

CONSTRUCTION / JAPAN

TOKYO SKYTREE

THE CHALLENGE

Facing such an extremely tall structure are many: besides the high winds and the ever-present threat of earthquakes, the fact that its upper reaches spend much of their time enveloped in cloud and smog require that all components have the highest possible corrosion resistance.

THE SOLUTION

Tokyo Skytree's sky-high demands on quality, Nord-Lock washers were the inevitable solution. More than 10,000 pairs of various sizes have been used on the tower, making it almost certainly – with the possible exception of the aerospace industry – Nord-Lock's highest-altitude application. The washers have been used to secure many crucial bolted joints on this awe-inspiring structure.



BUILDING / LINDNER, GERMANY

FACADES

THE CHALLENGE

Large surfaces and strong winds lead to dynamic loads on the facade and its substructure.

THE SOLUTION

The main connections were made with HV M36 and secured with Nord-Lock SC washers.



CONSTRUCTION / LIFTBYGGARNA, SWEDEN

ERICSSON GLOBE

THE CHALLENGE

Creating a funicular railway to the top of the largest spherical building in the world has its logistical problems. Swedish company Liftbyggarna, who ordinarily manufacture ski lifts, have had to be inventive, even using mountain climbers and helicopters. Construction has required over

40 tons of reinforced steel, while the Skyview rail itself weighs 70 tons and each gondola weighs 7 tons.

THE SOLUTION

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CONSTRUCTION / SKANDINAVISKA GLASSYSTEM, SWEDEN

GLASS AND STEEL CONSTRUCTION

THE CHALLENGE

The glasswork company Skandinaviska Glassystem, was assigned the task of constructing the roof of the new Triangeln railway station situated in central Malmö. This required a bearing frame in high strength stainless steel covered in 1,200 square meters of glass comprising 1,600 different sections.

THE SOLUTION

More than 5,000 Nord-Lock washers were used to secure the bolts in the nodes of the Triangeln steel construction. Different washers were used for bolt sizes ranging from M12 to M24, depending on the pressure or pulling effect of the steel arms.

