



CASE STUDY

tesa reaches for the Skylight

Sunsquare Ltd, a pioneer in the design and manufacture of skylights, has called on tesa to help improve its production processes.

Market leader in its sector, the Suffolk based company is the only flat roof skylight manufacture in the world to have been awarded a BSI Kitemark for a rooflight.

Reduced
cure times
streamlined
production
shortened
delivery times

tesa people

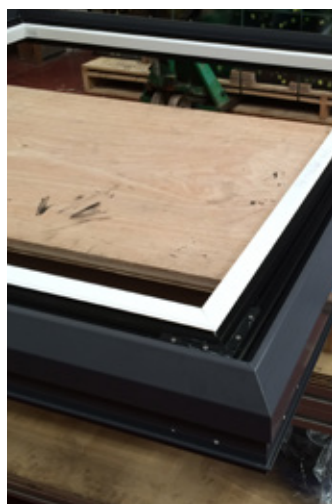
The company visited the tesa stand at a trade exhibition to learn more about the advances in adhesive tape technology. During the initial discussion it emerged there was a lengthy cure time required for a modified Silane adhesive that was used to structurally bond the insulated glass unit (IGU) to a frame in the design of their Flat and Pyramid products: this resulted in factory space being taken up and an extension to the lead time before shipping to their customer. A double sided thermal spacer tape was also used to hold the IGU during this cure time but it did not create a strong enough bond for the product to be moved.



Finished Pyramid product



tesa ACX^{plus} is prepared for bonding



Frame before tape is applied

tesa products

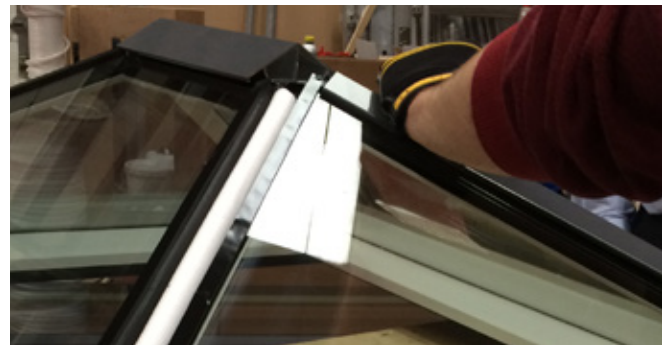
tesa's customer team presented a high performance acrylic core tape called **tesa® ACX^{plus}** which is ideal for structural bonding applications. They explained how this could also provide a thermal break and also the required gap for the Silane adhesive to flow. Subsequently, tesa visited the Sunsquare factory and conducted product tests to demonstrate the high immediate bond that **tesa® ACX^{plus}** could provide. This was supported by extensive laboratory tests to demonstrate the products performance and durability over time via accelerated ageing tests.

tesa processes

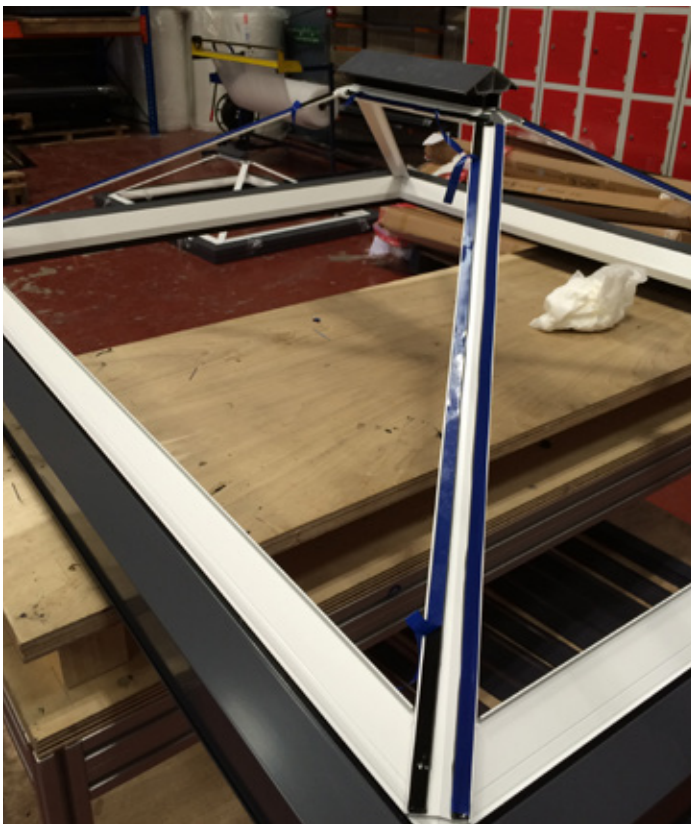
Clive Howard, Technical Director at Sunsquare, is delighted with the outcome, commenting "The introduction of **tesa® ACX^{plus}** tape into our production process has increased individual unit manufacturing output, enabling shorter lead times for delivery to the customer."

tesa performance

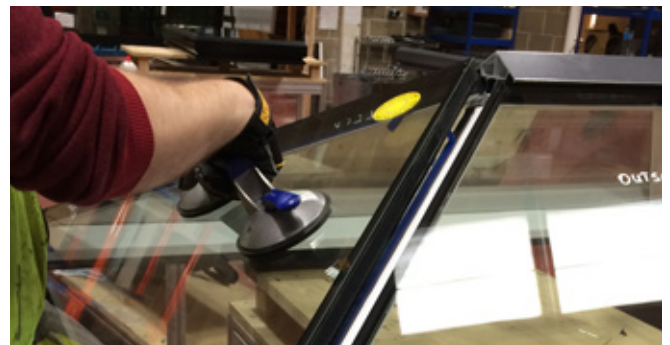
tesa's Mat Lord summarises. "By replacing the existing bonding solution with **tesa® ACX^{plus}**, Sunsquare has reduced cure times, streamlining production and shortening delivery times, all elements that are key to ensuring customer satisfaction and repeat orders."



Flashings are bonded



Uprights are prepared for bonding



Glass is bonded to uprights



Coping section is bonded