SKALMAR CONTRACT

TKANINY DO ROLET





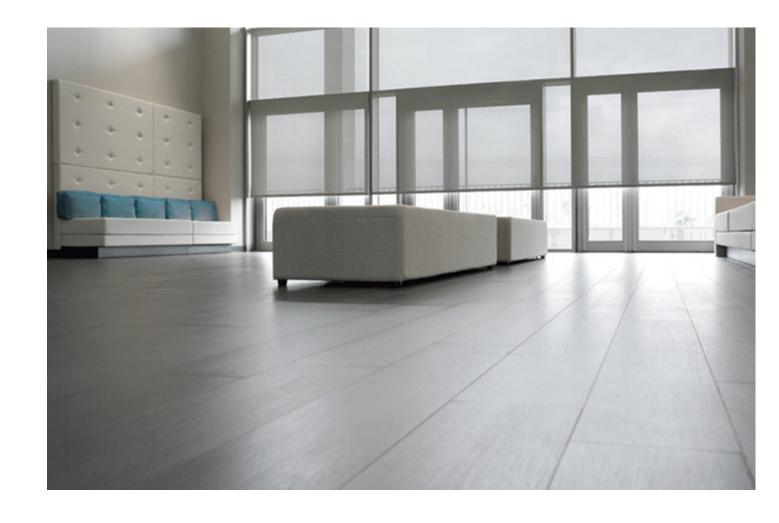






SKALMAR CONTRACT

TKANINA SCREEN FR





SCREEN FR



SCR-3001		Optio	al Properties	Thermal Properties			Calculations based on reference glazing D			
Article	Color	Openness factor	Tv	Rs	Ts	As	Gtot/SHGC	Improvement %	UV Blockage	BREEAM Glare Class
SCR-3001-00	lvory	1 %	11 %	70 %	15 %	15 %	8,25	22,9 %	100 %	1
SCR-3001-01	Chalk	1 %	9 %	72 %	13 %	15 %	0,24	23,6 %	100 %	1
SCR-3001-02	Chalk Beige Cream	1 %	7%	67 %	11 %	22 %	0,25	22,2 %	100 %	2
SCR-3001-03	Chalk Soft Grey	1 %	5 %	55 %	8 %	37 %	0.26	18,9 %	100 %	2
SCR-3001-05	Charcoal Iron Grey	1 %	1%	10 %	1%	89 %	0,30	6,4%	100 %	3
SCR-3001-06	Ebony	1 %	1 %	4 %	1 %	95 %	0,31	47%	100 %	4
SCR-3001-08	Soft Grey	1 %	1%	33 %	3 %	64 %	0.28	12.8 %	100 %	3
SCR-3001-09	Grey Sand	1 %	10 %	33 %	14 %	53 %	0,28	12.4 %	100 %	1
SCR-3001-10	Charcoal Dark Bronze	1 %	1 %	6%	1 %	93 %	0,30	5,2 %	100 %	4
SCR-3001-11	Beige Pearl Grey	1 %	5 %	46 %	9 %	45 %	0.27	16.3 %	100 %	2
**********	20 go room oray	1		.,,,,,,,,,	*.*	76-76	3921	.2370 10	100,75	
SCR-3003		Optio	al Properties	Thermal Properties			Calculations based on reference glazing D			
Article	Color	Openness	Tv	Rs	To	As	Gtot/SHGC	Innovariant and W	UV	BREEAM Glare Class
Article	1.5-00.001.	factor	12 %		Ts 15 or	11.00011		Improvement %	Blockage 07 %	30.000.00.000.000
SCR-3003-00	Ivory	3 %		72 %	15 %	13 %	0,24	23,5 %	97 %	1
SCR-3003-01 SCR-3003-02	Chalk Pains Croom	3 %	12 %	70 % 63 %	16 % 12 %	14 % 25 %	0,25	22,9 %	97 %	2
SCR-3003-02 SCR-3003-03	Chalk Beige Cream	3%	7 %	51 %	10 %	25 % 39 %	0,25	21,0 %	98 %	2
SCR-3003-05	Chalk Soft Grey	3 %	3 %	12 %	3 %	85 %	0,30	6,9 %	98 %	3
SCR-3003-05	Charcoal Iron Grey	3 %	3%	5%	3 %	92 %	0,30	4,9 %	98 %	3
	Ebony	3%	1-71-02-1	33 %	5 %	62 %	0,30	12,8 %	97 %	3
SCR-3003-08 SCR-3003-09	Soft Grey	3 %	3 %	51 %	16 %	33 %	0,26	17,5 % 98 %		1
	Grey Sand				0.000					3
SCR-3003-10	Charcoal Dark Bronze	3 %	3 %	7 %	3 %	90 %	0,30	5,5 %	98 %	2
SCR-3003-11	Beige Pearl Grey	3 %	8 %	43 %	11 %	46 %	0,27	15,4 %	97 %	- 2
SCR-3005		Optical Properties		Thermal Properties			Calculations based on reference glazing D			
Article	Color	Openness factor	Tv	Rs	Ts	As	Gtot/SHGC	Improvement %	UV Blockage	BREEAM Glare Class
SCR-3005-00	Ivory	5 %	15 %	70 %	18 %	12 %	0,25	22,8 %	94 %	1
SCR-3005-01	Chalk	5 %	13 %	68 %	17 %	15 %	0,25	22,3 %	95 %	1
SCR-3005-02	Chalk Beige Cream	5%	19 %	57 %	22 %	21 %	0,26	19,0 %	94 %	1
SCR-3005-03	Chalk Soft Grey	5 %	9 %	49 %	12 %	39 %	0,27	17,1 %	94 %	2
SCR-3005-05	Charcoal Iron Grey	5%	6 %	14 %	6 %	80 %	0,30	7,3 %	94 %	3
SCR-3005-06	Ebony	5 %	5 %	4%	5 %	91 %	0,31	4,5 %	95 %	3
SCR-3005-08	Soft Grey	5 %	7 %	33 %	9 %	58 %	0,28	12,6 %	94 %	3
SCR-3005-09	Grey Sand	5 %	16 %	52 %	20 %	28 %	0,26	17,6 %	93 %	1
SCR-3005-10	Charcoal Dark Bronze	5%	5 %	7 %	5 %	88 %	0,30	5,4 %	97 %	3
SCR-3005-11	Beige Pearl Grey	5 %	10 %	41 %	13 %	46 %	0,27	14,7 %	94 %	2
SCR-3010		Ontio	al Properties	T	Thermal Pro	perties		Calculations ha	ased on reference gla	zina D
Article	Color	Openness factor	Tv	Rs	Ts	As	Gtot/SHGC	Improvement %	UV Blockage	BREEAM Glare Class
SCR-3010-00	lvory	10 %	21 %	62 %	24 %	13 %	0,25	20,6 %	89 %	0
SCR-3010-01	Chalk	10 %	27 %	57 %	30 %	13 %	0,26	18,7 %	89 %	0
SCR-3010-02	Chalk Beige Cream	10 %	20 %	57 %	23 %	20 %	0,26	18,9 %	88 %	0
SCR-3010-03	Chalk Soft Grey	10 %	14%	64 %	17 %	37 %	0,27	16,0 %	88 %	1
SCR-3010-05	Charcoal Iron Grey	10 %	12 %	14%	12 %	74%	0,30	7,1 %	89 %	1
SCR-3010-06	Ebony	10 %	11 %	4%	11 %	58 %	0,31	4,3 %	89 %	1
SCR-3010-08	Soft Grey	10 %	12 %	30 %	15 %	55 %	0,31	11,5 %	89 %	1
SCR-3010-09	Grey Sand	10 %	20 %	50 %	23 %	27 %	0,27	17.0 %	89 %	0
		20.00			et eq. Lo.	m - m	2007	-7.6 m (m)		

16 % Tests performed according to EN 14500: 2008-08 and EN 13363-1: 2003/07 / EN ISO 52022-1: 2017/07

10 %

7%

37 %

10 %

10 %

Charcoal Dark Bronze

Beige Pearl Grey

SCR-3010-10

SCR-3010-11



10 %

19 %

5,2 %

13,4 %

90 %

89 %

SCREEN FR

Screen Essential basket weave 2x2 3000 series (1%, 3%, 5% and 10% open)

Screen Essential is a polyester based fabric with a subtle structure and a 2x2 basket weave. The collection is available in openness factors of 1 %, 3 %, 5 % and 10 %. The screens each have the same structure, which gives them the exact same optic. By mixing various openness factors in one space, a uniform look can be achieved. Screen Essential comes in 10 timeless colors and is available in a width up to 3 meters. The screen fabric is free of VOC's, Phthalate, Formaldehyde and heavy metals and is safe for direct skin contact. Thanks to its anti-microbial protection coating, the growth of stains and bacteria is prevented.

	SCR-3001	SCR-3003	SCR-3005	SCR-3010
Product	Roller / Panel / Vertical	Roller / Panel / Vertical	Roller / Panel / Vertical	Roller / Panel
Openness factor	1 %	3 %	5 %	10 %
Cleaning	damp cloth	damp cloth	damp cloth	damp cloth
Weave	basketweave 2x2	basketweave 2x2	basketweave 2x2	basketweave 2x2
Composition	70 % PVC 30 % PES	70 % PVC 30 % PES	70 % PVC 30 % PES	70 % PVC 30 % PES
Fabric width	250 cm - 300 cm 98 in - 118 in	250 cm - 300 cm 98 in - 118 in	250 cm - 300 cm 98 in - 118 in	250 cm - 300 cm 98 in - 118 in
Weight	480 g/m² 14.16 oz/yd²	470 g/m² 13.86 oz/yd²	430 g/m² 12.68 oz/yd²	430 g/m² 12.68 oz/yd²
Thickness	0,68 mm 0.026 in	0,58 mm 0.022 in	0,55 mm 0.021 in	0,5 mm 0.020 in
Fire Classifications	DIN 4102, Class B1 NFPA 701 UNE-EN 13773:2003, Class 1	DIN 4102, Class B1 NFPA 701 UNE-EN 13773:2003, Class 1	DIN 4102, Class B1 NFPA 701 UNE-EN 13773:2003, Class 1	DIN 4102, Class B1 NFPA 701 UNE-EN 13773:2003, Class
Color fastness	ISO 105-B02 grade 8	ISO 105-B02 grade 8	ISO 105-B02 grade 8	ISO 105-B02 grade 8
Fabric warranty Antimicrobial	5 years ASTM G21 ASTM G22 BS ISO EN846	5 years ASTM G21 ASTM G22 BS ISO EN846	5 years ASTM G21 ASTM G22 BS ISO EN846	5 years ASTM G21 ASTM G22 BS ISO EN846
Greenguard UL 2818	yes	yes	yes	yes
Greenguard UL 2818 Gold	yes	yes	yes	yes
Oeko-tex standard 100	11-34219 / Class II	11-34219 / Class II	11-34219 / Class II	11-34219 / Class II
Formaldehyde	compliant with Oeko-Tex and Greenguard	compliant with Oeko-Tex and Greenguard	compliant with Oeko-Tex and Greenguard	compliant with Oeko-Tex and Greenguard
Phthalates	compliant with Oeko-Tex	compliant with Oeko-Tex	compliant with Oeko-Tex	compliant with Oeko-Tex
Heavy metal	compliant with Oeko-Tex	compliant with Oeko-Tex	compliant with Oeko-Tex	compliant with Oeko-Tex
VOC (volatile organic compounds)	compliant with Oeko-Tex and Greenguard	compliant with Oeko-Tex and Greenguard	compliant with Oeko-Tex and Greenguard	compliant with Oeko-Tex and Greenguard
Suitable for moist conditions	yes	yes	yes	yes
Recyclable	yes	yes	yes	yes

These are approximate values. Individual results may vary slightly.























About Coulisse

At Coulisse, we believe that window coverings are the perfect solution for creating healthy, comfortable and inspiring indoor spaces. They allow for perfect heat control and natural light management, and as a result, contribute to productivity, comfort and energy savings. With the unique decorative possibilities of the Coulisse Contract range, in addition, they allow for creating atmosphere, style and a sense of warmth and well-being.

Total solution

Our window covering solutions are created through a seamless concept of stylish contract fabrics, aesthetic systems and an intelligent automation concept. They offer the perfect combination of beauty, functionality and convenience.

Contact

If you have any questions about fabrics, systems or motion or you need advice, please call Coulisse Contract on +31 (0) 547 855 555 or e-mail your requirements to contract@coulisse.com.



SKALMAR CONTRACT

TKANINA APOLLO 13 BLACKOUT





APOLLO 13 BLACKOUT



PVC-free



very good glare control



very good night privacy



excellent dimensional stability



high reflection in all colours



10355 Midnight Black



6625 New York Grey



5770 French Grey



5108 Grey Haze



10331 Stone



4899 Perfect Greige



6117 Cream



4898 Snow



APOLLO 13 BLACKOUT



Technical specification

Width		310 cm / 122"
Basic material		100 % polyester
Weight approx.	EN 12127	430 g/m² / 12,7 oz/yd²
Thickness approx.	EN ISO 5084	0.55 mm / 0.022"
Openness factor OF	EN 14500	0 %
Flame retardancy		B1 / C1 / NFPA 701
Light fastness (window side)	EN ISO 105-B02	min. 6-7
Tensile properties: Determination of max, force Elongation at max, force	EN ISO 13934-1	warp: > 80 daN - weft: > 130 daN warp: approx. 17 % - weft: approx. 24 %
Suitable for moist atmosphere		yes
Manufacturing guidance		to cut with cold knife, to stick together with welding agent
Roll length approx.		25 m / 27 yd
Care instruction		spongeable

Optical and thermal factors

					optical	factors							therma	l factors		
	fabric						classification				fabric			fabric + glazing		
colour	visible light (%)						glare		visual	daylight	solar radiation (%)			glazing E g=0,55 Ug=0,8		
	T _v	R,	A,	T _{v,n-n}	T _{v,n-dif}	Ra	control	privacy	contact	utilisation	Ts	R _s	A _s	T _{UV}	g _{tot}	class
10355	0	87	13	0,0	0,0	44	4	4	0	0	0	79	21	0	0,31	2
6625	0	80	20	0,0	0,0	40	4	4	0	0	0	68	32	0	0,34	2
5770	0	79	21	0,0	0,0	50	4	4	0	0	0	67	33	0	0,34	2
5108	0	81	19	0,0	0,0	33	4	4	0	0	0	69	31	0	0,34	2
10331	0	80	20	0,0	0,0	40	4	4	0	0	0	68	32	0	0,34	2
4899	0	80	20	0,0	0,0	34	4	4	0	0	0	67	33	0	0,34	2
6117	0	82	18	0,0	0,0	43	4	4	0	0	0	70	30	0	0,33	2
4898	0	78	22	0,0	0,0	45	4	4	0	0	0	68	32	0	0,34	2

Data is measured according to EN 410:2011 and EN 14500:2008. Calculations of g_{tot} are defined according to EN ISO 52022-1:2017 using triple glazing type E (g=0,55; Ug=0,8). Other glazing types can be calculated on request.

Classifications: 0 (very little effect), 1 (little effect), 2 (moderate effect), 3 (good effect) and 4 (very good effect) refer to EN 14501:2005.

All specifications are based on average values and may deviate within the standard tolerance limits. Subject to technical modifications.

The life span of these products is at least four years, starting from the commercial launch of these items. Please request the individual life span for each product by contacting our customer service team.











made in Germany



APOLLO 13 BLACKOUT

Classification of optical and thermal comfort properties

According to standard EN 14501 certain properties of solar protection devices are to be considered. The standard lists properties which quantify visual and thermal comfort and therefore are to be taken into consideration for comparison. While the optical properties are defined by glare control, night privacy, visual contact with the outside and daylight utilization as well as by the color rendering index Rq, the thermal comfort is influenced by total solar energy transmittance gtot. The comfort properties are specified in five classes shown in the following table:

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

Optical factors - for wavelenaths between 380 nm and 780 nm - verified in accordance with EN 410 and EN 14500/14501

Normal/hemispherical light transmittance (T_{V, n-h}); specifies the relation of transmitted to total incident light; states the sum of T_{v}

transmitted diffuse light (T_{V, n-dif}) and transmitted normal light (T_{V, n-n})

Normal/hemispherical light reflectance; specifies the relation of reflected to total incident light

Normal/hemispherical light absorptance; specifies the relation of absorbed to total incident light

Normal/normal light transmittance; value is usually close to OF T_{v, n-n}

T_{v, n-dif} Normal/diffuse light transmittance

Color-Rendering-Index with values between 0 and 100; specifies an object's change of color due to alteration of incident light; the

higher the index value, the lower the color distortion

Specifies a solar protection device's capacity to protect a person against unpleasant luminance contrasts and thereby glare; it Glare control

may be caused by solar spots on the work surface as well as direct view into the sun or other light sources with high luminance

Night privacy Specifies a solar protection device's capacity to protect a person at night against external view in fully extended position

Specifies a solar protection device's capacity to allow a person's view to the outside in fully extended position Visual contact

Specifies a solar protection device's capacity in fully extended position to optimize the usage of daylight and reduce the time Daylight utilization

during which artificial light is required

Thermal factors - for wavelenaths between 280 nm and 2500 nm - verified in accordance with EN 410 and EN 14500

T, Normal/hemispherical solar transmittance; specifies the relation of transmitted to total incident solar radiation

Normal/hemispherical solar reflectance; specifies the relation of reflected to total incident solar radiation

Normal/hemispherical solar absorptance; specifies the relation of absorbed to total incident solar radiation

Ultraviolet light transmittance (wavelengths from 280 nm to 380 nm); specifies the relation of transmitted to total UV-radiation Tuv

Emissivity; ratio of energy radiated from a material's surface to that radiated from a blackbody at the same temperature; value IR (E)

between 0 and 1; the lower the number, the better the insulation effect; determined in accordance with EN 15976

Heat transfer coefficient; specifies the glazing's insulation properties, as it reflects the energy flow through a window at a certain

Ug temperature: expressed in W/m²K

Total solar energy transmittance of a glazing; specifies the relation of transmitted to total incident solar energy

Total solar energy transmittance of a glazing in combination with a solar protection device; can either be calculated according to **G**tot

a simplified (EN ISO 52022-1) or detailed method (EN ISO 52022-3)

Technical specifications

g

Specifies the relation of the area of openings to the total area of a textile fabric; measured in accordance with EN 14500 Openness Factor OF

Sound absorption coefficient between 0 and 1; specifies a material's absorption properties; the higher the value, the better the aw / NRC textile's capacity to absorb sound; determined in accordance with EN ISO 354, assessed in accordance with EN ISO 11654 and

ASTM C423

Specifies a fabric's resistance to fading when exposed to artificial light which equals natural daylight; classified in 8 classes (the Light fastness

higher the class, the better the light fastness); measured according to EN ISO 105-B2 for the interior

