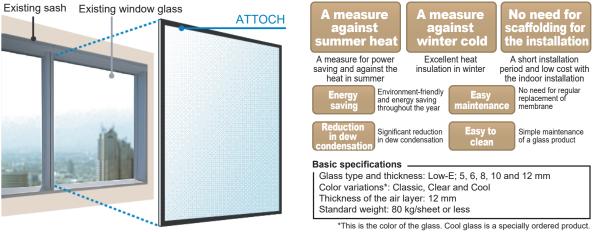
AGC Inc.

Low-E Glass Applicable to Existing Window Panes on the site

Features

"ATTOCH" is a window renovation product which enables achievement of energy-saving performance equivalent to that of the Low-E Pairglass units with attachment to existing window panes of office buildings and stores. It is effective in heat shielding and insulation, energy saving and prevention of dew condensation and realizes a comfortable indoor space.

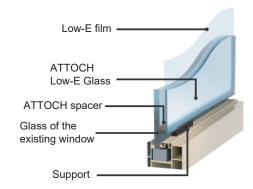
Energy conservation and improvement of the indoor environment with renovation of openings of office buildings and stores which has been considered difficult



- ATTOCH offers five-year warranty against internal condensation (condensation between the existing glass and ATTOCH glass).
- If you wish to remove ATTOCH, it can be removed with fees.
- Cannot be attached to tempered glass. May not be able to be attached to wired plate glass.

Basic Concept or Summary

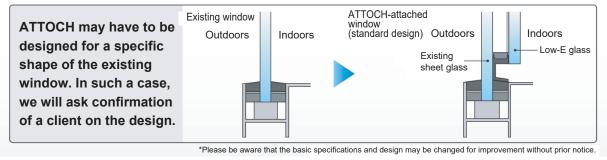
On-site conversion of existing window glass to Low-E Pairglass



What is Low-E glass?

Low-E glass is glass coated with a special Low-E film which prevents heat radiation. It passes the light but reflects far-infrared radiation from solar radiation and heating and, thus, improves indoor thermal insulation.

ATTOCH enables achievement of the performance equivalent to Low-E multiple glass by attaching a pane of Low-E glass to the existing window pane from inside.



Comparison of energy conservation performance (Air conditioning energy reduction rate)

Energy reduction ratio (in Tokyo)	6mm glass + heat shielding film (manufactured by another company)	6mm glass + insulation film (manufactured by another company)	6 mm-thick glass + 5 mm-thick ATTOCH	Specifications of a building used in the simulation Width and depth of the building: 15 m, Number of stories: six Standard floor area on each floor: 225 m², the side of the building with the largest glass area: south
Energy reduction ratio in the summer	24.4%	27.5%	32.7%	Floor height of the standard floor: 3.6 m, total glass area on the building: 432 m ²
Energy reduction ratio in the winter	▲11.2 %	▲1.5 %	32.7%	
Energy reduction ratio in a year	2.7%	9.9%	32.7%	Side of the building Front of the building

Installation in Practice or Schedule

Domestic For examples of our products and more information, please see the following website. https://www.asahiglassplaza.net/products/attoch/

AGC Inc. Architectural Glass Asia Pacific Company

Manufactured and retailed by New Markets Sales Group, AGC Glass Products Co., Ltd.

Tel: +81-3-6802-7632

URL: http://www.asahiglassplaza.net/products/attoch/

^{*} The reduction rate is based on a comparison of the 6mm glass air conditioning cost.
* In this simulation, the reduction in the air-conditioning cost at the time of the renovation with ATTOCH is estimated. This simulation is for a simple mathematic evaluation and its result does not guarantee the energy saving effect of the window renovation.

* The reduction ratios mentioned above were obtained in the simulation with Classic color ATTOCH.