

The logo for iqGLASS, featuring the lowercase letters 'iq' in a stylized font followed by 'GLASS' in all caps, all in white on a black rectangular background.

iqGLASS

A photograph of an indoor swimming pool with a large glass wall overlooking a snowy outdoor area. The pool is illuminated with blue lights, and the glass reflects the interior lights and the outdoor scene. The text 'Modern Glass Technology' is overlaid at the bottom in a bold, black font.

**Modern Glass Technology**

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## **Low-emissivity insulating glazing technology that emits radiant energy to heat, prevent condensation, and/or melt snow**

- perfect transparency and light transmission
- optimized energy use (minimum thermal loss, high index of insulating factor)
- physical integrity in the natural environment
- its eco-friendliness (recyclable components, reduced CO2 emissions)
- simple upkeep (no dripping, minimal dust deposit)
- reliable automated control
- no maintenance

## HEATING

- Space-saving and aesthetically pleasing, no need for radiators
- Comfort and thermal efficiency of radiant heat
- Absence of cold drafts around windows so that full internal space is used again
- Heats up very fast: heating by need – no overheating



## ANTI-CONDENSATION:

- No need for ventilation
- Cleanness and transparency of the glass
- Cost efficient
- No limit for shape of building
- Façades, ceilings, floors, stairs
- No condensation close to horizontal beams

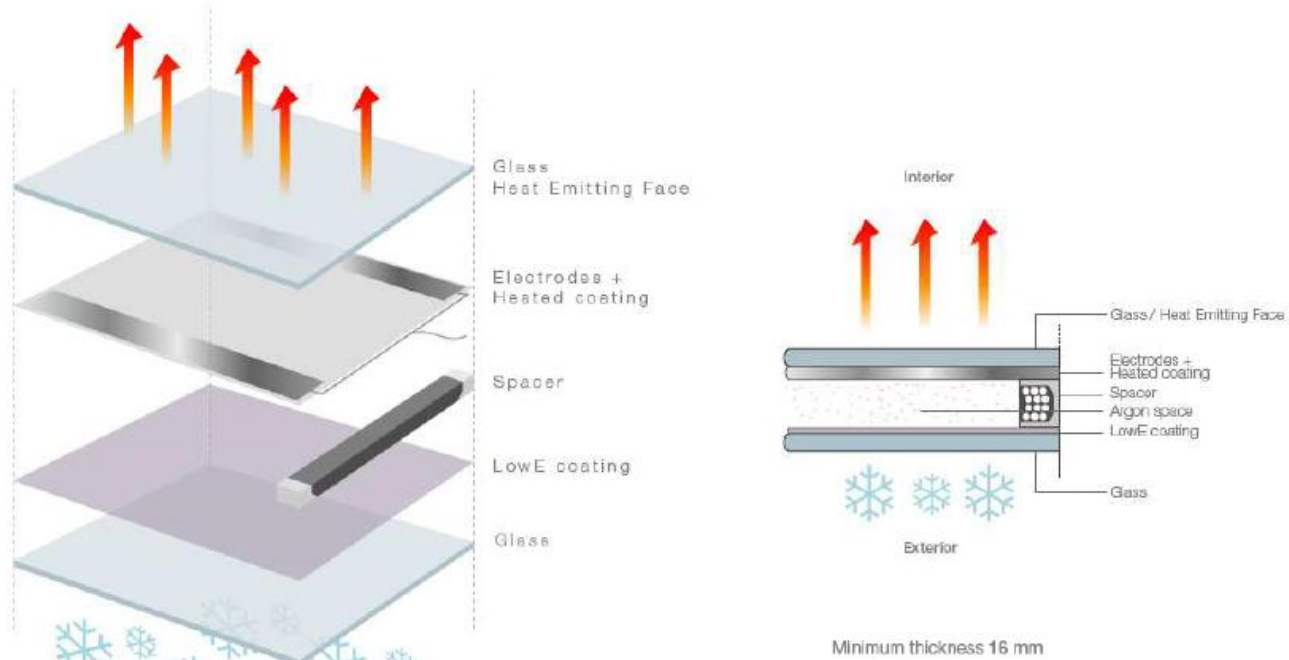


## SNOW MELTING:

- Structural lightening, with no more added weight from snow
- The freedom to increase window surface area, bringing in more light
- No chemical pollution with melting snow
- Enhanced safety with no risk of snow and ice falling from the roof
- Roof glasses always clean



# COMPOSITION



## POWER CONSUMPTION

### HEATING

- 0-600W/m<sup>2</sup> (comfortable, usually used 250-400W/m<sup>2</sup>)
- 95% of heat goes to inside -efficient
- Heats up very fast
- lower temperature can be used when room not used –savings
- No overheating as it reacts very fast -savings
- Total energy consumption is connected to insulation level of building

### ANTI-CONDENSATION

- Cost efficient
- Max 50W/m<sup>2</sup> is enough in all conditions, even -35 degrees outside
- Surface temp is controlled by electronics which saves energy

### SNOW MELTING

- Sequential order heating, snow detector and advanced electronics takes care that energy is used only for snow melting, not to heat environment which saves energy
- Typical power density is 250-400W/m<sup>2</sup>
- Roofs divided to several parts and one part is heated at one time



## SIZES

### Dimensions

- Max. 2170 x 4000
- Min. 300 x 300
- Heated pane always tempered
- Outer pane laminated or tempered
- Heated pane
  - Always tempered
  - 4mm or 6mm
- For thicker glass -- > laminated
- If both dimensions exceed 1500 -- >6mm
- Outer pane
  - Tempered min 4mm
  - or laminated min 44.1
  - or min 8mm untempered
  - TGU if center pane tempered then outer pane can be untempered min 4mm

## APPLICATIONS: Humid Environments

Residential basement swimming space. IQ Heated Glass was installed in each archway opening to stop any condensation build up on the glazing between the humid pool environment and the dry atmosphere opposite.



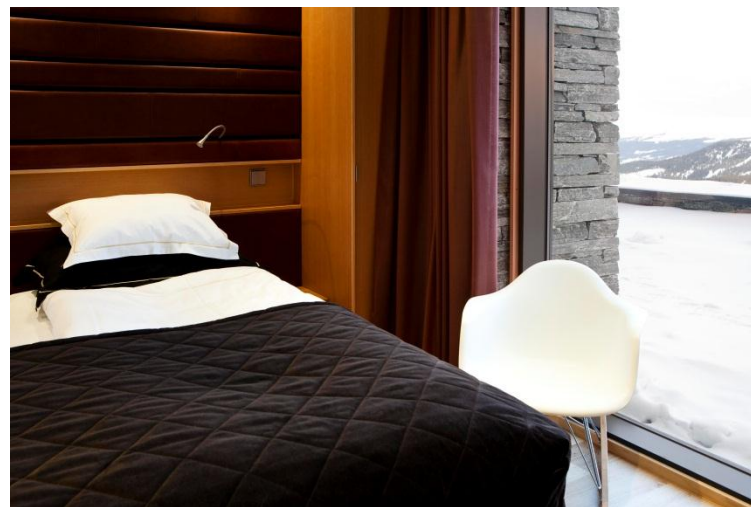
## APPLICATIONS: Private House

A rear glass extension to a residential property in London. IQ Heated Glass was installed to the main glass extension, the glass walkway and the glass basement garden room as the sole heat source for the space.



## APPLICATIONS: Hotel Resort

Heated Glass was installed throughout this Mountain Lodge resort for heating and snow load removal.



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