





Green Energy

Metal Attachments for Solar Panels



Location	Japan
Environment	Outdoor
Grade/surface	SUS409L, SUS410L
Manufacturer	Caname Co., Ltd. and Nippon Teppan Co., Ltd.
Material supplier	Nisshin Steel
Source of information	JSSA

Metal attachments were developed to fix solar panels onto metal roofs. Because the solar panels have a usable life span of more than 20 years, it became imperative to develop attachments which are made from materials with a similar durability to avoid additional maintenance or replacement due to corrosion. Against this background, Caname Company and Nippon Teppan, together with Alstar Stainless, developed metal attachments made from ferritic stainless steel grades 409L and 410L (containing 11% chrome) for industrial solar panels. Tests conducted onsite in the Okinawa Prefecture have demonstrated the durability of this product. The stainless steel is aluminized because this grade of stainless steel has the required strength and corrosion resistance, but displays a certain level of surface discolouration over time and the aluminium coating maintains an attractive finish. These attachments have been patented and have gained in popularity. With the current surge in demand for solar power systems, these attachments are expected to contribute to further growth in the future.