

HAMMERGLASS INSULATE

Hammerglass Insulate is an insulated glass unit featuring Hammerglass – 300 times stronger than ordinary glass of the same thickness. Hammerglass Insulate is manufactured in both double- and triple-glazed configurations. Its low weight combined with a high protection rating creates extensive possibilities for glazing within existing systems. All window manufacturers and aluminium fabricators can supply windows and doors fitted with Hammerglass glazing

Hammerglass provides full protection against vandalism and burglary. It also offers personal protection when Hammerglass is installed as the inner pane within the insulated glass unit – for enhanced safety and security.



APPLICATIONS

Schools, public environments, industrial facilities, and other buildings where protection against vandalism or burglary is required. Also suitable for residential homes and villas.

PRODUCT DESCRIPTION

Hammerglass Insulate is manufactured in all common insulated glass configurations, most commonly with Hammerglass on the exterior side. The second and/or third pane can be freely selected from float glass, low-emissivity glass, tempered glass, laminated glass, or Hammerglass itself (for example in doors). Hammerglass Insulate features a unique surface coating as standard, providing excellent UV resistance.

Thanks to its nano-surface treatment, Hammerglass is resistant to chemicals and most acid attacks. Graffiti and dirt can be removed using solvents or graffiti removers.

Hammerglass does not contribute to the spread of fire in the event of a fire.

LASER MARKING

All Hammerglass panes are laser-marked with logo and production number. This provides a visible quality mark for customers, ensures traceability for internal quality assurance, and supports warranty and service handling.

PROTECTION RATING AND CERTIFICATIONS

Hammerglass Single is certified according to SSF 1085 up to Class 3, corresponding to resistance class P8B in accordance with EN 356

DESIGN AND PLANNING GUIDANCE

In addition to outstanding resistance against vandalism and burglary, Hammerglass Insulate also offers excellent sound reduction, low U-values, and solar control performance.

Hammerglass Insulate can be combined with all existing glazing types on the market to achieve the optimal configuration for each project.

By selecting a triple-glazed configuration, U-values can be reduced to as low as 0.66. Hammerglass can also be installed as the intermediate pane within triple-glazed insulated units.

WARRANTY

Warranty is provided in accordance with Hammerglass general terms and conditions.

INSTALLATION

Hammerglass Single must only be installed by recommended installers to ensure the highest quality standards, in accordance with MTK guidelines.

WHAT IS HAMMERGLASS?

Hammerglass is a durable and scratch-resistant polycarbonate sheet, 300 times stronger than glass. With its unique surface coating, the panes are resistant to most chemicals and acids. The coating also provides 99.96% UV protection, which prevents the material from becoming cloudy, fading, or aging over time. Hammerglass does not contribute to the spread of fire in case of a blaze.

SPACER

The insulated glass unit is supplied with a spacer bar (distance profile between the panes).

Spacer	
Width	12, 14, 16, 18, or 24 mm
Height	14 mm
Colour	Black or white
Sealing	Black or white butyl

CALCULATIONS FOR HAMMERGLASS INSULATE

Calculations are performed in accordance with EN 410 standards.

Glass Configuration with Argon	Light Transmission	Solar Energy Transmission	g-value	U-value	Protection Class
Hammerglass Insulate					
HmG06-16-FE4	0,74	0,60	0,70	1,53	P7B
HmG08-16-FE4	0,73	0,60	0,70	1,53	P8B
HmG06-14-F4-16-FE4	0,67	0,60	0,62	1,19	P7B
HmG08-12-F4-16-FE4	0,66	0,51	0,61	1,19	P8B
FE4-14-HmG06-16-FE4	0,62	0,47	0,58	0,87	P7B
HmG06-14-F4-16-SFE4	0,69	0,44	0,53	0,98	P7B
SFE4-14-HmG06-16-SFE4	0,66	0,39	0,48	0,66	P7B
HmG06-16-44.2E	0,72	0,60	0,70	1,50	P8B
Hammerglass Insulate Sunergy					
HmG06-16-SuCl6	0,61	0,46	0,67	1,86	P7B
HmG06-14-SuCl6-16-F4	0,55	0,39	0,52	1,37	P7B
Hammerglass Insulate Planibel					
PE N71/39-16-HmG06-14-SFE4	0,61	0,31	0,38/0,37	0,65	P7B

EXPLANATIONS

Solar Energy Transmission = Solar factor

HmG = Hammerglass Clear

FE = Float Energy

SFE = Soft-coated Float Energy

SuCl = Sunergy Clear

PE = Planibel Energy



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