



Funktion One > Green Bay, USA



"Acoustic design should be thought of as an integral part of a public space," say Funktion One, "not an added afterthought. By combining our waveguides in different ways, we are able to precisely tailor the sound intensity and dispersion to the specific requirements of individual architectural spaces and venues. Keeping the sound focussed on the audience by controlling the system footprint substantially reduces unwanted reflections and further enhances our enclau-

tures' already high intelligibility." Examples of Funktion One permanently installed stadium systems include the recently installed system at Green Bay in the USA. This project was a particularly demanding application where coverage over the entire stadium bowl was required from a single position above the scoreboard at one end, with a throw of 850 feet. During system commissioning, installers recorded levels of 128dBA at this distance combined with breathtaking

audio quality. The project saw the inception of a major new Funktion One technology for large public space audio installation in the birth of the Hybrid Cluster (pictured). This provides a method and approach to give any desired SPL with any footprint shape. As every stadium and concourse is different, the systems are easily customised and built using optimised glass composite construction, stainless steel fittings and water resistant loudspeakers.

www.funktion-one.com

Nexo > Geneva Stadium

Geneva-based Skynight and Nexo's Swiss distributor Zap Audio completed the installation of a Nexo GEO S sound reinforcement system at the Geneva Stadium in Switzerland early last year. Nexo's pedigree in sports stadia is well-established, with venues such as the Stade de France in Paris and the Ataturk Olympic Stadium in Istanbul using different Nexo loudspeaker products. Drawing on the success of a stand-alone GEO S system in the commercial village outside the Stade de France, the 35,000-capacity Geneva Stadium

has become the first to use Nexo's flagship GEO technology as the main SR system. The original specification followed very conventional lines, calling for 120 x 15" loudspeakers spread under the roof, with 60 amps located in one position. Zap Audio tendered for the project with the newly-launched GEO S, amplified by CAMCO's digital Vortex 6. Not only did the price of the GEO S system come in at 20% less than the original specification, but the GEO technology offered better dispersion, important for the asymmetrical sta-

dium, and better directivity control, a critical factor given that the stadium is situated near a residential neighbourhood. Performance specifications were superior, with even coverage available throughout the stadium +/- 2dB, and, with the NX241 digital loudspeaker management systems, it was possible to set up gain, delay and EQ more precisely. In total, Skynight installed 56 x GEO



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S830 cabinets, with 6 x NX241 digital controllers. The system is amplified by two CAMCO Vortex 4 and eight Vortex 6 amplifiers, and mixed from Yamaha digital mixers.

...and now for something slightly different...



Stark > San Siro, Milan

Stark recently created one of the most impressive video projection choreographic shows ever presented in a stadium with a show at the famous San Siro in Milan, Italy. The Stark projectors were used not only to create a jaw dropping effect at the stadium, but also to create probably the largest stationary multi-projection in the world. Up to 90,000 spectators greeted the

show with thunderous applause as the projection covered both the pitch and the stadium's imposing four towers. The event involved 50 Stark projectors covering an area in excess of 9000 square meters, more than 10 km of cable, 380 lighting control mechanisms specially constructed for San Siro and installed by Stark as well as some 2500 images. The success of the

show will hopefully signal the inception of more like it in the future, this being the first time that Stark have used a stadium environment to display 'the theatricality of light and space'. Significantly, the enormous projection (8200 square metres) which was directed onto the pitch, is one which has never been attempted before. Architectural projectionists

know that grass is one of the most difficult materials to project images onto - this due to the very high light absorption of grass. This, in itself, is a comment on the luminous power that the Stark projectors are able to unleash. Stark have since returned for further shows at the San Siro at the Inter vs Roma and Milan vs Juventus fixtures. www.stark1200.com