Antimicrobial Handrail for Escalators and Moving Walks

Escalator handrails represent a high-traffic touchpoint where the public can be directly exposed to germs and other harmful bacteria. Increase safety and give your passengers peace of mind with NT AMRail™, EHC Global’s thermoplastic handrail with built-in antimicrobial protection for escalators and moving walks.

Developed by EHC Global, NT AMRail™ features an antimicrobial additive that inhibits the growth of bacteria including Staphylococcus aureus (S.aureus) and Escherichia coli (E.coli). NT AMRail™ encourages passengers to hold the handrail, which is one of the most effective ways to mitigate risk and personal injury on escalators and moving walks. Optional permanent branding on the handrail informs the passenger that the handrail is antimicrobial and also serves as a motion and physical distancing indicator.

70% of consumers surveyed stated they would be more likely to hold a handrail that was antimicrobial

The NT+ Advantage

NT handrail has been engineered to provide improved performance and enhance safety, wayfinding, aesthetics, and brand activation.

- High-gloss finish requires minimal maintenance
- Tough surface withstands damage from vandalism and will not trap dirt or grease
- Low-friction slider reduces noise and eliminates static electricity build-up
- Shorter field splicing time compared to rubber
- Available in standard and custom colours
- Recyclable

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How NT AMRail™ Works*

- When microbes are near surface of protected handrail, the active ingredient electrically depolarizes the microbes’ membrane and thus inactivates them
- Suppresses formation of bad odours
- Provides permanent and durable protection

*The active ingredients in AMRail™ are intended to protect the handrail product from microbial degradation, not specifically to reduce the risk of bacterial transmission from person to person

JIS Z 2801 Test Results*

- 99.97% reduction of Staphylococcus aureus (S.aureus) with no recovered bacteria
- 99.96% reduction of Escherichia coli (E.coli) with no recovered bacteria

*based on static articles testing at room temperature; has not been verified on real-world escalator conditions.

NT AMRail™ Production Process

The antimicrobial additive in NT AMRail™ is combined with the TPU pellets during the handrail production process.

Safety+ Integrated Safety Solutions for Escalators and Moving Walks