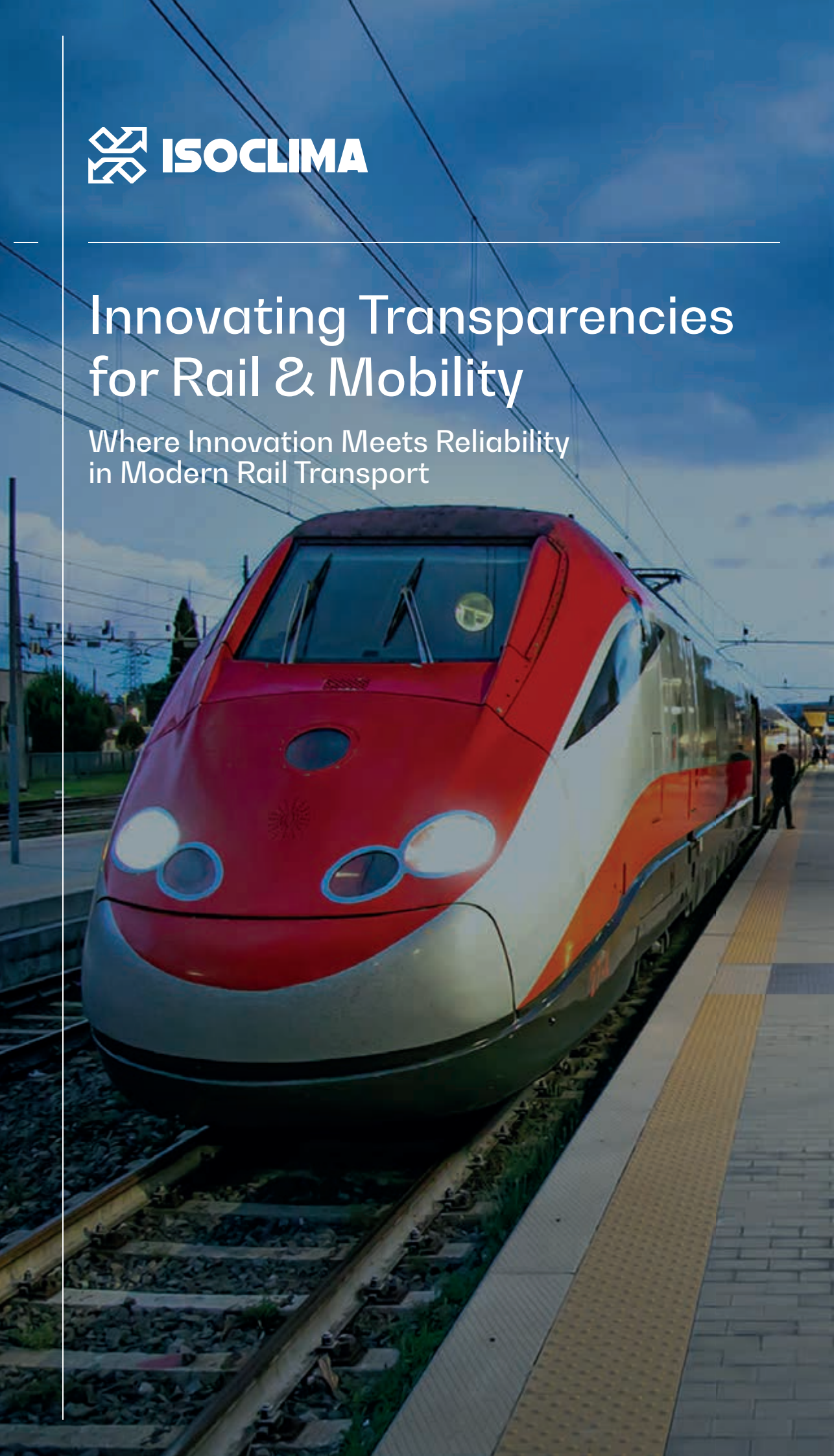




Innovating Transparencies for Rail & Mobility

Where Innovation Meets Reliability
in Modern Rail Transport





The Company



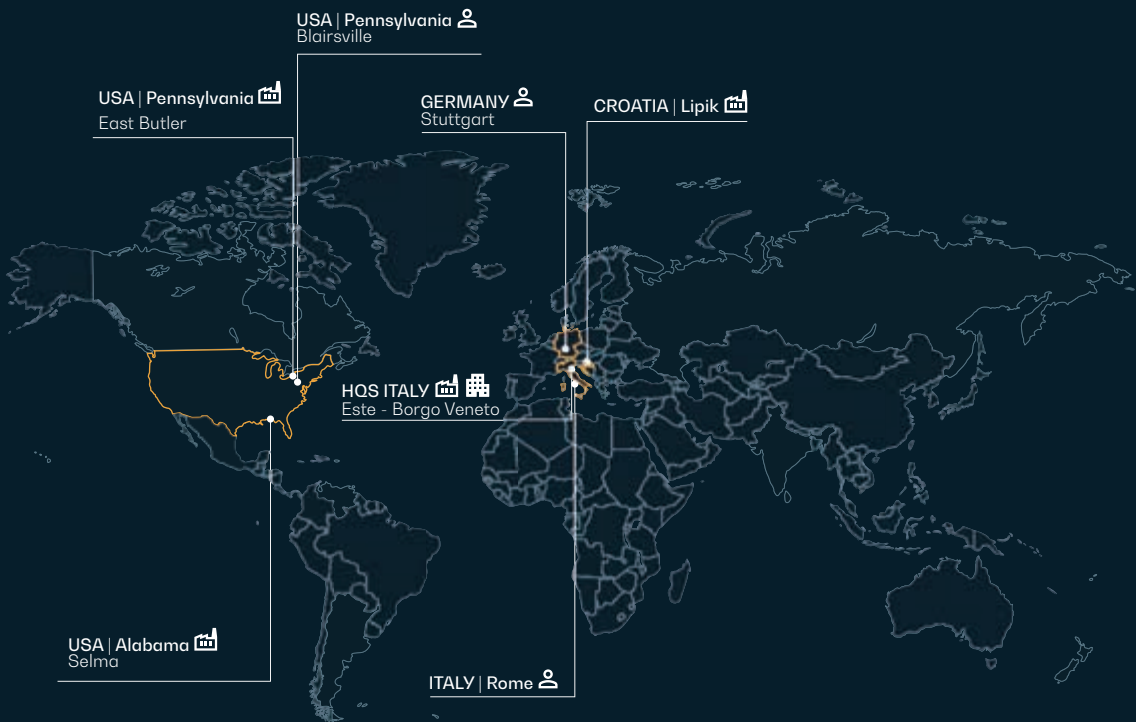
As the **world leader** in high-performance transparent solutions, Isoclima sets the benchmark for **safety, innovation** and **sustainability**.

With decades of expertise and a relentless pursuit of excellence, we craft solutions that prioritize **protection and performance** across Land, Air and Sea. Guided by a commitment to **R&D** and tailored customer solutions, Isoclima continues to lead the way in industries demanding the highest quality standards.



Our Global Presence

Isoclima's global presence is a testament to its leadership in advanced transparent solutions. With manufacturing sites and offices worldwide, we create seamless synergy across our departments, ensuring collaboration and expertise are shared across all locations. This integrated approach allows us to deliver exceptional, **high-performance solutions**, maintaining the highest standards of quality, precision and innovation in every project.



Headquarters



Manufacturing
Facilities

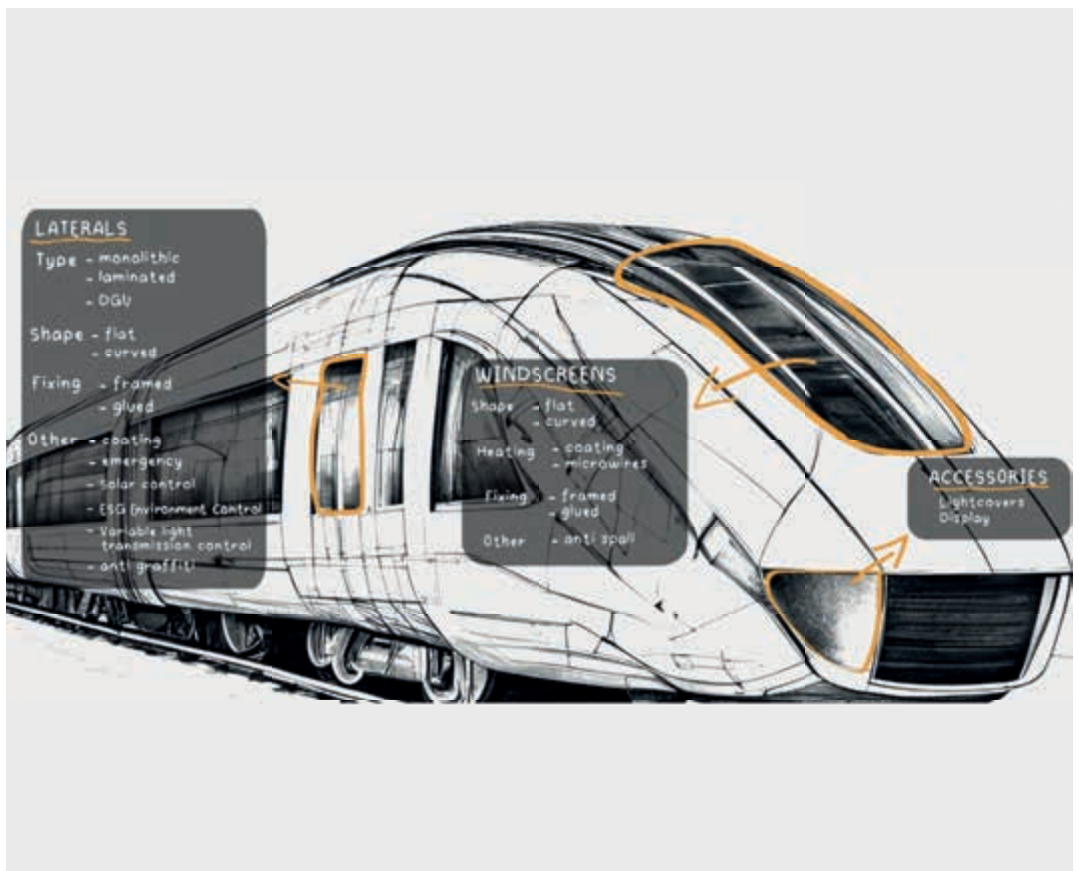


Commercial
Officers



A Legacy of Innovation and Quality

At Isoclima, **quality and innovation are at the core of everything we do**. Our expertise in advanced transparent solutions guarantees **safety, durability and optical clarity** for modern rail transport. Meeting the industry's most rigorous **certification standards**, we provide tailored glazing that enhances both passenger experience and operational efficiency. Trusted by industry leaders such as **Trenitalia, Alstom and Hitachi**, we combine **precision engineering and continuous research** to set new benchmarks in rail mobility.



Certification standards:

- ISO 22163:2023 (IRIS rev 04)
- UNI EN 17460:2022 (ex DIN 6701)
- EN 15152
- AFNOR NF F 15-818
- GM RT 2100
- BS 857
- ISO 22752



Advanced Capabilities



Anti-IR Coating

Our proprietary Anti-IR coating delivers superior comfort and energy efficiency by selectively filtering solar radiation, offering enhanced thermal management for rail vehicles.



Solar Protection Technologies

We integrate advanced solar protection elements, such as multilayer coatings and selective filters, into laminated glass. These technologies reduce UV and infrared radiation, promoting energy savings and passenger comfort.



Chemical Strengthening

We utilize **state-of-the-art ion exchange technology** to maximize mechanical strength, ensuring **consistent durability even on large curved surfaces**. Thanks to the **world's largest chemical tempering furnace**, we can produce glass up to **10 meters in length**, setting new standards in rail glazing for both safety and performance.



Magnetron Sputtering PVD

These advanced coatings enable superior light transmission, electrical conductivity and solar control, allowing for the integration of transparent heating systems with high specific power.



Thermal & Heat Strengthening

Our thermal and heat strengthening processes, can be used for both flat and curved glasses. They optimize the balance of residual stresses, ensuring durability and maintaining integrity in demanding rail applications.



Integrated Heating Systems

Our heating systems integrate seamlessly into glass structures, through invisible wire systems or electrically transparent conductive coatings to provide de-icing and defrosting capabilities.



Acoustic and Vibration Insulation

By carefully designing the glazing cross-section, we reduce sound transmission across critical frequencies, vibration and resonances, delivering superior acoustic insulation for rail environments.





Innovative Products

— IsoLite®

Using PDLC (Polymer Dispersed Liquid Crystal) film, IsoLite® transforms from transparent to opaque instantaneously, offering unmatched privacy and light control for interiors and high-security applications.

— Cromalite®

Using SPD (Suspended Particle Device) technology, Cromalite® dynamically adjusts light transmission, making it ideal for privacy and solar control across automotive, architectural and rail applications.



Our Commitment to Sustainability

At Isoclima, **sustainability** is at the core of everything we do. Through continuous innovation, we reduce the environmental impact of our solutions while maintaining exceptional performance. Key sustainability initiatives include:

- **Solar radiation control systems** to filter UV and infrared rays, reducing energy consumption and emissions.
- **Weight and thickness reduction** to minimize material use and improve energy efficiency during operation.
- Ongoing efforts to align with **ESG (Environmental, Social, Governance)** principles, ensuring our products contribute to a more sustainable future.

These initiatives not only protect the planet but also enhance **end-user comfort**, delivering practical benefits like reduced interior heat and lower energy costs for air conditioning.





Why Choose Isoclima?

At Isoclima, security, protection and innovation are at the core of everything we do. We combine **cutting-edge technology**, **aesthetics** and **customization** to meet the highest industry standards.



— Isoclima glass processing

From **Defense** and **Security** to **Sustainable Architecture** and **High-Performance Mobility**, our expertise spans multiple sectors, delivering tailored, future-ready solutions that anticipate evolving needs. With a relentless focus on **safety**, **performance** and **innovation**, we help shape a more secure and advanced world.



Connect with Us

Get in touch with our experts and choose the future of transparent solutions.

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