



Polarteknik

VHST Honeycomb partition walls with automatic door <130 kg



Metro aluminium E20 Fire partition wall with automatic door, chrome finish



HST Aluminium partition walls with automatic and manual doors



EMU HS Aluminium and glass partition wall with automatic door, 4 country homologations



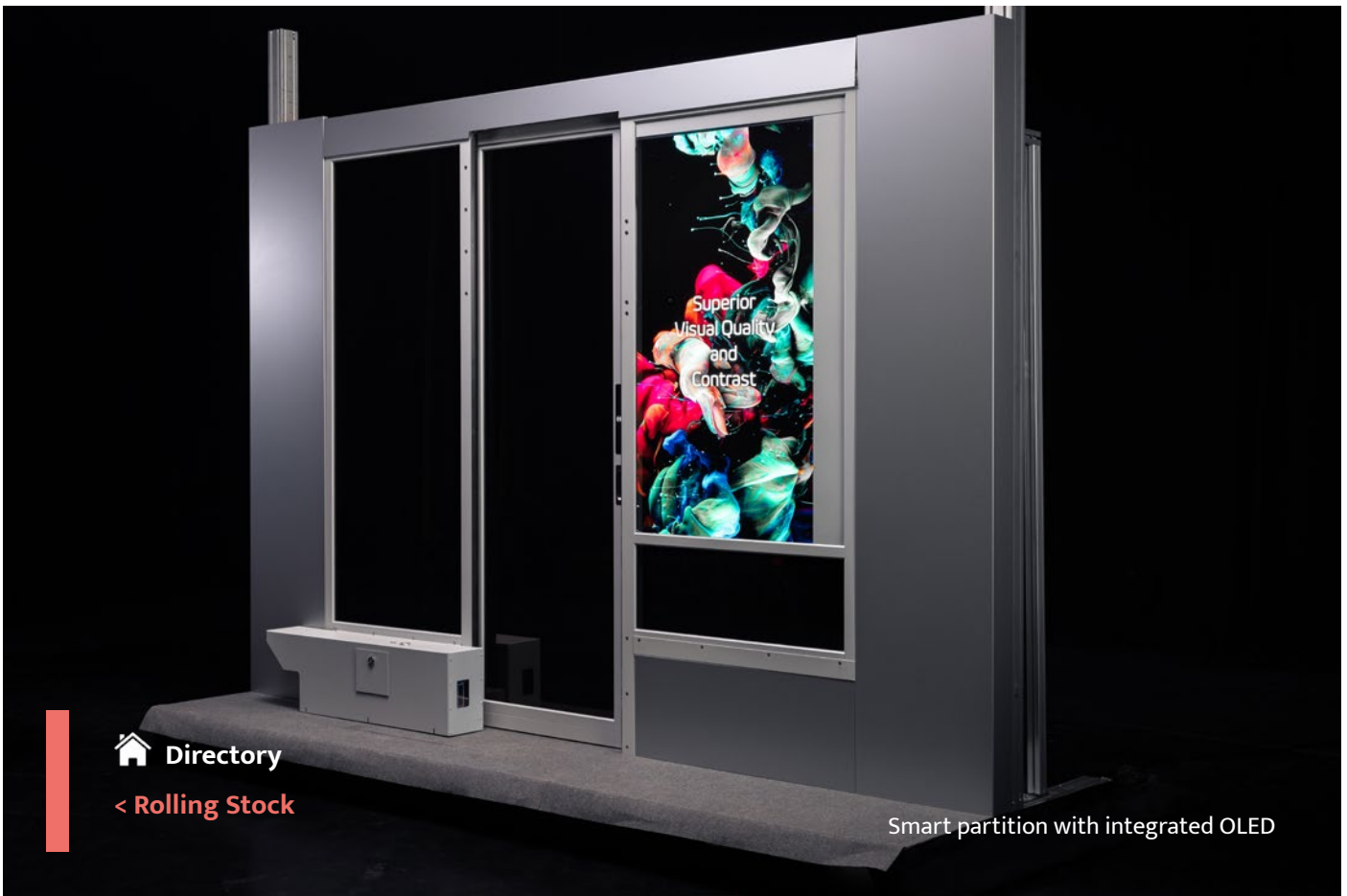
Full glass 1st Class partition wall with automatic door




Aluminium E15 Fire gangway partition wall with manual door



Dedicated to passenger flow



 [Directory](#)
[< Rolling Stock](#)

Smart partition with integrated OLED



Door System Products and Expert Services

More Safety, Reliability, Availability and Fire Integrity for Your Fleets

The Polarteknik Door Systems product range includes:

- complete fire barrier walls
- automatic single or double leaf sliding doors
- automatic telescopic doors and curved doors
- manual doors

All our products are tailored to customers' specific needs. The service portfolio includes design,

installation and commissioning support, maintenance, modernisation, spare parts and technical support during the lifetime of the fleet.

Polarteknik, a company well known for its expertise in interior door systems in intercity, high-speed and very-high-speed classes of railway rolling stock, is strengthening its position in metros to increase driver comfort and safety.

"We are happy to tie up at all tier levels to make sure the latest technology from new trains e.g. predictive maintenance, cyber security and TSI-PRM are available for refurbishments, overhauls and fleet upgrades."

Polarteknik has a very large number of different products that we have made for customer projects over 25 years. All of the key components have a strong

return on experience and are shared across all product platforms. Polarteknik is in full control of the design, manufacturing, testing and validation of the products and the customers can benefit from the consolidated sourcing made regarding key components and obsolescence management that draws from the legacy design data.

“We have over the years experienced the challenges of high mix-low volume production and made some considerable investments in production and in-sourced some of the key activities that help us reach our customers OTD requirements” says Tomi Ojala, Managing Director.

Polarteknik is involved in all of the benchmark new build train projects in Europe such as ICE4, IEP, Italo Evo, Smile, Regiolis with a strong view for the future and will strengthen our focus on service, renovation and overhaul to help keep older fleets on lease with new technology.

We are looking into new materials, components and have just finished

Gangway fire partition



developing a new control unit to facilitate cyber security requirements, predictive maintenance and IoT needs even better.

“We have had data collection for years in new fleets but now we want to provide the same value to older fleets by offering a system that can be retrofitted into older doors as an upgrade or overhaul. We have more than 80.000 Polarteknik built doors out there that could benefit from an upgrade” says Mika Korhonen, Business development director.

In addition to supplying what has been Polarteknik core competence, the door systems, the company is now one of the leading suppliers of partition walls and body end walls for rolling stock. Whether it is a highly complex motor car partition with high level of fire integrity and sound insulation requirements or a delicately designed saloon partition with open feel full glass surfaces Polarteknik can provide the solution from design to manufactured, easy to install product that is fully tailored to customers’ requirements and quality controlled according to IRIS certified quality system.

Polarteknik is ready to launch a brand new collaboration with a high quality display manufacturer by

integrating a 55” OLED display in a partition structure.

Polarteknik Smart partition is Cyber ready in terms of the door operation, communication and maintenance capabilities with the NEW D56 Door controller. The door drive is the same high quality, low LCC unit Polarteknik customers have enjoyed for years.

The OLED display has some wonderful features that make the trip enjoyable. Polarteknik can bring on augmented data from the door unit on top of the visuals the customer decides to show on the display.

It will be displayed in brilliant OLED quality, 55” size, 178 degree viewing angle, 1920x1200 resolution and Optical brightness of 150/400 nit (APL 100/25%).

With pixels off/black the glass is 38% transparent and looks like a tinted glass. The whole structure is EN61373 shock and vibration compliant.

Discover Polarteknik innovations and connect with us at www.polarteknik.fi



D56 Cyber secure door control unit