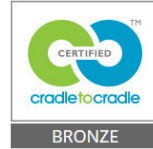




SEMITRANSSPARENT



CRADLE TO CRADLE CERTIFIED™
BRONZE



FLAME RETARDANT



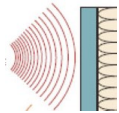
COLD KNIFE, CRUSH CUT OR UL-
TRASONIC



100% RECYCLED PET



MANUFACTURED IN THE EU



ACOUSTIC ABSORPTION



PRINTABLE HP LATEX INKS



INDOOR AIR QUALITY
CERTIFIED



ENVIRONMENTAL PRODUCT
DECLARATION AVAILABLE

Cradle to Cradle Certified is a certification mark licensed exclusively for the Cradle to Cradle Products Innovation Institute

PET is used to produce bottles for water and drinks, packaging for detergents and pharmaceutical products, after its use, the PET containers are thrown away and become rubbish, clogging our cities.

We believe in a better approach to the environmental use. We commit to a healthier approach **using recycled and recyclable material** in the development of longer life cycle products.

A square meter of PLANET is made of 6 thrown away bottles

Recycled polyester yarns are regular quality yarns with **characteristics equal to the ones** produced with virgin raw materials.

Planet FR, combine a friendly environment fabric with the technical characteristics of fire retardant fabric.

Planet FR is a plain, semi transparent fabric, ideal to match every decoration style.



TECHNICAL PROPERTIES		
Fabric Characteristic	Standard	
Composition	-	100% Recycled PET
Weight (g/ m²)	EN 12127	230± 5%
Thickness (mm)	EN ISO 5084	0.38± 5%
Fire Reaction	DIN 4102 NF P 92 503 EN 13501-1 NFP A 701 C.A.C. Title 19	B1 M1 Bs2d0 Pass Pass
Light Fastness (Xenotest grade)	ISO 105 B02:2002	≥6/8 White 6/8
Tearing resistance (daN)	EN ISO 13937-3:2001	Warp: 3.4, Weft: 5.5
Breaking resistance (daN)	EN ISO 13934-1:1999	Warp: 114.7, Weft: 127.7
Stretch (%)	EN ISO 13934-1:1999	Warp: 34.6 %, Weft 28.3 %
Openness Factor	ASHRAE Standard 74-1988	1%
Roll Size		Width 270 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	% t _{v,n-n}	% t _{v,n-diff}	% t _{uv}	Glare Control	Night Privacy	Visual Con- tact	Daylight Utilisa- tion
Colour			G _{TOT}	Class	G _{TOT}	Class						Class	Class	Class	Class
White	26	60	0.35	1	0.24	2	24.9	64	0.4	24.5	5	1	2	0	2
Linen	25	61	0.34	1	0.24	2	23.5	66	0.5	23	2	1	2	0	2
Shadow	21	59	0.35	1	0.24	2	18	60	0.3	17	1	1	2	0	2
Ivory	22	56	0.36	1	0.24	2	18	57	1	17	2	1	2	0	2
Mint	20	56	0.36	1	0.24	2	15	57	0.3	15	1	1	2	0	2
Cinder	18	50	0.37	1	0.25	2	11	45	0.4	10.7	1	1	2	1	1
Pebble	8	31	0.42	1	0.26	2	6	31	0.5	5.5	1	1	2	1	1
Light Grey	9	30	0.43	1	0.26	2	6.8	29	0.2	6.6	2	1	2	1	1
Slate	3	16	0.46	1	0.27	2	2	15	0.5	1.7	1	3	2	2	0
Walnut	12	28	0.43	1	0.26	2	1.5	10	0.7	0.8	1	3	2	2	1
Cask	11	25	0.44	1	0.26	2	1	6	0.5	0.3	1	3	2	2	0
Midnight Storm	2	9	0.48	1	0.27	2	1	9	0.4	0.7	1	3	2	2	0
Black	0.3	3.6	0.50	0	0.28	2	0.3	3.7	0.2	0.1	0.2	3	2	2	0

Data measured according to EN 410:2011 and EN 14500:2008

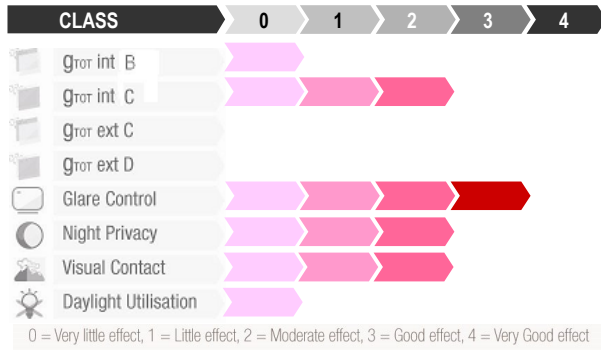
Calculations of g_{TOT} are according to EN 13363-1, with 10% frame area.

Classification of thermal and visual characteristics according to EN 14501:2005

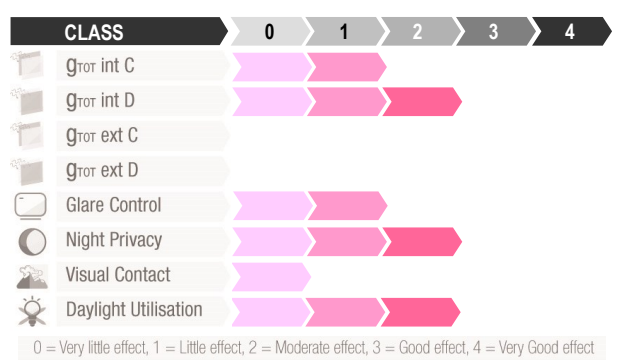
Data of g_{TOT} are given using standard Glazing C and D. though any other combination may be calculated under request

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:

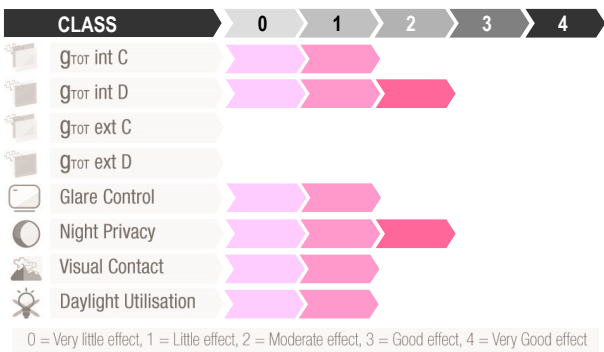
Black, Midnight Storm, Cask, Slate



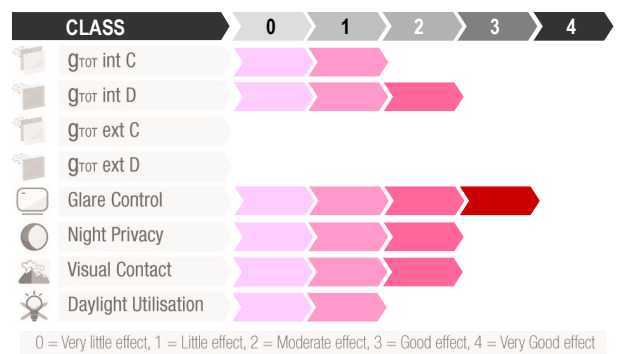
Ivory, White, Linen, Shadow, Mint



Light Grey, Pebble, Cinder



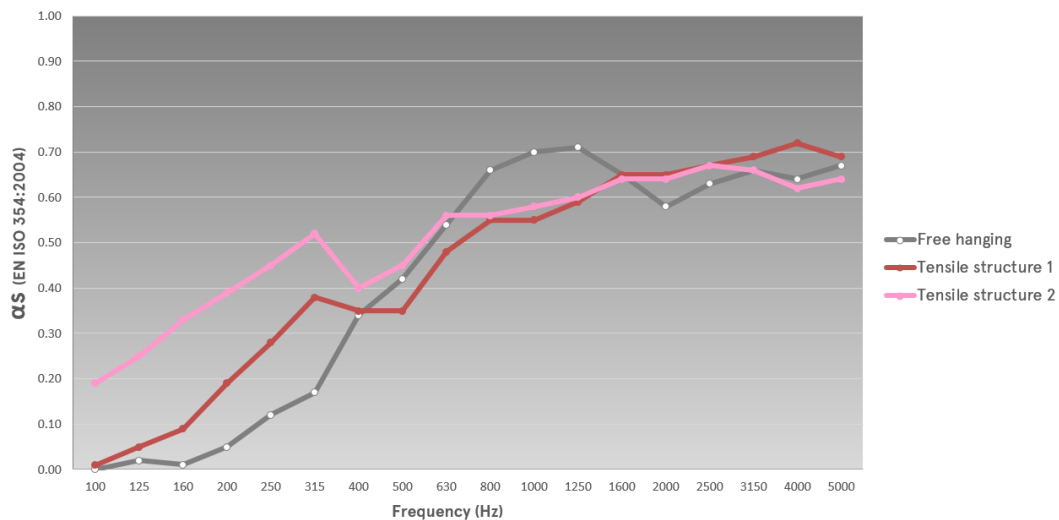
Walnut



	Standard	
Acoustic Absorption	EN ISO 10534:2 Measured with plenum 150 mm	$\alpha_w = 0.60^*$ NRC = 0.66**
	EN ISO 354	$\alpha_w = 0.40 - 0.55^*$ NRC = 0.45 - 0.55** (depending on mounting system)

* Calculated according to EN ISO 11654

** Calculated according to ASTM C-423.



Sound absorption detailed data according to EN ISO 354 available under request

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).

Most common standard glazing used un calculation (EN 14501):
Glazing Standard C: Double glazing low-e filled with argon 4-16-4.
Glazing Standard D: Reflective double low-e glazing filled with argon 4-12-4.
- %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 certified
- Low VOC emission
- **Free of PVC, formaldehyde** and lead. REACH compliant
- Minimum content of **plastic materials from separate** collection on coated product weight: **65%**

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: Only 'Drop to Length'



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



All specifications are based on average values and may deviate. The values are given for guidance and are not contractual. Subject to technical modifications

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



ISO 9001:2015 and
ISO 14001:2015
certified company

Contact vertisol@vertisol.es for technical support