BENTECH

ENJOY A
New Lifestyle

Retractable Glass Roof

By being innovative in the field of building technology and using recyclable materials, Bentech will create building components of glass that enhance the quality of life for the individual.

Hotels & Restaurants

Whatever climate you live in, Bentech retractable glass roofs shut out the worst of nature's harsh elements, while letting the sunshine in. On warmer days or at the height of a blazing summer, you simply open the glazed roofing panels with the remote control to let in fresh cool air - the perfect climate control!

If you live in a hot climate you close the roof during the hottest hours and let the AC cool down your house and open it during the evening and night. If it starts raining the rain sensor closes the roof.

"We now have more business all year round. The area with the retractable glass roof is always requested first. People really enjoy sitting here. Since we have a bar on one side and smoking is not allowed indoors, our customer can smoke when it is open."

Chez Amis
John Bengtsson

The system has been installed in homes, hotels, restaurants and commercial buildings throughout Europe since 1987. The retractable glass roofing system is now available in North America. Bentech designs are made of recyclable materials. It design follows green building standards and promotes energy efficiency.

Since we got the roof installed we have almost doubled the capacity independent of the weather. We have been able to book larger groups and increased our business"

Robert MattsonMollösund Inn.

"We have expanded our restaurant with a new section including a 300 square foot retractable glass roof. Part of that space is allocated to a dance floor allowing people to dance under the sky"

Conny KristofferssonMårtens

Dance Restaurant.

"The area with the retractable glass roof is always booked out first. We have expanded our capacity all year round and have attracted new customers. I'm very pleased and the business has increased from the first day"

Polihronis Kartsidis

Akropolis Tavern.

Commercial Buildings

UNIQUE SYSTEM WITH MANY USES.

Our insulated construction is the only such system available in the world! Designed, engineered and manufactured in Sweden the patented system comes with an extended warranty. This unique, wide span glass roofing system is ideal for swimming pools, balconies, patios, terraces, courtyards, walkways, winter gardens, restaurants, office atriums and many other home and commercial applications.

WIND AND RAIN PROOF!

Air cushions are formed between panels preventing the entry of dust, wind, rain, ice or snow. It's water-resistant! - even on a practically flat roof with a 4 degree incline. The harder the wind blows the more powerful the air cushions and the tighter the roof, eliminating leaks!

COMPLETELY INSULATED.

Air cushions guarantee a tight surface for the worlds first totally insulated retractable glass roof. Bentech roof system is designed with a thermal barrier. The thermal barrier offers a maximum 0.26 U-factor including all necessary profiles. The design is based on fiberglass composite profiles plus double pane insulated glass units. Composite profiles have an insulating effect, which is as good as wood and in colder weather does not build condensation, which is a problem with metal profiles.

"… a perfect solution for green buildings…"

Residential Homes

WIDE SPANS

The ability to span over swimming pools or outdoor areas is unusual - there is often no need for heavy wooden or steel beams: the stylish Bentech channels carry the glazing with ease over 20 feet. By adding a beam the distance of the span can be expanded one or several times as seen in some of these photos.

"We have had the retractable glass roof for almost 3 years in our entrance hall way. It has functioned very well and never leaked. We have had thunderstorms, hail, snowstorms and hot summer days"

Yves Hentic Mansion in Long Island, NY

Specificatioins

Product Data Material/Construction

The system is available insulated and motor driven with remote control and optional rain and wind sensor. Each Roof unit is made of four sliding glass panels of which one is fixed and where the other panels slides under when open. When all panels are opened, 75% of the total roof area is open air. The Insulated-sliding roof can be obtained with 28 mm insulated glass (see specification on next page). The profiles are manufactured of reinforced fiberglass, of a high standard strength material. It is delivered as standard surface treated white color, other colors are available.

DIMENSIONS:

Maximum span width in feet (at a snow load, pounds/sq. ft.}

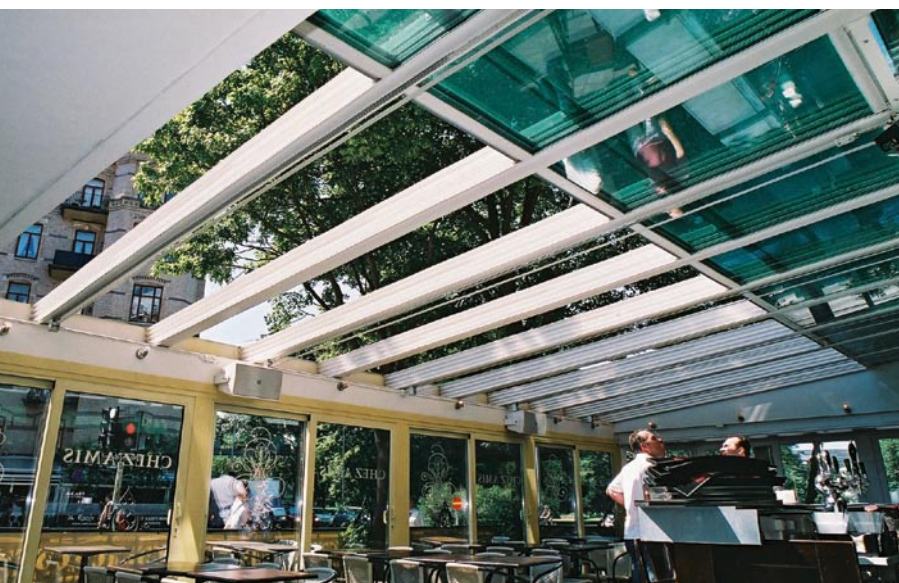| Snow load:	20	30	40	50	60
Beam length:	20	17	16	15	14

Usage Qualities:

The minimum slope: Insulated roof 3 degrees heat

Pass through factor: glass roof, with 28 mm insulated glass the u-factor is 1.6.

ADVANTAGES AT A GLANCE:

- Clean, attractive design
- Opens up with the touch of a finger
- Leak-resistant even under heavy rain and wind conditions
- Closes automatically when it rains
- Resists warping.
- Bentech lets in full light when closed
- Able to span 20 feet of roofing or more
- No need for bulky wooden beams to support glazing
- Fiberglass composites provides load carrying capacity almost double that of steel
- Fiberglass composites provides thermal performance equal to wood and 400 times better than aluminum
- Fiberglass composites minimize the risk of condensation in winter, a severe problem for aluminum

The beams are made of fiberglass, which has a 400 times better Insulation factor then aluminum. They can stretch over 20 feet and by using a support beam it can stretch much further. The 4 panel beam has a height of 215 mm and a width of 100 mm.

The Insulated Glass Panels inside out has 6mm of tempered low emission glass + 16 mm argon gas filling + 6mm tempered sun protected glass with silicone sealed warm edge in standard configurations. Many alternatives are available.

The retractable glass roof has a u-factor of 1.6. The Average Weight per square foot is 7 pounds.