



## Introduction to heatable glass

" We are leading experts in all types of glass that add function, comfort and savings.  
Our specialty is making functionality invisible."

### Company

CL Specialglas AB is a Swedish high-tech company, founded in 1994, who specialize in the development and construction of heatable glass for the construction market. With more than 30 years' experience, we are the leading company in heatable glass in the Nordic region.

CL Specialglas AB provides advanced glass constructions, technical support, electrical plans, and customer help to achieve optimal glass solutions. We have delivered more than 2,500 different glass projects within the Nordic area.

### Markets

Our main business area is the construction market. We sell our glass to window makers, facade builders and construction companies. We also provide heatable glass construction to the transport industry, including shipping, navy, trains, vehicle, and military applications.

### Product

Our main product is a heatable insulated glass unit and laminated heatable glass. We provide the insulated glass in different types of construction. The glass can be constructed in two or three insulated glass unit with different kinds of outer pane. The outer and inner pane can be laminated, sun proofed, or coated to create heatable glass panels.

The inner panes can be heated to a flexible regulation temperature of approximately 20 degrees C.

Heatable insulated glass fits in all different kinds of windows and facade systems. It also works in highly advanced structural glazing systems. The glass units are flexible in size and construction with a maximum size of 2440x6000 mm. The inner heatable pane is always tempered to a 4 mm or 6mm thickness (or laminated to achieve a higher thickness). The filling between the glasses is Argon gas. The spacer is of non-conductive material and is available in different widths. All heatable glass meets required Nordic and European standards.

Heatable glass offers more comfort and warmth than any other insulated glass, although there is no perceptible difference from other insulated glass. Heatable glass both preserves and generates heat. The coating is invisible and needs no particular care or maintenance.

### Advantages

Glass panes prevent warm air from escaping outdoors allowing for a variety of design possibilities. . No additional radiators are necessary around the glass facade/windows. The heatable glass provides an optimal inside temperature and avoids condensation on the outer pane. Energy consumption is very low. For example, when the panes are running on full power, and the outside temperature is -25 degrees Celsius, the consumption will be approximately 100 W/sqm. In normal conditions (0 to-5 degrees) the consumption is about 20-30 W/sqm.