



SEMITRANSSPARENT



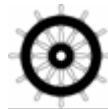
COLD KNIFE, CRUSH CUT OR
ULTRASONIC



FLAME RETARDANT



MANUFACTURED IN THE EU
REACH COMPLIANT



IMO CERTIFIED



PHTHALATE FREE



INDOOR AIR QUALITY CERTIFIED



ENVIRONMENTAL PRODUCT
DECLARATION AVAILABLE

TECHNICAL PROPERTIES

Fabric Characteristic	Standard	
Composition		80% PVC + 20% PES
Weight (g/m ²)		473 ± 5%
Yarn/cm	Internal method	Warp: 22 Fill: 16
Yarn diameter (mm)	Internal method	0.30
Openness Factor (%)	ASHRAE Standard 74-1988	3%
Thickness (mm)	UNE EN ISO 5084:1997	0.68 ± 5%
Light fastness (grey scale level)	UNE EN ISO 105 B06-2002 (interior) UNE EN ISO 105 B03:1994 (exterior) UNE EN ISO 105 B04:1998 (exterior) UNE EN ISO 4892-2 (exterior)	5/5 4/5 White
Light fastness (blue scale level)	UNE EN ISO 105 B02:2002 (interior)	8/8 7/8 white
Tearing resistance (daN)	UNE EN ISO 13937-3:2001	4.6 (Warp)/ 4.0 (Weft)
Breaking resistance (daN/5cm)	UNE EN ISO 13934-1:1999	164 (Warp)/ 138 (Weft)
Stretch (%)	UNE EN ISO 13934-1:1999	28.5 % (Warp)/ 17.1 % (Weft)
Corrosion in saline environment neutral fog	UNE EN ISO 112-017:92 ISO 9227:90	Without changes in surface (max.level)
Odour test	PV-3900	3 Pass
Fire classification	DIN 4102 EN 13501-1:2007 NFPA 701 EN 13773:2003	B1 Bs2d0 Pass Class 1
Wheelmark	IMO Res.MSC.307(88)-(2010 FTP Code) and IMO MSC/Circ.1102	Pass
Roll Size		Width 250 cm, Length 23.5 m
Recycled content		2% Pre-consumer
Antimicrobial Activity	ASTM 2180-01 and ASTM G21-09	Microorganism Growth Inhibition
Printable		Yes

 Vertical blinds

 Roller blinds

 Panel blinds

 Skylight blinds

SUN CONTROL PROPERTIES

Colour	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 Contact	Daylight Utilisation	
		G _{TOT}	Class	G _{TOT}	Class						Class	Class	Class	Class		
Grey Ebony	5	11	0.48	1	0.27	2	4	12	3	1	4	3	2	2	1	
Grey Pearl	7	21	0.45	1	0.27	2	5	23	3	2	4	3	2	2	1	
Grey Sand	6	19	0.46	1	0.27	2	5	20	3	1.4	4	3	2	2	1	
Pebble Sand	11	32	0.42	1	0.26	2	7	32	4	3	4	2	2	1	1	
White	20	69	0.32	2	0.23	2	17	79	3	14	4	1	2	1	2	
White Grey	9	45	0.38	1	0.25	2	8	52	3	5	4	1	2	1	1	
White Linen	21	64	0.33	2	0.24	2	17	72	3	14	4	1	2	1	2	
White Sand	15	54	0.36	1	0.24	2	10	59	3	7	3	1	2	1	1	

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

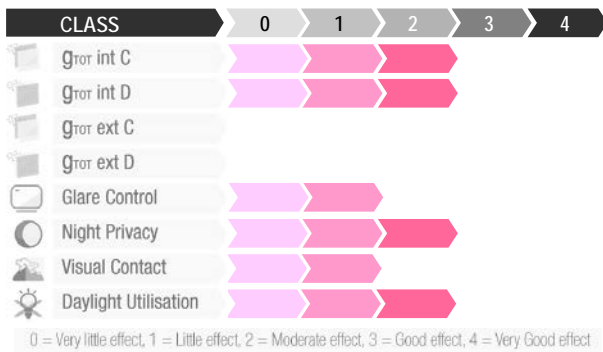
Calculations of g_{TOT} are according to EN 13363-1, with 10% frame area.

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

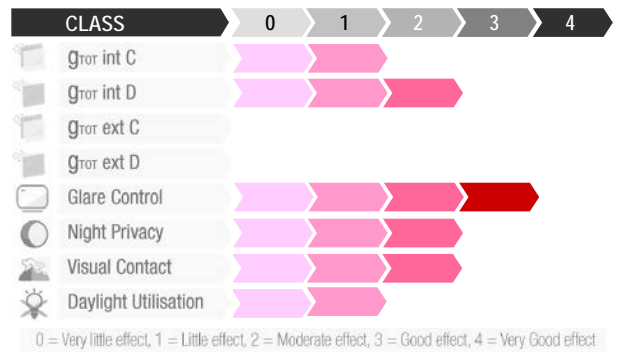
Data of g_{TOT} are given using standard Glazing C and D, though any other combination may be calculated under request.

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:

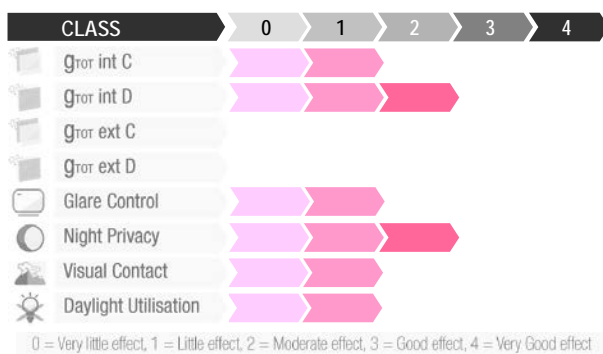
White, White Linen



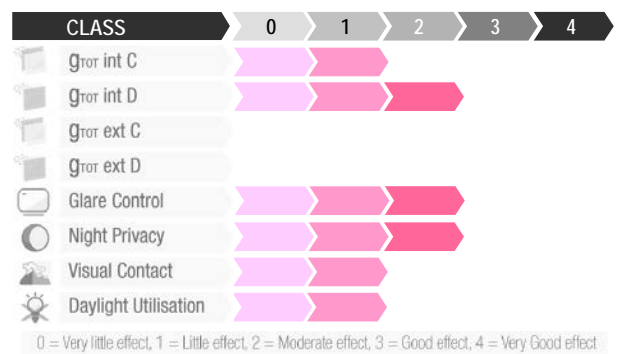
Grey Pearl, Grey Sand, Grey Ebony



White Sand, White Grey



Pebble Sand



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

Subject to technical modifications

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

- o **Phthalate Free.**
- o **Free of Lead and free of Bisphenol A.**
- o **Free** of substances in REACH **SVHC** list.
- o Low VOC emission **Greenguard Gold**

Manufacturing properties

- o Always store and handle rolls horizontally
- o Cold cut, crush cut or ultrasonic.
- o Welding: Thermo-welding or ultrasonic.
- o Manufacturing direction: Blinds can be manufactured 'drop to length' or railroaded. BUT do not place in the same area blinds manufactured in different directions as this difference will be spotted. ↓ →

Maintenance

- o Periodic maintenance: remove dust with vacuum cleaner, dry cloth or air pressure
- o In case of accumulated dirt it can be cleaned with a sponge or soft brush dipped in soapy water or spraying cleaner. In both cases the fabric should be rinsed, leaving the curtain dry open.
- o Under no circumstances should solvents or abrasives that can damage the coating of fabric be used, so care should be exercised to avoid paint stains, varnishes, or ink.



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ISO 9001:2015 and
ISO 14001:2015
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