

Research centre Estidamah



Estidamah Greenhouse Complex

Estidamah is the second-largest horticultural Research Centre in the world. This project is an 8,500m² greenhouse complex situated in the Techno Valley of Riyadh (Saudi Arabia) and was carried out by Sabc, Wageningen UR and BOM group.

Water shortage is a major concern in the Middle East. Both the agricultural and floricultural sectors suffer greatly as a consequence. New Techniques need to be developed to guarantee a successful harvest. This research focuses on increasing the food quality on the one hand, and reducing the use of water on the other. All existing and new cooling techniques will be

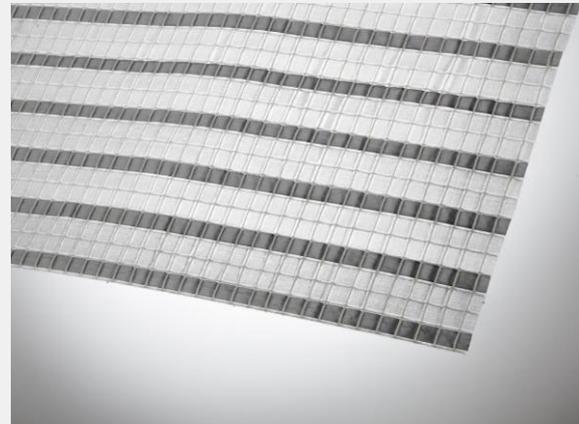
tested and compared in the research Centre, with a view to achieving a sustainable cultivation method in the warm climate.

The research will take place in several sections divided into high-tech, mid-tech and low-tech. Both the high-tech as well as the mid-tech section take place in 13 individually controlled areas consisting of glass. While the low-tech section takes place in 2 areas, where foil is used. The goal is to create a more homogeneous and better controllable climate. Thanks to the adjustable screens, the maximum amount of light can be taken in, as opposed to chalking. It is expected that

the production per m² will be tripled and that 95% of water is saved.



Location Estidamah



PhormiTex 44

BonarAgro supplied the **PhormiTex 44** Closed Sun Shading screen for this project. Through the addition of aluminum particles, this type of screen creates shadow and heat reflection during summer and ensures effective energy saving in winter and on cold nights. Furthermore, all closed shading screens contain a high-capillary acrylic thread, which helps to obtain efficient transport of moisture through the screen, without additional heat loss. The **PhormiTex** screens are also well-known for their long service life, whilst also offering unequalled energy savings throughout the entire lifetime. Above all, this screen (like all **PhormiTex** screens) is fire-retardant.

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