

# Polarteknik Door Systems



Siemens AG

A new standard of comfort  
in intercity traffic



High safety and sustainability requirements by **Siemens** and the excellent adaptability of the Polarteknik product platform ensure a robust and reliable pool of variants for Pan-European use. The customized product line creates a new concept for traveling comfort – highlighted by long-lasting quality.

Siemens is known for its high quality standards. Along with this basis, reliability, low lifecycle costs and a high rate of recyclability were also deciding factors for their choice of door supplier in their ICE4 project. Polarteknik was chosen because they are a trusted partner, with a history dating back to their Velaro products in 2005. The ICE4 project is an important milestone in a successful partnership between Siemens Mobility and Polarteknik.

### Designed for top functionality

A high level of both product and process quality were key factors in the design of the new products. The first challenge in the design of the technology was an existing system that reduced the mounting space, thus preventing the original design. Polarteknik developed a solution where lack of space neither compromised easy mounting and maintenance, nor the high component standards. The versatile product platform provides full interoperability, whilst also meeting the specific requirements of many national standards. The basic configurations are compliant in Germany and Austria, and the ten-car trains can be also configured for Switzerland. Generally, the products comply with specific requirements for other European countries such as The Netherlands, Denmark, France, Luxemburg, Poland, The Czech Republic and Italy.

### Enabling various mounting situations

A set of variants has been developed to enable various mounting situations. Tested for function, endurance and against fire, the new construction also passed the strict eye of the customer’s own quality inspector. The doors are quick and easy to assemble. They manage demanding track cant conditions and hold their strong surface coating through the years. The ecological footprint has been considered from the very start. With a recyclability rate exceeding 96%, these doors can be easily recycled at the end of their 30 year lifecycle. Polarteknik is the leading supplier for new European high speed, very high speed and intercity trains. The product range includes complete fire barrier walls, automatic single and double leaf sliding doors, as well as telescopic and curved doors. Products can be used in new, as well as refurbished passenger coaches to increase passenger comfort and safety.



**Polarteknik Door Systems is the leading European supplier of fire barrier gangway door systems for rail vehicles. These products help increase passenger comfort and safety in modern as well as refurbished passenger coaches.**

#### Siemens co-operation in a nutshell

Collaboration started: 2005

Decisive factors for door supplier:

- Reliability
- Low lifecycle costs
- High rate of reliability

Key factors in the design:

- Product quality
- Process quality

Recyclability rate: exceeds 96%

Product lifecycle: 30 years

