



TECHNICAL DATA - Type xSF 10/1

PHOTOVOLTAIC GLASS		577 x 1017	
		Dark	Clear-0%
Electrical data test conditions (STC)			
Nominal peak power	34	P _{mpp} (Wp)	
Open-circuit voltage	79	V _{oc} (V)	
Short-circuit current	0,70	I _{sc} (A)	
Voltage at nominal power	54	V _{mpp} (V)	
Current at nominal power	0,62	I _{mpp} (A)	
Power tolerance not to exceed	±5	%	
STC: 1000 w/m ² , AM 1.5 and a cell temperature of 25°C, stabilized module state.			
Mechanical description			
Length	577	mm	
Width	1017	mm	
Thickness	37	mm	
Surface area	0,59	sqm	
Weight	34	Kgs	
Cell type	a-Si	Thin Film	
Transparency degree	Dark	Clear-0%	
Front Glass	6 mm	Tempered Glass	
PV Active Glass	3,2 mm	Float Glass	
Rear Glass	6 mm	Tempered Glass	
Air Chamber	10 mm	Argon Chamber	
Inner Glass	4 mm	Tempered Glass	
Inner Glass	4 mm	Tempered Glass	
Thickness encapsulation	2,28 mm	PVB Foils	
Category / Color code	Grey	Frit Pattern	
Junction Box			
Protection	IP65		
Wiring Section	2,5 mm ² or 4,0 mm ²		
Limits			
Maximum system voltage	1000	V _{sys} (V)	
Operating module temperature	-40...+85 °C		
Temperature Coefficients			
Temperature Coefficient of Pmpp	-0,19	%/°C	
Temperature Coefficient of Voc	-0,28	%/°C	
Temperature Coefficient of Isc	+0,09	%/°C	

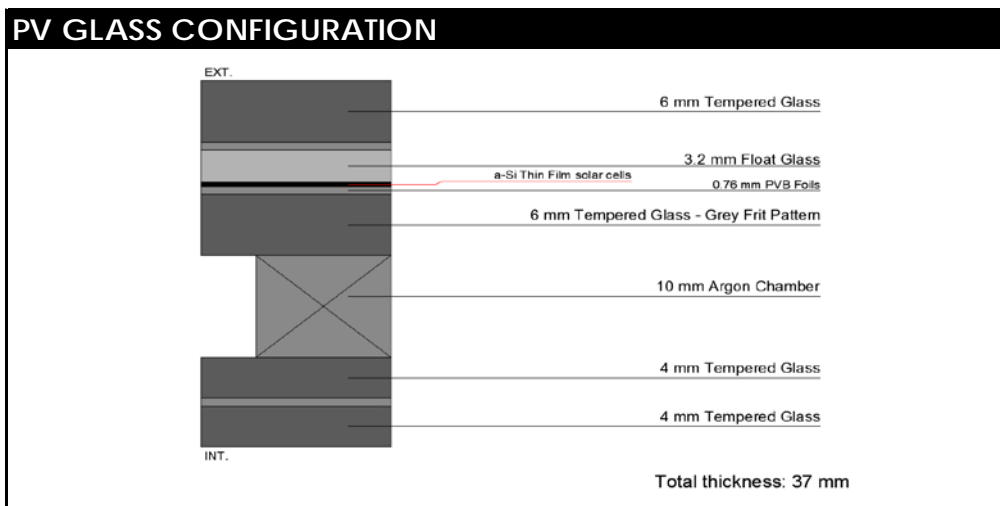
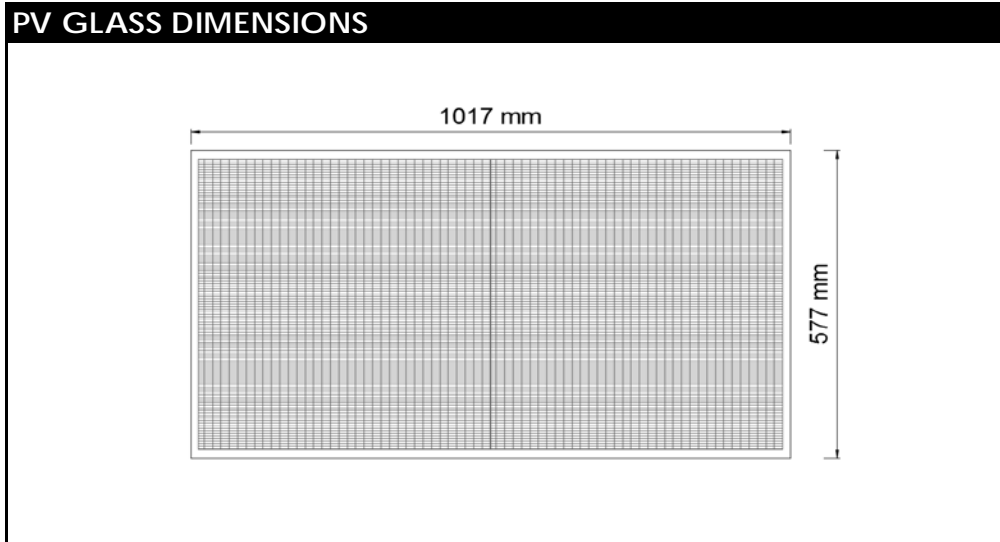
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TECHNICAL DATA - Type xSF 10/1



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	6.00%
Light Transmission	0.00%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	2,7
Peak Power [Wp/sqm]	57,6

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TECHNICAL DATA - Type xSF 11/1

PHOTOVOLTAIC GLASS		711 x 1017	
		Dark	Clear-0%
Electrical data test conditions (STC)			
Nominal peak power	42	P _{mpp} (Wp)	
Open-circuit voltage	79	V _{oc} (V)	
Short-circuit current	0,86	I _{sc} (A)	
Voltage at nominal power	54	V _{mpp} (V)	
Current at nominal power	0,77	I _{mpp} (A)	
Power tolerance not to exceed	±5	%	
STC: 1000 w/m ² , AM 1.5 and a cell temperature of 25°C, stabilized module state.			
Mechanical description			
Length	711	mm	
Width	1017	mm	
Thickness	37	mm	
Surface area	0,72	sqm	
Weight	42	Kgs	
Cell type	a-Si	Thin Film	
Transparency degree	Dark	Clear-0%	
Front Glass	6 mm	Tempered Glass	
PV Active Glass	3,2 mm	Float Glass	
Rear Glass	6 mm	Tempered Glass	
Air Chamber	10 mm	Argon Chamber	
Inner Glass	4 mm	Tempered Glass	
Inner Glass	4 mm	Tempered Glass	
Thickness encapsulation	2,28 mm	PVB Foils	
Category / Color code	Grey	Frit Pattern	
Junction Box			
Protection	IP65		
Wiring Section	2,5 mm ² or 4,0 mm ²		
Limits			
Maximum system voltage	1000	V _{sys} (V)	
Operating module temperature	-40...+85 °C		
Temperature Coefficients			
Temperature Coefficient of Pmpp	-0,19	% / °C	
Temperature Coefficient of Voc	-0,28	% / °C	
Temperature Coefficient of Isc	+0,09	% / °C	

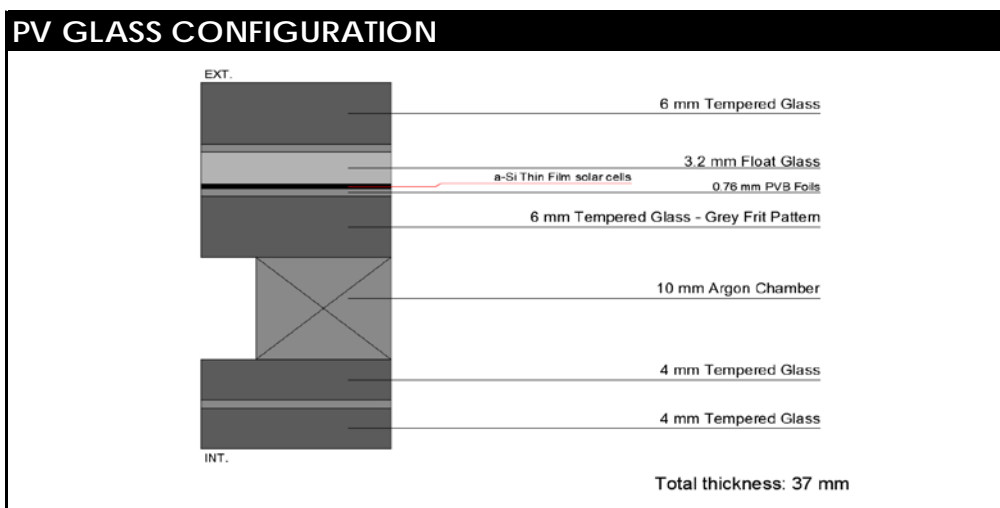
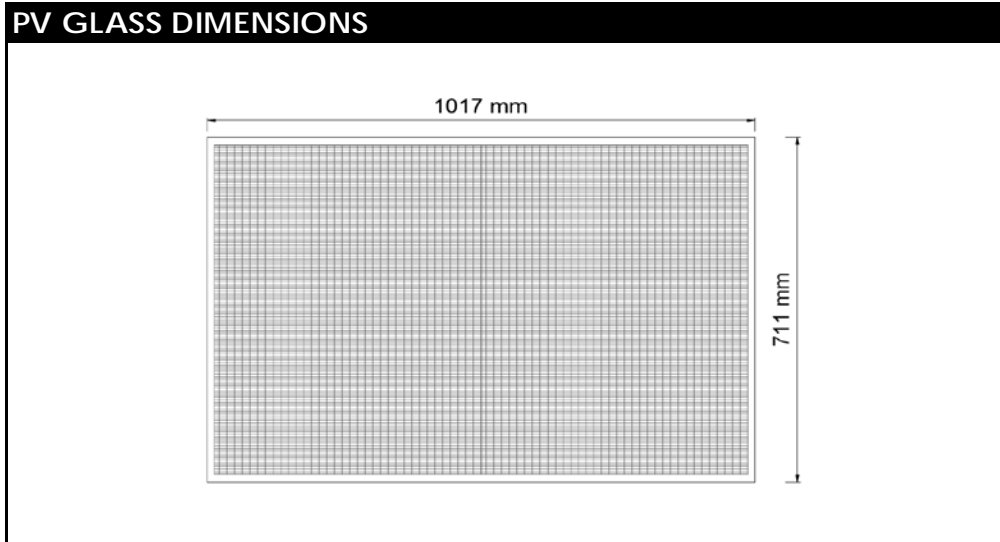
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TECHNICAL DATA - Type xSF 11/1



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	6.00%
Light Transmission	0.00%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	2,7
Peak Power [Wp/sqm]	57,6

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TECHNICAL DATA - Type xSF 12/1

PHOTOVOLTAIC GLASS		723 x 1017	
		Dark	Clear-0%
Electrical data test conditions (STC)			
Nominal peak power	42	P _{mpp} (Wp)	
Open-circuit voltage	79	V _{oc} (V)	
Short-circuit current	0,87	I _{sc} (A)	
Voltage at nominal power	54	V _{mpp} (V)	
Current at nominal power	0,78	I _{mpp} (A)	
Power tolerance not to exceed	±5	%	
STC: 1000 w/m ² , AM 1.5 and a cell temperature of 25°C, stabilized module state.			
Mechanical description			
Length	723	mm	
Width	1017	mm	
Thickness	37	mm	
Surface area	0,74	sqm	
Weight	43	Kgs	
Cell type	a-Si	Thin Film	
Transparency degree	Dark	Clear-0%	
Front Glass	6 mm	Tempered Glass	
PV Active Glass	3,2 mm	Float Glass	
Rear Glass	6 mm	Tempered Glass	
Air Chamber	10 mm	Argon Chamber	
Inner Glass	4 mm	Tempered Glass	
Inner Glass	4 mm	Tempered Glass	
Thickness encapsulation	2,28 mm	PVB Foils	
Category / Color code	Grey	Frit Pattern	
Junction Box			
Protection	IP65		
Wiring Section	2,5 mm ² or 4,0 mm ²		
Limits			
Maximum system voltage	1000	V _{sys} (V)	
Operating module temperature	-40...+85 °C		
Temperature Coefficients			
Temperature Coefficient of Pmpp	-0,19	% / °C	
Temperature Coefficient of Voc	-0,28	% / °C	
Temperature Coefficient of Isc	+0,09	% / °C	

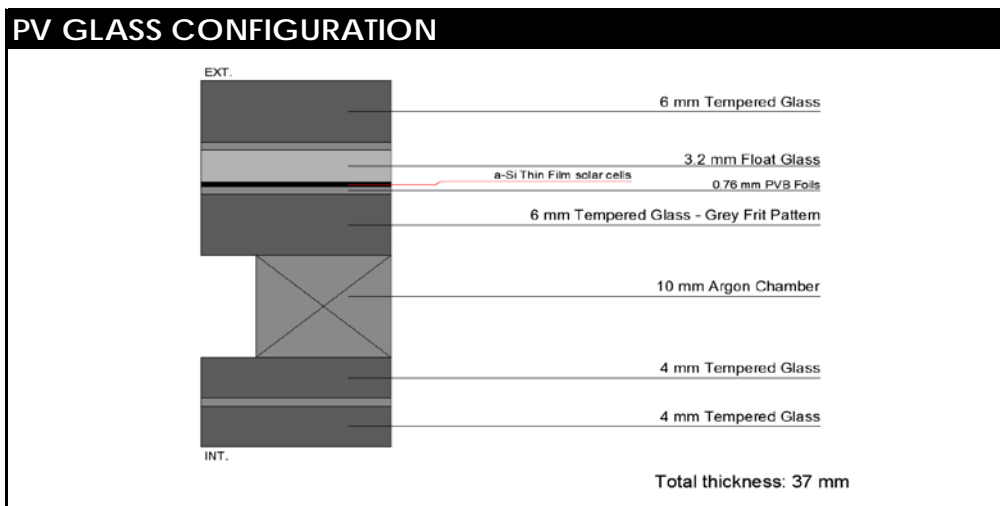
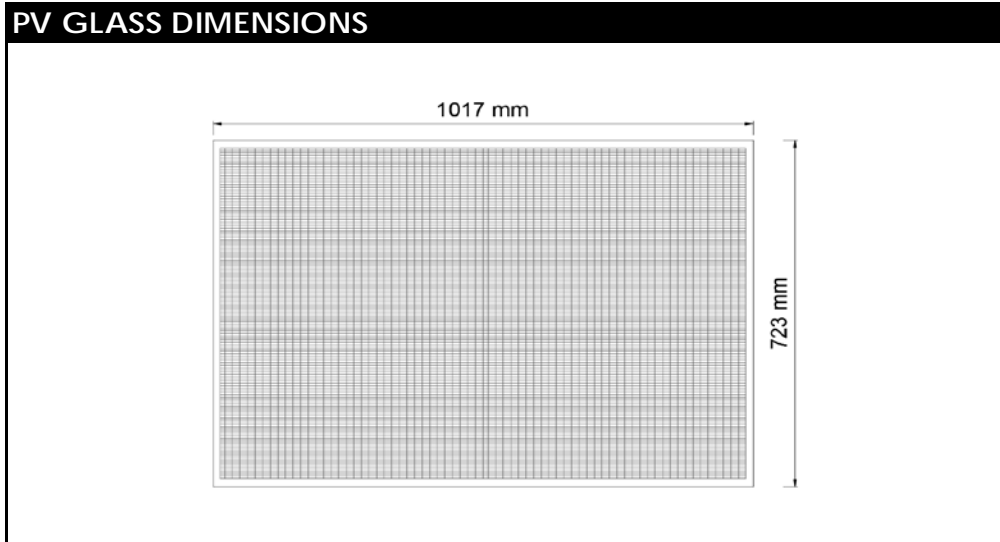
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TECHNICAL DATA - Type xSF 12/1



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	6.00%
Light Transmission	0.00%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	2,7
Peak Power [Wp/sqm]	57,6

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TECHNICAL DATA - Type xSF 13/1

PHOTOVOLTAIC GLASS		1164 x 1017	
		Dark	Clear-0%
Electrical data test conditions (STC)			
Nominal peak power	68	P _{mpp} (Wp)	
Open-circuit voltage	79	V _{oc} (V)	
Short-circuit current	1,40	I _{sc} (A)	
Voltage at nominal power	54	V _{mpp} (V)	
Current at nominal power	1,25	I _{mpp} (A)	
Power tolerance not to exceed	±5	%	
STC: 1000 w/m ² , AM 1.5 and a cell temperature of 25°C, stabilized module state.			
Mechanical description			
Length	1164	mm	
Width	1017	mm	
Thickness	37	mm	
Surface area	1,18	sqm	
Weight	69	Kgs	
Cell type	a-Si	Thin Film	
Transparency degree	Dark	Clear-0%	
Front Glass	6 mm	Tempered Glass	
PV Active Glass	3,2 mm	Float Glass	
Rear Glass	6 mm	Tempered Glass	
Air Chamber	10 mm	Argon Chamber	
Inner Glass	4 mm	Tempered Glass	
Inner Glass	4 mm	Tempered Glass	
Thickness encapsulation	2,28 mm	PVB Foils	
Category / Color code	Grey	Frit Pattern	
Junction Box			
Protection	IP65		
Wiring Section	2,5 mm ² or 4,0 mm ²		
Limits			
Maximum system voltage	1000	V _{sys} (V)	
Operating module temperature	-40...+85 °C		
Temperature Coefficients			
Temperature Coefficient of P _{mpp}	-0,19	% / °C	
Temperature Coefficient of V _{oc}	-0,28	% / °C	
Temperature Coefficient of I _{sc}	+0,09	% / °C	

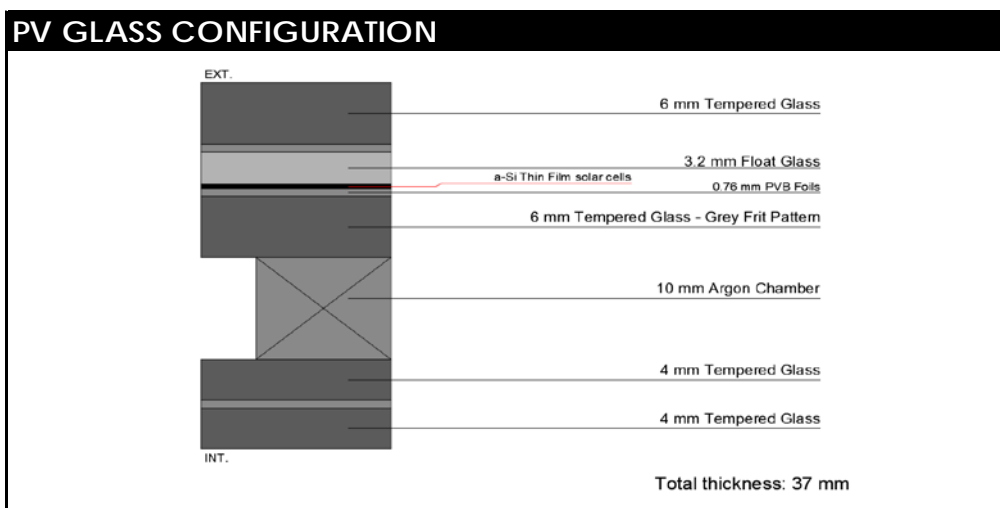
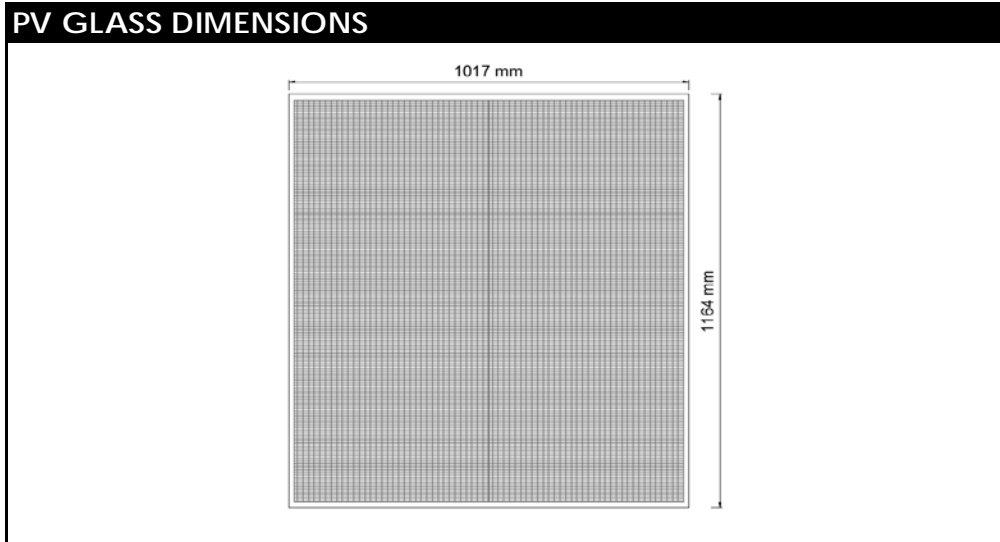
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TECHNICAL DATA - Type xSF 13/1



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	6.00%
Light Transmission	0.00%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	2,7
Peak Power [Wp/sqm]	57,6

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TECHNICAL DATA - Type xSF 14/1

PHOTOVOLTAIC GLASS		1298 x 1017
		Dark Clear-0%
Electrical data test conditions (STC)		
Nominal peak power	73	P _{mpp} (Wp)
Open-circuit voltage	79	V _{oc} (V)
Short-circuit current	1,50	I _{sc} (A)
Voltage at nominal power	54	V _{mpp} (V)
Current at nominal power	1,34	I _{mpp} (A)
Power tolerance not to exceed	±5	%
STC: 1000 w/m ² , AM 1.5 and a cell temperature of 25°C, stabilized module state.		
Mechanical description		
Length	1298	mm
Width	1017	mm
Thickness	37	mm
Surface area	1,32	sqm
Weight	77	Kgs
Cell type	a-Si	Thin Film
Transparency degree	Dark	Clear-0%
Front Glass	6 mm	Tempered Glass
PV Active Glass	3,2 mm	Float Glass
Rear Glass	6 mm	Tempered Glass
Air Chamber	10 mm	Argon Chamber
Inner Glass	4 mm	Tempered Glass
Inner Glass	4 mm	Tempered Glass
Thickness encapsulation	2,28 mm	PVB Foils
Category / Color code	Grey	Frit Pattern
Junction Box		
Protection	IP65	
Wiring Section	2,5 mm ² or 4,0 mm ²	
Limits		
Maximum system voltage	1000	V _{sys} (V)
Operating module temperature	-40...+85 °C	
Temperature Coefficients		
Temperature Coefficient of Pmpp	-0,19	%/°C
Temperature Coefficient of Voc	-0,28	%/°C
Temperature Coefficient of Isc	+0,09	%/°C

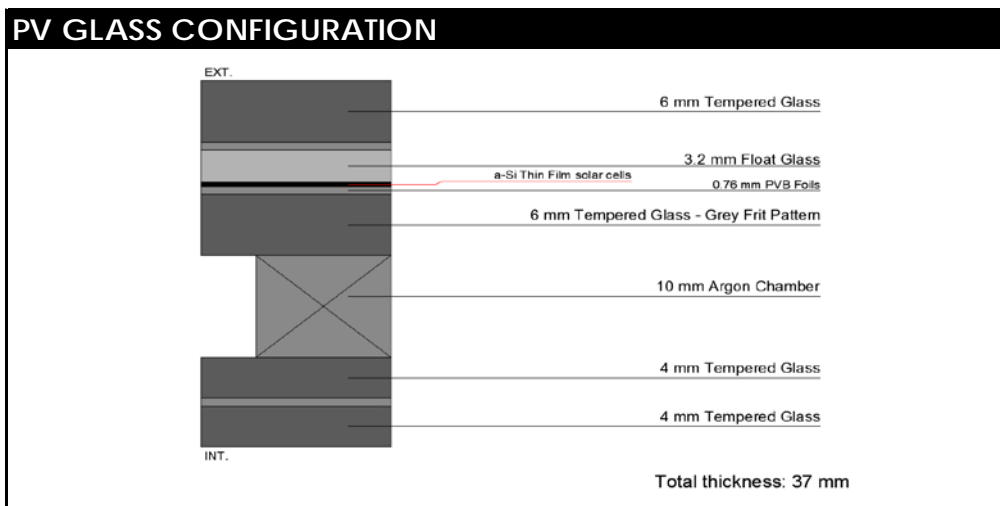
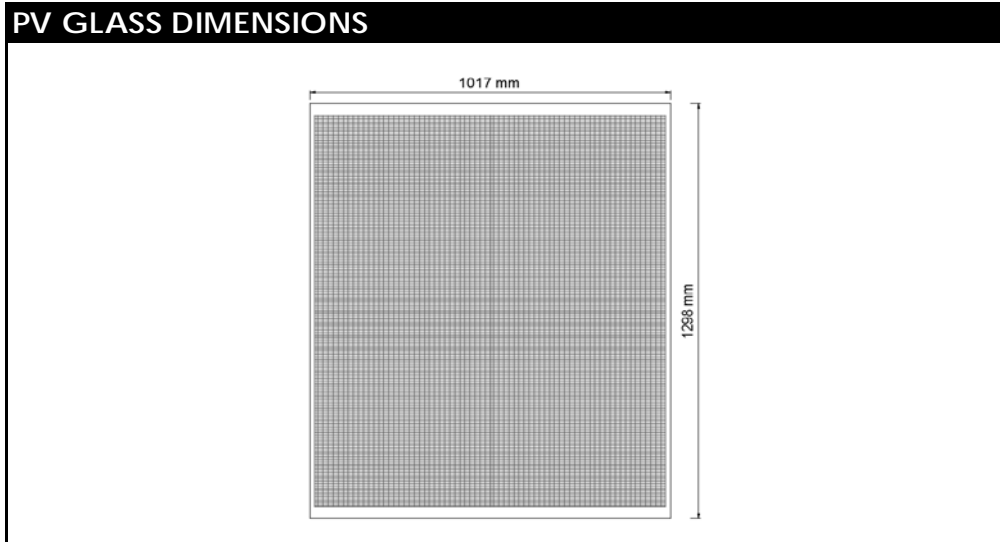
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TECHNICAL DATA - Type xSF 14/1



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	6.00%
Light Transmission	0.00%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	2,7
Peak Power [Wp/sqm]	55,3

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TECHNICAL DATA - Type xSF 15/1

PHOTOVOLTAIC GLASS		1310 x 1017	
		Dark	Clear-0%
Electrical data test conditions (STC)			
Nominal peak power	73	P _{mpp} (Wp)	
Open-circuit voltage	79	V _{oc} (V)	
Short-circuit current	1,50	I _{sc} (A)	
Voltage at nominal power	54	V _{mpp} (V)	
Current at nominal power	1,34	I _{mpp} (A)	
Power tolerance not to exceed	±5	%	
STC: 1000 w/m ² , AM 1.5 and a cell temperature of 25°C, stabilized module state.			
Mechanical description			
Length	1310	mm	
Width	1017	mm	
Thickness	37	mm	
Surface area	1,33	sqm	
Weight	77	Kgs	
Cell type	a-Si	Thin Film	
Transparency degree	Dark	Clear-0%	
Front Glass	6 mm	Tempered Glass	
PV Active Glass	3,2 mm	Float Glass	
Rear Glass	6 mm	Tempered Glass	
Air Chamber	10 mm	Argon Chamber	
Inner Glass	4 mm	Tempered Glass	
Inner Glass	4 mm	Tempered Glass	
Thickness encapsulation	2,28 mm	PVB Foils	
Category / Color code	Grey	Frit Pattern	
Junction Box			
Protection	IP65		
Wiring Section	2,5 mm ² or 4,0 mm ²		
Limits			
Maximum system voltage	1000	V _{sys} (V)	
Operating module temperature	-40...+85 °C		
Temperature Coefficients			
Temperature Coefficient of Pmpp	-0,19	% / °C	
Temperature Coefficient of Voc	-0,28	% / °C	
Temperature Coefficient of Isc	+0,09	% / °C	

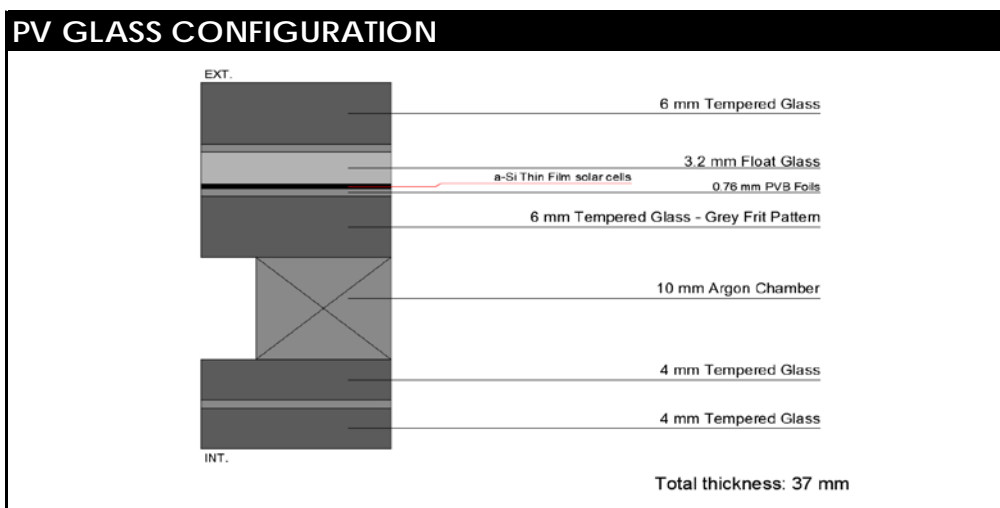
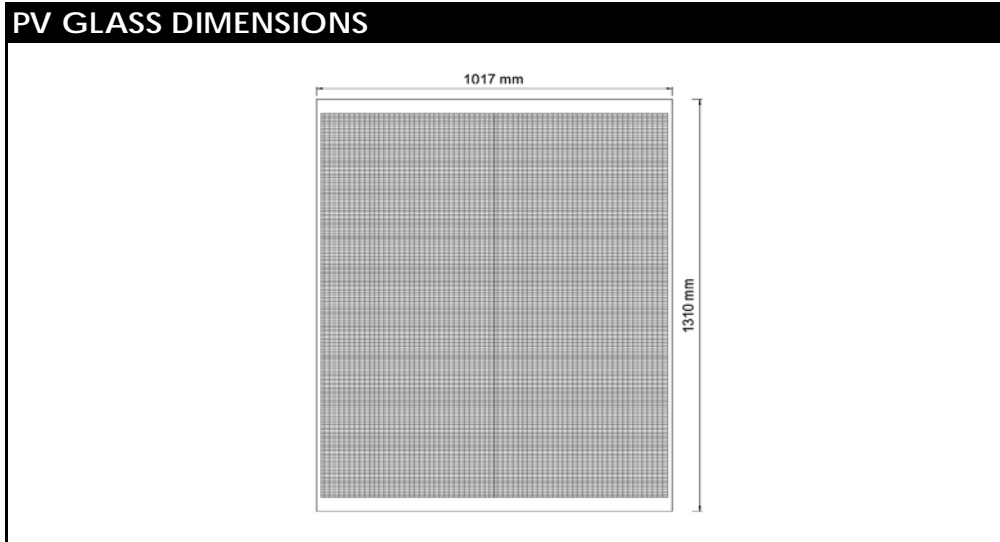
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TECHNICAL DATA - Type xSF 15/1



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	6.00%
Light Transmission	0.00%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	2,7
Peak Power [Wp/sqm]	54,8

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TECHNICAL DATA - Type xSF 16/1

PHOTOVOLTAIC GLASS		577 x 2957	
		Dark	Clear-0%
Electrical data test conditions (STC)			
Nominal peak power	98	P _{mpp} (Wp)	
Open-circuit voltage	231	V _{oc} (V)	
Short-circuit current	0,70	I _{sc} (A)	
Voltage at nominal power	158	V _{mpp} (V)	
Current at nominal power	0,62	I _{mpp} (A)	
Power tolerance not to exceed	±5	%	
STC: 1000 w/m ² , AM 1.5 and a cell temperature of 25°C, stabilized module state.			
Mechanical description			
Length	577	mm	
Width	2957	mm	
Thickness	37	mm	
Surface area	1,71	sqm	
Weight	99	Kgs	
Cell type	a-Si	Thin Film	
Transparency degree	Dark	Clear-0%	
Front Glass	6 mm	Tempered Glass	
PV Active Glass	3,2 mm	Float Glass	
Rear Glass	6 mm	Tempered Glass	
Air Chamber	10 mm	Argon Chamber	
Inner Glass	4 mm	Tempered Glass	
Inner Glass	4 mm	Tempered Glass	
Thickness encapsulation	2,28 mm	PVB Foils	
Category / Color code	Grey	Frit Pattern	
Junction Box			
Protection	IP65		
Wiring Section	2,5 mm ² or 4,0 mm ²		
Limits			
Maximum system voltage	1000	V _{sys} (V)	
Operating module temperature	-40...+85 °C		
Temperature Coefficients			
Temperature Coefficient of P _{mpp}	-0,19	% / °C	
Temperature Coefficient of V _{oc}	-0,28	% / °C	
Temperature Coefficient of I _{sc}	+0,09	% / °C	

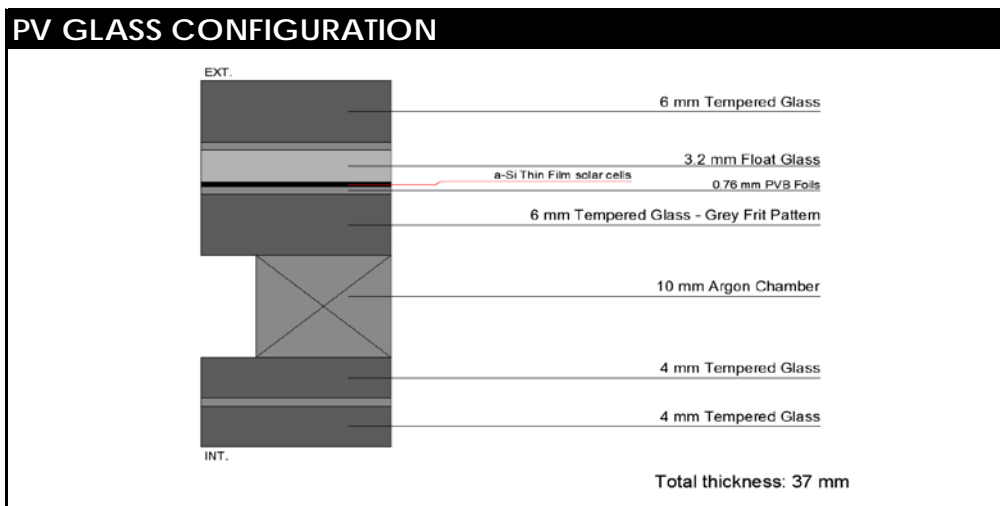
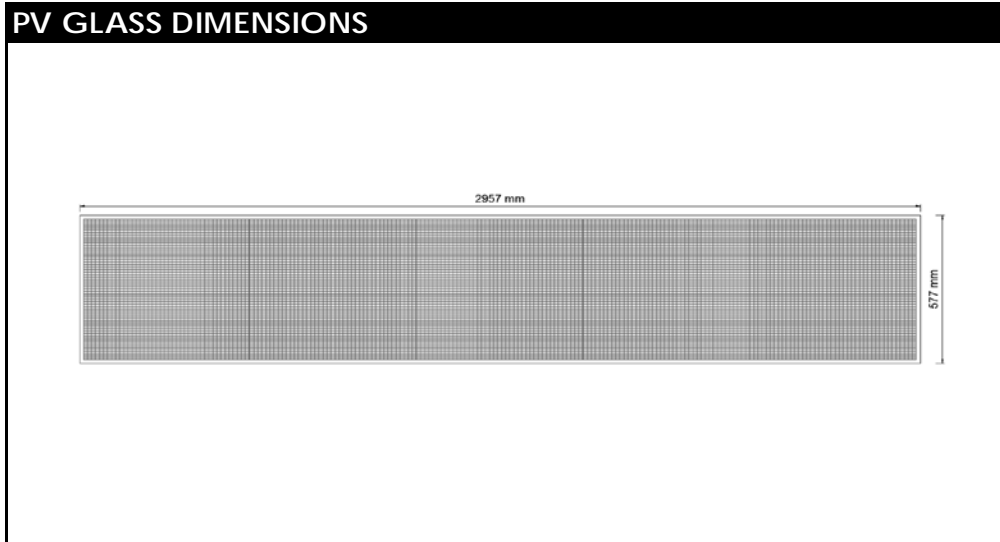
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TECHNICAL DATA - Type xSF 16/1



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	6.00%
Light Transmission	0.00%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	2,7
Peak Power [Wp/sqm]	57,6

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TECHNICAL DATA - Type xSF 17/1

PHOTOVOLTAIC GLASS		711 x 2957	
		Dark	Clear-0%
Electrical data test conditions (STC)			
Nominal peak power	121	P _{mpp} (Wp)	
Open-circuit voltage	231	V _{oc} (V)	
Short-circuit current	0,86	I _{sc} (A)	
Voltage at nominal power	158	V _{mpp} (V)	
Current at nominal power	0,77	I _{mpp} (A)	
Power tolerance not to exceed	±5	%	
STC: 1000 w/m ² , AM 1.5 and a cell temperature of 25°C, stabilized module state.			
Mechanical description			
Length	711	mm	
Width	2957	mm	
Thickness	37	mm	
Surface area	2,10	sqm	
Weight	122	Kgs	
Cell type	a-Si	Thin Film	
Transparency degree	Dark	Clear-0%	
Front Glass	6 mm	Tempered Glass	
PV Active Glass	3,2 mm	Float Glass	
Rear Glass	6 mm	Tempered Glass	
Air Chamber	10 mm	Argon Chamber	
Inner Glass	4 mm	Tempered Glass	
Inner Glass	4 mm	Tempered Glass	
Thickness encapsulation	2,28 mm	PVB Foils	
Category / Color code	Grey	Frit Pattern	
Junction Box			
Protection	IP65		
Wiring Section	2,5 mm ² or 4,0 mm ²		
Limits			
Maximum system voltage	1000	V _{sys} (V)	
Operating module temperature	-40...+85 °C		
Temperature Coefficients			
Temperature Coefficient of P _{mpp}	-0,19	% / °C	
Temperature Coefficient of V _{oc}	-0,28	% / °C	
Temperature Coefficient of I _{sc}	+0,09	% / °C	

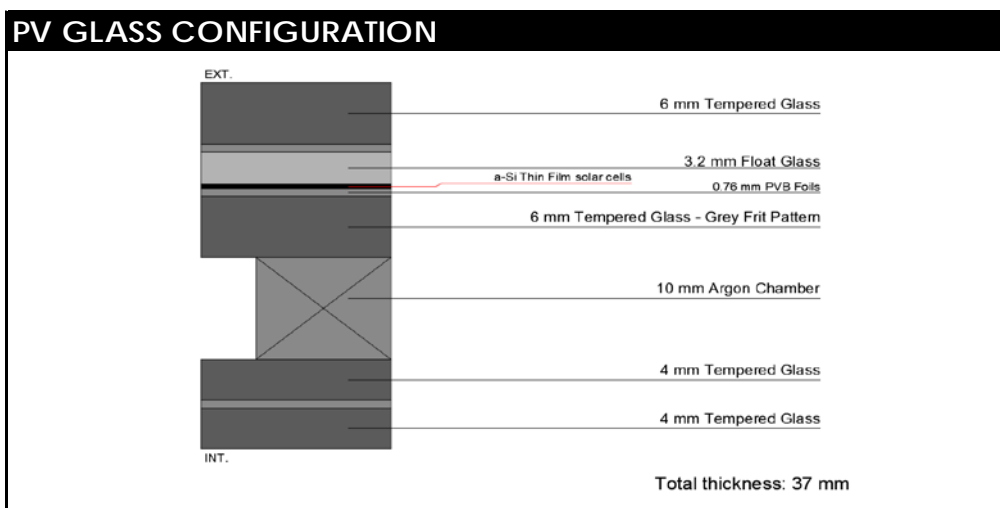
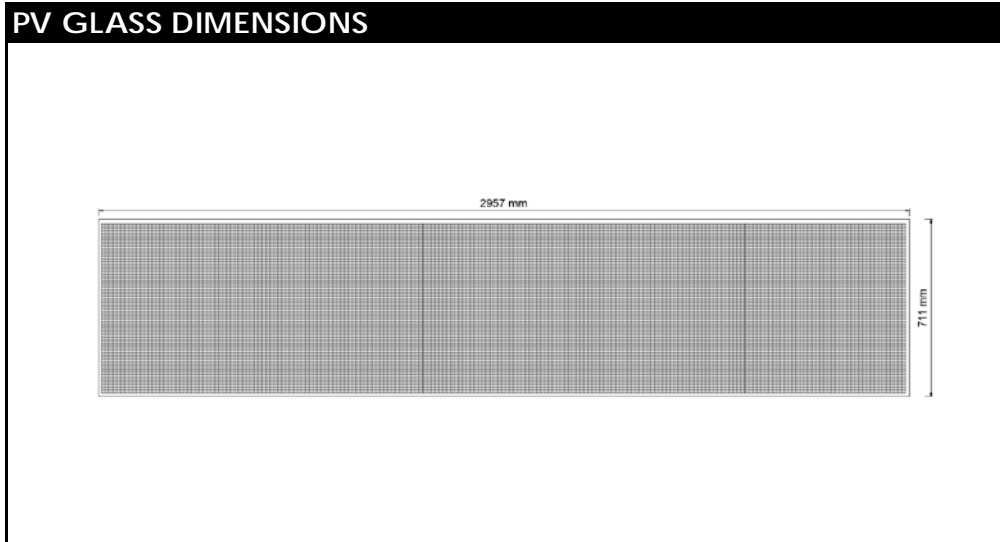
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TECHNICAL DATA - Type xSF 17/1



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	6.00%
Light Transmission	0.00%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	2,7
Peak Power [Wp/sqm]	57,6

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TECHNICAL DATA - Type xSF 18/1

PHOTOVOLTAIC GLASS		723 x 2957	
		Dark	Clear-0%
Electrical data test conditions (STC)			
Nominal peak power	123	P _{mpp} (Wp)	
Open-circuit voltage	231	V _{oc} (V)	
Short-circuit current	0,87	I _{sc} (A)	
Voltage at nominal power	158	V _{mpp} (V)	
Current at nominal power	0,78	I _{mpp} (A)	
Power tolerance not to exceed	±5	%	
STC: 1000 w/m ² , AM 1.5 and a cell temperature of 25°C, stabilized module state.			
Mechanical description			
Length	723	mm	
Width	2957	mm	
Thickness	37	mm	
Surface area	2,14	sqm	
Weight	124	Kgs	
Cell type	a-Si	Thin Film	
Transparency degree	Dark	Clear-0%	
Front Glass	6 mm	Tempered Glass	
PV Active Glass	3,2 mm	Float Glass	
Rear Glass	6 mm	Tempered Glass	
Air Chamber	10 mm	Argon Chamber	
Inner Glass	4 mm	Tempered Glass	
Inner Glass	4 mm	Tempered Glass	
Thickness encapsulation	2,28 mm	PVB Foils	
Category / Color code	Grey	Frit Pattern	
Junction Box			
Protection	IP65		
Wiring Section	2,5 mm ² or 4,0 mm ²		
Limits			
Maximum system voltage	1000	V _{sys} (V)	
Operating module temperature	-40...+85 °C		
Temperature Coefficients			
Temperature Coefficient of Pmpp	-0,19	% / °C	
Temperature Coefficient of Voc	-0,28	% / °C	
Temperature Coefficient of Isc	+0,09	% / °C	

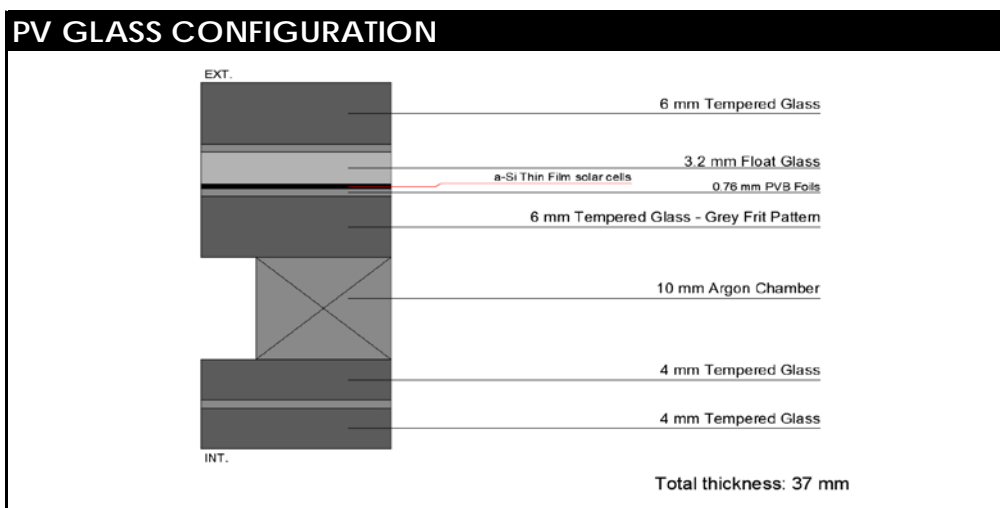
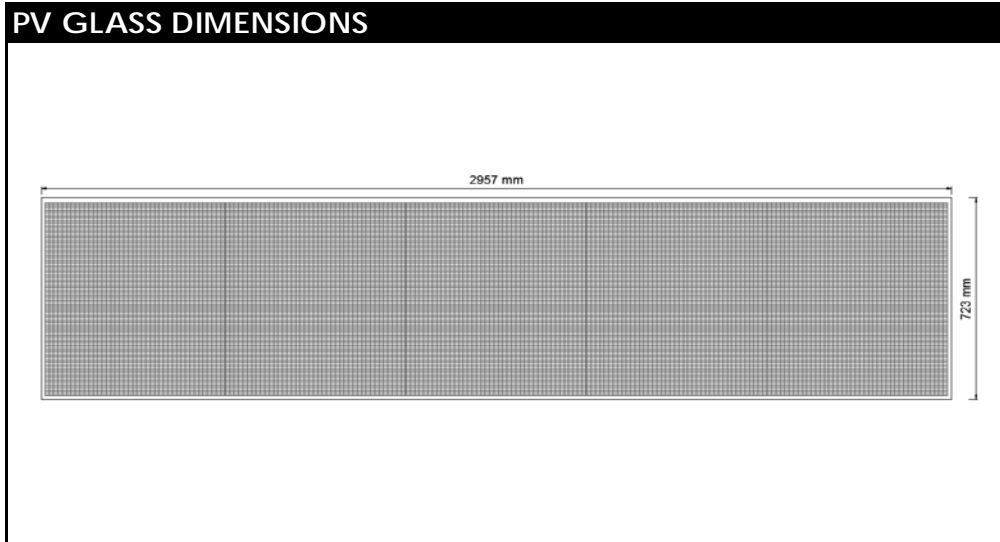
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TECHNICAL DATA - Type xSF 18/1



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	6.00%
Light Transmission	0.00%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	2,7
Peak Power [Wp/sqm]	57,6

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TECHNICAL DATA - Type xSF 19/1

PHOTOVOLTAIC GLASS		1164 x 2957	
		Dark	Clear-0%
Electrical data test conditions (STC)			
Nominal peak power	198	P _{mpp} (Wp)	
Open-circuit voltage	231	V _{oc} (V)	
Short-circuit current	1,40	I _{sc} (A)	
Voltage at nominal power	158	V _{mpp} (V)	
Current at nominal power	1,25	I _{mpp} (A)	
Power tolerance not to exceed	±5	%	
STC: 1000 w/m ² , AM 1.5 and a cell temperature of 25°C, stabilized module state.			
Mechanical description			
Length	1164	mm	
Width	2957	mm	
Thickness	37	mm	
Surface area	3,44	sqm	
Weight	200	Kgs	
Cell type	a-Si	Thin Film	
Transparency degree	Dark	Clear-0%	
Front Glass	6 mm	Tempered Glass	
PV Active Glass	3,2 mm	Float Glass	
Rear Glass	6 mm	Tempered Glass	
Air Chamber	10 mm	Argon Chamber	
Inner Glass	4 mm	Tempered Glass	
Inner Glass	4 mm	Tempered Glass	
Thickness encapsulation	2,28 mm	PVB Foils	
Category / Color code	Grey	Frit Pattern	
Junction Box			
Protection	IP65		
Wiring Section	2,5 mm ² or 4,0 mm ²		
Limits			
Maximum system voltage	1000	V _{sys} (V)	
Operating module temperature	-40...+85 °C		
Temperature Coefficients			
Temperature Coefficient of P _{mpp}	-0,19	% / °C	
Temperature Coefficient of V _{oc}	-0,28	% / °C	
Temperature Coefficient of I _{sc}	+0,09	% / °C	

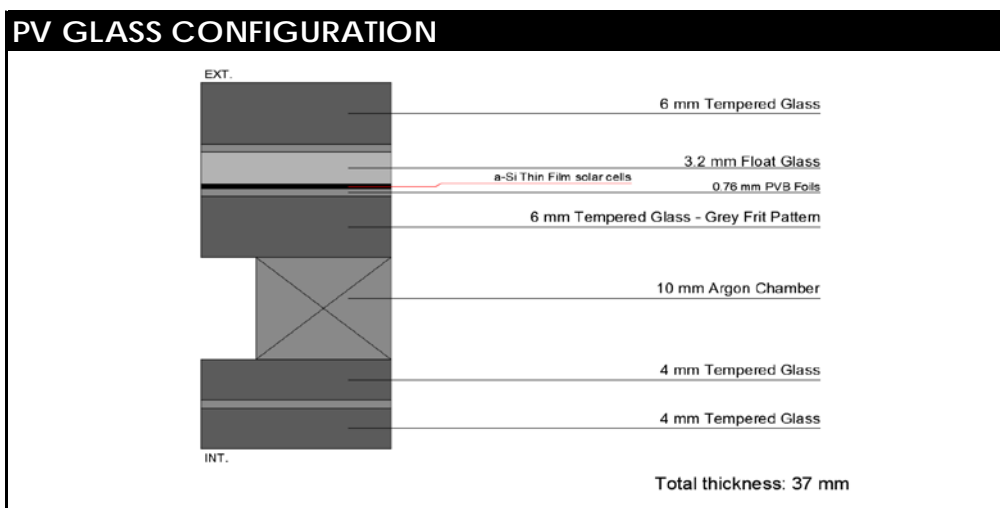
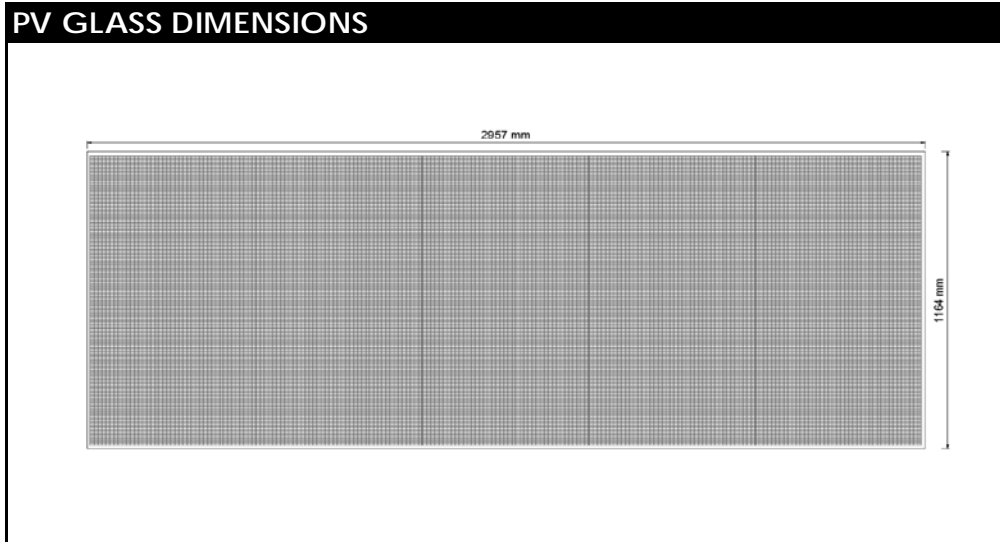
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TECHNICAL DATA - Type xSF 19/1



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	6.00%
Light Transmission	0.00%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	2,7
Peak Power [Wp/sqm]	57,6

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TECHNICAL DATA - Type xSF 20/1

PHOTOVOLTAIC GLASS		1298 x 2957
		Dark Clear-0%
Electrical data test conditions (STC)		
Nominal peak power	212	P _{mpp} (Wp)
Open-circuit voltage	231	V _{oc} (V)
Short-circuit current	1,50	I _{sc} (A)
Voltage at nominal power	158	V _{mpp} (V)
Current at nominal power	1,34	I _{mpp} (A)
Power tolerance not to exceed	±5	%
STC: 1000 w/m ² , AM 1.5 and a cell temperature of 25°C, stabilized module state.		
Mechanical description		
Length	1298	mm
Width	2957	mm
Thickness	37	mm
Surface area	3,84	sqm
Weight	223	Kgs
Cell type	a-Si	Thin Film
Transparency degree	Dark	Clear-0%
Front Glass	6 mm	Tempered Glass
PV Active Glass	3,2 mm	Float Glass
Rear Glass	6 mm	Tempered Glass
Air Chamber	10 mm	Argon Chamber
Inner Glass	4 mm	Tempered Glass
Inner Glass	4 mm	Tempered Glass
Thickness encapsulation	2,28 mm	PVB Foils
Category / Color code	Grey	Frit Pattern
Junction Box		
Protection	IP65	
Wiring Section	2,5 mm ² or 4,0 mm ²	
Limits		
Maximum system voltage	1000	V _{sys} (V)
Operating module temperature	-40...+85 °C	
Temperature Coefficients		
Temperature Coefficient of P _{mpp}	-0,19	%/°C
Temperature Coefficient of V _{oc}	-0,28	%/°C
Temperature Coefficient of I _{sc}	+0,09	%/°C

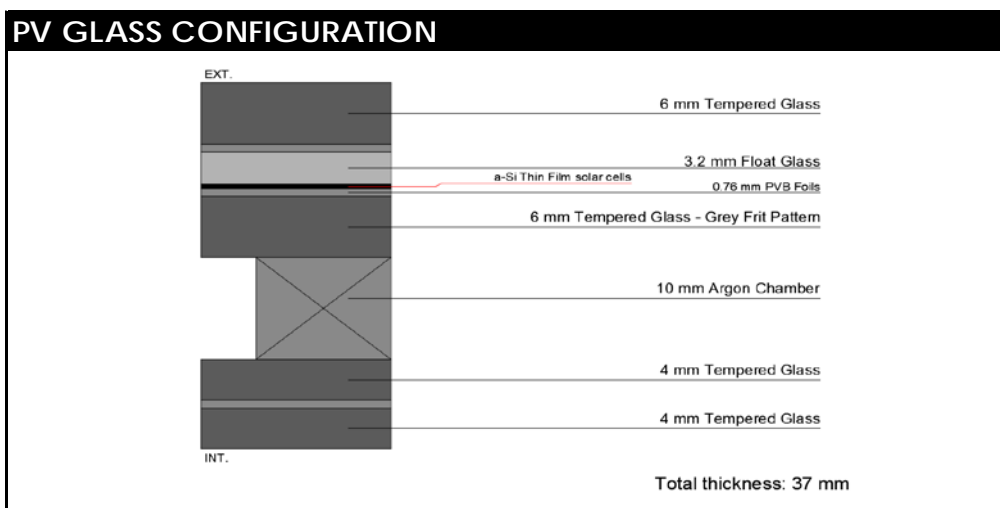
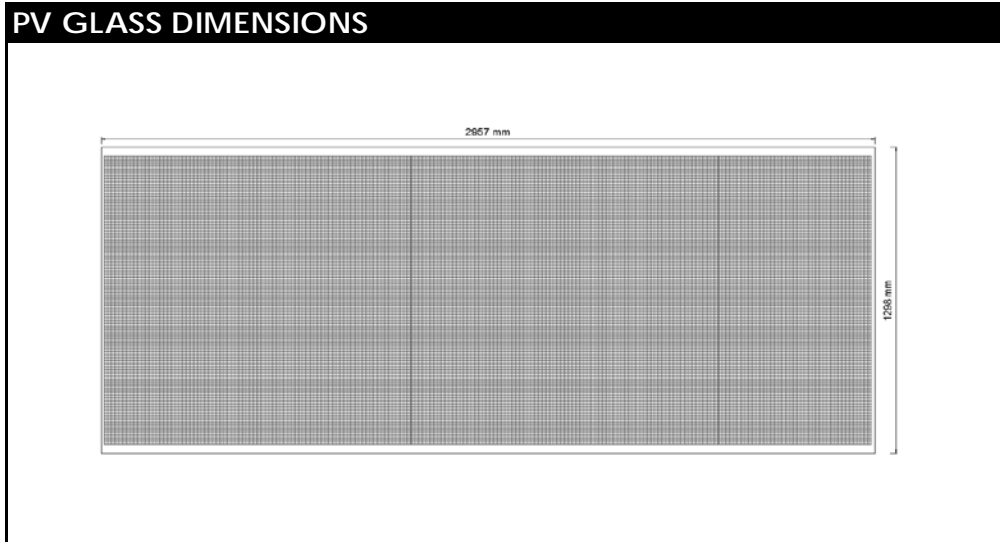
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TECHNICAL DATA - Type xSF 20/1



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	6.00%
Light Transmission	0.00%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	2,7
Peak Power [Wp/sqm]	55,3

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TECHNICAL DATA - Type xSF 21/1

PHOTOVOLTAIC GLASS		1310 x 2957	
		Dark	Clear-0%
Electrical data test conditions (STC)			
Nominal peak power	212	P _{mpp} (Wp)	
Open-circuit voltage	231	V _{oc} (V)	
Short-circuit current	1,50	I _{sc} (A)	
Voltage at nominal power	158	V _{mpp} (V)	
Current at nominal power	1,34	I _{mpp} (A)	
Power tolerance not to exceed	±5	%	
STC: 1000 w/m ² , AM 1.5 and a cell temperature of 25°C, stabilized module state.			
Mechanical description			
Length	1310	mm	
Width	2957	mm	
Thickness	37	mm	
Surface area	3,87	sqm	
Weight	225	Kgs	
Cell type	a-Si	Thin Film	
Transparency degree	Dark	Clear-0%	
Front Glass	6 mm	Tempered Glass	
PV Active Glass	3,2 mm	Float Glass	
Rear Glass	6 mm	Tempered Glass	
Air Chamber	10 mm	Argon Chamber	
Inner Glass	4 mm	Tempered Glass	
Inner Glass	4 mm	Tempered Glass	
Thickness encapsulation	2,28 mm	PVB Foils	
Category / Color code	Grey	Frit Pattern	
Junction Box			
Protection	IP65		
Wiring Section	2,5 mm ² or 4,0 mm ²		
Limits			
Maximum system voltage	1000	V _{sys} (V)	
Operating module temperature	-40...+85 °C		
Temperature Coefficients			
Temperature Coefficient of P _{mpp}	-0,19	% / °C	
Temperature Coefficient of V _{oc}	-0,28	% / °C	
Temperature Coefficient of I _{sc}	+0,09	% / °C	

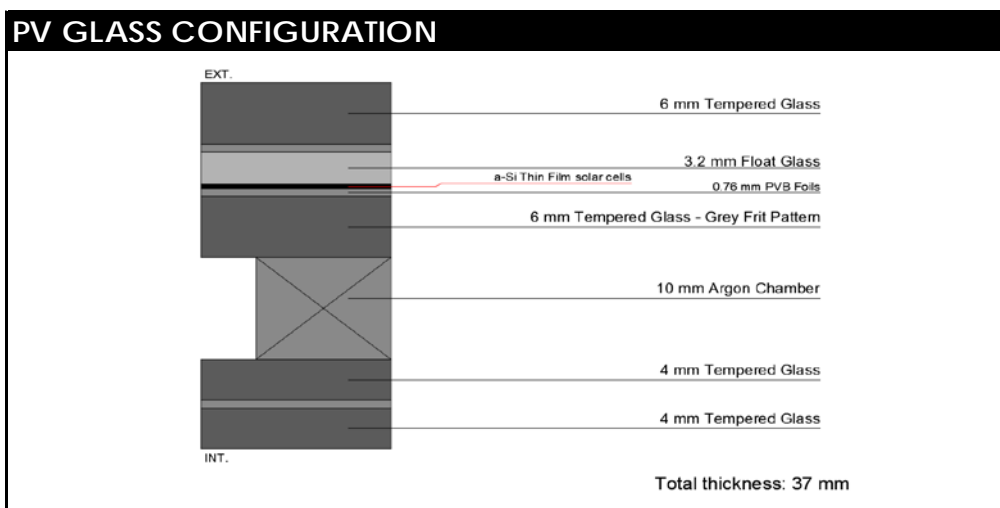
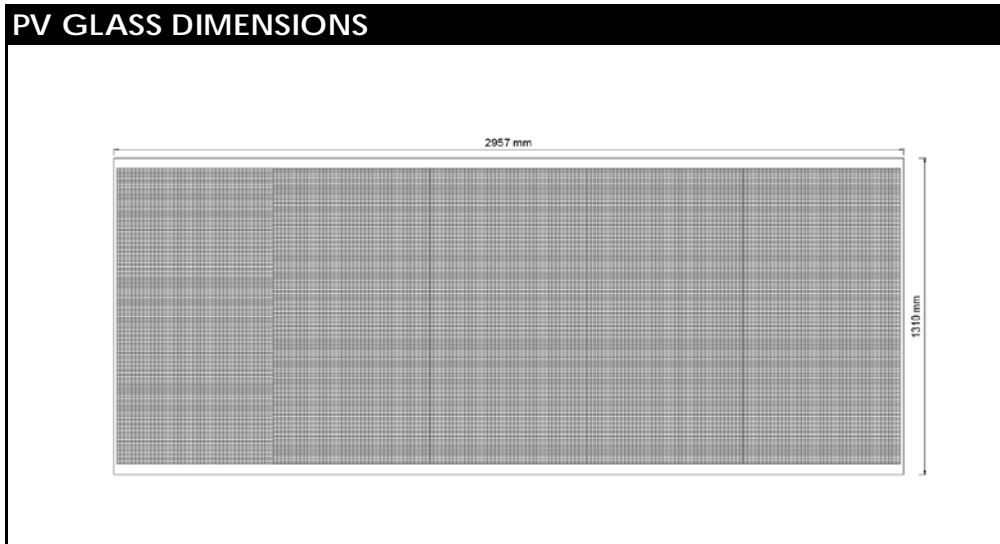
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TECHNICAL DATA - Type xSF 21/1



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	6.00%
Light Transmission	0.00%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	2,7
Peak Power [Wp/sqm]	54,8

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TECHNICAL DATA - Type xSF 22/1

PHOTOVOLTAIC GLASS		577 x 2731	
		Dark	Clear-0%
Electrical data test conditions (STC)			
Nominal peak power	91	P _{mpp} (Wp)	
Open-circuit voltage	213	V _{oc} (V)	
Short-circuit current	0,70	I _{sc} (A)	
Voltage at nominal power	146	V _{mpp} (V)	
Current at nominal power	0,62	I _{mpp} (A)	
Power tolerance not to exceed	±5	%	
STC: 1000 w/m ² , AM 1.5 and a cell temperature of 25°C, stabilized module state.			
Mechanical description			
Length	577	mm	
Width	2731	mm	
Thickness	37	mm	
Surface area	1,58	sqm	
Weight	91	Kgs	
Cell type	a-Si	Thin Film	
Transparency degree	Dark	Clear-0%	
Front Glass	6 mm	Tempered Glass	
PV Active Glass	3,2 mm	Float Glass	
Rear Glass	6 mm	Tempered Glass	
Air Chamber	10 mm	Argon Chamber	
Inner Glass	4 mm	Tempered Glass	
Inner Glass	4 mm	Tempered Glass	
Thickness encapsulation	2,28 mm	PVB Foils	
Category / Color code	Grey	Frit Pattern	
Junction Box			
Protection	IP65		
Wiring Section	2,5 mm ² or 4,0 mm ²		
Limits			
Maximum system voltage	1000	V _{sys} (V)	
Operating module temperature	-40...+85 °C		
Temperature Coefficients			
Temperature Coefficient of P _{mpp}	-0,19	% / °C	
Temperature Coefficient of V _{oc}	-0,28	% / °C	
Temperature Coefficient of I _{sc}	+0,09	% / °C	

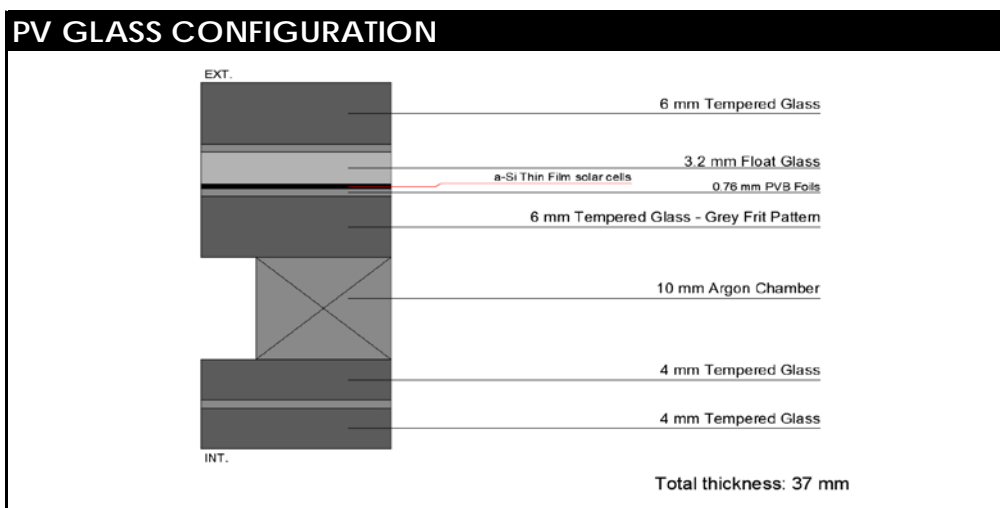
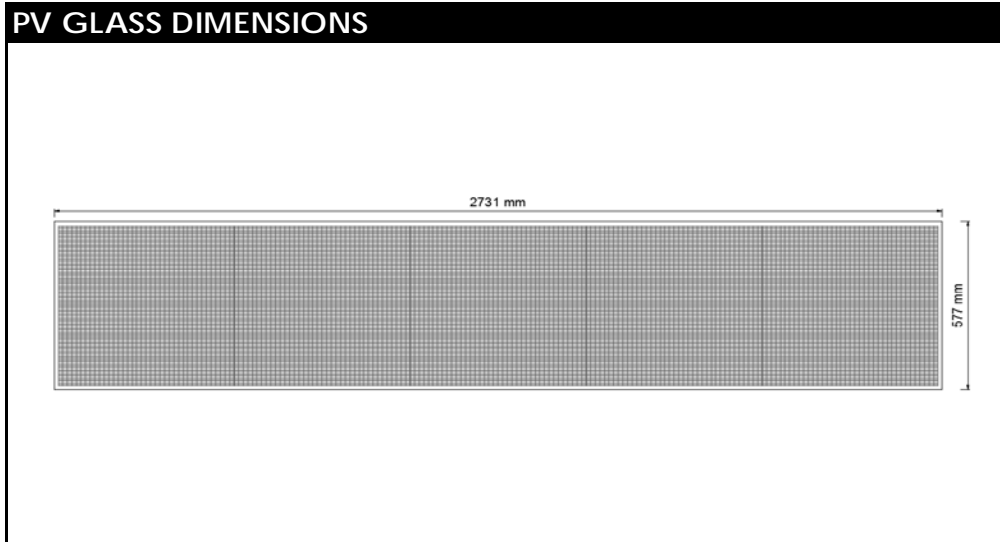
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TECHNICAL DATA - Type xSF 22/1



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	6.00%
Light Transmission	0.00%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	2,7
Peak Power [Wp/sqm]	57,6

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TECHNICAL DATA - Type xSF 23/1

PHOTOVOLTAIC GLASS		723 x 2731	
		Dark	Clear-0%
Electrical data test conditions (STC)			
Nominal peak power	114	P _{mpp} (Wp)	
Open-circuit voltage	213	V _{oc} (V)	
Short-circuit current	0,87	I _{sc} (A)	
Voltage at nominal power	146	V _{mpp} (V)	
Current at nominal power	0,78	I _{mpp} (A)	
Power tolerance not to exceed	±5	%	
STC: 1000 w/m ² , AM 1.5 and a cell temperature of 25°C, stabilized module state.			
Mechanical description			
Length	723	mm	
Width	2731	mm	
Thickness	37	mm	
Surface area	1,97	sqm	
Weight	115	Kgs	
Cell type	a-Si	Thin Film	
Transparency degree	Dark	Clear-0%	
Front Glass	6 mm	Tempered Glass	
PV Active Glass	3,2 mm	Float Glass	
Rear Glass	6 mm	Tempered Glass	
Air Chamber	10 mm	Argon Chamber	
Inner Glass	4 mm	Tempered Glass	
Inner Glass	4 mm	Tempered Glass	
Thickness encapsulation	2,28 mm	PVB Foils	
Category / Color code	Grey	Frit Pattern	
Junction Box			
Protection	IP65		
Wiring Section	2,5 mm ² or 4,0 mm ²		
Limits			
Maximum system voltage	1000	V _{sys} (V)	
Operating module temperature	-40...+85 °C		
Temperature Coefficients			
Temperature Coefficient of Pmpp	-0,19	% / °C	
Temperature Coefficient of Voc	-0,28	% / °C	
Temperature Coefficient of Isc	+0,09	% / °C	

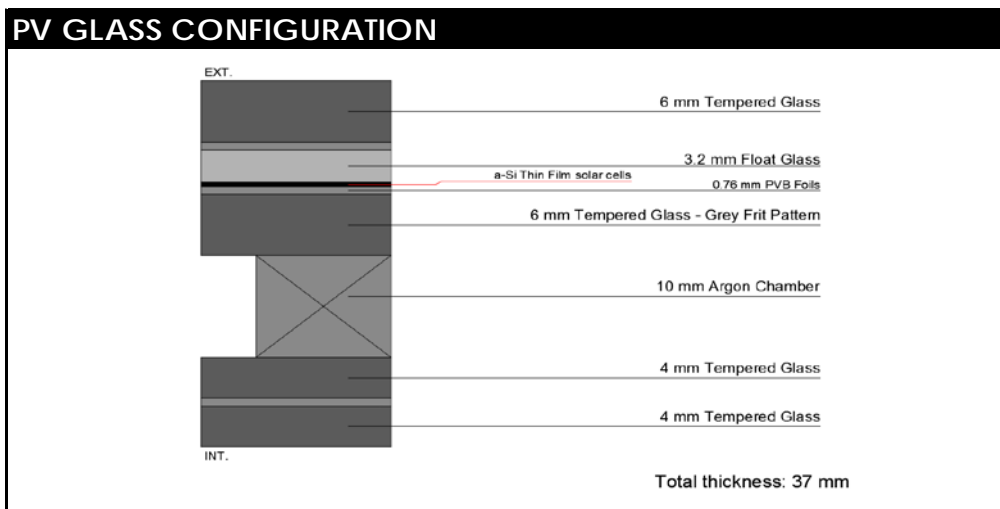
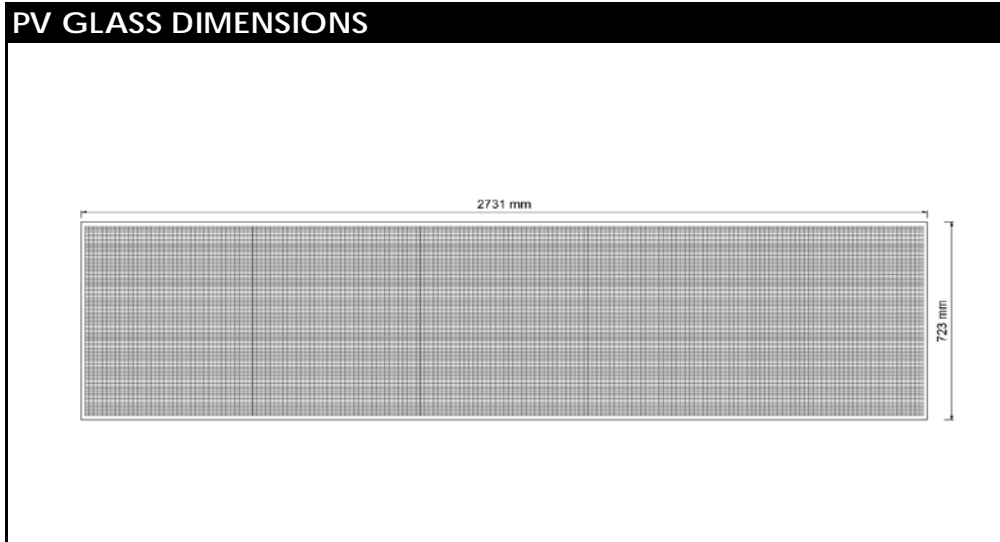
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TECHNICAL DATA - Type xSF 23/1



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	6.00%
Light Transmission	0.00%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	2,7
Peak Power [Wp/sqm]	57,6

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TECHNICAL DATA - Type xSF 24/1

PHOTOVOLTAIC GLASS		757 x 2731	
		Dark	Clear-0%
Electrical data test conditions (STC)			
Nominal peak power	119	P _{mpp} (Wp)	
Open-circuit voltage	213	V _{oc} (V)	
Short-circuit current	0,91	I _{sc} (A)	
Voltage at nominal power	146	V _{mpp} (V)	
Current at nominal power	0,81	I _{mpp} (A)	
Power tolerance not to exceed	±5	%	
STC: 1000 w/m ² , AM 1.5 and a cell temperature of 25°C, stabilized module state.			
Mechanical description			
Length	757	mm	
Width	2731	mm	
Thickness	37	mm	
Surface area	2,07	sqm	
Weight	120	Kgs	
Cell type	a-Si	Thin Film	
Transparency degree	Dark	Clear-0%	
Front Glass	6 mm	Tempered Glass	
PV Active Glass	3,2 mm	Float Glass	
Rear Glass	6 mm	Tempered Glass	
Air Chamber	10 mm	Argon Chamber	
Inner Glass	4 mm	Tempered Glass	
Inner Glass	4 mm	Tempered Glass	
Thickness encapsulation	2,28 mm	PVB Foils	
Category / Color code	Grey	Frit Pattern	
Junction Box			
Protection	IP65		
Wiring Section	2,5 mm ² or 4,0 mm ²		
Limits			
Maximum system voltage	1000	V _{sys} (V)	
Operating module temperature	-40...+85 °C		
Temperature Coefficients			
Temperature Coefficient of P _{mpp}	-0,19	% / °C	
Temperature Coefficient of V _{oc}	-0,28	% / °C	
Temperature Coefficient of I _{sc}	+0,09	% / °C	

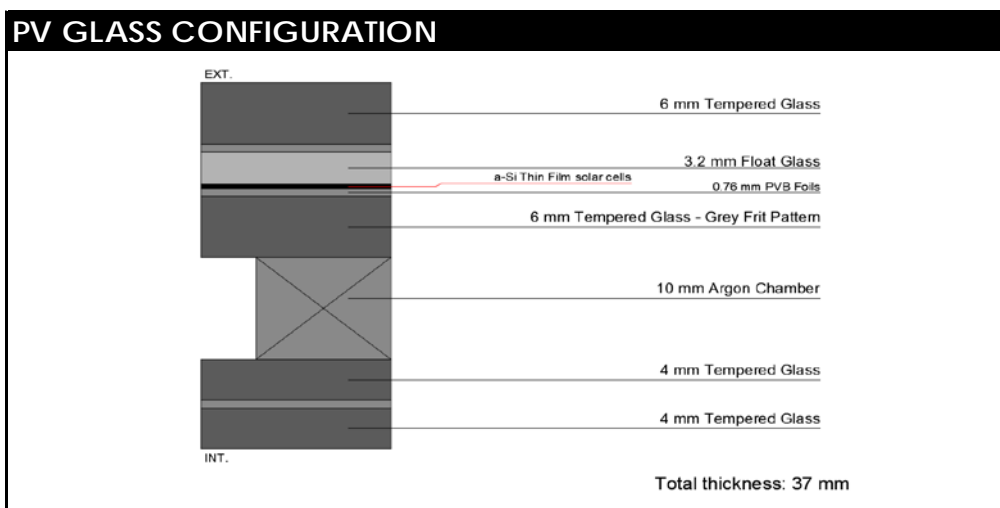
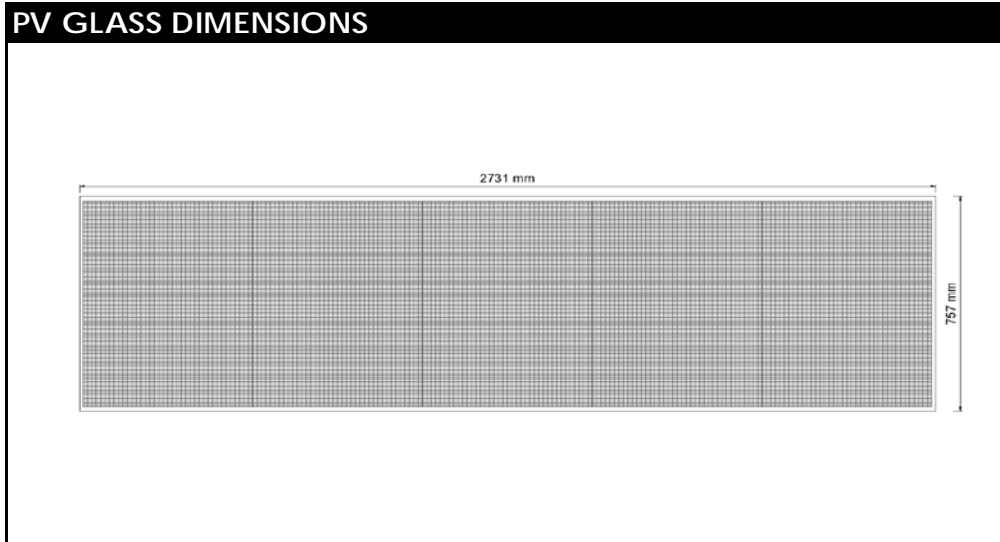
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TECHNICAL DATA - Type xSF 24/1



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	6.00%
Light Transmission	0.00%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	2,7
Peak Power [Wp/sqm]	57,6

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TECHNICAL DATA - Type xSF 25/1

PHOTOVOLTAIC GLASS		1164 x 2731	
		Dark	Clear-0%
Electrical data test conditions (STC)			
Nominal peak power	183	P _{mpp} (Wp)	
Open-circuit voltage	213	V _{oc} (V)	
Short-circuit current	1,40	I _{sc} (A)	
Voltage at nominal power	146	V _{mpp} (V)	
Current at nominal power	1,25	I _{mpp} (A)	
Power tolerance not to exceed	±5	%	
STC: 1000 w/m ² , AM 1.5 and a cell temperature of 25°C, stabilized module state.			
Mechanical description			
Length	1164	mm	
Width	2731	mm	
Thickness	37	mm	
Surface area	3,18	sqm	
Weight	184	Kgs	
Cell type	a-Si	Thin Film	
Transparency degree	Dark	Clear-0%	
Front Glass	6 mm	Tempered Glass	
PV Active Glass	3,2 mm	Float Glass	
Rear Glass	6 mm	Tempered Glass	
Air Chamber	10 mm	Argon Chamber	
Inner Glass	4 mm	Tempered Glass	
Inner Glass	4 mm	Tempered Glass	
Thickness encapsulation	2,28 mm	PVB Foils	
Category / Color code	Grey	Frit Pattern	
Junction Box			
Protection	IP65		
Wiring Section	2,5 mm ² or 4,0 mm ²		
Limits			
Maximum system voltage	1000	V _{sys} (V)	
Operating module temperature	-40...+85 °C		
Temperature Coefficients			
Temperature Coefficient of P _{mpp}	-0,19	% / °C	
Temperature Coefficient of V _{oc}	-0,28	% / °C	
Temperature Coefficient of I _{sc}	+0,09	% / °C	

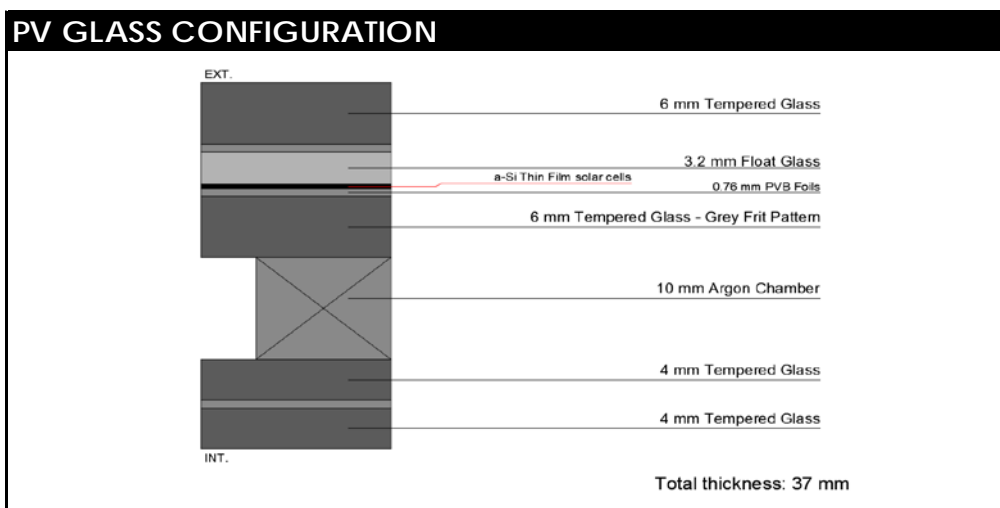
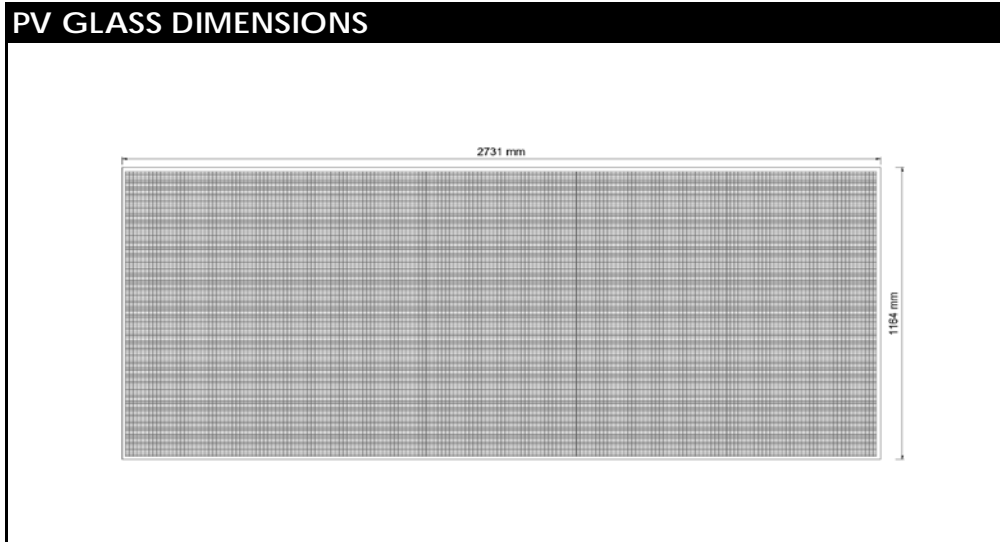
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TECHNICAL DATA - Type xSF 25/1



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	6.00%
Light Transmission	0.00%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	2,7
Peak Power [Wp/sqm]	57,6

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TECHNICAL DATA - Type xSF 26/1

PHOTOVOLTAIC GLASS		1310 x 2731	
		Dark	Clear-0%
Electrical data test conditions (STC)			
Nominal peak power	196	P _{mpp} (Wp)	
Open-circuit voltage	213	V _{oc} (V)	
Short-circuit current	1,50	I _{sc} (A)	
Voltage at nominal power	146	V _{mpp} (V)	
Current at nominal power	1,34	I _{mpp} (A)	
Power tolerance not to exceed	±5	%	
STC: 1000 w/m ² , AM 1.5 and a cell temperature of 25°C, stabilized module state.			
Mechanical description			
Length	1310	mm	
Width	2731	mm	
Thickness	37	mm	
Surface area	3,58	sqm	
Weight	208	Kgs	
Cell type	a-Si	Thin Film	
Transparency degree	Dark	Clear-0%	
Front Glass	6 mm	Tempered Glass	
PV Active Glass	3,2 mm	Float Glass	
Rear Glass	6 mm	Tempered Glass	
Air Chamber	10 mm	Argon Chamber	
Inner Glass	4 mm	Tempered Glass	
Inner Glass	4 mm	Tempered Glass	
Thickness encapsulation	2,28 mm	PVB Foils	
Category / Color code	Grey	Frit Pattern	
Junction Box			
Protection	IP65		
Wiring Section	2,5 mm ² or 4,0 mm ²		
Limits			
Maximum system voltage	1000	V _{sys} (V)	
Operating module temperature	-40...+85 °C		
Temperature Coefficients			
Temperature Coefficient of P _{mpp}	-0,19	% / °C	
Temperature Coefficient of V _{oc}	-0,28	% / °C	
Temperature Coefficient of I _{sc}	+0,09	% / °C	

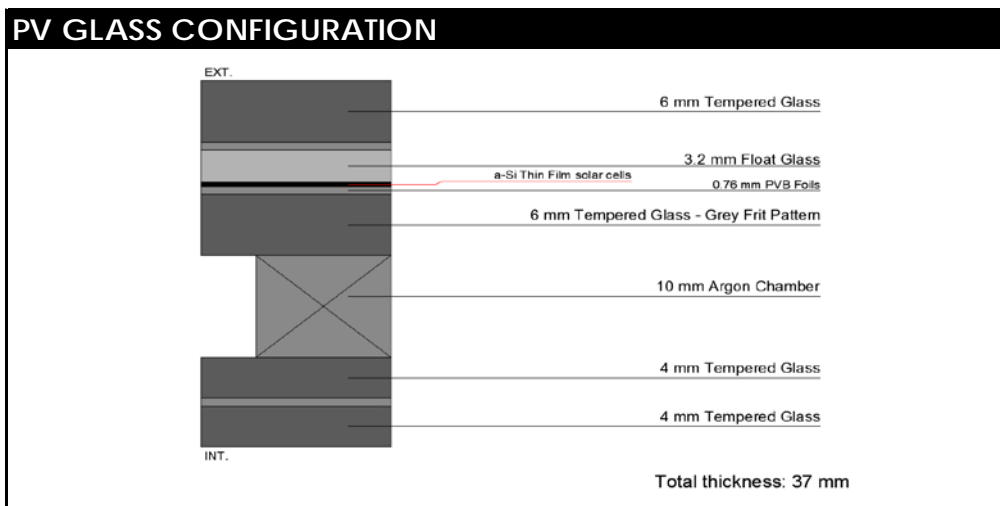
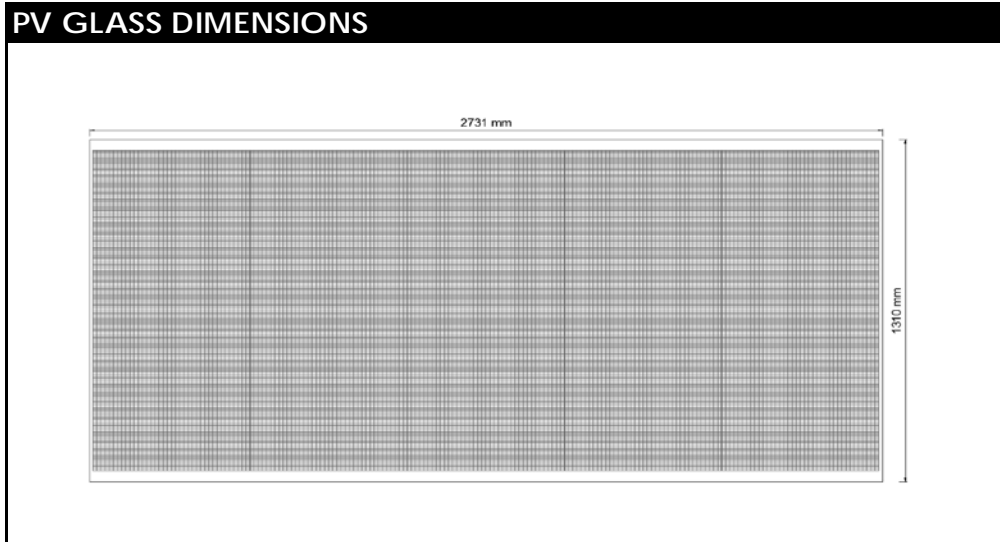
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TECHNICAL DATA - Type xSF 26/1



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	6.00%
Light Transmission	0.00%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	2,7
Peak Power [Wp/sqm]	54,8

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