

CELLO® PRODUCT PORTFOLIO



POSSIBLE APPLICATIONS AND MATCHING PRODUCTS

	1	2	3	4	5	6	7	8	9	10
	Driver's cab/ machine compartment	Underbody	Bogie/ Wheel house	Doors Window	Partition walls/ switch cabinets	Tank insulation	Side wall	Floor/ Side bottom panels	AC/ven- tilation units and ducts	Roof
PRODUCTS										
PE foam Cello® D 2600		x	x							
PES non-woven F700 FR HO ALG-01 DRAIN 2.0							x	x		
PES non-woven F800 FR HO ALG-01 DRAIN 2.0							x	x		
PE foam Cello® PE-01 ALG-04								x	x	x
PES non-woven Cello® F700 FR HO	x			x			x			x
PES non-woven Cello® F700 FR HO ALG-01	x			x			x		x	x
PES non-woven Cello® F800 FR HO ALG-01	x			x			x		x	x
PES non-woven Cello® F800 FR HO ALG-04	x			x		x	x		x	x
Heavy foil Cello® HL FIRESTOP R	x				x			x	x	
Heavy foil Cello® SBF ALG	x				x			x		
Glass-fiber Cello® 1116 ALG	x	x			x					
Melamine foam Cello® HR 290 HO/O	x			x			x			x
Melamine foam Cello® HR 290 HO ALG-04	x			x			x		x	x
Melamine foam Cello® HR 290 ALG	x			x			x		x	x
Cello® Gasket CR HD RAIL		x								
Cello® LSLT				x	x	x	x	x	x	x
Cello® Gasket LS 37	x			x	x				x	
Cello® Gasket Silicone				x*						
Cello® Pipe 800 HO ALG-04	x	x						x	x	x

Ask for our RAIL information brochure, featuring sample materials and technical data sheets, by writing to sales@cellofoam.de

CELLO® LOCATIONS

FACTORIES

GERMANY

Cellofoam International GmbH & Co. KG
88400 Biberach and
88416 Ochsenhausen
www.cellofoam.de

CZECH REPUBLIC

Cellofoam cz s.r.o.
39002 Tábor
www.cellofoam.cz

TURKEY

Cellofoam Ltd. Şti
26110 Eskişehir
www.cellofoam.com.tr

SALES OFFICES

FRANCE

Cellofoam SAS
44700 Orvault
www.cellofoam.fr

POLAND

Cellofoam Polska Sp. z o.o.
50-010 Wrocław
www.cellofoam.pl

PARTNERS WORLDWIDE

AUSTRIA
SWITZERLAND
HUNGARY
BENELUX

AUSTRALIA
CANADA
SOUTH KOREA
CHINA

HEALTH & ENVIRONMENT

Cellofoam RAIL products are physiologically absolutely safe and fully REACH compliant (as of June 2022).

The excellent hydrolysis stability and UV resistance of our non-woven materials minimize aging effects and extend the products' lifetime to at least 30 years.

Our products Cello® F700 FR HO, Cello® F800 FR, Cello® F800 FR HO are based on non-wovens made from **up to 69 % recycled fibers**, mainly former PET bottles, and are fully recyclable.



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main page



RAILWAY INSULATION MATERIALS

FOR TRAIN ENGINES // TRAMS
REGIO-TRANSIT // HIGH-SPEED TRAINS
SUBWAY VEHICLES // SPECIAL VEHICLES



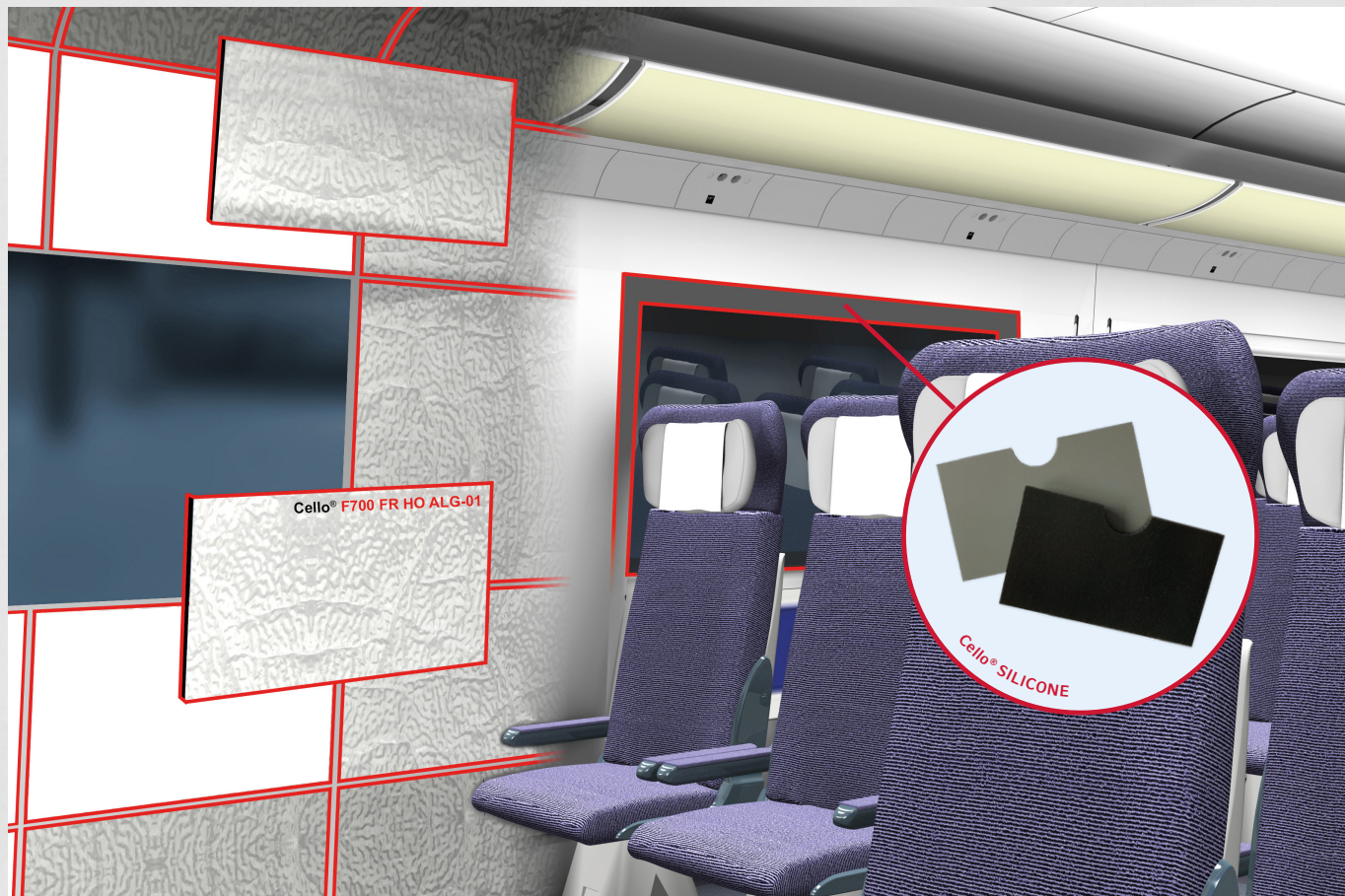
WE MAKE THE WORLD A QUIETER PLACE

Cellofoam is a leading specialist in the area of sound insulation and sound attenuation products for industrial and technical applications.

Besides major bus, rolling stock and construction machinery manufacturers, a wide range of about 1,600 industrial customers in over 70 countries across the world benefit from our advanced products and extensive acoustic know-how.

Our very durable Cello® insulation products designed specially for use in rail vehicles are the result of systematic in-company research on advanced materials, added-value material combinations and processing techniques. They comply with all European fire safety standards and provide not only excellent acoustic performance, but also highly effective insulation against heat and cold.

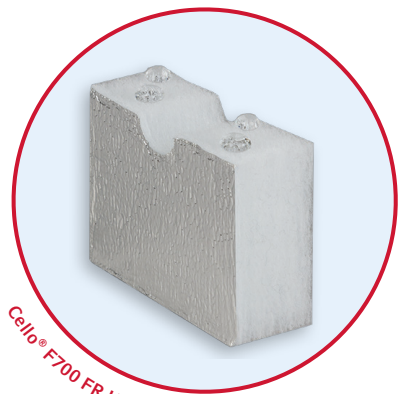




SIDE WALL & CEILING

In rail vehicles, the **side walls and the roof** need effective insulation.

Cello® F700 FR HO ALG-01, a PES non-woven with aluminum surface layer, combines outstanding sound absorption values with excellent fire performance. The corrosion-proof and anti-bacterial aluminum surface has been optimized for acoustic effectiveness.



CELLO® SILICONE

Sealing material

- Excellent sealing effect
- High temperature resistance
- EN 45545-2 requirement R22, HL3 & R10, HL3 fulfilled
- High ozone and weather resistance
- Good resistance against chemicals
- Suitable for window sealing

PES non-woven

CELLO® F700 FR HO ALG-01

- Excellent acoustic and thermal insulation
- EN 45545-2 requirement R1, HL3 fulfilled
- Optimized weight-volume ratio for particularly effective sound insulation
- Diffusion-proof aluminum foil as barrier against vapors and liquids
- Oil- and water-repellent surface layer
- Vibration resistant
- Production of customer-specific 2D/3D parts on the basis of CAD data

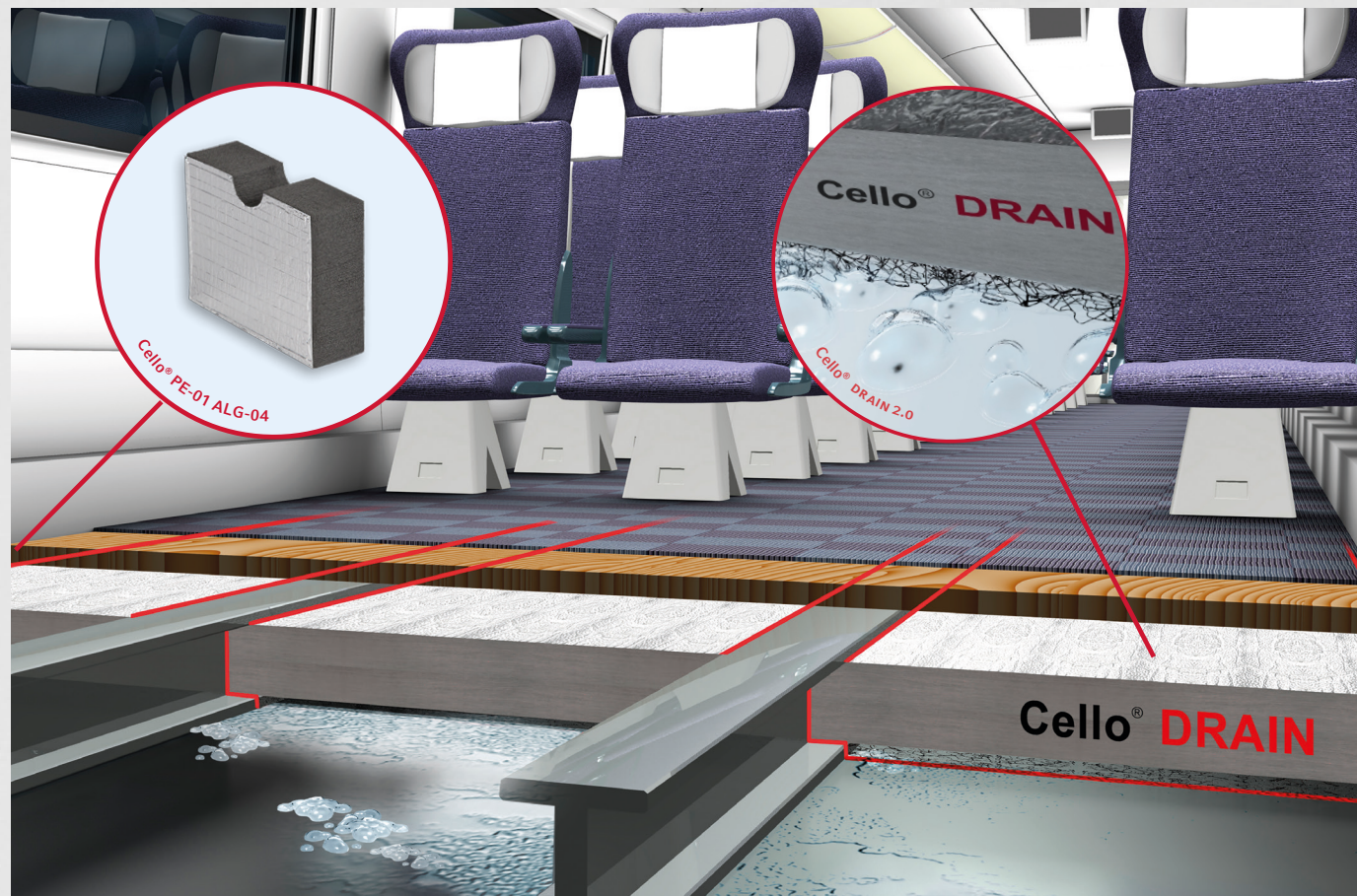
Alternative product

- HR 290 HO hydrophobic melamine foam



To the data sheet
SILICONE

To the data sheet
F700 FR HO ALG-01



FLOOR & ADJOINING WALL AREAS

The key requirements for materials installed in rail **vehicle floors** include efficient sound insulation and optimum thermal insulation.

The solution of choice here is our **Cello® DRAIN 2.0** combination product. This fire-, vibration- and crush-resistant PES non-woven offers excellent sound absorption values and is enhanced with a flexible

fiber matrix layer that allows condensation water to drain off easily in all directions. The aluminum foil surface blocks the penetration of liquids into the non-woven, preventing fungal and mold growth.

The perfect material for transition areas from floor to wall is our closed-cell PE foam with protective aluminum surface layer: **Cello® PE-01 ALG-04**.

Cello® F700 FR HO ALG-01

CELLO® PE-01 ALG-04

PE-foam

- Reflection of heat radiation
- EN 45545-2 requirement R1, HL3 fulfilled
- Closed-cell
- Low moisture absorption
- Low weight
- Effortless to cut with a cardboard cutter
- The aluminum foil prevents the penetration of dust and liquids into the foam



To the data sheet
PE-01 ALG-04



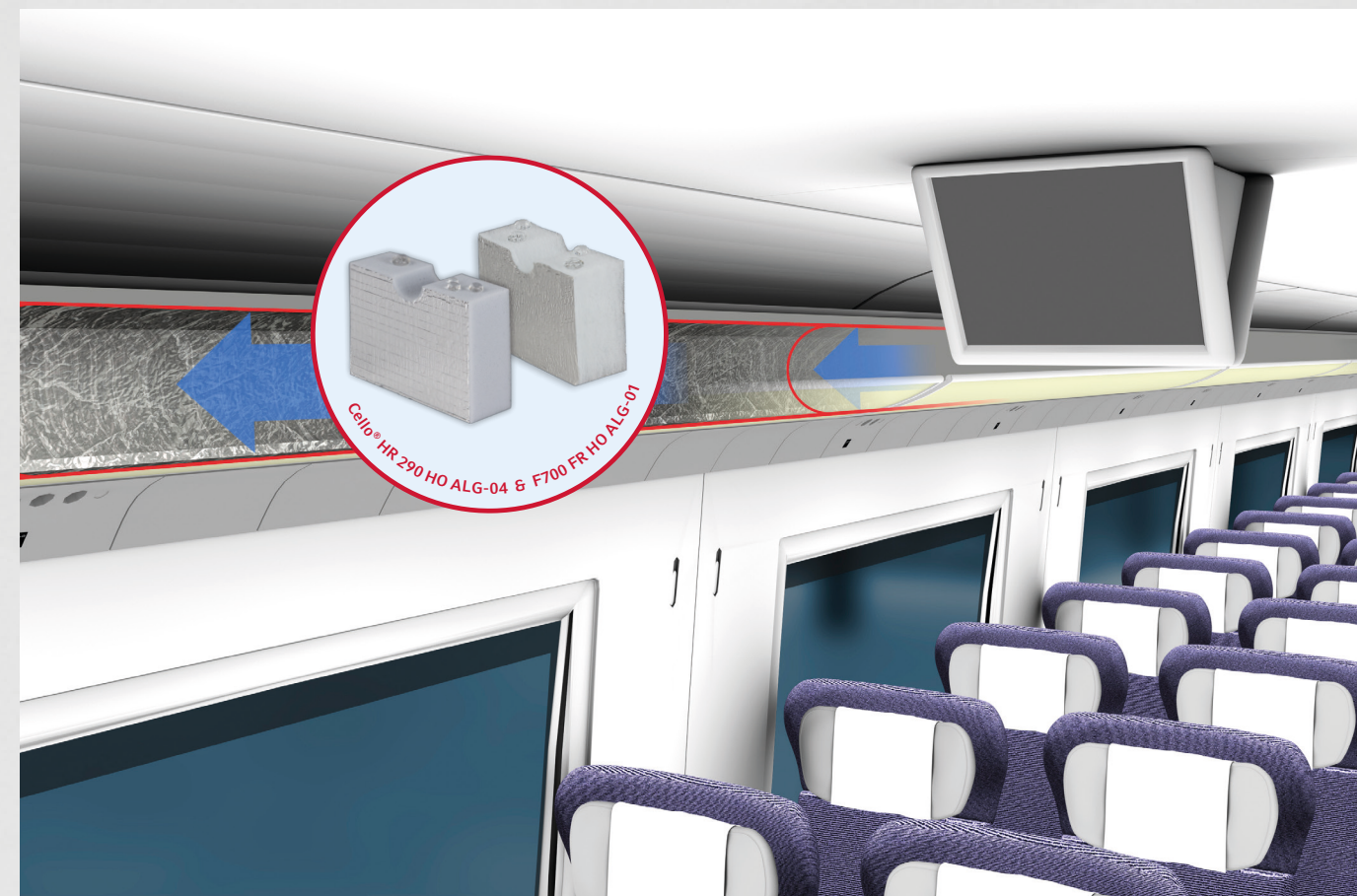
CELLO® DRAIN 2.0

PES non-woven

- Excellent acoustic and thermal insulation
- EN 45545-2 requirement R1, HL3 fulfilled
- Diffusion-proof aluminum foil as barrier against vapors and liquids
- Robust, non-crush material that withstands mechanical stress, contact side smoothed
- Ageing and abrasion-resistant matrix layer for drainage
- High shape stability in humid conditions, at extreme temperatures and in case of vibrations



To the data sheet
F700 FR HO ALG-01 DRAIN 2.0



AIR CONDITIONING & VENTILATION

Air conditioning and ventilation: We at Cellofoam have made it one of our core competencies to provide excellent insulation materials for high-performance AC and ventilation systems and air ducts.

The use of our aluminum-coated PES non-woven **Cello® F700 FR HO ALG-01** helps ensure a reliable supply of fresh and healthy air.

Its anti-bacterial aluminum surface is an effective means of preventing microbial growth in air ducts, while the non-woven minimizes the noise generated by moving air.

An alternative solution for this application is our hydrophobic melamine foam with protective aluminum surface layer: **Cello® HR 290 HO ALG-04**.



CELLO® F700 FR HO ALG-01

PES non-woven

- Excellent acoustic and thermal insulation
- EN 45545-2 requirement R1, HL3 fulfilled
- Optimized weight-volume ratio for particularly effective sound insulation
- Diffusion-proof aluminum foil as barrier against vapors and liquids
- Oil- and water-repellent surface layer
- Vibration resistant
- Production of customer-specific 2D/3D parts on the basis of CAD data



To the data sheet
F700 FR HO ALG-01



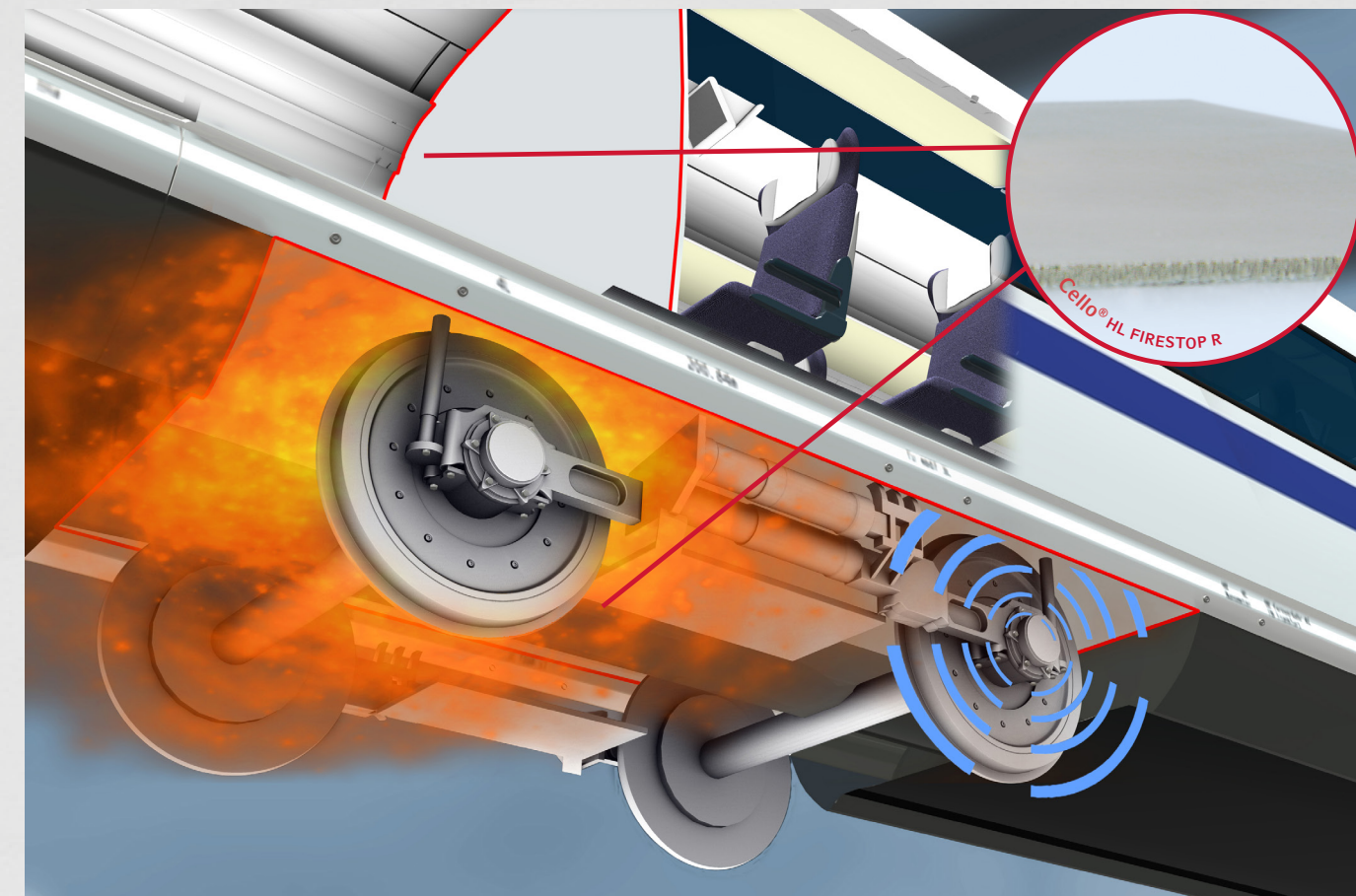
CELLO® HR 290 HO ALG-04

Melamine foam

- Excellent thermal insulation
- EN 45545-2 requirement R1, HL3 fulfilled
- Oil- and water-repellent finish
- Oil- and water-repellent surface layer
- High temperature resistance
- Scrim-reinforced aluminum foil for extra robustness and tear strength
- Low thermal conductivity
- Production of customer-specific 2D/3D parts on the basis of CAD data



To the data sheet
HR 290 HO ALG-04



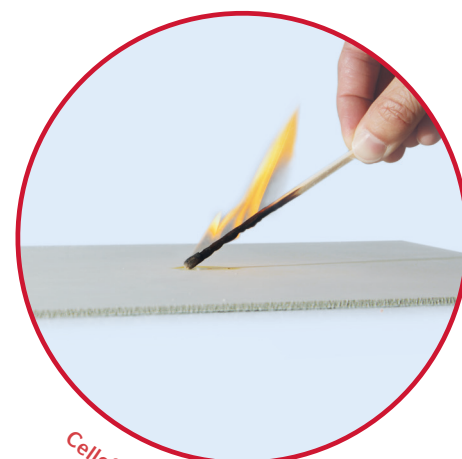
PARTITION WALLS & FLOOR

Partition walls and floor: The acoustically effective **Cello® HL FIRESTOP R** heavy layer combines three functions that are highly relevant for safety and comfort in rail travel: fire control, noise control and vibration damping.

Fire control: The fire-retardant layer with its high content of mineral fireproofing agents helps stop flame propagation and limit fire damage.

Noise reduction and vibration damping: The more lightweight the construction of a rail vehicle's floor, the more noise and vibrations can pass to its interior.

Here the use of **Cello® HL FIRESTOP R** is the perfect solution because its excellent sound insulation and attenuation values provide highly effective noise control.



Cello® HL FIRESTOP R

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HL FIRESTOP R

CELLO® HL FIRESTOP R

Heavy layer

- Effective fire barrier
- Prevention of flame propagation
- Exceptional fire performance
- Fire containment solution
- Vibration damping
- Very good sound insulation effect at a weight of only 5 kg/m²
- Low thickness: 2,5 mm
- Recyclable

Alternative product

- SBF 5 ALG heavy layer



To the data sheet
SILICONE

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F700 FR HO ALG-01



To the data sheet
PE-01 ALG-04



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F700 FR HO ALG-01 DRAIN 2.0



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F700 FR HO ALG-01



To the data sheet
HR 290 HO ALG-04



To the data sheet
HL FIRESTOP R