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Central Railway Station Graz Graz (AT)

[FactBox]**Project/Location**

Central railway station Graz (AT)
www.grazhbf2020.at

Architect

Zechner & Zechner ZT GmbH, Wien (AT)
www.zechner.com

Builder

ÖBB-Infrastruktur Bau AG, Wien (AT)

Assembly/Implementation

Temme Obermeier GmbH, Raubling (DE)

Steel construction

Haslinger Stahlbau GmbH, Feldkirchen (AT)
www.haslinger.co.at

Statics steel construction

Kratzer Zivilingenieurbüro, Graz (AT)

Fabric

SEFAR® Architecture TENARA® Fabric 4T40HF

The central railway station in the Austrian city of Graz serves around 30'000 passengers daily, and this figure is increasing. Together with the reassignment of platforms and rail tracks, a decision was taken to demolish the original roof and redesign a large-scale, integrated, clear canopy with as few supports as possible. The task also involved preventing the membrane from lifting as a result of wind suction as well as eliminating the build-up of snow overhangs.

Around 3'000 m² of station forecourt and 4'500 m² of platform area are now covered by a roof in the form of a wave using SEFAR® Architecture TENARA® Fabric 4T40HF. This material is particularly suitable for conveying a sense of freedom as it utilizes natural light, provides reliable protection against wind, rain, and snow – as well as meeting all fire safety specifications. The translucent PTFE membrane roof distributes external loads in such a way that snow and wind act only at precisely determined points on the existing construction. The shape of the roof creates optically calming waves.

The utilization of daylight is ideal, and the translucent fabric now allows people waiting on platforms to benefit from natural illumination. In addition to this, gently reflective aluminum panels create a welcoming sky effect.

