

## Thorn optimises the lighting at the OPEL ARENA in Mainz

*Future-proof floodlight system more than fulfils DFL requirements*

- New LED floodlight and stand lighting addition
- Turnkey solution implemented in only two months
- Top-club lighting solution

Dornbirn, Austria / Dortmund, Germany – In late spring of 2019, Thorn Lighting – a member of the Zumtobel Group – was tasked with the installation of a new LED floodlight system and main stand lighting addition at the Opel Arena, home of the 1. FSV Mainz 05 football club. The progressive lighting upgrade, which was implemented as a turnkey solution, fulfils the raised requirements for the German Football League (DFL) in time for the 2019/2020 season as well as UEFA Elite Level A.

Opened in July 2011, the OPEL ARENA in Mainz, Germany is a multi-purpose stadium that is primarily used to host the home games of the Bundesliga side Mainz 05. With its large red archways, distinctive architecture and bright illumination at night, the 33,005-seat OPEL ARENA is a representative landmark for the club as well as the city.

*“Although it was the first project that we undertook together with the Zumtobel Group, the cooperation was very smooth,”* as Stephan Bandholz, 1. FSV Mainz 05 Deputy Director Organization / Head of Security, summed it up. *“Signed the contract in June and switched on our new light installation in August. We’re very pleased with the result.”*

### **Sports know-how**

As an experienced and trusted global supplier of professional as well as recreational sports lighting solutions, Thorn specialises in customised illumination systems for virtually all types of indoor and outdoor facilities – from large-scale stadiums and event arenas to small-scale practice fields. Its modern lighting solutions are designed for low energy consumption and easy maintenance as well as aesthetics and optical performance, highlighting the action on the pitch and the stadium experience as a whole.

### **Turnkey convenience**

A key factor that influenced the club’s decision was the turnkey service offering of the Zumtobel Group. As a result, all of the project steps and deliverables were managed by a single point of contact, including the initial assessment of the floodlight installation and facility, development of a tailored lighting concept, the project planning, installation, coordination with other contractors, control programming as well as the commissioning. It also meant that the club could be assured that the project would be conducted smoothly, cost-effectively and quickly.

*“The Zumtobel Group assured us that they would handle of all of the project details, and that’s precisely what they did,”* as Stephan Bandholz, 1. FSV Mainz 05 Deputy Director Organization / Head of Security put it. *“The*

*installation was handed over to us fully tested and operational. It doesn't get any easier and more convenient than that."*

### **Project deliverables**

Following the contract signing in June 2019, Zumtobel Group experts got right to work in designing a high-quality, future-proof lighting installation. Forming the backbone are 220 high-powered Thorn Altis floodlights, all of which together easily exceed the new illuminance level requirements of the German Football League for the 2019/2020 season. The brilliant colour rendering (CRI 86, TLCI > 80), uniform light distribution and flicker-free operation make the 5700K LEDs ideal for HDTV broadcasting. They also support super slow-motion camera images. In addition, 163 Aquaforce Pro moisture and dust-resistant luminaires were installed to provide additional brightness to the stand lighting system.

DMX interfaces that use the existing IT infrastructure as a backbone enable real-time control of the floodlight system, including dynamic lighting effects and activation of individual luminaires from any point in the stadium. The DALI controls used for the Aquaforce stand lighting system are integrated with the floodlight control system via gateways. They allow for brightness dimming to any level and on/off switching.

As Jens Lohse, Sales Office Manager Frankfurt points out: *"Given our extensive experience with stadium lighting systems, our industry expertise and broadly diversified portfolio of advanced lighting solutions, we're able to offer customers complete turnkey solutions. More and more of them are taking of advantage of these."*

### **Future plans**

Following successful stadium lighting projects at venues like the Signal Iduna Park in Dortmund, Germany, the stadium Estadio Alberto Jacinto Armando – usually called "La Bombonera" in Buenos Aires, Argentina and others, Thorn welcomed the opportunity to demonstrate its competence and capabilities at the OPEL ARENA in Mainz. Similar projects are already in the works. Thorn's broad portfolio of cutting-edge products and, in particular, extensive sports lighting experience and expertise enable it to design and develop solutions for stadiums of every scale.

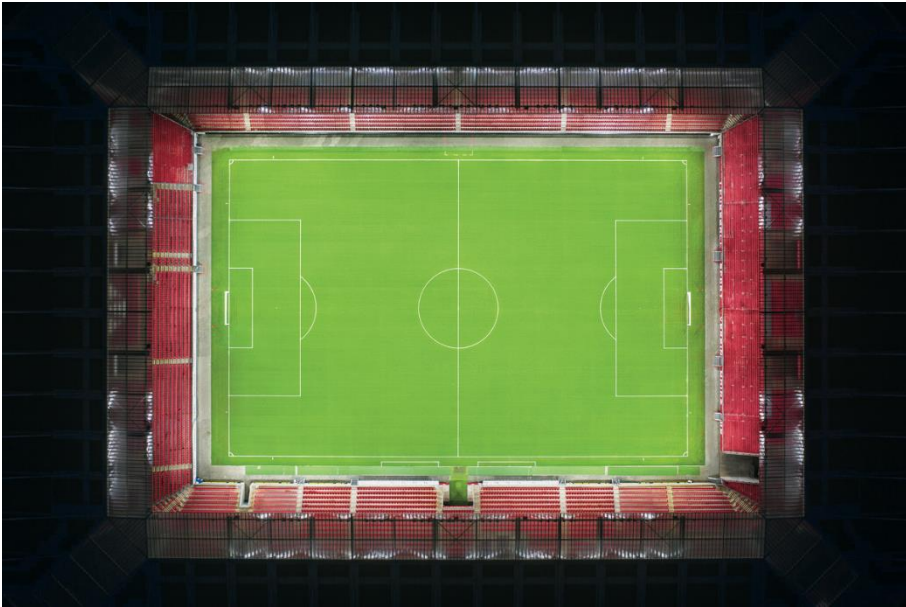
### **Project highlights at a glance**

- 220 Thorn Atis floodlights
- 163 Aquaforce Pro moisture and dust-resistant luminaires
- IP-based DMX control system for real-time dynamic lighting effects
- Turnkey ready project management, from lighting concept over installation to commissioning and maintenance

**Images**

(Photo credits Thorn)







## Video

<https://www.youtube.com/watch?v=fW9wky1OIVs>

## Information

This press release and high-resolution images can be downloaded from:

[www.thornlighting.com/en/about-us/press](http://www.thornlighting.com/en/about-us/press)

## About Thorn

Thorn designs and develops innovative, performance-driven and dependable indoor and outdoor lighting and control solutions. Our comprehensive portfolio addresses the daily requirements of municipalities, contractors, consultants, architects, installers, wholesalers and end users. It covers a broad spectrum of applications, including office, education, industry, urban life, transportation, sports, road, parking and also emergency and control solutions. Around the world, the Thorn name is synonymous with proven quality, reliability and efficiency. With over 90 years of lighting experience, we have established ourselves as a trusted partner committed to providing customers with support that goes far beyond the product. We help to improve public and traffic safety in communities with intelligent solutions and better connectivity. Thorn is a proud member of the Zumtobel Group and fully dedicated to providing the right light for people, places and the environment. In all of our efforts: We make light work for you. Learn more at [www.thornlighting.com](http://www.thornlighting.com)

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