



# The HANNO advantages at a glance

- Simultaneous thermal and sound insulation
- Optimum acoustic and thermal climate
- Travel comfort and customer friendliness:
  Wind and vibration noise hardly penetrates into the train compartment, even at high speeds
- Relaxed and satisfied passengers
- Many years of experience ensure the highest level of expertise

Further information: See back page



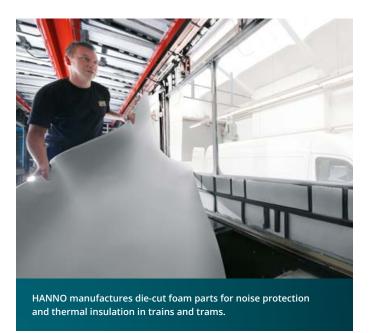
# Rail vehicles

# HANNO products for trains and trams

No rattling, no shaking, no clattering, no droning The highly effective HANNO products for soundproofing, sealing and thermal insulation keep noise in rail vehicles to a minimum.

In order to meet the special requirements of fire protection these materials are flame-retardant and tested in accordance with EN 45545.

- Do you want to get your guests to their destination in a relaxed manner?
- Do you want to construct free and not have to deal with pending bans?
- Do you want to construct sustainably and not leave an eternal footprint on the environment?
- Do you want to be innovative and set standards?



# You can rely on HANNO and our innovative products:



## Hanno®-Tect

Flame-retardant, lightweight, sound-absorbing and thermally insulating – Hanno®-Tect is available in many product variants (e.g. with an aluminum foil, oleophobic / hydrophobic adjustable).



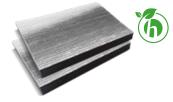
#### Hanno®-Tect-F-free

Reliably sound-absorbing, hydrophobic and completely free of PFAS.



#### Hanno®-Tect-G+-phob

Our proven Hanno®-Tect with all the excellent properties and additionally hydrophobic and oleophobic. Self-adhesive and can be laminated with an aluminum foil.



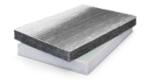
#### Hanno®-PE 16 P HF AL

Polyethylene foam with particularly high hydrolysis resistance and chemical resistance. Laminated with an aluminum foil. Can be self-adhesive. Also available with a dimpled structure in the DRY version.



# Hanno®-Tect-o-phob

An open-cell melamine resin foam. Hydrophobic and oleophobic. Ultra-flexible and lightweight (7 kg/ m³). Also available laminated with an aluminum foil.



## Hanno®-Fiber 20 and 30

All-round product with excellent properties. This polyester fiber fleece with different densities can optionally be self-adhesive and equipped with an aluminum foil.



## Hanno®-Fiber 20 H and 30 H

Sound insulation element made of a special hydrophobic polyester fiber fleece with very good airborne sound absorption. It can be self-adhesive and equipped with aluminum foil.



## Hanno®-Redusoft DI 150 FR

Hanno®-Redusoft is resistant to hydrolysis and permanently elastic for years. This makes Redusoft an excellent choice for dust, moisture and sound sealing.



