

Case study Textile Architecture

Canterbury College, Australia



VALMEX® FR 700 MEHATOP® N Type I



Architect, Design & Engineering:
Versatile Structures



Canterbury College Pool Structures

Project: Waterproof PVC membrane fabric provides high UV-protection and low maintenance for the school and groundskeeper.

Location: Queensland, Australia

Pool structure:

Material: VALMEX® FR 700 MEHATOP® N Type I

Color: White

Quantity: 278 m²

Designed, manufactured

and installed by: Versatile Structures

Completion: 2021

Grandstand:

Material: VALMEX® FR 700 MEHATOP® N Type I

Color: White

Quantity: 450 m²

Installed by: Versatile Structures

Completion: 2020



The 450m² large grandstand membrane featuring Mehler **VALMEX® FR 700 MEHATOP® Nano** fabric, delivered a highly successful result for Canterbury College that they decided to task Versatile Structures with design and fabrication of a 278m² pool structure cover. This time, the engineering and steelwork fabrication was managed by Versatile Structures and the obvious fabric choice was the Mehler **VALMEX® FR 700 MEHATOP® Nano**, again.

This latest generation of weldable PVDF surfaces is setting new standards in textile architecture. In addition to its high UV-protection and long service life, its higher fluoride content reduces the surface energy of the membrane and results in a greatly improved cleaning process and a long service life and project satisfaction in the long term.

The second phase of the project for the Pool Structure had to be done during school holidays to maximise site safety, giving the teams just a 4-day week in which to complete the structure. The installation of the frame was completed via a large crane with dogman and multiple EWP operators to lock off the steel connections. The 200kg skin was so heavy that we also required to utilize the crane to finalize the fabric installation.