

World's largest aluminum roof secured with mounting brackets made of Ultramid®

Case Study

The first Ferrari theme park in the world is located in Abu Dhabi, on the island of Yas. It has a red-silver aluminum roof in size of over 200,000 square meters. This unusual structure is secured in place with the aid of mounting brackets made of BASF's plastic Ultramid®. The world's largest and most impressive standing-seam metal roof was developed, manufactured and installed by the Interfalz company of Oranienburg.

The roof of the Ferrari World Abu Dhabi consists of individual aluminum panels that were formed directly from roll stock on-site, seamed during installation and fastened together with the aid of mounting brackets made of the very stiff Ultramid® A3WG10, a glass fiber-reinforced polyamide 66 from BASF. The patented ribbed, "thermoholder" plastic brackets replace their metal predecessors, optimize the sliding friction behavior at the head of the bracket and improve the insulating characteristics of the roof considerably, since they prevent the formation of heat bridges or – more important in hot Abu Dhabi – , cold bridges that compromise the building's insulation.

The two-part plastic fastener system that Interfalz developed in conjunction with BASF also incorporates an additional function: It secures the aluminum panels to the underlying insulating layer at a defined spacing. This is accomplished with the aid of an adapter plate welded to the "thermoholder" mounting bracket.

