

User report

Doors from EFAFLEX prove themselves at many BMW Group sites

In the first stage of construction, EFAFLEX has installed 44 EFA-SST® high-speed spiral doors at the BMW Group's new parts warehouse.

Covering an area the size of some 20 football fields, the storage capacity includes more than 610,000 storage compartments for small parts, 16,000 shelving spaces for pallet cages and 80,000 other shelving spaces. 44 high-speed spiral doors from the specialist in high-speed industrial doors secure the new BMW Group parts warehouse in Bruckberg-Gündlkofen externally against unauthorised access and, with the fastest opening and closing speeds in combination with highly insulating laths, guarantee a consistent inside temperature for the employees.

For the logistics service provider Kühne + Nagel, who have taken on operation and management of the warehouse on behalf of the BMW Group, the close proximity of the door manufacturer EFAFLEX is an "all-round winner". The head office with customer service technicians is less than 10 km away. This is an enormous benefit for maintenance, servicing and repairs because the manufacturer can get to the doors in just a few minutes if necessary, so the highest availability is therefore guaranteed. However, this is just one of many reasons why the planning team at the globally leading property developer Prologis opted for doors from the leading innovator, EFAFLEX.

The 44 EFA-SST®-S and L Premium high-speed spiral doors are highly insulated using the latest, thermally insulating generation of spiral doors from EFAFLEX that have already proven themselves for heavily frequented thoroughfares at other BMW Group locations around the world. The highest levels of energy efficiency are achieved here

thanks to the use of thermally separated door laths with extremely high thermal insulation in accordance with DIN EN 13241-1 of less than 2.0 W (m²K). Depending on the required thermal insulation, the lath thicknesses can be varied between profile thicknesses of 40 mm, 60 mm, 80 mm and 100 mm. Meanwhile, the lath height remains a consistent 225 mm.

At the same time, the swift door operating speeds of up to 4.0 m/s, depending on the door type, contribute to the perfect implementation of for all highly efficient logistics processes. Even while the heating is switched on, the hall temperature remains almost constant.

Functionally the new generation EFA-SST® fulfils the highest expectations:, from an architectural point of view, it is possible to realise the appearance of a consistent façade even when various different dimensions and models need to be planned. Added to this are almost unlimited variation options for materials and surface finishes or colouring.

Alongside the outstanding thermal insulation values, for example, the doors demonstrate a better than average wind resistance of Class 4 in accordance with DIN EN 12424. In addition, almost all of the 44 doors in the new warehouse are combined with induction loops, access control for authorised persons or laser scanners. The laser scanner ensures, particularly at critical points with cross traffic, that the doors are only opened if a vehicle is moving directly towards the door.

EFA-SCAN® is the first and only laser scanner worldwide which can be used horizontally at doors. The laser scanner generates a large, horizontal monitoring area in which it not only detects the direction of movement, but also takes the distance, direction and speed of the movement into account. In the static safety area directly in front of the door, EFA-SCAN® reacts like a safety system: it extensively protects the full width of the door and prevents the door from closing as soon as it detects a moving or stationary obstacle. The footprint of the safety area is also easily definable. EFA-SCAN® thus protects the door and prevents accidents.

The “Bruckberg” warehouse has already commenced operations. Spare parts and accessories for vehicles under the BMW and MINI brands, equally in demand, are held there. On the world’s roads there are around 20 million BMW and MINI cars and motorbikes, with more than 300,000 different parts built in. Almost a third of these are held in the Bruckberg-Gündlkofen parts warehouse.

Behind almost every order at the warehouse there is a customer who urgently needs their spare part, that's why BMW expects more than 90 percent of orders to be rush jobs. All service providers and suppliers have to work reliably so that there are no jams in delivery. A requirement that the door specialist EFAFLEX also fulfils with its premium doors.

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