



Terrix Brick Slip System vs. External Wall Metal Rail Brick Slip System:

A Comparative Review

When it comes to modern brick slip facade solutions, both the **Terrix Brick Slip System** and the **External Wall Metal Rail System** offer compelling features. However, each system caters to different priorities, including installation efficiency, environmental impact, long-term performance, and cost. This review examines these systems side by side, highlighting their strengths and the greener advantages of Terrix.

1. Installation Efficiency

- **Terrix Brick Slip System:**
 - **Faster and Simpler:** The adhesive-based system is quick to apply, requiring fewer materials and less skilled labour. This reduces the overall time spent on-site.
 - **Labour and Travel:** Fewer visits to the site are needed, which cuts down on transportation emissions and labour hours.
 - **Minimal Power Use:** The installation process consumes less on-site power, such as electricity for tools, further reducing environmental impact.
- **Metal Rail System:**
 - **Complex Installation:** The metal rail system requires precise alignment of rails and mechanical fixing of brick slips, demanding more labour and specialized skills.
 - **Higher Power Use:** The installation often involves significant on-site energy consumption, from drilling to handling heavier materials.

Terrix streamlined process ensures quicker installation with reduced environmental impact and lower labour demands.

2. Environmental and Green Benefits

- **Terrix Brick Slip System:**
 - **Low Waste:** Pre-measured materials and a straightforward adhesive process generate minimal waste on-site.
 - **Reduced Maintenance:** No repointing or significant post-installation upkeep is required, reducing long-term material consumption and associated labour.
 - **Lower Emissions:** Reduced need for heavy tools, transport, and maintenance leads to a smaller carbon footprint.
 - **• Energy-Saving Potential:** Integrates well with energy-efficient systems, contributing to green certifications like LEED and BREEAM.
 - **• Recyclable Materials:** Easier to reclaim and recycle in line with circular economy goals.

Metal Rail System:

- **Waste Levels:** The mechanical fixing method generates more waste, including excess rail components and cuttings.
- **Higher Post-Maintenance Needs:** Jointing elements may require periodic inspection and repair, increasing long-term environmental impact .Repointing will be necessary .Fixings are at fix due to wind loadings.

3. Sustainable structural Impact and Weight

- **Terrix Brick Slip System:**
 - **Lightweight Design:** The adhesive-based system is much lighter than metal rail solutions, reducing the structural load on buildings. Typically, Terrix systems weigh significantly less per square meter, making them easier to transport and handle.
 - **Versatility:** Lightweight nature allows for easier application on a range of surfaces, including curved or retrofitted structures.
- **Metal Rail System:**
 - **Heavier Components:** The metal framework adds significant weight, often requiring structural reinforcement and increasing material use. The combined weight of metal rails and brick slips can be substantially higher than adhesive-based systems, impacting logistics and construction time.

Terrix lightweight construction is more versatile and eco-friendly.

4 . Thermal and Moisture Performance

- **Terrix Brick Slip System:**
 - **Integrated Insulation** : The system typically includes a mineral wool insulation material enhancing the building's thermal performance .
 - **Reducing heat loss** :Thermal Insulation system ,Works seamlessly with modern insulation panels, significantly reducing heat loss through walls. The system supports high-performance energy-efficient facades that retain heat in winter and reflect excessive heat in summer.
- **Energy Efficiency:** Ideal for meeting modern building regulations and improving a building's overall energy performance.
 - **Enhanced Breathability:** Often paired with breathable adhesive and insulation systems, allowing moisture vapor to escape from the building envelope. This prevents damp issues and improves indoor air quality.
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 - **Moisture Resistance:** Weatherproof coatings prevent water ingress effectively.
- **Metal Rail System:**
 - **Ventilated Cavity:** The system includes a cavity for ventilation, improving moisture management in high-performance facades.
 - **Separate Insulation:** Insulation is installed as an additional layer, which can offer flexibility but adds complexity .
 - The system offers minimal breathability

5. Cost and Long-Term Value

- **Terrix Brick Slip System:**
 - **Lower Upfront Cost:** With fewer components and a simpler installation process, the initial investment is significantly lower.
 - **Minimal Maintenance Costs:** No repointing is needed, and long-term upkeep is minimal.
- **Metal Rail System:**
 - **Higher Initial Investment:** The complex installation and heavier materials result in higher upfront costs. Fire breaks and extra risk factors have to be considered.

- **Ongoing Maintenance:** Periodic inspections and repairs to jointing elements ,ongoing repointing is necessary add to long-term expenses .Loss of brick slips due to weak fixings or high winds .

6. Aesthetic and Versatility

Terrix Quart Brick Slip System:

- **Wide Design Range:** Offers varied finishes, colours, and textures, ensuring consistent aesthetics tailored to modern and traditional designs.
- **Customizable:** Ideal for both heritage and contemporary projects without the bulk of traditional brick.

Specialist detailing is easily achievable in any design

Metal Rail System:

Good Aesthetics can be achieved .Complex features are difficult to achieve ,like curves ,dog toothing ect .

FT Terrix summary

Conclusion

Our Quartz Brick Slip System offers a superior alternative for modern construction, new builds particularly for projects prioritizing sustainability, energy efficiency, and streamlined construction processes. Breathable properties, combine with the ability to reduce heat loss, supports environmentally conscious and cost-effective building solutions .The lightweight design, reduced labour and material demands, and minimal maintenance requirements make it an eco-friendly solution for both new builds and retrofits.

CRS measures training locally unskilled people an opportunity to apply these systems.

While the **Metal Rail Systems** brick slip can retain its charmfull ascetics ,these systems fall short in meeting modern demands for efficiency and eco-friendliness .is durable and ideal for high-performance facades, its heavier environmental impact and significantly higher costs

To purchase and install ,makes for a less greener and less cost-efficient construction .

Summary Table

Feature	Terrix Brick Slip System	Metal Rail Brick Slip System
Installation Efficiency	Quick, simple, minimal labour and power ,logistics	Complex, slow and labour-intensive, high power use
Environmental Impact	Low waste, reduced emissions, no repointing	Higher waste, more emissions
Structural Requirements	Lightweight, minimal structural impact	Heavier, requires robust structure
Weight	Lightweight, easy to transport	Heavier, significant structural load
Thermal Performance	Integrated insulation, weatherproof	Ventilated cavity, separate insulation ,cold bridging risks
Cost	Lower initial cost, minimal maintenance	Higher initial cost, ongoing maintenance
Health & Safety	Safer handling, less equipment risk	Heavier components, more risks



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