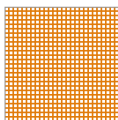


RecScreen®
Cristal

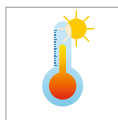
6%



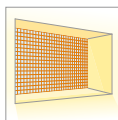
RECASENS
BCN 1886



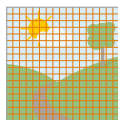
Medium opening



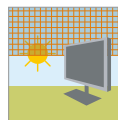
Thermal comfort



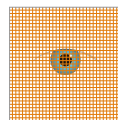
Natural light



Visibility to the outside



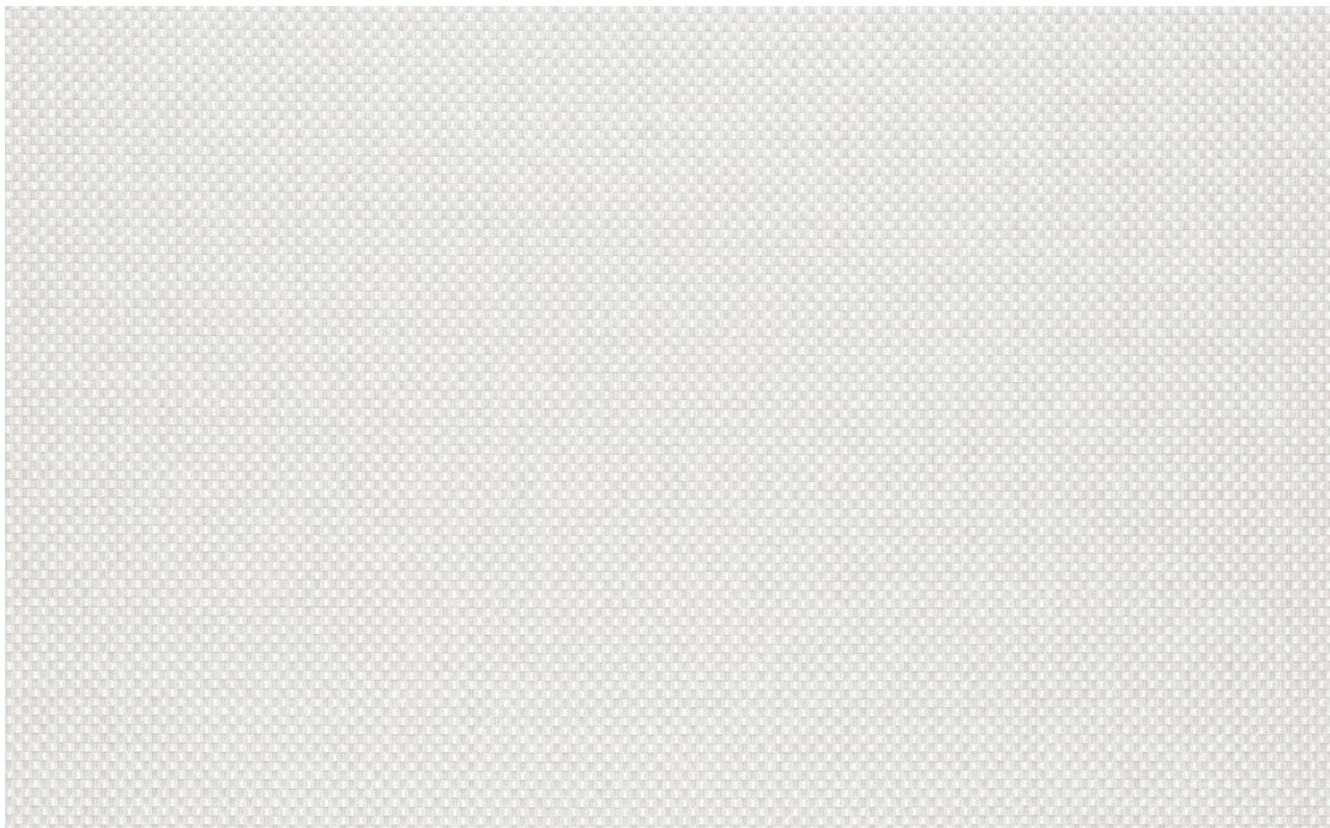
Glare control



Privacy



Decoration



R-800

Cristal-Cristal



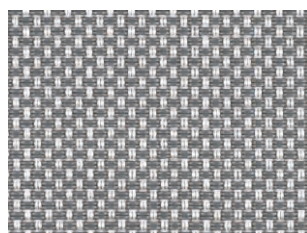
R-802

Cristal-Sable



R-805

Cristal-Silver



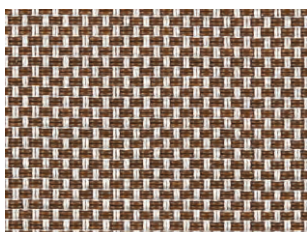
R-806

Cristal-Dark Gray



R-807

Cristal-Bronze



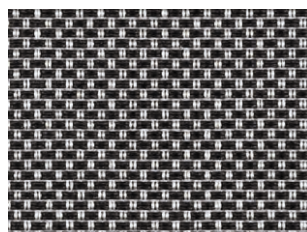
R-809

Cristal-Tobacco



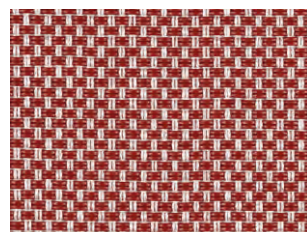
R-808

Cristal-Gold



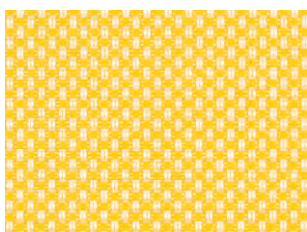
R-803

Cristal-Black



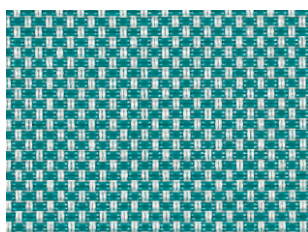
R-814

Cristal-Burgundy



R-812

Cristal-Yellow



R-815

Cristal-Green



R-810

Cristal-Blue



R-811

Cristal-Red

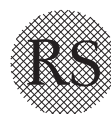
RECOMMENDED APPLICATIONS - RESIDENTIAL AND TERTIARY

INTERIOR DESIGN AND DECORATION			
INDOOR SOLAR PROTECTION		R	T
Roller blinds or curtains for windows		✓	
Roller blinds or curtains for enclosures		✓	
Roller blinds for roof windows		✓	
Folding blinds		✓	
Vertical blinds		✓	
Japanese panels		✓	
Folding awnings		✓	
INDOOR FURNITURE		R	T
Cushions		✓	✓
Armchairs and sofas (*)		✓	✓ (*)
Seats and chairs (*)		✓	✓ (*)
Footstools and pouffes		✓	✓
INDOOR TEXTILE ARCHITECTURE		R	T
Wall coverings		✓	
Ceiling coverings		✓	
Ceilings with skylights		✓	
Separators and screens		✓	
Wrappings for isolated elements		✓	
Decorative accessories		✓	

OUTDOORS AND TEXTILE ARCHITECTURE			
OUTDOOR FURNITURE		R	T
Cushions		✓	✓
Sun loungers		✓	✓
Armchairs and sofas		✓	✓
Seats and chairs		✓	✓
Footstools and pouffes		✓	✓



(*) For upholstery of mobile furniture (not for upholstery for fixed seats that make up part of the project in cinemas, theatres, auditoriums, assembly halls, etc.)



RecScreen®
Cristal

THERMAL FACTORS

RECScreen Cristal 6% openness factor		THERMAL FACTORS							UV
		FABRIC			FABRIC + GLAZING IN PARALLEL POSITION				TUV (τ_{uv})
					Type C Glazing		Type D Glazing		
REF.	COLOUR	TS ($\tau_{e,B}$)	RS ($\rho_{e,B}$)	AS ($\alpha_{e,B}$)	$g_{tot\ int}$	THERMAL COMFORT CLASS	$g_{tot\ int}$	THERMAL COMFORT CLASS	
R-800	Cristal-Cristal	48,8	41,1	10,1	0,44	1	0,28	2	7,2
R-802	Cristal-Sable	28,5	38,4	33,1	0,45	1	0,28	2	6,4
R-803	Cristal-Black	12,9	12,5	74,6	0,53	0	0,30	2	6,3
R-805	Cristal-Silver	29,4	32,9	37,7	0,47	1	0,28	2	5,1
R-806	Cristal-Dark Gray	15,2	19,8	65,0	0,51	0	0,29	2	6,1
R-807	Cristal-Bronze	18,2	18,1	63,7	0,51	0	0,29	2	8,0
R-808	Cristal-Gold	18,6	22,7	58,7	0,50	1	0,29	2	6,8
R-809	Cristal-Tobacco	12,8	16,4	70,8	0,52	0	0,29	2	6,0
R-810	Cristal-Blue	26,6	30,0	43,4	0,48	1	0,28	2	6,4
R-811	Cristal-Red	34,1	33,8	32,1	0,46	1	0,28	2	5,8
R-812	Cristal-Yellow	34,5	41,2	24,3	0,44	1	0,27	2	6,0
R-814	Cristal-Burgundy	28,8	29,4	41,8	0,48	1	0,28	2	6,4
R-815	Cristal-Green	25,9	23,9	50,2	0,49	1	0,29	2	6,5

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.

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

$g_{tot\ int}$: Total solar energy transmittance factor.
Glass + fabric in parallel position / Fabric on the inside.

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 %

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



SOLAR REFLECTION

Solar energy reflected by the material
towards the outside



SOLAR TRANSMISSION

Solar energy that goes through
the material.

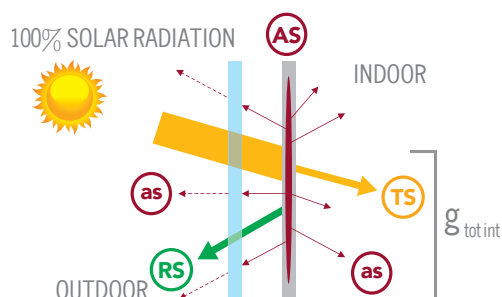


SOLAR ABSORPTION

Solar energy absorbed by the material.



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



FABRIC PARALLEL TO THE GLASS INSIDE

BIM RECASENS & LLAZA

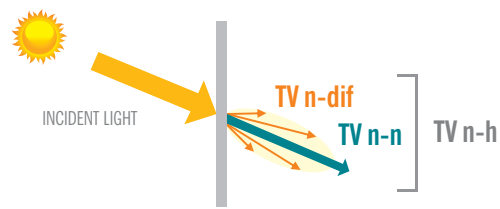
In order to facilitate the work of all those involved in the project, as well as to provide the possibility of performing an energy calculation for our products and adapting it to the specific project data, RECASENS & LLAZA subscribe to the BIM methodology, making their entire range of fabrics converted 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.bimobject.com/es 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

bimobject®

VISUAL PROPERTIES

RECScreen Cristal 6% openness factor		OPTICAL FACTORS
REF.	COLOUR	TV n-h ($\tau_{v, n-h}$)
R-800	Cristal-Cristal	52,3
R-802	Cristal-Sable	24,8
R-803	Cristal-Black	13,2
R-805	Cristal-Silver	27,5
R-806	Cristal-Dark Gray	14,4
R-807	Cristal-Bronze	17,3
R-808	Cristal-Gold	17,9
R-809	Cristal-Tobacco	12,4
R-810	Cristal-Blue	15,5
R-811	Cristal-Red	17,8
R-812	Cristal-Yellow	31,5
R-814	Cristal-Burgundy	14,5
R-815	Cristal-Green	18,9



OPTICAL FACTORS

TV n-h ($\tau_{v, n-h}$):
Normal-hemispheric light transmittance in %

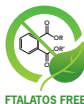


FABRIC CHARACTERISTICS	RECSCREEN CRISTAL	STANDARD
Composition	30% PES HT - 70% PVC	
Type of fabric	Panama polyester screen	
Yarn diameter	0,30 mm	
Openness factor	6%	UNE-EN 14500:2010
Colour range	13 colours	
Use	Indoor and Outdoor	

TECHNICAL FEATURES		
Weight	405 g/m ² / 12 oz/yd ²	UNE-EN 12127:1998
Thickness	0,51 mm	UNE-EN ISO 5084:1997
Width	300 cm / 118"	
Standard roll length	30 m / 32.8 yards	
Tensile strength (warp/weft)	160/150 daN/5 cm	UNE-EN ISO 13934-1:2013
Tear strength (warp/weft)	6/6 daN	UNE-EN ISO 13937-2:2001
Colour fastness to artificial light - Xenotest	4-5 (Good - Excellent) Grey scale 7-8 (Very good - Excellent) Blue scale	UNE-EN ISO 105 B02:2014
Colour fastness to artificial weathering - Xenotest	4-5 (Good-Excellent) Grey scale	UNE-EN ISO 105 B04:1998
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		
Odour test at temperature of (40 ± 2)°C	2 (Perceptible, not unpleasant)	PV-3900:2000-08
Odour test at temperature of (80 ± 2)°C	3 (Clearly perceptible, still not unpleasant)	



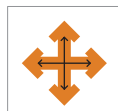
TEST LABORATORIES



ADVANTAGES AND BENEFITS



Textile look and feel



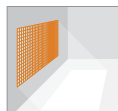
Dimensional stability



Rolling quality



No cone effect



No colour distortion



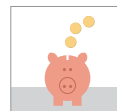
Printable fabrics



Easy to maintain



Energy saving



Cost saving



Stands the test of time



RECASENS
BCN 1886



HEADQUARTERS:

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www.recasens.com