approximately, 4/5m in line x 3/2.75m extension.

(3) Depending on model, up to 5/6m in line x 7/6m extension with 2 guides and Llaza ironworks, with both line and extension being adjustable whilst maintaining the same surface area of fabric. Ask for more information about maximum dimensions with more than 2 guides.

(4) Up to 6m in line and 2 x 3m extension, with 2 arms and Llaza ironworks.

(*) Small dimensions.

(**) Whenever reaction to fire is not required.

OUTDOORS AND TEXTILE ARCHITECTURE

OUTDOOR SOLAR PROTECTION		R	T
Umbrellas and sunshades		✓ (**)	✓ (**)
Self-supporting double awning (4)		✓ (**)	✓ (**)
Shade sails		✓ (*)	✓ (*)
Arbours		✓	
Canopies		✓	✓

recoril®
DESIGN LINE

RECASENS & LLAZA BIM

In order to facilitate the work of all those involved in the project, as well as to provide the possibility of performing an energy calculation for our products and adapting it to the specific project data, RECASENS & LLAZA subscribe to the BIM methodology, making their entire range of fabrics converted into BIM aims available to users. The BIM aims of RECASENS & LLAZA are available in Revit® and Archicad® formats, in Spanish and English. At www.bimetrica.com you will be able to do the following after registering:

- Download products in Revit®, Archicad®, IFC® formats, etc.
- Download catalogues and manuals
- Request information and advice for your project



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FABRIC CHARACTERISTICS	RECACRIL	STANDARD
Composition	100% Solution-dyed acrylic fiber	
Type of fabric	Reversible acrylic	
Finish	Special "Infinity" treatment for awnings that repels water and dirt, creating an anti-stain and anti-mould barrier, whilst allowing the canvas to breathe.	BS 7209:1990
Color range	71 colors	
Use	Outdoor	

TECHNICAL FEATURES		
Weight	9 oz/yd ² / 305 g/m ²	UNE-EN 12127:1998
Thickness	0,55 mm	UNE-EN ISO 5084:1997
Width	47" / 120 cm (standard) 60" / 152 cm (depending on reference) 78" / 198 cm and 98" / 250 cm (optional)	
Standard roll length	65.6 yards / 60 m	
Water column	≥ 300 mm	UNE-EN 20811:1993
Tensile strength (warp/weft)	165/85 daN/5 cm	
Elongation at break (warp/weft)	27.5/25.9%	UNE-EN ISO 13934-1:2013
Tear strength (warp/weft)	4.5/3 daN	UNE-EN ISO 13937-2:2001
Color fastness to artificial light - Xenotest	4-5 (Good - Excellent) Gray scale 7-8 (Very good - Excellent) Blue scale	UNE-EN ISO 105 B02:2014
Color fastness to artificial weathering - Xenotest	4 (Good) Gray scale	UNE-EN ISO 105 B04:1998
Oil repellency	≥ 5	UNE-EN ISO 14419:2010
Water repellency	≥ 5	UNE-EN ISO 4920:2013
Performance in saline environment	No blistering. No cracking. No change	UNE-EN ISO 9227:2012
Resistance to chemical agents diluted in water	Window cleaning fluid - No change Ammonia - No change Alcohol - No change Bleach - No change Grease removing detergent - Slight darkening	UNE-EN ISO 2812-1:2018
Antimicrobial activity	Up to 99,99% bacteria growth reduction No fungi growth, fungistatic fabric - Grade 0	AATCC Test Method 100:2012 UNE-EN ISO 846:1998

QUALITY MANAGEMENT SYSTEM		
ISO 9001		ISO 9001:2015

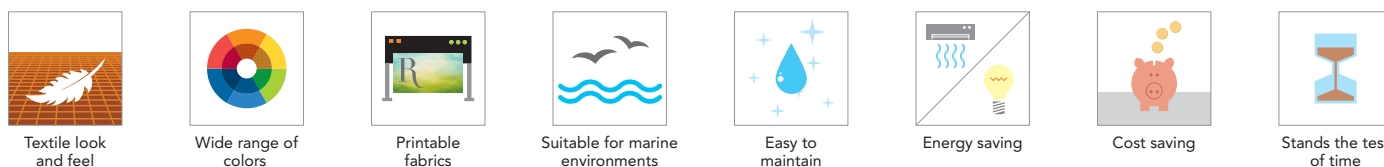
SAFETY, HEALTH AND ENVIRONMENT		
Ultraviolet protection factor - UPF	UV80 (Excellent protection)	UV Standard 801



TEST LABORATORIES



ADVANTAGES AND BENEFITS



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BCN 1886



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