

5.1 DETAILING PRINCIPLES

Developing the design of a membrane structure is an iterative process in which both the overall design and the detail are developed simultaneously. Detailing involves considering the connections of different parts of the structure, while remaining aware of its general evolution. A detail expresses both its function and how the whole structure works. It may also reflect the budget of the client and the experience of the designer. A detail must work in a way that is consistent with the designer's modelling of the structure, whether physical or numerical. Details must be installable as well as able to function satisfactorily throughout their lifetime. Details generally are vital to the overall stability of the structure although some may be of only minor importance.

A general view of the whole design is needed so as to decide on the "readability" of the structure, to ensure that daylight gets into the space, and to determine the visual quality of all the elements. In this very early stage the general character of the detailing needs to be decided upon as well as that of the overall structural system.

During the past fifty years the technology of tensioned membrane structures has developed a large vocabulary of structural details. Much of this has been recorded comprehensively in Bubner¹. However the technology is still relatively young compared with that of conventional building. More and better membrane materials are being developed and there remains much to be done in refining and developing connection details, opening mechanisms, structural supports and anchorage systems. The current vocabulary is underpinned by the following seven factors:

5.1.1 FOLLOWING DIRECT LOAD PATHS

Tensioned membrane structures are stable due to their doubly curved forms generated by tensile force equilibrium. The detail elements must follow this principle and be able to respect the load path geometry as external loading conditions change.

Structural connection elements invariably receive membranes and cables coming from different planes and angular orientation. The design and execution of such elements need to be precise and in accordance with the membrane geometry. Eccentricities must be avoided in order to guarantee the correct shape of the total system. The formations of wrinkles and bad structural performance are some of the consequences of detailing based upon the wrong geometry.

5.1.2 FLEXIBILITY FOR DISPLACEMENTS

The displacements of tensioned membrane structures produced by external loads are relatively large compared with those of more conventional building systems. This characteristic has to be considered during all stages of the design of tensioned membrane structures. Details should allow for displacement and rotation, the magnitudes of which are calculated during the design process, as well as their precise position, direction and angular orientation.

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Daniela Niemeyer



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