

OpenAire Presents:
March 2002



Stock Brook Manor Golf and Country Club

A BREATH OF FRESH AIR! OpenAire Inc. helps Stock Brook Manor Golf & Country Club open up to sunshine and fresh air.

Imagine 250 acres of picturesque countryside, a championship golf course and an elegant Manor that includes a Clubhouse outfitted with extensive and luxurious amenities. Picture a superb swimming hall whose retractable roof opens up to let in sunlight, blue sky and loads of fresh air. This is Stock Brook Manor Golf and Country Club, and this is how OpenAire helped to realize that vision.

The owners of Stock Brook Manor were delighted with the success of their new outdoor pool but recognized that English weather is prone to unpredictable fickleness and limits outdoor swimming time for guests. Stock Brook decided that enclosing the pool would extend the swim season year-round and thus benefit all concerned. They sought to find a quality design solution that would attractively compliment the existing architecture as well as be simple to use and require little maintenance.

Stock Brook's building firm Peachy (Basildon) Group Ltd. opted to use OpenAire - the global leader in custom designed retractable enclosures and operable skylights. With numerous years of experience and expertise manufacturing a thermally broken aluminium framing system, the company rallied with confidence. The OpenAire team custom designed and engineered the BarrelVault Skylight. By using stretch form technology, individual pieces were shaped to match the radiuses required. The result - a curved, retractable roof that rises approximately 2.5m above the existing wall surround and opens up to 50% of the roof area.

OpenAire's BarrelVault Skylight spans the 19.81m swim hall length and 25mm quintuple wall clear polycarbonate was the glazing material used. Both upper gable ends are glazed with 25mm Low 'E' insulated glass units to give the same appearance of the existing double glazed walling used on the pool surround. All twelve bays are positioned over the pool and with a 'flip of the switch', the Clubhouse indoor pool is transformed into an outdoor pool in minutes. The interior is bathed in additional light and fresh air as each curved operable panel retracts approximately 50% of the roof area. Discreetly designed into each bay frame is a low voltage (24 volt dc) motor. To reduce thrust on the existing steel, OpenAire is using stainless steel collar ties at each rafter (except gable & rafters).

The unique aspect of this project remains that OpenAire's BarrelVault Skylight is framed with thermally broken extrusions that had to be very carefully stretched and formed as per the designed contour. The concave roof opens 50% on one side as the entire south roof length retracts over the entire north roof length.

With the finishing touches currently being put in place, Stock Brook owners are now eagerly looking forward to the completion of this project. The redesigned pool area will now have a fresh and airy feel featuring an unusual retractable roof that is easy to use and remarkably maintenance free. The BarrelVault Skylight will open up when desired and Manor guests, whether they are swimming or just relaxing on the terrace, will delight in the additional natural light and fresh air.