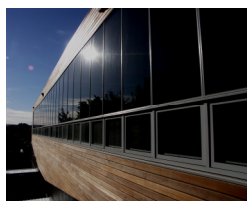


ASI® glass modules for glass roofs or building façades



ASI® Glass – solar electricity and glass

The ASI® Glass is an ideal product for the special requirements of applications integral to the building: semi – transparent thin film modules with a fine line structure where the amorphous solar cells are integrated in top quality laminated or insulated glass units. The frameless glass laminates and insulated glazed elements are designed to be compatible with most conventional glazing systems for facades and skylights.

ASI® Glass elements are designed on the basis of SCHOTT Solar's ASI® thin-film technology as silicon tandem cells on glass substrate. ASI® Glass elements demonstrably produce maximum energy yields

ASI® Glass - the key to sustainability and passive design:

Whether a façade or a roof, today's building envelope has to fulfill multiple purposes. Alongside its conventional roles of providing privacy and protection from rain and noise, additional factors are becoming increasingly important, such as thermal insulation and shading. All of these tasks have to be performed by the shell of a building. Today, building integrated photovoltaic systems are able to provide all of these functions plus solar electricity.

All the benefits of glass plus energy from the sun:

- Solar Electricity = 43Wp/sqm output (ASI THRU®), 53Wp/sqm output (ASI OPAK®)
- Light Management = light transmission 10%
- Effective shading = comfort
- Glare protection and heat reduction = SHGC of 0.1
- Thermal Management = U Value of 1.1
- Innovative architecture = 4 colour options in non transparent version of ASI®
- Cost savings by combining and integrating several functions

ASI® Glass Data:

The following table provides the list of standard sizes available

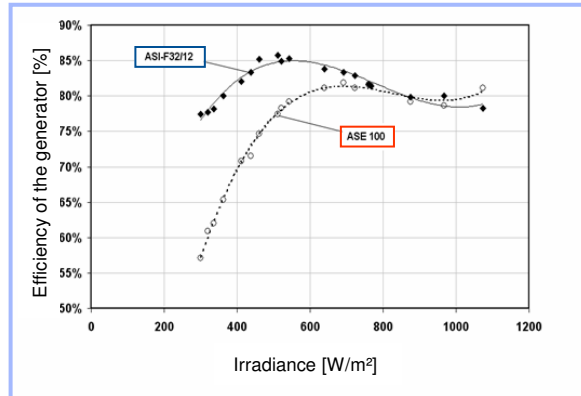
Article			Height	Width	Thickness	Size in sqm	Weight in kg	Wp output	Wp output/sqm	Voltage
ASI® OPAK	1	L	1028	629	17MM	0.65	28	29	45	68
ASI® THRU	1	L	1028	629	17MM	0.65	28	25	39	68
ASI® THRU	1	IO	1020	626	34MM	0.64	30	25	39	72
ASI® OPAK	2	L	1028	1205	17MM	1.24	53	58	47	68
ASI® THRU	2	L	1028	1205	17MM	1.24	53	50	40	68
ASI® THRU	2	IO	1020	1203	34MM	1.23	57	50	41	72
ASI® OPAK	3	L	1028	1782	17MM	1.83	79	87	47	68
ASI® THRU	3	L	1028	1782	17MM	1.83	79	75	41	68
ASI® THRU	3	IO	1020	1780	34MM	1.83	83	75	41	72
ASI® OPAK	4	L	1028	2358	17MM	2.42	105	116	48	68
ASI® THRU	4	L	1028	2358	17MM	2.42	105	100	41	68
ASI® THRU	4	IO	1020	2356	34MM	2.40	110	100	42	72
ASI® OPAK	4	xL	1205	2005	17MM	2.84	104	114	40	68
ASI® THRU	4	xL	1205	2005	17MM	2.84	104	96	34	68
ASI® THRU	4	xIO	1197	2003	34MM	2.40	110	96	40	72

L – Laminated IO – Insulated Glass Units x – Base plate variation Wp – Watt peak

ASI® Glass – thin film performance:

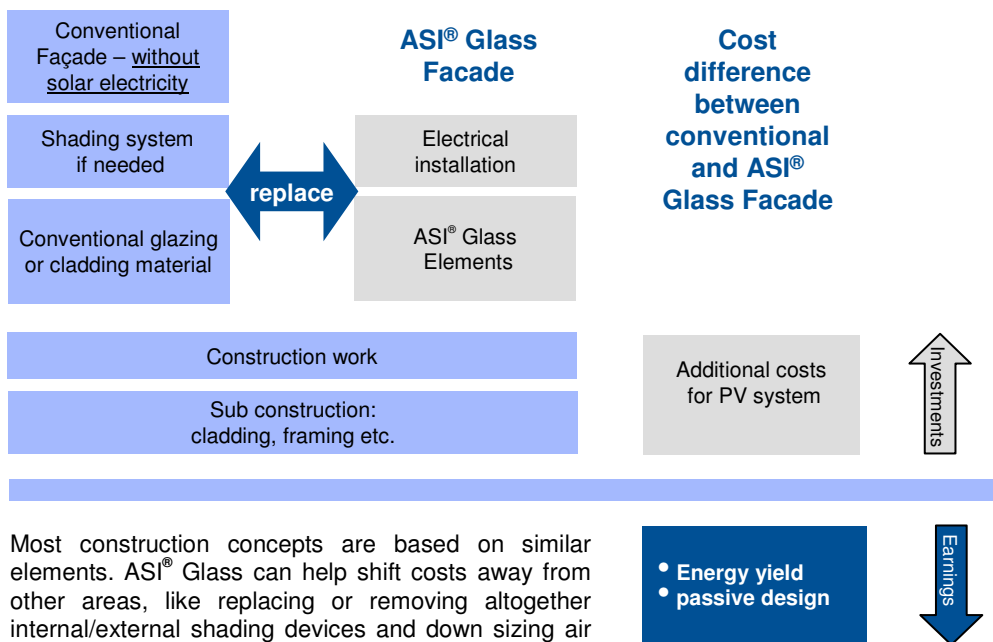
The graph shows comparison tests of SCHOTT amorphous (ASI® F 32/12) and SCHOTT Polycrystalline (ASE 100Wp) modules. The results highlight that in low light conditions, amorphous yields greater efficiency = higher yield. Low light conditions equate to early morning or late afternoon sun, cloudy conditions and situations where unavoidable shading (trees or buildings for example) will affect the area throughout the day.

- Excellent low light performance
- Low temperature coefficient
- Thus higher energy yield for building integrated systems
- Attractive price per Area
- Long service life
- Guaranteed 10 years
- Design variations



Cost savings with ASI® Glass

Comparison with conventional glazing materials



Most construction concepts are based on similar elements. ASI® Glass can help shift costs away from other areas, like replacing or removing altogether internal/external shading devices and down sizing air conditioner units.

Consider ASI® for your passive design requirements to help achieve savings from lower heating and cooling costs, as well as electricity from the sun.

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