

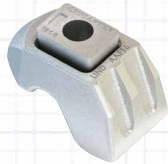
# Allegiant Stadium

Lindapter Girder Clamps provided a solution for connecting a huge electronic media mesh screen to the exterior of the world's most expensive stadium.



## Project Background

**Location:** Las Vegas, USA  
**Market:** Stadiums / Arenas  
**Product:** Type AAF Girder Clamp  
**Quantity:** 4,200



In 2017, the Las Vegas Raiders NFL team announced plans to build a world class stadium in Las Vegas, NV and relocate from Oakland, CA. Construction of Allegiant Stadium began in November 2017 and was completed by the summer of 2020. The stadium is one of the most impressive, high tech, and expensive sports venues on the planet costing \$1.8 billion.

## Client Requirement

One of the distinctive features of the stadium is the 27,600 square foot transparent LED mesh display screen on the exterior facing the adjacent interstate highway and the iconic Las Vegas Strip. The contractor responsible for installing the steel framework for the screen recognized that welding in such close proximity to the specially tinted glass panel glazing behind it would require a large number protective thermos blankets to be hung and continuously moved to prevent damage from the hot sparks and slag. This would have been extremely costly and could have potentially delayed the project. In order to avoid these risks and eliminate the need for welding altogether, the contractor who was already familiar with Lindapter from previous projects, proposed using Girder Clamps to secure the video screen to the structural steel framework.

Naturally, the local building authority insisted that the clamping system must be independently approved so was quickly reassured after reviewing ESR-3976, which is published by the International Code Council Evaluation Service and approves the use of Lindapter Girder Clamps to resist wind and seismic loads in all seismic regions.



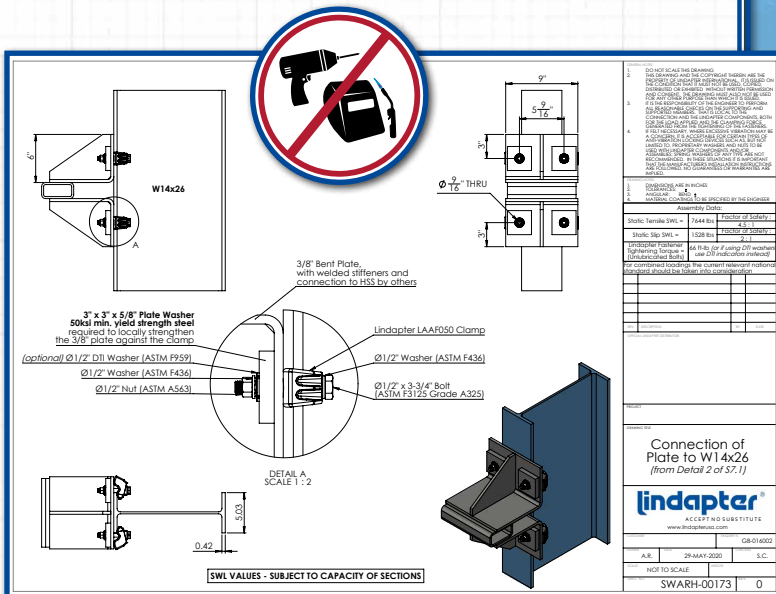
*Type AAF is quick and easy to install at height*

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## Design Solution

After receiving details of the structural columns used in the stadium construction and the expected load demands of the screens steel framework, Lindapter's technical support team was able to propose a solution.

Several connection details were designed incorporating steel brackets and plates connected to the structural steel using Lindapter Type AAF adjustable high slip resistance girder clamps. The design included Type AAF clamps with 1/2" diameter grade A325 bolts in standard 2-bolt and 4-bolt configurations.



## Result

Type AAF Girder Clamps provided a weld-free structural connection that was quick and easy to install despite working at height and prevented damage to the adjacent hi-tech glazing that heat and sparks from welding would have caused. Lindapter also satisfied the local Clark County Building Department (the Authority Having Jurisdiction) requirements as the Type AAF girder clamps have independent technical accreditations, including ICC-ES approval for structural and seismic design.



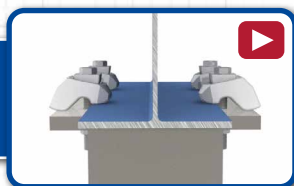
4200 Type AAFs support the 275ft screen

## Installation

The contractor used 4,200 Type AAF Girder Clamps to connect the brackets and plates to the structural columns. Installation was quick and easy as the connection assemblies could be positioned close to where they were needed before final adjustments were made and the clamps fully tightened.

Before the electronic media mesh video screen was installed the clamps and assemblies were painted black to match the color scheme of the stadium.

Click here to watch the installation video >>>



## Key Benefits



- ✓ Time and money saving installation
- ✓ No need for welding which could have damaged the glass glazing
- ✓ Independent ICC-ES approval
- ✓ High slip resistance capacities
- ✓ Fully adjustable in the field
- ✓ Removeable and reusable for future adaptability

## Project Follow-Up

Recently, some adjustments to the LED panels were needed. Fortunately, Girder Clamps can be easily removed and then reused. Had the display been welded, the time and cost to break, grind, and then reweld (once again hanging and continuously moving the protective thermal blankets) would have been enormous.