

Contemporary Tensile Structures in Europe: tendencies and challenges

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The paper presents an overview of recent Tensile Surface Structures built in Europe. The cases illustrate modern trends in implementing adaptable solutions, temporary pop-up structures, hybrid structural concepts, advancements in material solutions, refurbishment of existing structures, cooperation with artists, as well as the importance of sustainability and recycling. Recent designs are made possible through advanced simulations and are supported by research.

As each Tensile Surface Structure is unique and special, it remains crucial to document and follow up the buildings throughout their lifespan, to assure to be inspired by good examples.

Technical recommendations, as being developed by CEN TC250 WG5, will be introduced and commented upon.

Attention points with respect to the end-of-life of Tensile Structures will be reflected on.