



VISUAL CONTACT OUTSIDE

CRADLE TO CRADLE CERTIFICATION
IN PROCESS



FLAME RETARDANT



COLD KNIFE, CRUSH CUT OR ULTRA-
SONIC



100% RECYCLED PET



HALOGEN FREE



INDOOR AIR QUALITY CERTIFIED



MANUFACTURED IN THE EU
AND REACH COMPLIANT

SeaPlanet FR is a 100% recycled and recyclable fabric made of plastic collected at the bottom of the sea.

With SeaPlanet FR we help to clean the ocean at the same time we offer our customers a technical textile solution for the manufacturing of blinds.



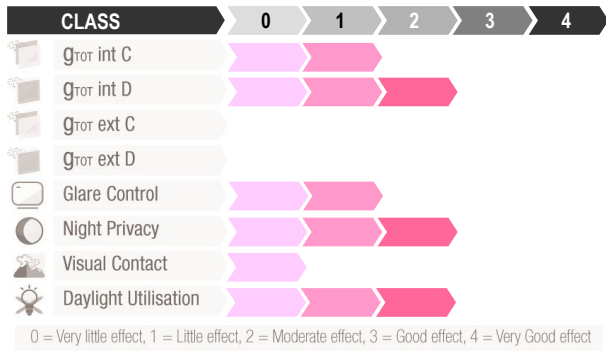
TECHNICAL PROPERTIES		
Fabric Characteristic	Standard	
Composition	-	100% Recycled PET
Weight (g/ m²)	EN 12127	168 ± 5%
Thickness (mm)	EN ISO 5084	0.31 ± 5%
Fire Reaction	DIN 4102 NF P 92 503 EN 13501-1 NFPA 701	B1 M1 Bs1d0 Pass
Light Fastness (Xenotest grade)	ISO 105 B02:2002	> 6
Tearing resistance (daN)	EN ISO 13937-3:2001	Warp: 3.6 Weft: 5.1
Breaking resistance (daN)	EN ISO 13934-1:1999	Warp: 69 Weft: 126
Stretch (%)	EN ISO 13934-1:1999	Warp: 33 % Weft: 33 %
Opennes Factor		5 %
Roll Size		Width : 260 cm Length: 37 m

SUN CONTROL PROPERTIES															
	THERMAL FACTORS						OPTICAL FACTORS								
	Fabric		Fabric+Glazing												
	% T _s	% R _s	G _{TOT} internal Glazing C		G _{TOT} internal Glazing D		% T _v	% R _v	% τ _{n-n}	% τ _{v,n-diff}	% t _{uv}	Glare Control	Night Privacy	Visual Contact	Daylight Utilisation
Colour			G _{TOT}	Class	G _{TOT}	Class						Class	Class	Class	Class
White	32	57	0.36	1	0.24	2	28	66	4	24	4	1	2	0	2
Shadow	33	49	0.38	1	0.25	2	28	53	4	24	5	1	2	0	2
Pebble	19	30	0.43	1	0.26	2	14	32	4	10	5	1	2	1	2
Pearl	12	17	0.46	1	0.27	2	8	18	5	3	5	2	2	2	1

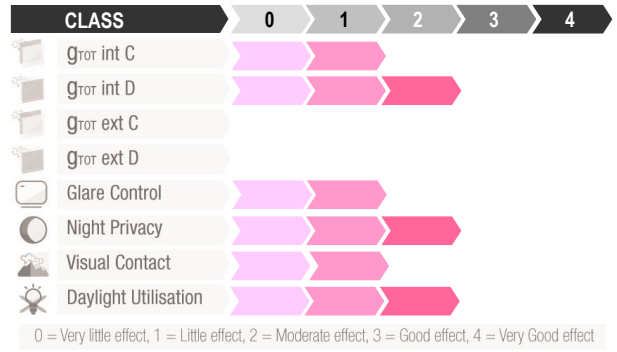
Data measured according to EN 410:2011 and EN 14500:2008
Calculations of g_{TOT} are according to EN 13363-1, with 10% frame area.
Classification of thermal and visual characteristics according to EN 14501:2005
Data of g_{TOT} are given using standard Glazing C and D. though any other combination may be calculated under request

V.E.S.T. diagrams (Vertisol Efficiency Scale Table), based on standard EN 14501 have been developed by Vertisol as a useful tool in the selection of the right shading for each situation:

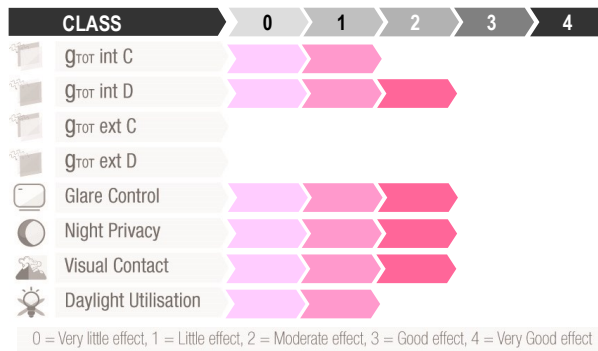
White, Shadow



Pebble



Pearl



Thermal and visual properties

European Standard **EN 14501** states the properties that shall be taken into account when comparing solar protection devices. It also specifies the corresponding parameters and classifications to quantify its properties of **thermal and visual comfort**. Five performance classes are specified:

Class	Influence on thermal or visual comfort				
	0	1	2	3	4
	very little effect	little effect	moderate effect	good effect	very good effect

- %Ts**
($\tau_{e, n-h}$) Normal/hemispherical **solar** transmittance. Ratio of the **total** transmitted flux to the directional incident global radiation, from 280 nm to 2500 nm (including UV and IR part of the solar spectrum).
- %Rs**
($\rho_{e, n-h}$) Normal-hemispherical **solar** reflectance. Ratio of the **total** reflected flux to the directional incident global radiation, from 280 nm to 2500 nm (including UV and IR part of the solar spectrum).
- g_{tot}** Total energy transmittance of the shading device combined with the glazing employed. It can be calculated according to EN 13363-1 (simplified method) or EN 13363-2 (ISO 15099, detailed method).
- %Tv**
($\tau_{v, n-h}$) Normal/hemispherical **light** transmittance. Ratio of the **visual** transmitted flux to the directional incident global radiation, from 380 nm to 780 nm. The total transmitted light is the sum of the direct transmittance through the fabric and the light diffused by it.
- %Rv**
($\rho_{v, n-h}$) Normal/hemispherical **light** reflectance. Ratio of the **visual** reflected flux to the directional incident global radiation, from 380 nm to 780 nm.
- $\tau_{v, n-n}$** Normal/normal light transmittance (direct). Its value is frequently close to the openness factor.
- $\tau_{v, n-dif}$** Normal/diffuse light transmittance.
- τ_{UV}** Ultra-Violet transmittance, From 280 to 380 nm.
- %OF** Openness coefficient. Ratio between the area of the openings and the total area of the fabric. It can be approximated by $\tau_{v, n-n}$

Environmental & health properties

- ⇒ Cradle to Cradle bronze certification in process
- ⇒ Low VOC emission
- ⇒ **Halogen free** and **formaldehyde** free. REACh compliant.
- ⇒ Minimum content of **plastic materials from separate** collection on coated product weight: **70%**

Manufacturing properties

- ⇒ Rolls must be stored and handled horizontally
- ⇒ Ultrasonic cut not required
- ⇒ Roller blinds: Not weldable
- ⇒ Vertical blinds: Use adhesive or sewing
- ⇒ Manufacturing direction: Blinds can be manufactured 'drop to length' or railroded. BUT do not place in the same area blinds manufactured in different directions as this difference will be spotted. ↓ →

Maintenance

- ⇒ Vacuum clean for regular maintenance.
- ⇒ Do not wash
- ⇒ Do not rub
- ⇒ Do not steam
- ⇒ Do not dry clean
- ⇒ Wipe gently with a wet sponge



Expert Center:

vertisol
contemporary weavers

VERTISOL INT'L SRL
C-17, KM 18.92
08403 Granollers
SPAIN
T: + 34 93 840 1444
F: + 34 93 849 7219



Contact vertisol@vertisol.es for technical support