

Sefar AG

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[FactBox]

Fabric

SEFAR® Architecture PTFE Fabric

Size/Quantity

250 umbrellas, 25.5 x 25.5 m,
shaded area of 143'000 m²

Project/Location

Haram Piazza, Saudi Arabia (SA)

Construction type

Umbrellas

Architect

SL-Rasch GmbH, Leinfelden-Echterdingen (DE)

Umbrella construction

Liebherr, Biberach an der Riss (DE)

General Contractor

SBG – Saudi Binladin Group, Saudi Arabia (SA)

Assembly/Implementation

Taiyo Kogyo Corporation, Japan (JP)

2021-01-21

f a b r i c & w e a t h e r

250 highly flexible sun shades for pilgrims in Medina Haram Piazza (SA)



[ProjectInfo]

Each year, millions of pilgrims flock to the mosque in Medina al-Munawwarah. In recent years, the traditional time of pilgrimage has been in the cooler fall and winter months. This time frame is changing gradually, however. According to the lunar calendar, the time of pilgrimage is returning to the extremely hot summer months, making a sunshade absolutely essential.

It was clear from the beginning that only PTFE fabric would be able to meet the exceptional situational demands. Other materials would not provide full protection from the aggressive UV radiation or satisfy the stringent standards required by the customer. In addition to UV-stability, the material had to have an extremely high tensile strength owing to wind load, maximum

flexibility, colorfastness, fire resistance, as well as effective shading and appropriate light transmission. The extra tough PTFE fabric developed by Sefar especially for this huge project could not remain pure white owing to the intensity of the light since the strong transmission would have blinded people beneath the sunshade. For this reason, the customer chose a sand-colored fabric. In addition, oriental patterns made from blue PTFE-ribbons should be applied to the underside of the umbrella. 250 umbrellas, each one with a surface area of 25.5 x 25.5 m (when open) and 15 meters high, have been installed.

The outcome of this combination: by shading with PTFE fabric, the ambient temperature is reduced by at least 8 °C.

ARCHITECTURE

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