The Eiffel Tower

Lindapter Girder Clamps provided a solution for connecting steel sections together to form the framework for new buildings.

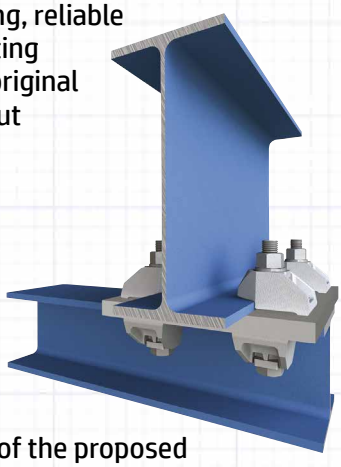
Project Background

Location: Paris, France
Market: Building Refurbishment & Renovation
Product: Type AF Girder Clamp

Since its opening in 1889, the Eiffel Tower has welcomed an ever-growing number of tourists. Over the years contractors have restored and adapted the monument using Lindapter steelwork fixings to accommodate the increase in visitors and their needs.

Client Requirement

A renovation programme was planned for 2012 which included new facilities on the first-floor such as new meeting rooms, exhibition spaces and restaurants. The contractor wanted a strong, reliable and quick method for connecting various steel sections to the original architectural steelwork without causing damage.



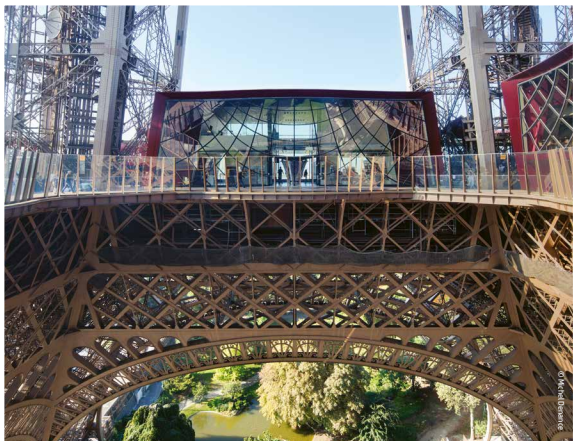
Design Solution

After speaking to Lindapter's technical support team, the contractor took advantage of the free connection design service and quickly received 2D and 3D drawings of the proposed girder clamp solution which omitted the need for drilling or welding on-site, while preserving the original steelwork and its coatings.

Click here to watch the installation video >>>

Installation

The contractor used Type AF Girder Clamps with size M24 grade 8.8 bolts to secure the steel frame for the facilities back to the original structural steelwork. The Type AF high slip resistance clamps provided lateral adjustability during installation, which allowed the contractors to simply slide the sections into position before tightening with standard hand tools. This added further speed and convenience to the project and ensured minimum noise and disruption to the nearby tourists.



Type AFs connected steel sections to the original architectural steelwork without damage

Result

Lindapter's solution provided a fast installation and avoided costly onsite drilling or welding that would have also damaged the existing corrosion protection on the steelwork. The adjustability of the girder clamps also gave the contractor flexibility to overcome any on-site alignment issues. The girder clamps have independent technical accreditations, including the CE mark, ICC-ES and TÜV approvals. These accreditations verify the tensile and slip load capacities that led to a strong and reliable installation.

Dynamic Load Approved