



Smart Partition Wall



FEEL THE FLOW



Plug & Play
Ready

Smart Partition Wall

Smart partition wall by Polarteknik is a value-added solution for super modern, versatile and effortless passenger compartment division. The all-new solution meets today's adaptation requirements and the need for more cyber secure, IoT ready and infotainment prepared partition.

The smart partition wall provides the acoustics and privacy assets of traditional partition walls while adding a true 'wow' effect through its transparent multipurpose OLED screen. With a polished design, the wall adds a sense of openness between the cars and keeps the travelers informed and entertained – just as desired.

- Room for more on the 55" screen
- Superb 1920x1200 resolution
- Spectacular 178° viewing angle
- Optimal 38% transparency
- Superior visual quality and contrast
- Plug & Play readiness



Polarteknik Oy is a leading European supplier of door systems for rail vehicles. Designed and manufactured in Finland, the company's door systems are perfected for railway rolling stock and always customer-tailored to meet international and national requirements.

More than three decades of accumulated experience and constant technological advancement later, the company delivers superior benchmark trainsets with customer-tailored door systems and partitions for superior safety and passenger comfort.

Smart partition wall is more-in-one

ADAPTABLE

Designed and manufactured by Polarteknik, Smart partition is the perfect fit for various train configurations. Door drive location and direction, dimensions, surface treatment and compliance validation are just some of the aspects open for customer preference and customization.

CYBER SECURE

Polarteknik's door control unit is a state-of-the-art specimen of product development. TS50701-compliant and tested for vulnerabilities, the unit enables the controller to connect through a number of network protocols. If it doesn't exist yet – we will develop it.

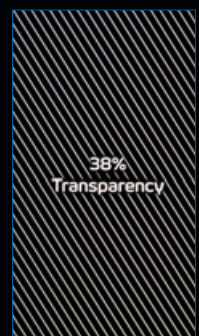
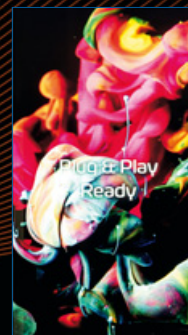


IoT READY

The system is ready for use as a data acquisition unit. Door-sourced data can be leveraged for predictive maintenance as well as onboard passenger flow planning and management.

INFOTAINMENT

The super brilliant in-built hi-res 55" display on the partition wall is railway ready and offers a superior platform for the operator to display information and commercial offers. With added travel comfort and safety, this helps passengers navigate onboard, locate services, track train location en route and view mission data, such as travel speed and upcoming stations.





Technical details

WALL		Customizable to customer requirements
Materials	EN 45545 HL 2	
Structure	EN 12663-1:2010 Cat. P-II (3g)	
Weight	200kg	
Door drive	Located on the floor or overhead	
DISPLAY		
Display area	55"	
Resolution	1920 x 1200 pixels	
Optical Brightness	150/400 nit (APL 100/25%)	
Viewing angle	178 degrees	
Transparency	38% Sunlight	
Temperature	-0 °C ~ 40 °C	
Humidity	-10% ~ 80%	
Power input	110V ~ 240V 50/60Hz	
Power Consumption	Max 318W, BTU 1054.35, DPM 3W, Power Off	
Coating	UV coating at front	
Weight	Panel 13.4kg, Signage Box 4.3kg	
Interface	HDMI(1), DP In/Out(1), IR In(1)RJ45 In/Out(1), USB(2) RS232C In/Out(1), Audio Out(1) Internal Memory(64GB), FFC Cable(1.6 meter)	
Products are designed and manufactured according to the latest International IRIS processes.		

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WE AT POLARTEKNIK

innovate | *design* | *manufacture*
tailor | *solve it and*
bring it

FOR AN ELEVATED ONBOARD
EXPERIENCE.

See the flow. **Feel the flow.** Perfect the flow.

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