

fabulous fabrics

Vertical
Collection
Companion

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create
the future
together



Bennie Lienesch

“ we create
the future
together ”

This motto suits us perfectly. Teamwork is definitely one of Lienesch's great strengths. A large number of people have worked together on this collection – each with their own specialism. We have one thing in common though: we all have a keen eye for quality.

In this Compleat Collection Companion you will have an overview of our 'Compleat Collection'. A collection we have been working on passionately over a few years, a process in which each and every one has played an equally important role. From visualisation of the atmosphere and feel to approving the end result; all aspects have been carried out with the utmost love and care. To me, it was amazing to see the sparks of enthusiasm throughout the entire process. Everyone excelled and the collection is a true team effort.

“ everyone plays an
equally important
role in this process ”

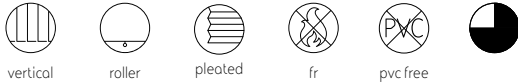
This collection is all about something we are great at: creating beautiful fabrics. Fabrics with original patterns, created by renowned designers, which will amaze and inspire. Fabrics with innovative textures, that are functional to boot. It became a varied and completely balanced collection that meets all the Lienesch quality requirements you have come to expect of us.

I am extremely proud. Of the company and of the collection, but especially of all the people who have contributed to it. The new collection embodies what we believe in and what we stand for. It embodies the Lienesch identity.

I am Bennie Lienesch
Director of Lienesch

frankfurt alu

Non-transparent crepe Frankfurt Alu is 100% Trevira CS. The flame retardant, metallized fabric has a matt front and can be railroaded. The reflective back provides this airy fabric with excellent light and heat resisting properties. Vertical fabric Frankfurt Alu is available in six stylish metallic colours and does not contain PVC and halogen.



fabric specifications

of	pattern	composition	weight (g/m ²)	thickness (mm)	roll length (m)	colour fastness
1%	crepe	100% Trevira CS	75	0,16	100	5-7 (ISO 105 B02)

solar heat and light control properties

design	colour	available width in vertical (mm)	available width in roller (cm)	available width in 20mm pleated (cm)	of (%)	Ts (%)	Rs (%)	As (%)	Tuv (%)	Tv (%)	g _{tot}	F _c
7000	silver/light grey	89 / 127	230	225	1	8	56	36	5	7	0,41	0,58
7001	silver/light beige	89 / 127	230	225	1	8	56	36	5	7	0,41	0,58
7002	silver/light brown	89 / 127	230	225	1	7	57	36	4	6	0,40	0,57
7003	silver/grey	89 / 127	230	225	1	6	56	38	4	4	0,40	0,58
7010	silver/black	89 / 127	230	225	1	4	55	41	2	2	0,41	0,58
7099	silver/silver	89 / 127	230	225	0	2	57	41	1	2	0,40	0,57

of = openness factor / Ts: Solar Transmittance / Rs: Solar Reflectance / As: Solar Absorbance / Tuv: UV Transmittance / Tv: Visible Light Transmittance
 Measurement according to EN410, Gloss Type C. Classification according to EN 14501: thermal comfort (table 2)

benefits

- Interior application
- Perfect reduction for solar heat gain
- Improved glare control
- Visual comfort
- Thermal comfort
- Energy saving
- UV protection
- Lead free
- 5 year warranty



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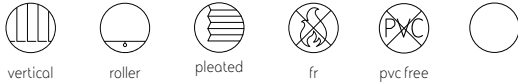
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new york alu

Transparent vertical fabric New York Alu is made of 100% Trevira CS yarn, giving it perfect flame retardant properties. The supple, metallized fabric has an uniform look in both warp and weft due to its screen-like texture. The reflective back ensures maximum reflection of light and heat. New York Alu fabric is available in six pure colours and does not contain PVC and halogen.



fabric specifications

of	pattern	composition	weight (g/m ²)	thickness (mm)	roll length (m)	colour fastness
colour depending (22-27%)	woven	100% Trevira CS	80	0,17	100	5-7 (ISO 105 B02)

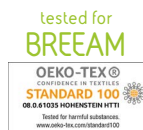
solar heat and light control properties

design	colour	available width in vertical (mm)	available width in roller (cm)	available width in 20mm pleated (cm)	of (%)	Ts (%)	Rs (%)	As (%)	Tuv (%)	Tv (%)	gtot	Fc
7100	silver/light grey	89 / 127	230	225	24	30	42	28	28	29	0,48	0,68
7101	silver/light beige	89 / 127	230	225	22	27	43	30	26	27	0,47	0,67
7102	silver/light brown	89 / 127	230	225	22	28	42	30	26	27	0,48	0,68
7103	silver/grey	89 / 127	230	225	24	29	42	29	28	28	0,48	0,68
7110	silver/black	89 / 127	230	225	27	31	39	30	30	29	0,49	0,70
7199	silver/silver	89 / 127	230	225	22	26	44	30	25	26	0,47	0,67

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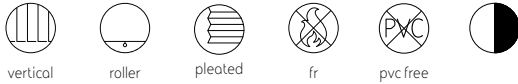
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toronto alu

Semi-transparent vertical fabric Toronto Alu is made of a mix of Trevira CS and flame retardant polyester yarn. The supple, open-woven fabric has an uniform look in both warp and weft due to its screen-like texture. The metallized fabric has a sophisticated look and feel and a reflective back to resist much of the light and heat. Toronto Alu is available in six colours and does not contain PVC and halogen.



fabric specifications

of	pattern	composition	weight (g/m ²)	thickness (mm)	roll length (m)	colour fastness
6%	woven	65% Trevira CS + 35% PES FR	70	0,19	100	5-7 (ISO 105 B02)

solar heat and light control properties

design	colour	available width in vertical (mm)	available width in roller (cm)	available width in 20mm pleated (cm)	of (%)	Ts (%)	Rs (%)	As (%)	Tuv (%)	Tv (%)	gtot	Fc
7150	silver/light grey	89 / 127	230	225	6	12	55	33	9	12	0,41	0,59
7151	silver/light beige	89 / 127	230	225	6	11	55	34	8	11	0,41	0,59
7152	silver/light brown	89 / 127	230	225	6	11	55	34	8	10	0,41	0,59
7153	silver/grey	89 / 127	230	225	6	10	54	36	8	9	0,41	0,59
7160	silver/black	89 / 127	230	225	6	9	53	38	7	7	0,42	0,60
7169	silver/silver	89 / 127	230	225	6	8	59	33	8	8	0,39	0,56

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focus of3

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Vertical fabric Focus OF3 is made of thin, lightweight yarns woven in a full basket-weave (2/2) and available in a range of timeless architectural colours. This screen fabric is recommended for interior application and excels in blocking solar radiation, while offering privacy and maintaining the outward view.



fabric specifications

of	pattern	composition	weight (g/m ²)	thick-ness (mm)	roll length (m)	colour fastness	bacteria and fungal resistance	tensile strength (warp)	tearing strength (warp)	tensile strength (weft)	tearing strength (weft)
3%	basket weave 2/2	75% PVC / 25% PES	465	0,60	100	>7 (ISO 105 B02)	ASTM E 2180, ASTM G21	175 daN/5cm	> 8 daN	175 daN/5cm	> 7 daN

solar heat and light control properties

design	colour	available width in vertical (mm)	available width in roller (cm)	of	Ts	Rs	As	Tuv	Tv	g _{tot}	F _c
104-01	white	89 / 127	200 / 250 / 300	3	19	71	10	16	16	0,34	0,57
104-02	beige	89 / 127	200 / 250 / 300	3	16	62	22	6	15	0,36	0,61
104-03	light grey	89 / 127	200 / 250 / 300	3	11	49	40	4	9	0,39	0,67
104-04	mouse grey	89 / 127	200 / 250 / 300	3	8	32	60	4	6	0,44	0,75
104-05	charcoal	89 / 127	200 / 250 / 300	3	5	4	91	4	4	0,52	0,88
104-11	baltic-grey	89 / 127	200 / 250 / 300	3	8	38	54	4	7	0,42	0,72

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- Improved glare control
- Visual comfort
- Thermal comfort
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contrast of 3

Vertical fabric Contrast OF3 is a fabric that integrates thermal performance (reflective surface) and visual comfort (comfort surface). The white backing facing the exterior reflects the sun's rays and ensures visual uniformity from the outside of the building. The window facing side of the fabric will always be the same white colour. It therefore offers both optimal heat and glare reduction. The pattern of diagonal ribs makes the fabric extra strong. Contrast OF3 is available in five colours.



fabric specifications

of	pattern	composition	weight (g/m ²)	thickness (mm)	roll length (m)	colour fastness	bacteria and fungal resistance	tensile strength (warp)	tearing strength (warp)	tensile strength (weft)	tearing strength (weft)
3%	twill weave two-sided	75% PVC + 25% PES	430	0,65	100	>7 (ISO 105 B02)	ASTM E 2180, ASTM G21	160 daN/5cm	> 12 daN	170 daN/5cm	> 19 daN

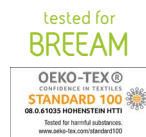
solar heat and light control properties

design	colour	available width in vertical (mm)	available width in roller (cm)	of	Ts	Rs	As	Tuv	Tv	got	Fc
106-01	white	89 / 127	300	3	20	64	16	3	14	0,36	0,61
106-02	beige	89 / 127		3	18	57	25	6	15	0,41	0,58
106-03	light grey	89 / 127	200 / 250 / 300	3	21	43	36	6	17	0,42	0,71
106-04	mouse grey	89 / 127	200 / 250 / 300	3	13	24	63	5	9	0,47	0,79
106-05	charcoal	89 / 127	200 / 250 / 300	3	6	10	84	4	6	0,50	0,85

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optima of3

Vertical fabric Optima OF3 is a screen fabric which combines functionality and style. The semi-transparent fabric is made of a multi-coloured yarn, woven in a half basket-weave. The fabric ensures privacy while offering a pleasant outward view. It is made of PVC and polyester and is recommended for interior application. Optima OF3 is available in six stylish colours, suitable for both the residential and the contract market.



fabric specifications

of	pattern	composition	weight (g/m ²)	thickness (mm)	roll length (m)	colour fastness	bacteria and fungal resistance	tensile strength (warp)	tearing strength (warp)	tensile strength (weft)	tearing strength (weft)
3%	basket weave 1/2	75% PVC + 25% PES	425	0,60	100	>7 (ISO 105 B02)	ASTM E 2180, ASTM G21	155 daN/5cm	> 5 daN	180 daN/5cm	> 5 daN

solar heat and light control properties

design	colour	available width in vertical (mm)	of	Ts	Rs	As	Tuv	Tv	got	Fc
108-01	white	89 / 127	3	19	67	14	5	15	0,36	0,52
108-02	beige	89 / 127	3	18	60	22	6	13	0,39	0,56
108-03	light grey	89 / 127	3	12	55	33	6	10	0,41	0,59
108-05	bronze grey	89 / 127	3	6	11	83	6	5	0,60	0,86
108-06	brown	89 / 127	3	7	19	74	6	6	0,57	0,81
108-07	black grey	89 / 127	3	8	16	76	7	7	0,58	0,83

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vogue of3

Vertical fabric Vogue OF3 is an exceptional screen fabric which combines functionality and style. The semi-transparent fabric is made of multi-coloured yarns, woven in a basket-weave. As a result, it has a stylish linen look and is a real enrichment for the interior. The fabric ensures privacy while offering a pleasant outward view. It is made of PVC and polyester and is recommended for interior application. Vogue OF3 is available in five stylish colours, suitable for both the residential and the contract market.



fabric specifications

of	pattern	composition	weight (g/m ²)	thickness (mm)	roll length (m)	colour fastness	bacteria and fungal resistance	tensile strength (warp)	tearing strength (warp)	tensile strength (weft)	tearing strength (weft)
3%	basket weave	75% PVC + 25% PES	425	0,55	100	>7 (ISO 105 B02)	ASTM E 2180, ASTM G21	165 daN/5cm	> 5 daN	165 daN/5cm	> 4 daN

solar heat and light control properties

design	colour	available width in vertical (mm)	available width in roller (cm)	of	Ts	Rs	As	Tuv	Tv	glat	Fc
112-02	hazelnut	89 / 127	300	3	8	30	62	6	7	0,52	0,74
112-03	maple	89 / 127	300	3	9	20	71	6	7	0,56	0,80
112-05	birch	89 / 127	300	3	19	59	22	7	14	0,40	0,57

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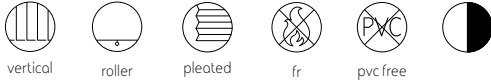
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como

With its flame-retardant properties semi-transparent vertical fabric Como is an essential for home or office. Due to its simplicity, this highly functional plain fabric is an excellent and timeless choice for any space. Vertical fabric Como is available in eight colours.



fabric specifications

of	pattern	composition	weight (g/m ²)	thickness (mm)	roll length (m)	colour fastness
colour depending (1 - 3 %)	plain - no pattern	100% PES FR	260	0,56	100	5 - 7 (ISO 105 B02)

solar heat and light control properties

design	colour	available width in vertical (mm)	available width in roller (cm)	available width in 32mm pleated (cm)	of	Ts	Rs	As	Tuv	Tv	gtot	Fc
3800	white	89/127	330	285	1	31	65	4	9	31	0,38	0,54
3801	ivory	89/127	330	285	2	29	62	9	9	30	0,39	0,56
3802	beige	89/127	330	285	1	24	59	17	10	21	0,40	0,57
3804	mouse grey	89/127	330	285	3	23	51	26	9	15	0,44	0,62
3805	dark grey	89/127	330	285	2	22	43	35	8	10	0,47	0,67
3808	black	89/127	330	285	1	15	32	53	3	2	0,51	0,73
3818	light grey	89/127	330	285	2	29	55	16	15	23	0,42	0,61
3825	anthracite	89/127	330	285	1	19	33	48	6	5	0,52	0,74

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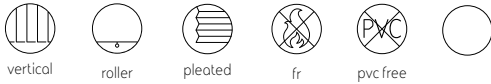
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milan

fabulous fabrics

Vertical fabric Milan combines excellent flame-retardant properties with a natural textile look. The transparent fabric is made of 100% Trevira CS yarns with an unique texture. The warp yarns are white and the weft yarns are coloured. The vertical fabric is available in eight stylish colours. The combination of functionality and style makes this fabric suitable for the contract as well as the residential market.



fabric specifications

of	pattern	composition	weight (g/m ²)	thickness (mm)	roll length (m)	colour fastness
colour depending (10 - 13 %)	plain - no pattern	100% Trevira CS	135	0,35	100	5 - 7 (ISO 105 B02)

solar heat and light control properties

design	colour	available width in vertical (mm)	available width in roller (cm)	available width in 20mm pleated (cm)	available width in 32mm pleated (cm)	of	Ts	Rs	As	Tuv	Tv	g _{tot}	F _c
7910	white	89/127	230	225	285	13	54	45	1	47	55	0,46	0,68
7911	light beige	89/127	230	225	285	10	45	41	14	34	40	0,46	0,70
7912	creme	89/127	230	225	285	10	48	43	9	37	46	0,46	0,69
7914	coffee	89/127	230	225	285	10	39	35	26	27	29	0,48	0,73
7916	espresso	89/127	230	225	285	11	38	31	31	24	25	0,50	0,76
7928	mousy	89/127	230	225	285	11	41	34	25	30	31	0,49	0,74
7929	light beige	89/127	230	225	285	12	50	43	7	42	47	0,46	0,69
7930	milk	89/127	230	225	285	13				45	52		

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douala

The use of slub-effect yarns, threads with deliberate irregularities in thickness, gives semi-transparent vertical fabric Douala its natural silk texture. The sophisticated mélange of yarns from the same colour family and the subtle shine of the fabric underline its classical luxury look. Douala is available in seven colours.



vertical



roller



pvc free



fabric specifications

of	pattern	composition	weight (g/m ²)	thickness (mm)	roll length (m)	colour fastness
6 - 8%	woven	65% PES + 35% Viscose	110	0,25	100	4 - 5 (ISO 105 B02)

solar heat and light control properties

design	colour	available width in vertical (mm)	available width in roller (cm)	of	Ts	Rs	As	Tuv	Tv	g _{tot}	Fc
8820	light grey	89 / 127	280					37	41		
8821	beige	89 / 127	280					33	38		
8822	orange	89 / 127	280					23	30		
8823	red	89 / 127	280					22	21		
8825	olive green	89 / 127	280	6	33	24	43	22	24	0,56	0,80
8826	light blue	89 / 127	280					31	31		
8827	turquoise blue	89 / 127	280	8	31	21	48	19	21	0,57	0,81

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jakarta

fabulous fabrics

Transparent vertical fabric Jakarta is made of different structured effect yarns. The woven fabric has a real textile feeling. Due to its characteristic structure, the fabric beautifully filters the light. An intriguing blend of elegant, deep colours gives the fabric its rich look. Jakarta is available in six colours.



fabric specifications

of	pattern	composition	weight (g/m ²)	thickness (mm)	roll length (m)	colour fastness
4 - 6%	woven	100% PES	108	0,30	100	5 - 7 (ISO 105 B02)

solar heat and light control properties

design	colour	available width in vertical (mm)	available width in roller (cm)	available width in 20mm pleated (cm)	of	Ts	Rs	As	Tuv	Tv	gtot	Fc
8450	grey	89 / 127	230	225	6	10	11	79	9	9	0,60	0,86
8451	dark grey	89 / 127	230	225	5	7	6	87	6	7	0,62	0,89
8455	brown	89 / 127	230	225	4	12	17	71	8	9	0,58	0,82
8460	dark blue	89 / 127	230	225					7	7		
8461	new gold	89 / 127	230	225					8	10		
8462	red copper	89 / 127	230	225					6	7		

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Measurement according to EN410, Glass Type C. Classification according to EN 14501: thermal comfort (table 2)

benefits

- Interior application
- Perfect reduction for solar heat gain
- Improved glare control
- Visual comfort
- Thermal comfort
- Energy saving
- UV protection
- Lead free
- 5 year warranty



All technical information subject to change without prior notice.

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kaduna

Non-transparent vertical jacquard Kaduna is characterized by a natural weaving pattern, worked out in a combination of two stylish colours. The variation in yarn directions creates a lively pattern and a sophisticated, authentic look. Kaduna is available in eight stylish colours.



vertical



roller



pvc free



cold cuttable



fabric specifications

of	pattern	composition	weight (g/m ²)	thickness (mm)	roll length (m)	colour fastness
1%	woven	100% PES	178	0,40	100	4 - 5 (ISO 105 B02)

solar heat and light control properties

design	colour	available width in vertical (mm)	available width in roller (cm)	of	Ts	Rs	As	Tuv	Tv	g _{tot}	Fc
8840	white	89 / 127	280	1	41	54	5	13	41	0,43	0,62
8841	cream	89 / 127	280					11	36		
8842	light grey	89 / 127	280					11	27		
8846	dark grey	89 / 127	280					7	16		
8847	linen	89 / 127	280					11	31		
8848	jade	89 / 127	280					10	30		
8849	cornel	89 / 127	280	1	31	43	26	8	22	0,47	0,68
8850	coffee	89 / 127	280					6	17		

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explanation technical specifications



light reflection (DIN EN 410)
Percentage of sun light that is reflected by the fabric. The higher the percentage the better the light reflection.



light absorption (DIN EN 410)
Percentage of sun light that is absorbed by the fabric. The higher the percentage the more the light will be absorbed.



light transmission (DIN EN 410)
Percentage of sun light that comes through the fabric. The higher the percentage the more visible light will get into the room.



solar reflection (DIN EN 410)
Percentage of sun energy that is reflected by the fabric. The higher the percentage the better the energy reflection.



solar absorption (DIN EN 410)
Percentage of sun energy that is absorbed by the fabric. The higher the percentage the more the energy will be absorbed.



solar transmission (DIN EN 410)
Percentage of sun energy that comes through the fabric. The higher the percentage the more solar energy will get into the room.



UV transmission (DIN EN 410)
Percentage of UV light that comes through the fabric. The higher the percentage the more UV radiation will get into the room.



openness factor (DIN EN 410)
The percentage of open holes in the fabric gained by weave density. The lower the openness factor the less the visible contact with the outside world.



gtot value (DIN EN 13363-1)
The total transmission value of solar energy (from 0-1) through a combination of glass and sun protection. The lower the value the less solar energy comes through the glass and sun protection.



light fastness (DIN EN ISO 105-B02)
Light fastness is the degree of fading-resistance of a colour by daylight. Colours react different on light-fading. Therefore light fastness is judged on a scale of 1 to 8, where 8 is most fade-resistant.



flame retardance
Flame retardant fabrics are fabrics which reduce flammability.

BI Defines the fabric as flame retardant according to the German Fire Protection Standard (DIN 4102-1) and may be used in official buildings. BI is more common in Central and North Europe.

MI Defines the fabric as flame retardant according to the French Fire Protection Standard and may be used in official buildings. MI is more common in South Europe.



Fc value (DIN EN 13363-1)
Reduction factor (from 0-1) of the fabric concerning solar energy. The lower the factor of the fabric the better the reduction of solar energy.

Calculation: $F_c \text{ value} = g_{tot} \text{ value} / g \text{ value of window.}$

class	Fc-values classes	improvement thermal comfort of the room
1	0,20 - 0,39	very high
2	0,40 - 0,59	high
3	0,60 - 0,79	medium
4	0,80 - 0,89	low
5	> 0,90	neutral



nesw (= glare reduction in office environment)
The intensity of the sun is different from every geographic direction of the window. The EU Directive on maximum approved Light Transmission for workstations with visual display units is expressed as a percentage for every direction. The ideal value for workstations is 500-1,500 lux. Suitable for offices according to EU guide line.



north west south east



20,000 lux 60,000 lux 80,000 lux 60,000 lux



Max. 20% Max. 6% Max. 5% Max. 6%

general maintenance instructions



For regular maintenance, use a soft feather duster or vacuum-cleaner with a soft brush at the lowest suction intensity. Moist can cause stains that are difficult to remove. Therefore, please make sure the fabric is or does not get in touch with wet or humid elements. Remove insect excrement on the fabric with a soft brush as soon as possible to avoid corrosion of the metal layer.

handling and cleaning metallized coating

The metallized coating is delicate and must be handled with care to avoid damage. Attention must be given to all phases of fabrication and installation. Do not scrub. Do not use tape, solvents or abrasive cleaners. Clean with damp soft cloth using a very mild detergent.



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