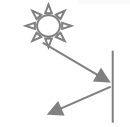




TRANSLUCENT



REFLECTIVE



FLAME RETARDANT



HALOGEN-FREE, ANTIMONY-FREE



COLD

COLD-CUT, CRUSH-CUT OR  
ULTRASONIC



ECOLOGICAL FABRIC  
REACH COMPLIANT



MANUFACTURED IN THE EU

**TECHNICAL PROPERTIES**

Fabric Characteristic	Standard	
Composition	-	100 % PES
Weight (g/m <sup>2</sup> )	EN 12127	240 +/- 5 %
Thickness (mm)		0.33 +/- 5 %
Fire reaction	DIN 4102-1 NFPA 701 EN 13773	B-1 PASS Class 1
Light fastness (Xenotest grade)	ISO 105 B02:2002	6-7/ 8 Snow 4-5/ 8
Openness factor		0 %
Roll size		Width 200 cm Length 30 m

**SUN CONTROL PROPERTIES**

Colour	THERMAL FACTORS						OPTICAL FACTORS								
	Fabric		Fabric+Glazing				% T <sub>v</sub>	% R <sub>v</sub>	% T <sub>au,n-n</sub>	% T <sub>au,n-diff</sub>	% t <sub>uv</sub>	Glare Control	Night Privacy	Visual Contact	Daylight Utilisation
	% T <sub>s</sub>	% R <sub>s</sub>	G <sub>TOT</sub> internal Glazing C		G <sub>TOT</sub> internal Glazing D										
		G <sub>TOT</sub>	Class	G <sub>TOT</sub>	Class						Class	Class	Class	Class	
<b>Snow</b>	20	68	0.32	2	0.23	2	17	76	0	17	1	2	2	0	2
<b>Linen</b>	19	69	0.32	2	0.23	2	16	76	0	16	0.1	2	2	0	2
<b>Dove</b>	19	65	0.32	2	0.23	2	15	72	0	15	0.2	2	2	0	2
<b>Mint</b>	20	66	0.33	2	0.23	2	15	72	0	15	0.3	2	2	0	2
<b>Cinder</b>	18	64	0.33	2	0.23	2	11	70	0	11	0.3	2	3	0	2
<b>Pebble</b>	13	62	0.34	2	0.24	2	9	69	0	9	0.2	2	3	0	1
<b>Smoke</b>	11	65	0.33	2	0.23	2	6	71	0	6	0.1	2	3	0	1
<b>Iron</b>	6	63	0.33	2	0.23	2	3	71	0	3	0	3	4	0	1
<b>Cask</b>	5	57	0.35	1	0.24	2	0.2	64	0	0.2	0	4	4	0	0

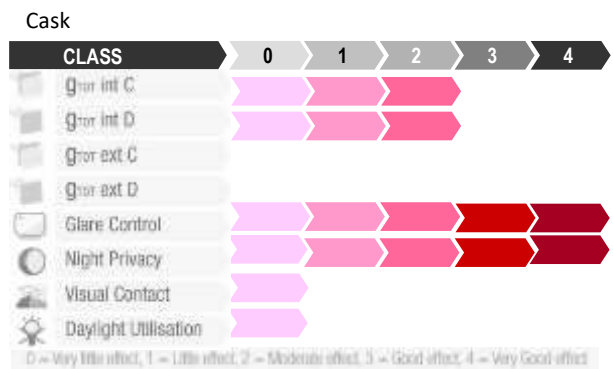
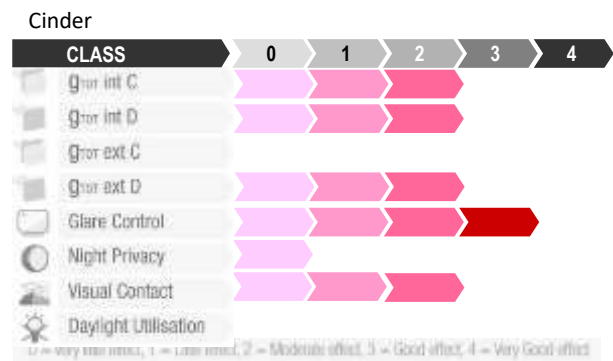
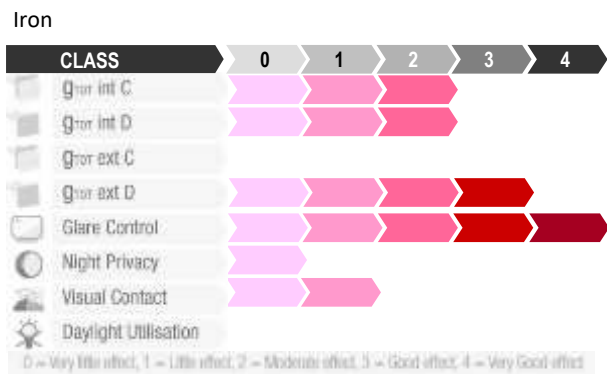
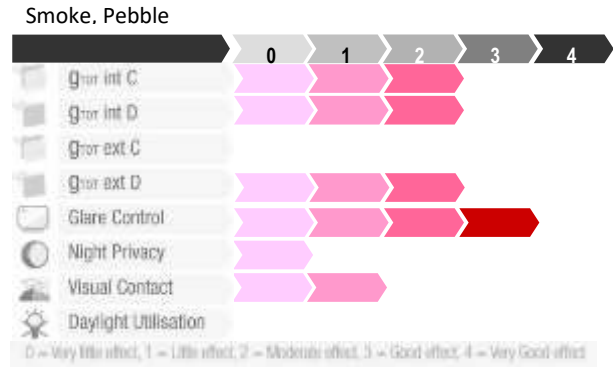
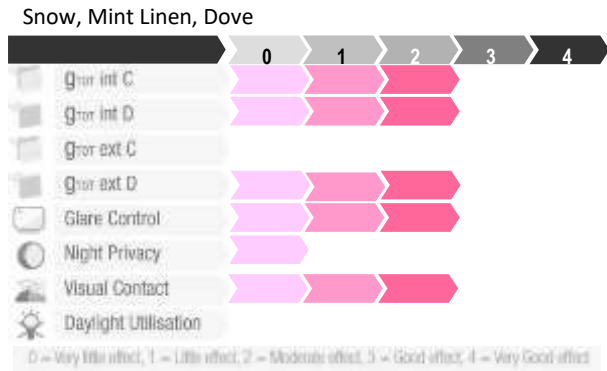
Data measured according to EN 410:2011 and EN 14500:2008

Calculations of g<sub>TOT</sub> are according to EN 13363-1, with 10% frame area.

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

Data of g<sub>TOT</sub> 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:



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

Subject to technical modifications

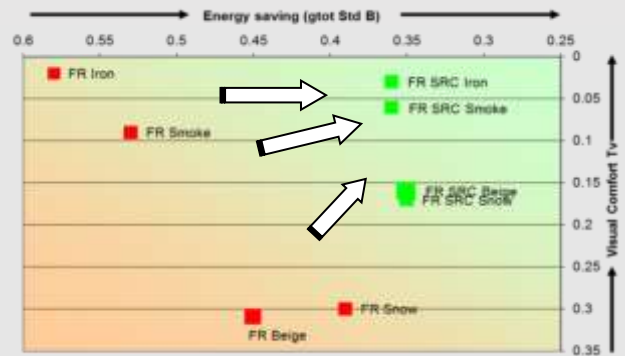


**Thermal and visual properties**

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<sub>tot</sub>** 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 for 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.
- $\tau_{uv}$**  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**

- **Halogen-free and Antimony-free**
- **Formaldehyde-free** and lead-free. REACH compliant
- Mattiz FR is **Oeko-tex standard 100** certified, which assures that no harmful substances are used during its production process

**Manufacturing properties**

- Always store rolls horizontally
- Cold-cut, crush-cut or ultrasonic
- Sewing or adhesive recommended
- Avoid using components or inappropriate packing of the manufactured blind that may cause marks on the fabric
- Manufacturing direction: Blinds can be manufactured 'drop to length' or railroaded. BUT do not place blinds manufactured in different directions in the same area, as this differences will be spotted
- Manufacture panel blinds only 'drop to length'

**Maintenance**

- Mattiz FR is **not appropriate for wet areas**
- **Not washable**
- **Avoid spraying on the fabric**
- Do not rub
- Do not steam
- Do not dry clean



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ISO 9001:2015 and ISO 14001:2015 certified company

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