

## Fast-Track Tensile Architecture for Stadia

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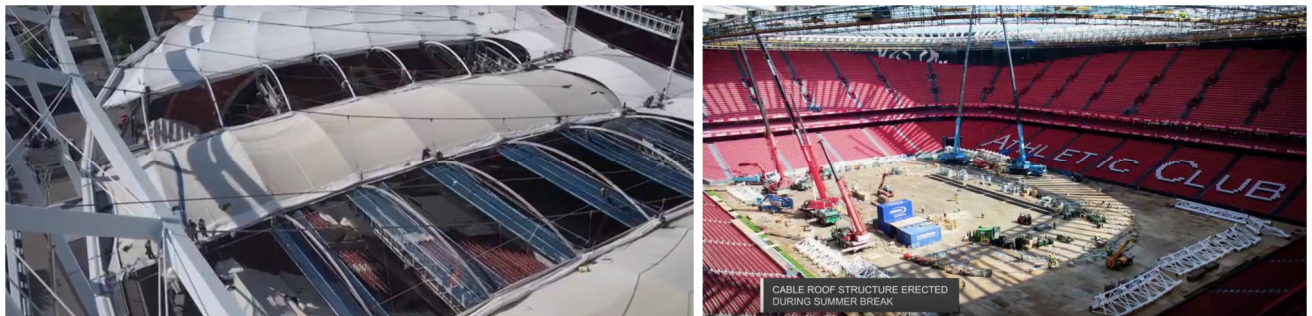
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### Abstract

Whereas in the past most of the stadia and arena have been built from the scratch, focus in the industry changes to upgrading and refurbishing existing venues. Once having been state-of-the-art, world class stadia are experiencing changes in regulations and rising requirements of the tenants or owners.

One of the aspects is the obligation of sheltering the spectators from the elements. Some projects with roofs already in place have reached a point of substantial refurbishment for their structures.

Either way or the other clients are in need of fast-track solutions for roof structures. Principles and methods are presented how this can be achieved with Tensile Architecture, using cable and fabric solutions. It is demonstrated that summer breaks in between the season schedules of professional sport clubs provide a tight but sufficient building period for refurbishment or even a new roof structure.



### References

- [1] PFEIFER Seil- und Hebeteknik GmbH, *Erneuerung Membrandach, Mercedes-Benz-Arena, Stuttgart*, Video, [https://www.youtube.com/watch?time\\_continue=2&v=bqmXfxQDR9k](https://www.youtube.com/watch?time_continue=2&v=bqmXfxQDR9k), 2017.
- [2] IDOM, *San Mames Stadium Cable Roof Extension, Bilbao*, Video, <https://www.youtube.com/watch?v=xmiUA2mZkzA>, 2017.
- [3] sbp, *New Roof Membrane for Mercedes-Benz-Arena*, Homepage sbp, <https://www.sbp.de/en/news/new-roof-membrane-for-the-mercedes-benz-arena-in-stuttgart/>, 2017.