

# TENSILE ARCHITECTURE

C o m p a c t r a n g e

**EASYFLUO™**  
E-PVDF LACQUERING

FRONT-SIDE FLUORINATED TOP-COATED FABRICS



**One-g**

STABILIZING  
COATING SYSTEM

**SIOEN** INDUSTRIES  
ENGAGED DURABLE PERFORMANCES



## WIKI'S



Sioen Easyfluo™ for quality realisations on small to medium TA applications, worldwide

### HOW TO DO IT IN BRIEF

Technical textiles (or fabrics) for tensile architecture applications are composite products with differing behaviours. Choosing the right product is a matter of defining the various project requirements, including mechanical, physical and aesthetic functionalities. Processing these fabrics to reach the desired results, however, is a matter of know-how. This small wiki will help define the required properties and support the production process.

### TENSILE ARCHITECTURE DESIGN BASICS

Tensile surfaces are basically characterized by curved shapes. They always have to be double-curved. A simple sail, for example, needs at least 4 points of tension. The surface shape and all anchoring elements need to be designed to withstand all possible loads.

### CHOOSING THE RIGHT FABRIC STRENGTH

The mechanical behaviour of the fabric is a critical factor for tensile surfaces. The fabric is a structural element and as such has to meet the necessary engineering and safety criteria. It is a good rule to estimate a proper safety factor by considering the maximum working load.

### CUTTING AND PATTERNING

In the final stages of the design process, the surface is patterned into fabric parts in 2D, for assembly by welding in 3D shape. Patterning is a process of accurate geometrical definition, carefully dimensioning the single pattern and the precise percentage of decompensation.

### WELDING AND ASSEMBLY

SIOEN fabrics can be easily welded with high frequency machines or by hot air processes. It is good practice to take the minimum seam width for the type of fabric used. Those are 40mm for type I, 60mm for type II and 80mm for type III fabrics.

### PACKAGING AND INSTALLATION

While Sioen fabrics fold well, in packaging the finalized surface, thought must be given to optimal folding so as to avoid dangerous or damaging unfolding tasks on the worksite. Installation is the real know-how part of the process as here, besides of fundamental knowledge, also great care and skill are mandatory. Expertise is required during lifting and tensioning of the surface. Optimum weather conditions should be sought for these operations, never below 5°C or at wind speed over 5 m/s. Lifting and installation operations during rain weather shall consider proper water evacuation or shall simply be avoided.

### INSPECTION AND MAINTENANCE

Permanent monitoring of the project's performance is essential. Sioen fabrics are engineered for long-lasting properties, but visual inspections must be conducted to check for obvious damage or for other deficiencies. The maintenance process needs to include:

- periodical or specific controls where necessary
- periodical or specific cleaning if needed

Eventual repairs to the fabric are an easy task but require an expert hand.



FOR MORE INFORMATION ON HOW TO USE THE FABRIC, CHECK OUR WEBSITE  
[WWW.SIOEN-ARCHITECTURE.COM](http://WWW.SIOEN-ARCHITECTURE.COM)

# FABRICS



EASYFLUO™ / FR T0101E / 650 gr.  
/ NON-FR T0001E / 650 gr.

**10 YEARS WARRANTY**

PES  
1100 DTEX  
650 gr./M<sup>2</sup>

PVC COATED  
GLOSSY PVDF  
TYPE 0



EASYFLUO™ / FR T1101E / 730 gr.  
/ NON-FR T1001E / 730 gr.

**10 YEARS WARRANTY**

PES  
1100 DTEX  
730 gr./M<sup>2</sup>

PVC COATED  
GLOSSY PVDF  
TYPE 1



EASYFLUO™ / FR T2101E / 900 gr.  
/ NON-FR T2001E / 900 gr.

**10 YEARS WARRANTY**

PES  
1100 DTEX  
900 gr./M<sup>2</sup>

PVC COATED  
GLOSSY PVDF  
TYPE 2



EASYFLUO™ / FR T2102E / 1050 gr.  
/ NON-FR T2002E / 1050 gr.

**10 YEARS WARRANTY**

PES  
1100 DTEX  
1050 gr./M<sup>2</sup>


PVC COATED  
GLOSSY PVDF  
TYPE 2





# TENSILE ARCHITECTURE

## VALUES

LIST OF PROPERTIES	MEASUREMENT METHODS/ CLASSIFICATIONS	MEASUREMENT METHODS/ CLASSIFICATIONS						
		FR	T0101E	T1101E	T2101E	T2102E	T3101E	T4101E
		NON FR	T0001E	T1001E	T2001E	T2002E	T3001E	T4001E
<b>MATERIAL COMPOSITION</b>								
BASE FABRIC	(DIN) ISO 2076		PES	PES	PES	PES	PES	PES
YARN IN DTEX	(DIN) ISO 2060		1100	1100	1100	1100	1670	1670
TOTAL WEIGHT IN gr./M <sup>2</sup>	EN ISO 2286-2		650	730	900	1050	1150	1350
THICKNESS IN MM			0.55	0.60	0.75	0.90	1.00	1.15
TOP SURFACE TREATMENT		FINE-TUNED WELDABLE PVDF-LACQUER COMPOUND, UV-PROTECTED, HIGH GLOSSY						
BACK SURFACE TREATMENT		WELDABLE HIGH DENSITY ACRYLIC LACQUER COMPOUND, UV-PROTECTED, HIGH GLOSSY						
<b>MECHANICAL PROPERTIES</b>								
TENSILE STRENGTH IN N/50 MM	EN ISO 1421/1		2900/2700	3000/3000	4300/4200	4300/4200	6000/5500	8000/7000
TEAR STRENGTH IN N	DIN 53363		300/300	300/300	600/500	600/500	900/800	1200/1200
ADHESION N/5CM	EN ISO 2411		100	100	120	120	120	120
CRACK RESISTANCE	100000 X DIN 53359 A		NO CRACKS					
<b>PHYSICAL PROPERTIES</b>								
LIGHT FASTNESS	DIN EN ISO 105 B02		7 -8 NOTE					
TEMPERATURE RESISTANCE			-30°C / +70°C					
FIRE CLASSIFICATION			B1 (DIN4102), M2 (NFP 92507), EN13501-1:B-S2-D0, BS 7837, CALIFORNIA T19, GOST					B1 (DIN4102), GOST EN13501-1, C-S2-D0
WARRANTY (Y)			10 YEARS					
STANDARD ROLL WIDTH	CM		300					

EASYFLUO™ / FR T3101E / 1150 gr.  
/ NON-FR T3001E / 1150 gr.




**10**  
YEARS  
WARRANTY

PES  
1670 DTEX  
1150 gr./M<sup>2</sup>

PVC COATED  
GLOSSY PVDF  
TYPE 3



EASYFLUO™ / FR T4101E / 1350 gr.  
/ NON-FR T4001E / 1350 gr.



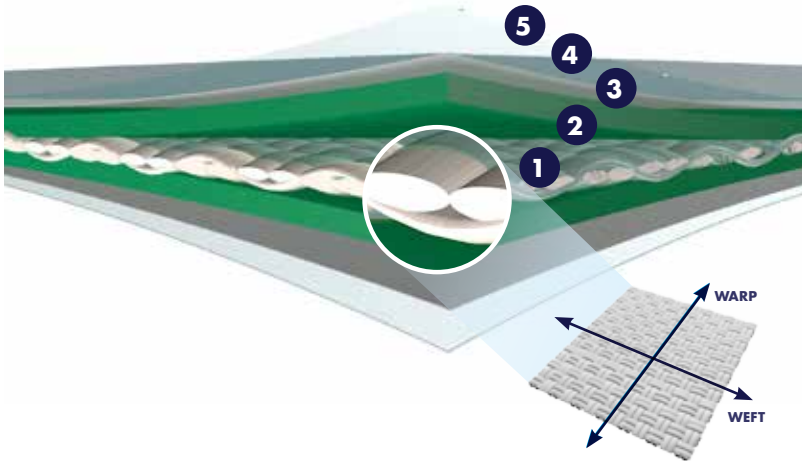
**10**  
YEARS  
WARRANTY

PES  
1670 DTEX  
1350 gr./M<sup>2</sup>

PVC COATED  
GLOSSY PVDF  
TYPE 4



# SIOEN +



## SCHEMATIC COMPOSITION OF THE EASYFLUO™ ARCHITECTURAL FABRIC

1. Pre-treated base fabric PES high tenacity stabilised yarn
2. Double-side PES adhesion impregnation layers
3. Double-side quality PVC main coating layer pigmented with UV stabilizers, for FR types fire-retardant and flexing additives
4. Backside acrylic top coat lacquering for good cleaning ability
5. EASYFLUO light PVDF top coat lacquering layer for implemented cleaning ability, improved UV resistance and perfect weldability

## One-g<sup>o</sup> COATING PRODUCTION SYSTEM

Our unique state-of-the-art machinery allows to coat back and front side of the fabrics in one run, avoiding stop-and go in between the various layering and lacquering processes. Herewith the product is not exposed to unfavorable thermal or mechanical



shocks, so that the final product is unbeatable quality wise. The One-g<sup>o</sup> process provides an extraordinary product stability, flat stretched fabric with better overall distensile properties and short lead times.

### DEDICATED R&D CUSTOMIZED DEVELOPMENT

At our central research and development center, our dedicated team of professionals makes tensile architecture their daily business. This new range, with new and exclusive yarn formulations, techniques and lacquering, is the result of intensified collaboration between our researchers, external specialists, universities



### OVERALL EASYFLUO™ ADVANTAGES

- State of the art seamless double-side knife-coated quality
- Good stable mechanical properties
- Perfect weldability
- PVDF/ acrylic double lacquering
- Protection against moisture
- Resistant to temperature variation
- High abrasion resistance
- Largest choice of widths on the market
- Largest choice of colours
- FR and non-FR available
- Cost effective

### WIDTHS

- 218 cm - 85.83 inch - 7.15 feet
- 250 cm - 98.43 inch - 8.2 feet
- 300 cm - 118.11 inch - 9.84 feet



### COMMITTED

Sioen is ethically and ecologically committed to invest in sustainable business processes and relationships. We strive to preserve and improve the global environment through a pro-active environmental policy. Our internal recycling systems and the respect of the EU norms and certification allow us to be a reliable partner for customers and suppliers.



# PROCESSES



## FULL INTEGRATION AND IN-HOUSE SUPPLY-CHAIN CONTROL:

All capable resources are vertically fully integrated, making us the only full service provider able to offer the entire production process in-house. Our own portfolio ranges from chemicals to yarns, raw fabric and pigment pastes to coating and lacquering of technical textiles. Our capability is ensured through 5 coating techniques in 7 coating plants, 3 weaving units and one spinning mill all over Europe.



# SIOEN INDUSTRIES

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# TENSILE ARCHITECTURE

C l a s s i c   r a n g e

**FLUOMAX™**  
PVDF LACQUERING

BOTH-SIDES FLUORINATED UV TOP-COATED FABRICS



**LOW  
WICK**

**One-g**

STABILIZING  
COATING SYSTEM

**SIOEN** INDUSTRIES  
ENGAGED DURABLE PERFORMANCES



## WIKI'S



Sioen Fluomax™ for long lasting and good performing TA applications, worldwide

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# FABRICS



FLUOMAX™ / T0108 / 650 gr.

**15 YEARS WARRANTY** | PES | PVC COATED  
1100 DTEX | HIGH-GLOSSY PVDF  
650 gr./M<sup>2</sup> | TYPE 0



FLUOMAX™ / T1108 / 725 gr.

**15 YEARS WARRANTY** | PES | PVC COATED  
1100 DTEX | HIGH-GLOSSY PVDF  
725 G/M<sup>2</sup> | TYPE 1



FLUOMAX™ / T2106 / 900 gr.

**15 YEARS WARRANTY** | PES | PVC COATED  
1100 DTEX | HIGH-GLOSSY PVDF  
900 gr./M<sup>2</sup> | TYPE 2



FLUOMAX™ / T2108 / 1050 gr.

**15 YEARS WARRANTY** | PES | PVC COATED  
1100 DTEX | HIGH-GLOSSY PVDF  
1050 gr./M<sup>2</sup> | TYPE 2



# TENSILE ARCHITECTURE

## VALUES

LIST OF PROPERTIES	MEASUREMENT METHODS/ CLASSIFICATIONS	MEASUREMENT METHODS/ CLASSIFICATIONS					
		T0108	T1108	T2106	T2108	T3108	T4108
<b>MATERIAL COMPOSITION</b>							
BASE FABRIC	(DIN) ISO 2076	PES	PES	PES	PES	PES	PES
YARN IN DTEX	(DIN) ISO 2060	1100	1100	1100	1100	1670	1670
TOTAL WEIGHT IN gr./M <sup>2</sup>	EN ISO 2286-2	650	725	900	1050	1150	1350
THICKNESS IN MM		0.55	0.60	0.75	0.90	1.00	1.15
TOP SURFACE TREATMENT	FLUOMAX™	FINE-TUNED WELDABLE PVDF-LACQUER COMPOUND ON BOTH SIDES, LOW-WICK, MICROBIAL AND FUNGICIDE PROTECTED, UV-PROTECTED					
BACK SURFACE TREATMENT							
<b>MECHANICAL PROPERTIES</b>							
TENSILE STRENGTH IN N/50 MM	EN ISO 1421/1	2900/2700	3000/3000	4300/4200	4300/4200	6000/5500	8000/7000
TEAR STRENGTH IN N	DIN 53363	300/300	300/300	600/500	600/500	900/800	1200/1200
ADHESION N/5CM	EN ISO 2411	120	120	120	120	120	120
CRACK RESISTANCE	100000 X DIN 53359 A	NO CRACKS					
<b>PHYSICAL PROPERTIES</b>							
LIGHT TRANSMITTANCE (%)	550 NM	9%	8%	6.5%	5%	4%	3%
REFLECTION		87.5%	88%	89%	90.5%	91%	92%
ABSORBTION		3.5%	4%	4.5%	4.5%	5%	5%
LIGHT FASTNESS	DIN EN ISO 105 B02	7 -8 NOTE					
TEMPERATURE RESISTANCE		-30°C / +70°C					
FIRE CLASSIFICATION		B1 (DIN4102), M2 (NFP 92507), EN13501-1:B-S2-D0, BS 7837, CALIFORNIA T19, GOST					B1 (DIN4102), GOST EN13501-1, C-S2-D0
WARRANTY (Y)		15 YEARS					
STANDARD ROLL WIDTH	CM	250					

FLUOMAX™ / T3108 / 1150 gr.



**15**  
YEARS  
WARRANTY

PES  
1670 DTEX  
1150 gr./M<sup>2</sup>

PVC COATED  
HIGH-GLOSSY PVDF  
TYPE 3



FLUOMAX™ / T4108 / 1350 gr.



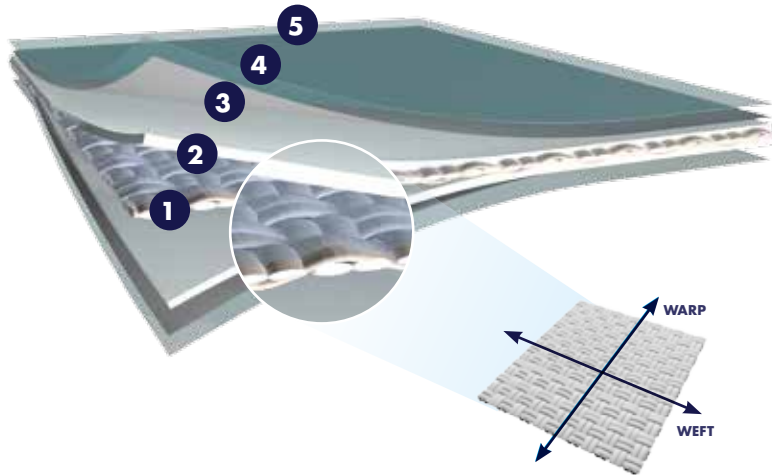
**15**  
YEARS  
WARRANTY

PES  
1670 DTEX  
1350 gr./M<sup>2</sup>

PVC COATED  
HIGH-GLOSSY PVDF  
TYPE 4



# SIOEN +



## SCHEMATIC COMPOSITION OF THE FLUOMAX™ ARCHITECTURAL FABRIC

1. Pre-treated base fabric PES high tenacity yarn –extra strong, stabilised, anti-capillary low-wick treated and flattened
2. Double-side impregnation coating layer for extra PES protection and increased adhesion properties to the PVC substrate
3. Double-side highest quality PVC main coating layer highly pigmented with UV stabilizers, anti-mould, fire-retardant and flexing additives
4. Double-side binding primer layer for anti-peeling lacquer adhesion, pigmentation protection and foldability resistance
5. FLUOMAX top coat lacquering layer grants a great cleaning ability, perfect UV resistance and still perfect weldability

## One-g<sup>o</sup> COATING PRODUCTION SYSTEM

Our unique state-of-the-art machinery allows to coat back and front side of the fabrics in one run, avoiding stop-and go in between the various layering and lacquering processes. Herewith the product is not exposed to unfavorable thermal or mechanical



shocks, so that the final product is unbeatable quality wise. The One-g<sup>o</sup> process provides an extraordinary product stability, flat stretched fabric with better overall distensile properties and short lead times.

### DEDICATED R&D CUSTOMIZED DEVELOPMENT

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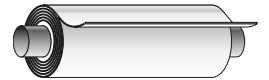


### OVERALL FLUOMAX™ ADVANTAGES

- State of the art seamless double-side knife-coated quality
- Clear white visual effect
- Anti-capillary low wicking treatment
- Flat, stable mechanical properties
- Perfect weldability
- Cleaning ability greatly enhanced
- Perfect UV resistance
- Protection against moisture
- Resistant to temperature variation
- High abrasion resistance
- Largest choice of widths on the market

### WIDTHS

- 218 cm - 85.83 inch - 7.15 feet
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### COMMITTED

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# PROCESSES



## FULL INTEGRATION AND IN-HOUSE SUPPLY-CHAIN CONTROL:

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# TENSILE ARCHITECTURE

C o m p a c t r a n g e

**SIOGLOSS™**  
ACRYLIC LACQUERING

BOTH SIDES HIGH DENSITY TOP-COATED FABRICS



**One-g**

STABILIZING  
COATING SYSTEM

**SIEN** INDUSTRIES  
ENGAGED DURABLE PERFORMANCES





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Processing fabrics to reach the desired results is a matter of know-how

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# FABRICS



SIOGLOSS™ / T0001S / 600 gr.

**6 YEARS WARRANTY** | PES | 1100 DTEX | 600 gr./M<sup>2</sup> | PVC COATED ACRYLIC GLOSSY TYPE 0



SIOGLOSS™ / T1001S / 700 gr.

**6 YEARS WARRANTY** | PES | 1100 DTEX | 700 G/M<sup>2</sup> | PVC COATED ACRYLIC GLOSSY TYPE 1



SIOGLOSS™ / T2001S / 900 gr.

**6 YEARS WARRANTY** | PES | 1100 DTEX | 900 gr./M<sup>2</sup> | PVC COATED ACRYLIC GLOSSY TYPE 2




SIOGLOSS™ / T3001S / 1050 gr.

**6 YEARS WARRANTY** | PES | 1100 DTEX | 1050 gr./M<sup>2</sup> | PVC COATED ACRYLIC GLOSSY TYPE 3



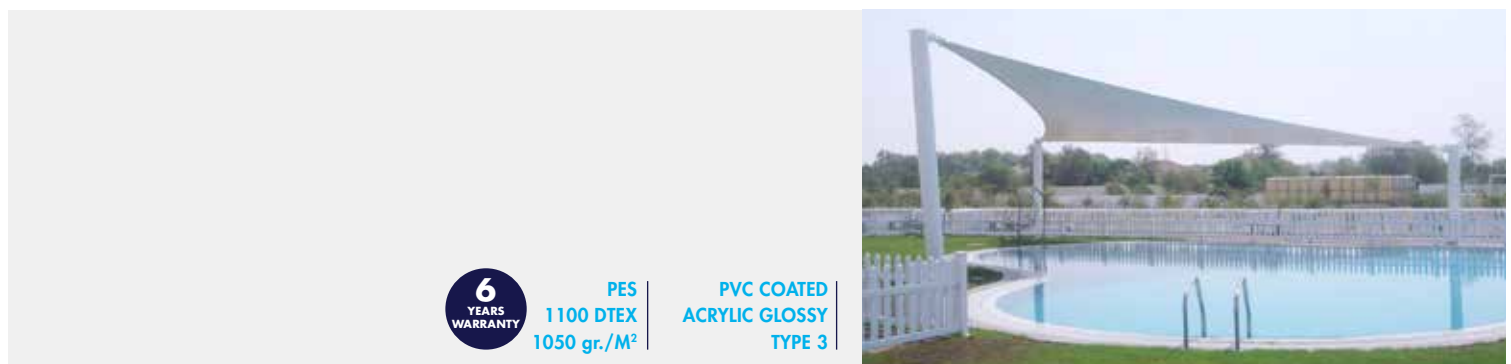
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## VALUES

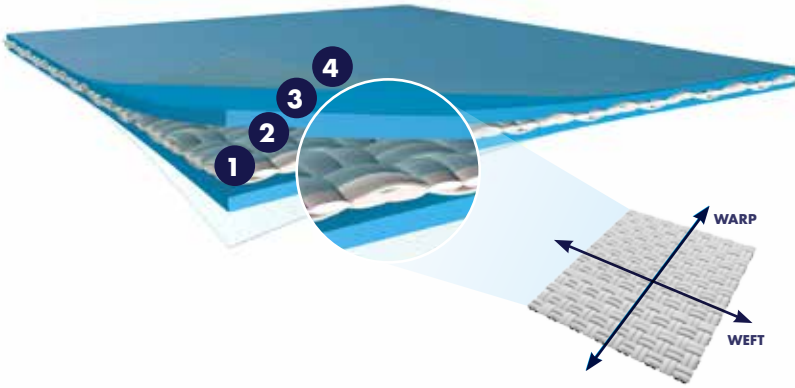
LIST OF PROPERTIES	MEASUREMENT METHODS/ CLASSIFICATIONS	TYPE 0	TYPE 1	TYPE 2	TYPE 3
		T0001S	T1001S	T2001S	T3001S
<b>MATERIAL COMPOSITION</b>					
BASE FABRIC	(DIN) ISO 2076	PES	PES	PES	PES
YARN IN DTEX	(DIN) ISO 2060	1100	1100	1100	1100
TOTAL WEIGHT IN gr./M <sup>2</sup>	EN ISO 2286-2	600	700	900	1050
THICKNESS IN MM		0.50	0.60	0.75	0.90
TOP SURFACE TREATMENT		HIGH DENSITY ACRYLIC GLOSSY, EMBOSSED			
BACK SURFACE TREATMENT		HIGH DENSITY ACRYLIC GLOSSY			
<b>MECHANICAL PROPERTIES</b>					
TENSILE STRENGTH IN N/50 MM	EN ISO 1421/1	2500/2300	3000/ 2800	4000/4000	4000/4000
TEAR STRENGTH IN N	DIN 53363	270/ 270	300/ 300	600/ 500	600/ 500
ADHESION N/5CM	EN ISO 2411	90	100	100	100
CRACK RESISTANCE	100000 X DIN 53359 A	NO CRACKS			
<b>PHYSICAL PROPERTIES</b>					
LIGHT FASTNESS	DIN EN ISO 105 B02	7 -8 NOTE			
TEMPERATURE RESISTANCE		-30°C / +70°C			
WARRANTY (Y)		6 YEARS			
STANDARD ROLL WIDTH	CM	250	250	300	300



SIOGLOSS™ / T3001S / 1050 gr. / COLOR 1901 SANDSTONE



# SIOEN +



## SCHEMATIC COMPOSITION OF THE SIOGLOSS™ ARCHITECTURAL FABRIC

1. Pre treated base fabric PES high tenacity stabilised yarn
2. Double-side PES adhesion impregnation layers
3. Double-side quality PVC main coating layer
4. Double-side SIOGLOSS acrylic top coat lacquering for good cleaning ability, UV protection and perfect weldability

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- State of the art seamless double-side knife-coated quality
- Good stable mechanical properties
- Perfect weldability
- Double acrylic lacquering
- Resistant to temperature variation
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- Largest choice of widths on the market
- Largest choice of colours
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