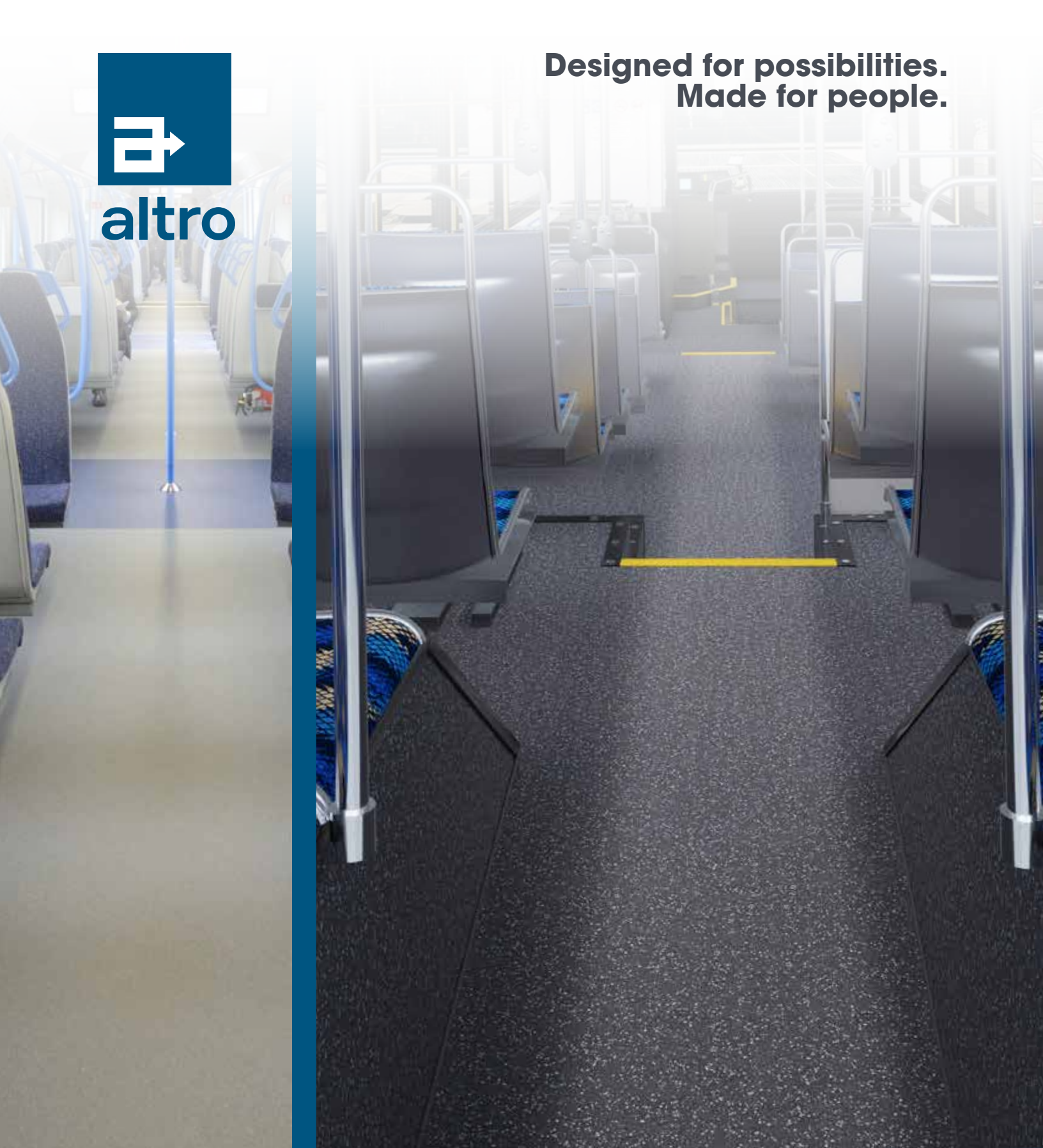




**altro**

**Designed for possibilities.  
Made for people.**



## **Capabilities brochure**

Lightweight safety flooring for the  
global bus and rail industry

**altro.com**

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# Introduction

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Altro has been creating and manufacturing high quality transport flooring for over 60 years. Driven to transform everyday spaces for the people who use them, design-led innovation is at the heart of everything we do.

We help create environments for passengers which are both inviting and safe by partnering with the industry's leading bus, coach, and rail builders globally.

Altro's unique perspective considers how our floors can perform at their best, both in service and at installation.

We partner with manufacturers and operators to provide solutions designed to enhance passenger experience and add efficiencies to assembly and maintenance.

Our collaborative approach allows customers to create vehicle interiors that tick all the performance boxes: safety, durability, comfort, and an attractive environment for passengers.

We share our customers' vision of making vehicles and fleets a more appealing, convenient and environmentally-conscious way to travel, so you can deliver the on board experience modern passengers expect.





**NEW**

**You asked for lightweight...  
we delivered**

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# The lightest 2.2mm and 2.7mm bus floors available

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We have reduced the weight of Altro Transflor Meta™, Altro Transflor Chroma™ and Altro Transflor Figura™ by 20%\* and you now have a choice for the lightest 2.2mm or 2.7mm heavy duty safety floor. We've also made sure they remain as safe as ever with uncompromised slip resistance.

As a business Altro is driven by a philosophy of continuous improvement. Our products are engineered to solve real world problems in interior spaces and enhance passengers' overall travel experience.

With environmental factors such as the growing need to increase public transport usage and the transition to alternative fuels at the forefront of operators' minds, we've taken the industry's most highly regarded floor coverings and made them even better for a brighter future.

Lighter weight vehicle components contribute to greater fuel economy and facilitate the uptake of zero-carbon fuels, making for a more environmentally-conscious mode of transport.

Better still, we have achieved this remarkable weight saving with no compromise on safety with all products mitigating slip risks to an industry best one in a million. No other product offers comparable weight savings and slip resistance in a high durability, heavy duty variant.

\*Calculations based on new product weight in comparison to 2017/2018 product weight.

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# Performance

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Like any interior component, Altro transport floors are designed to work in harmony to support a vehicle's overall interior design. All of our transport floors are intelligently engineered to provide maximum performance which is sustained even when subjected to the most challenging service demands.

## Slip-resistant

Our bus flooring portfolio is designed to cater to a range of applications. A variety of product constructions are used across our safety and design-led products to provide the right level of protection for your vehicle, no matter the usage.

## Durable

Transport vehicles incur extremely high levels of concentrated foot traffic, so hardwearing durability is a necessity of any floor. Altro is constantly working to engineer the most highly resilient transport floors which are designed to withstand the most demanding service programs – a quality backed up by warranties that cover the life expectancy of the vehicle. For our highest level of protection, ask about our 2.7mm Heavy Duty Plus products.

## Lightweight construction

Our bus and rail floors are specifically engineered to offer a lightweight solution without compromising on any other performance qualities. Choose an Altro floor to support the move away from fossil fuelled vehicles while maintaining excellent slip-resistance and design options on board.

## Impermeable

Even if contaminants are brought on board a vehicle, Altro transport floors continue to perform. The construction of our products, combined with heat welded installation techniques, makes them impervious to the ingress of water and dirt, protecting vehicle subfloors from damage and preventing the need for costly repairs.

## Services

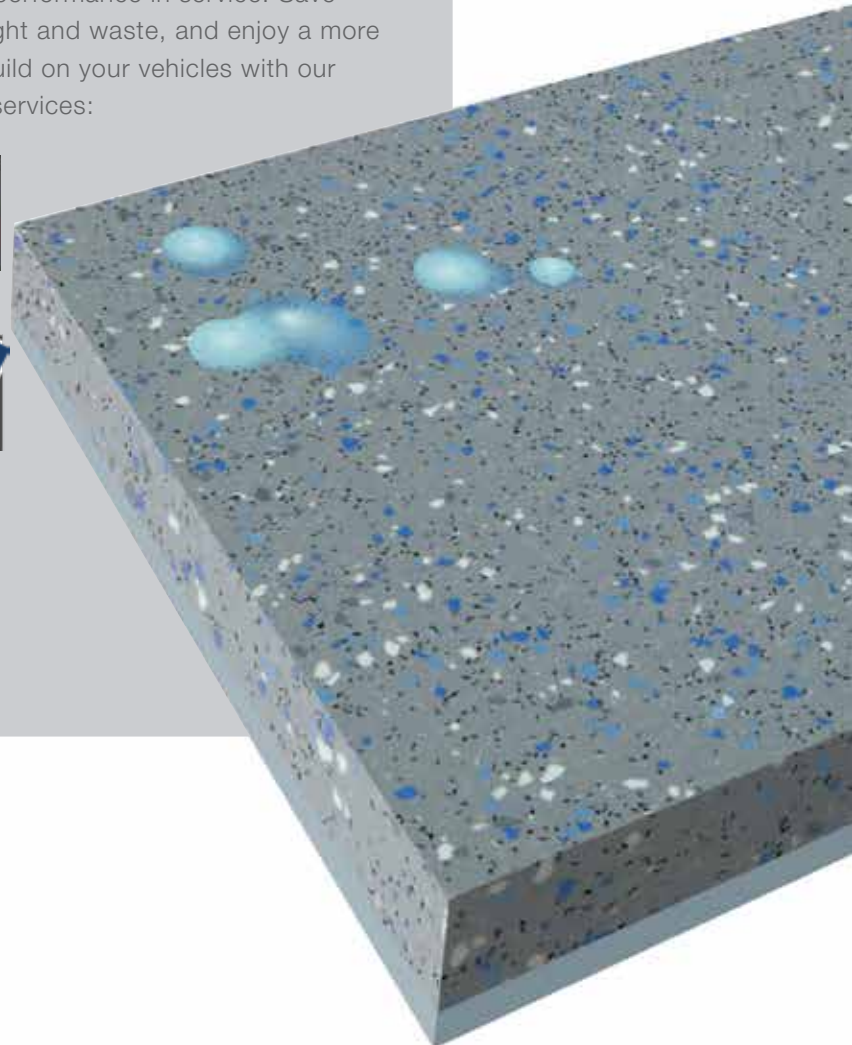
Altro offers a range of installation services to streamline the installation process and enhance performance in service. Save time, weight and waste, and enjoy a more reliable build on your vehicles with our range of services:



Logos



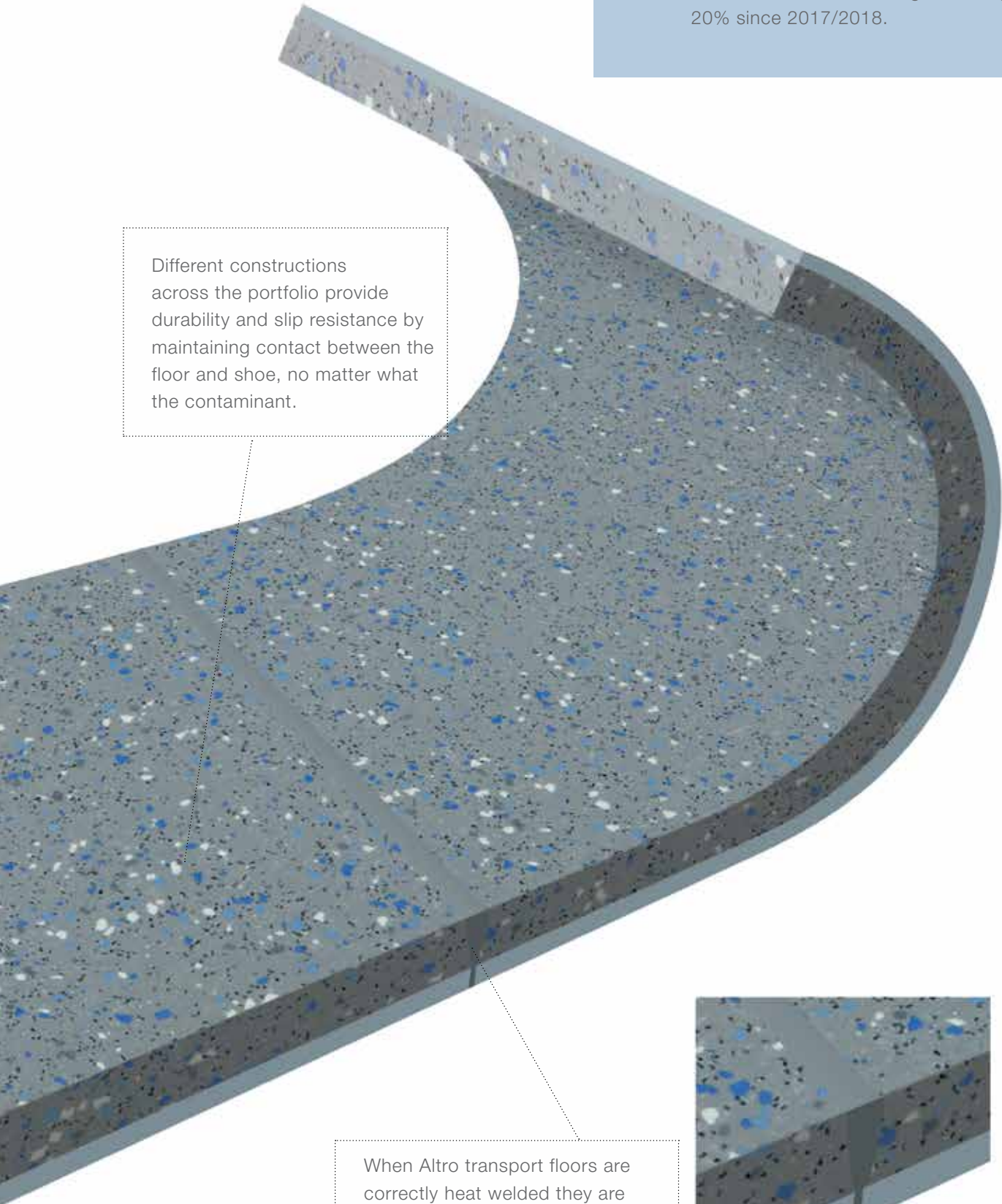
Pre-cut flooring



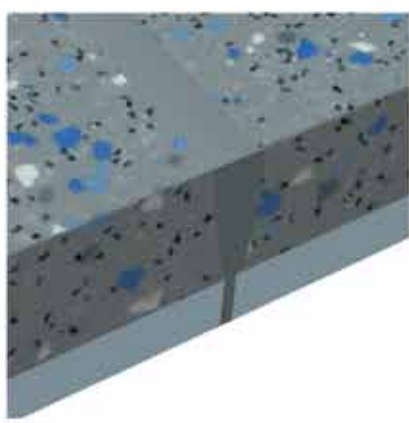


## Did you know?

We have reduced the weight of our products by 20% since 2017/2018.



Different constructions across the portfolio provide durability and slip resistance by maintaining contact between the floor and shoe, no matter what the contaminant.



When Altro transport floors are correctly heat welded they are completely impervious to water for long-term subfloor protection.



# Introducing Heavy Duty Plus

Why compromise on weight or durability when you can enjoy the benefits of both? Altro's Heavy Duty Plus (HD<sup>+</sup>) range of 2.7mm safety floors are engineered for heavy bus applications.

Choose HD<sup>+</sup> for:

- Robust surface resilience
- Excellent slip resistance
- Exclusive aggregates
- Comfort underfoot
- Naturally hygienic
- Strongest ever construction
- Our best ever lightweight technology

Specifically engineered to meet the diverse challenges of the modern heavy bus market, our new lighter weight 2.7mm Heavy Duty Plus (HD<sup>+</sup>) and 2.2mm Heavy Duty flooring variants deliver enhanced durability with a reduction in weight.

Developed to offer the optimum balance of lightweight technology, surface resilience, slip resistance and comfort underfoot, our HD<sup>+</sup> ranges let you take the next step in safety flooring.

Available across our trusted collection of Altro Transflor Meta, Altro Transflor Chroma, and Altro Transflor Figura products and supported by a 15-year non-prorated warranty, the HD<sup>+</sup> ranges are our hardest working floors for the hardest working vehicles.

Your fleet deserves the best - put a plus on your bus.







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## Longer lasting looks

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Altro floors have always been known for their hard wearing durability, but with the latest improvements, they are now even stronger than ever.

With significant improvements made to strength and an up to 110% increase in scratch resistance, Altro floors are now even better at retaining their long term visual appearance to better support ease of maintenance. This ensures that - with proper cleaning - floors stay looking great to provide the on board environment contemporary passengers expect.

With on board cleaning and hygiene now a bigger concern than ever, it's reassuring to know that Altro bus floors are equipped to support the most rigorous cleaning programs. In addition to the benefits achieved through improved durability, vinyl floors are also naturally hygienic – in line with the latest industry demands.

As an inert material, vinyl does not encourage the growth of bacteria in the same way other materials do. Furthermore, as a non-porous material with high impact resistance it prevents cracks and chipping which can trap bacteria.





## Greater performance

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- Tensile strength increased by up to 15%
- Elongation strength increased by up to 20%
- Weight reduced by up to 20%
- Scratch resistance improved by up to 110%
- Tear propagation strength improved by up to 40%

### Making the difference

Improvements made throughout the entire thickness of Altro floors provide improved strength and durability, while maintaining outstanding slip resistance.

The results of these advancements mean that our floors are now stronger than ever before, enabling our floors to withstand even greater service wear.

The collective advancements have been achieved through a combination of enhanced raw materials and manufacturing innovation. This means that Altro floors still look as good as ever, but beneath the surface they're performing even better.

They can now withstand even greater punishment from both foot and wheel traffic and general wear and tear. In addition to this, the newly enhanced material - when correctly welded - will also facilitate a greater level of fusion between floors and weld rods to contribute to stronger seams.

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# Safety without compromise

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What are the chances of a passenger slipping on a moving vehicle?

With Altro safety floors for transport, it's as small as one in a million.\*

As the inventors of safety flooring, Altro creates specific products that directly address the costly risks presented by potential slips and falls.

Our safety floors for transport are specifically engineered to meet the world's most stringent safety standards.

\*CIRIA, Safer Surfaces to Walk on

## Maintaining contact

The presence of surface contaminants – in even the smallest amounts – can reduce contact between the floor and the sole of passengers' shoes. When subjected to the downward pressure of passengers' feet, the aggregates in Altro safety floors are able to penetrate surface contaminants to maintain the contact between the floor and the shoe.

How it works:

Exclusive aggregates in the floor, aided by the floor's unique emboss, maintain contact with passengers' shoes even when contaminants are present, whether they're wet or dry. No matter what is tracked inside a vehicle, your passengers and staff are protected from slips.

## Sustained performance

Our safety products are engineered to meet the most stringent safety recommendations worldwide, including London's Bus Safety Standard. All Altro safety bus flooring products are created with effective and sustained slip resistance, achieving an ex-factory pendulum test value of  $\geq 36$ , rising to  $\geq 40$  after six months, without the need for any surface additives.





### Did you know?

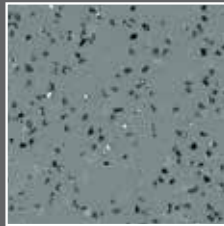
Altro's safety range for transport is engineered to meet the world's strictest safety standards.



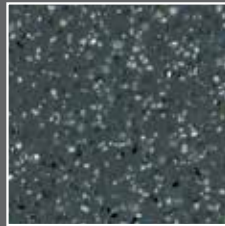
Altro Transfor Meta™ in Radial

# Altro Transflor Meta™

A lightweight, chip-free bus floor with excellent sustained slip resistance engineered for resilience and top performance, with simplicity and practicality.



Pewter Grey  
TFM2289 (2.2 mm)  
TFM2789 (2.7 mm)  
WR81 / AM81 / LRV 25



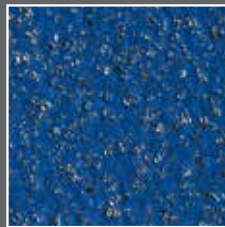
Storm  
TFM22903 (2.2 mm)  
TFM27903 (2.7 mm)  
WR82 / AM82 / LRV 16



Midnight  
TFM22421 (2.2 mm)  
TFM27421 (2.7 mm)  
WR72 / AM72 / LRV 8



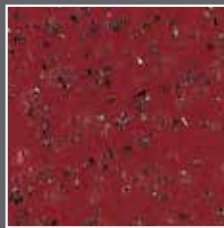
Genome  
TFM2202 (2.2 mm)  
TFM2702 (2.7 mm)  
WR83 / AM83 / LRV 15



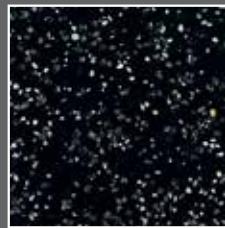
Supra  
TFM22913 (2.2 mm)  
TFM27913 (2.7 mm)  
WR102 / AM200 / LRV 9



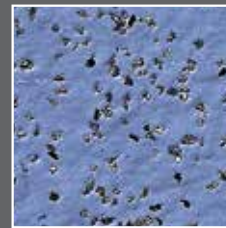
Radial  
TFM2206 (2.2 mm)  
TFM2706 (2.7 mm)  
WR39 / AM73 / LRV 7



Torino  
TFM2274 (2.2 mm)  
TFM2774 (2.7 mm)  
WR248 / AM238 / LRV 10

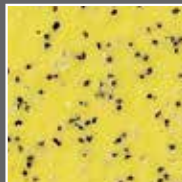


Black  
TFM22892 (2.2 mm)  
TFM27892 (2.7 mm)  
WR100 / AM100 / LRV 7

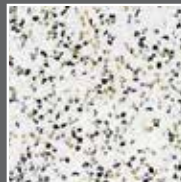


Diablo  
TFM2275 (2.2 mm)  
TFM2775 (2.7 mm)  
WR249 / AM249 / LRV 9

## Accent and safety colors



Safety yellow  
TFM2229 (2.2 mm)  
WR08 / AM200 / LRV 46



Safety white  
TFM2200 (2.2 mm)  
WR01 / AM01 / LRV 58

Compatible with:



LRV = Light Reflectance Value  
AM = Mastic  
WR = Weld rod



2.7 mm

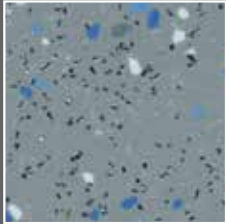


2.2 mm

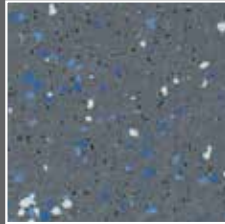


# Altro Transflor Chroma™

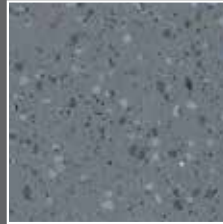
A lightweight, chipped bus floor with excellent sustained slip resistance engineered for resilience and top performance, with simplicity and practicality.



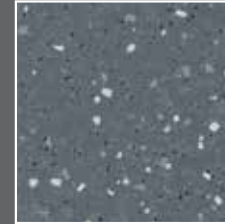
Strada  
TFCR2263 (2.2 mm)  
TFCR2763 (2.7 mm)  
WR81 / AM81 / LRV 26



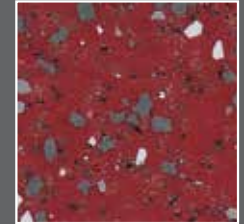
Cayman  
TFCR2261 (2.2 mm)  
TFCR2761 (2.7 mm)  
WR83 / AM83 / LRV 14



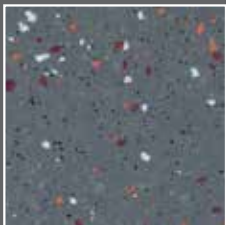
Mineral  
TFCR2230 (2.2 mm)  
TFCR2730 (2.7 mm)  
WR83 / AM83 / LRV 16



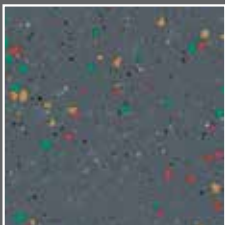
Tuscan  
TFCR2278 (2.2 mm)  
TFCR2778 (2.7 mm)  
WR83 / AM83 / LRV 14



Sprint  
TFCR2274 (2.2 mm)  
TFCR2774 (2.7 mm)  
WR248 / AM238 / LRV 12



Viper  
TFCR2265 (2.2 mm)  
TFCR2765 (2.7 mm)  
WR83 / AM83 / LRV 14



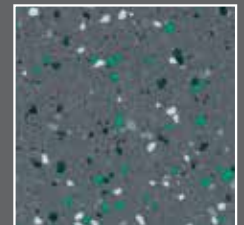
Cyber  
TFCR2202 (2.2 mm)  
TFCR2702 (2.7 mm)  
WR83 / AM83 / LRV 14



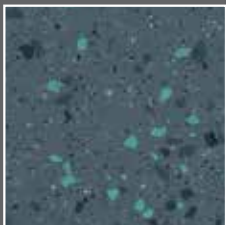
Gene  
TFCR2203 (2.2 mm)  
TFCR2703 (2.7 mm)  
WR72 / AM72 / LRV 8



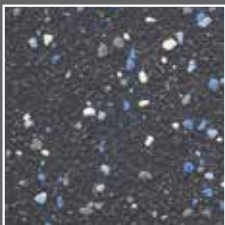
Forester  
TFCR22904 (2.2 mm)  
TFCR27904 (2.7 mm)  
WR474 / AM308 / LRV 12



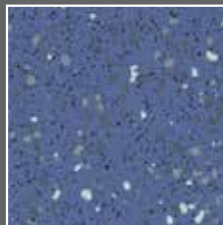
Sigma  
TFCR2282 (2.2 mm)  
TFCR2782 (2.7 mm)  
WR83 / AM83 / LRV 14



Zeal  
TFCR2233 (2.2 mm)  
TFCR2733 (2.7 mm)  
WR83 / AM83 / LRV 15



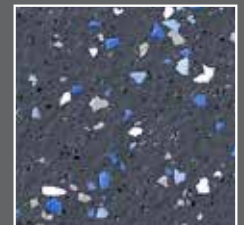
Patriot  
TFCR22908 (2.2 mm)  
TFCR27908 (2.7 mm)  
WR101 / AM72 / LRV 10



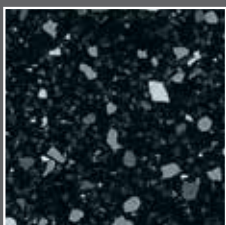
Quattro  
TFCR2275 (2.2 mm)  
TFCR2775 (2.7 mm)  
WR249 / AM249 / LRV 15



Lancer  
TFCR22914 (2.2 mm)  
TFCR27914 (2.7 mm)  
WR102 / AM200 / LRV 9



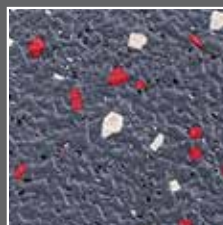
Capri  
TFCR2260 (2.2 mm)  
TFCR2760 (2.7 mm)  
WR231 / AM73 / LRV 11



Phantom  
TFCR2272 (2.2 mm)  
TFCR2772 (2.7 mm)  
WR100 / AM100 / LRV 7



Frontier  
TFCR22905 (2.2 mm)  
TFCR27905 (2.7 mm)  
WR62 / AM62 / LRV 10



Acadia  
TFCR22001 (2.2 mm)  
TFCR27001 (2.7 mm)  
WR83 / AM83 / LRV 14

Compatible with:



LRV = Light Reflectance Value  
AM = Mastic  
WR = Weldrod





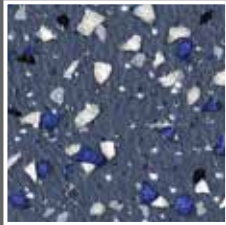




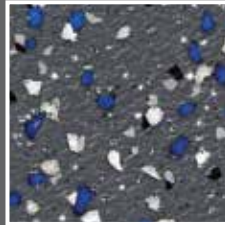


# Altro Transflor Chroma Platinum™

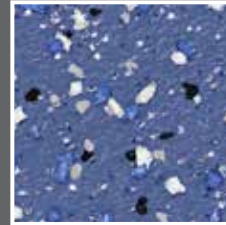
A lightweight, metallic-look chipped bus floor with excellent sustained slip resistance engineered for resilience and top performance, with simplicity and practicality.



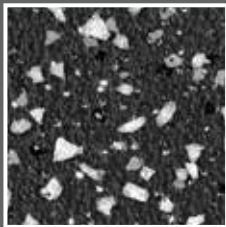
Charger  
TFCRP27004 (2.7 mm)  
WR231 / AM73 / LRV 11



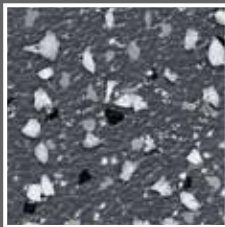
Camaro  
TFCRP27011 (2.7 mm)  
WR101 / AM72 / LRV 13



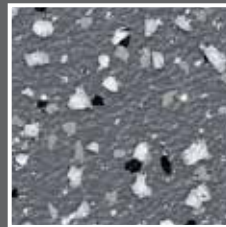
Riviera  
TFCRP27003 (2.7 mm)  
WR249 / AM249 / LRV 16



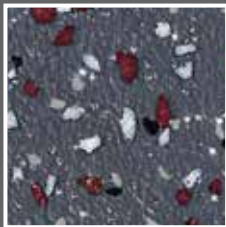
Chevelle  
TFCRP27008 (2.7 mm)  
WR100 / AM100 / LRV 7



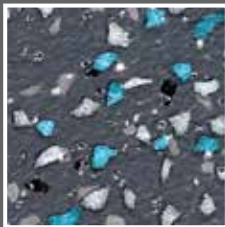
Nova  
TFCRP27006 (2.7 mm)  
WR101 / AM72 / LRV 13



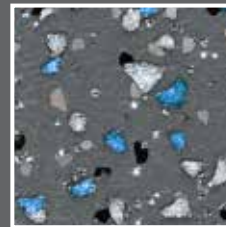
Cutlass  
TFCRP27005 (2.7 mm)  
WR83 / AM83 / LRV 15



Corvette  
TFCRP27007 (2.7 mm)  
WR101 / AM72 / LRV 13



Delray  
TFCRP27009 (2.7 mm)  
WR101 / AM72 / LRV 13



Cobra  
TFCRP27002 (2.7 mm)  
WR83 / AM83 / LRV 15

Chroma Platinum is available in 2.2mm as a special order only with minimum quantity 624 SY.

Compatible with:



LRV = Light Reflectance Value  
AM = Mastic  
WR = Weldrod



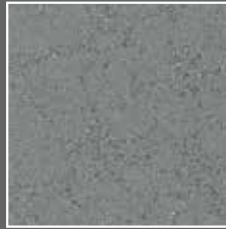
# Altro Transflor Figura™

2.7mm lightweight chipped bus floor with excellent sustained slip resistance engineered for resilience and top performance, with simplicity and practicality.

## Firework design



Boom | TFFG2701F  
WR63 / AM239 / LRV 21



Sparkler | TFFG2702F  
WR81 / AM81 / LRV 25



Crackle | TFFG2706F  
WR83 / AM83 / LRV 15



Laser | TFFG2703F  
WR231 / AM73 / LRV 11



Rocket | TFFG2704F  
WR72 / AM72 / LRV 8



Pinwheel | TFFG2705F  
WR100 / AM100 / LRV 7



Scaled-down example of pattern

## Windmill design



Titan | TFCR27402  
WR63 / AM239 / LRV 21



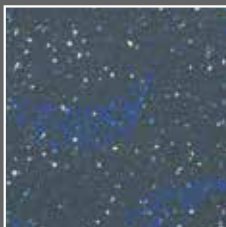
Orion | TFCR27401  
WR83 / AM83 / LRV 14



Eros | TFCR27403  
WR100 / AM100 / LRV 7



Saturn | TFCR27406  
WR249 / AM249 / LRV 15



Pluto | TFCR27404  
WR83 / AM83 / LRV 15



Neptune | TFCR27405  
WR231 / AM73 / LRV 11



Scaled-down example of pattern

COMPATIBLE WITH:

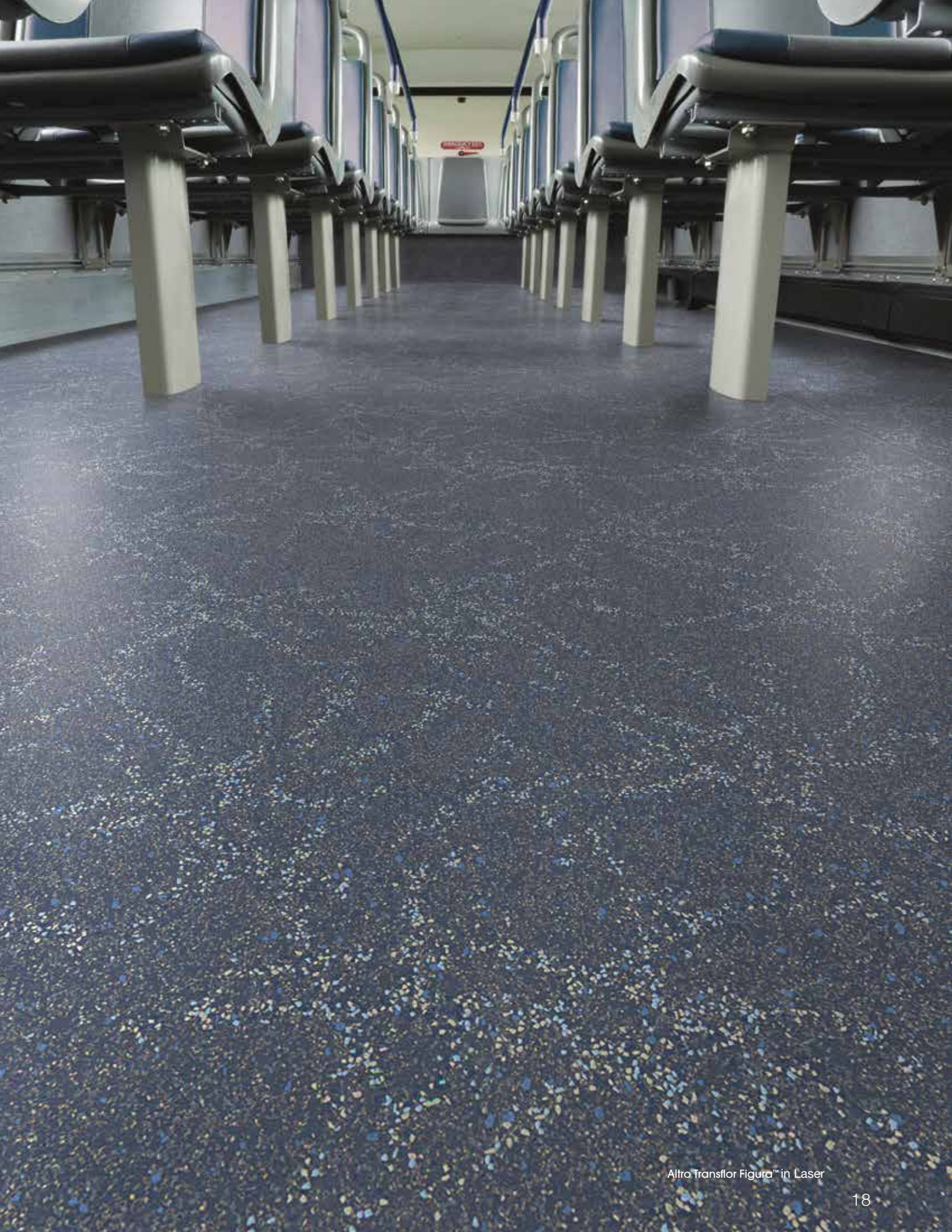


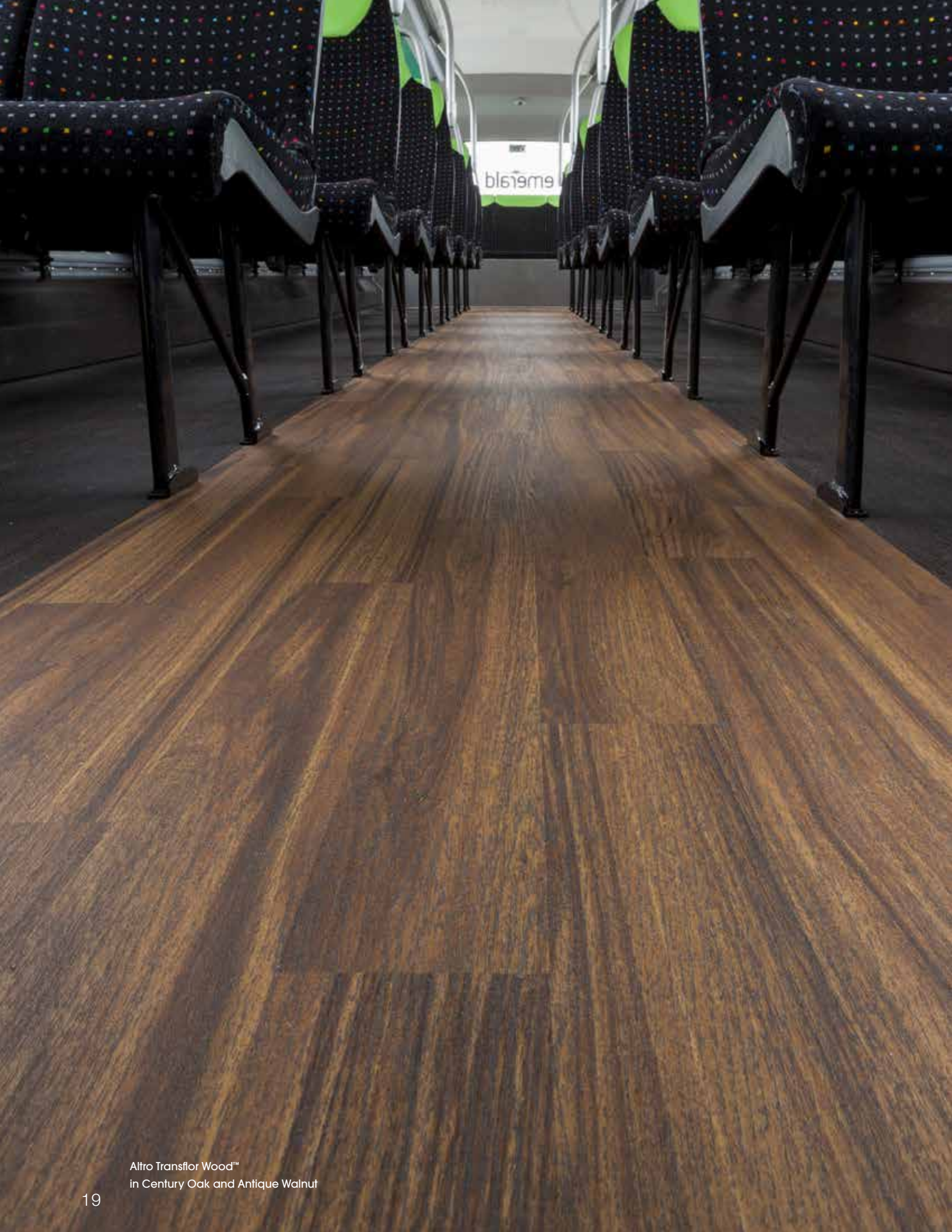
LRV = Light Reflectance Value  
AM = Mastic  
WR = Weld rod



2.7 mm



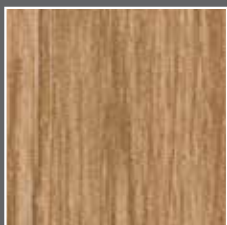




Altro Transflor Wood™  
in Century Oak and Antique Walnut

# Altro Transflor Wood™

A resilient wood-look bus floor with assured slip resistance and comfort underfoot.



Oak Traditions  
TFWSA2213F  
WR353 / AM225 / LRV 25



Spiced Bamboo  
TFWSA2219F  
WR342 / AM224 / LRV 21



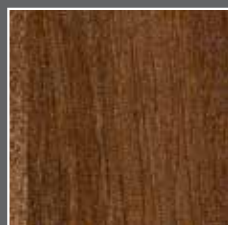
Tudor Oak  
TFWSA2223F  
WR471 / AM337 / LRV 16



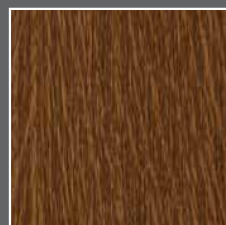
Jacobean Oak  
TFWSA2222F  
WR470 / AM83 / LRV 11



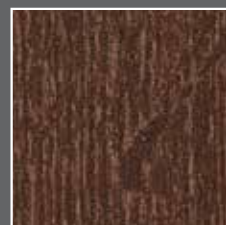
Seasoned Cherry  
TFWSA2209F  
WR343 / AM246 / LRV 15



Antique Walnut  
TFWSA2207F  
WR341 / AM160 / LRV 15



Oak Riche  
TFWSA2214F  
WR227 / AM227 / LRV 10



Century Oak  
TFWSA2212F  
WR346 / AM62 / LRV 8



Urban Cherry  
TFWSA2203F  
WR337 / AM337 / LRV 17



Vintage Cherry  
TFWSA2202F  
WR336 / AM239 / LRV 22



Manor Oak  
TFWSA2216F  
WR348 / AM348 / LRV 7



Iron Bamboo  
TFWSA2226F  
WR232 / AM100 / LRV 14

COMPATIBLE WITH:

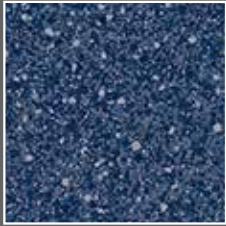


LRV = Light Reflectance Value  
AM = Mastic  
WR = Weld rod

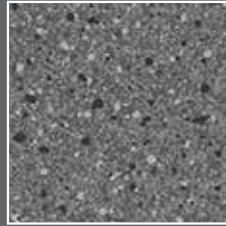


# Altro Transflor Artis™

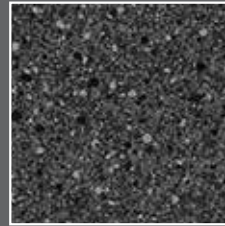
A resilient natural mineral-inspired design flooring for bus with a quality finish and comfort underfoot.



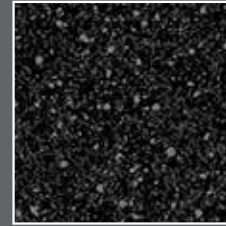
Kala  
TFAR22002  
WR482 / AM482 / LRV 13



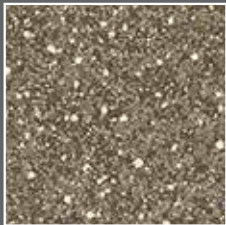
Maras  
TFAR22004  
WR391 / AM82 / LRV 18



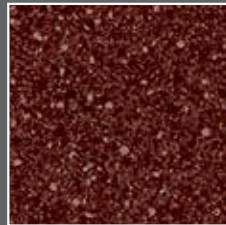
Trapani  
TFAR22005  
WR314 / AM82 / LRV 11



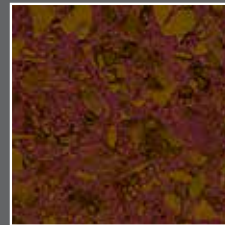
Tavira  
TFAR22006  
WR485 / AM485 / LRV 7



Halite  
TFAR22003  
WR418 / AM239 / LRV 21



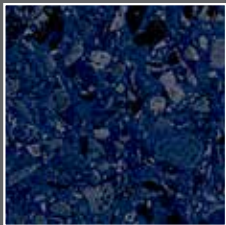
Adelite  
TFAR22001  
WR41 / AM41 / LRV 10



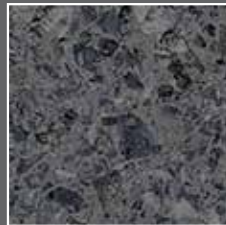
Ruby  
TFAR22007  
WR41 / AM41 / LRV 9



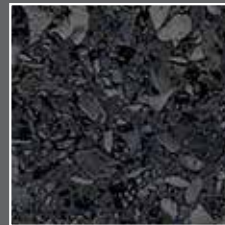
Pyrite  
TFAR22012  
WR62 / AM62 / LRV 9



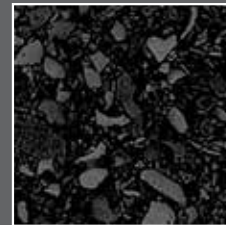
Lazulite  
TFAR22011  
WR493 / AM493 / LRV 9



Fleur  
TFAR22008  
WR481 / AM83 / LRV 15



Palladium  
TFAR22009  
WR301 / AM82 / LRV 11



Onyx  
TFAR22010  
WR485 / AM485 / LRV 8

COMPATIBLE WITH:



LRV = Light Reflectance Value  
AM = Mastic  
WR = Weld rod



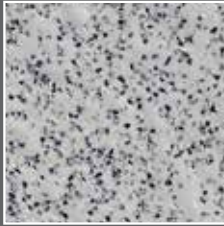




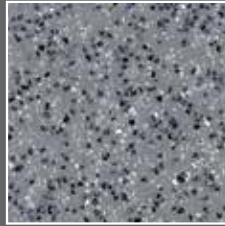


# Altro Transflor Tungsten™

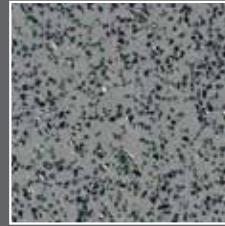
A high performance NFPA 130 compliant rail product with easy maintenance and wide design options.



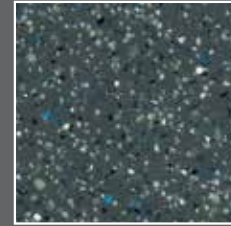
Whirlwind  
TUN20910 (2.0 mm)  
WR79 / AM191 / LRV 38



Fog  
TUN203001 (2.0 mm)  
WR 81 / AM81 LRV 27



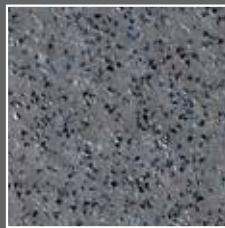
Gust  
TUN20908 (2.0 mm)  
WR81 / AM81 LRV 23



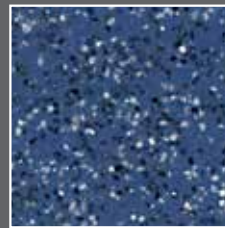
Storm  
TUN203009 (2.0 mm)  
WR 82 / AM82 LRV 16



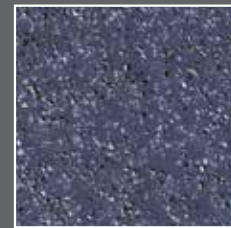
Supercell  
TUN20912 (2.0 mm)  
WR 473 / AM308 LRV15



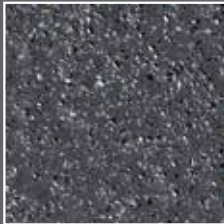
Breeze  
TUN20909 (2.0 mm)  
WR 86 / AM86 LRV 18



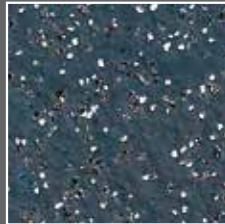
Azure  
TUN203007 (2.0 mm)  
WR 249 / AM249 LRV 15



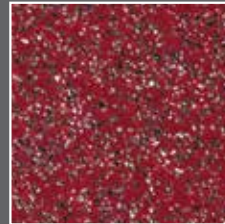
Sleet  
TUN20907 (2.0 mm)  
WR 231 / AM73 LRV 10



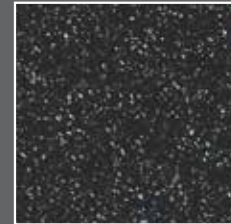
Arcus  
TUN20906 (2.0 mm)  
WR 101 / AM72 LRV 11



Midnight  
TUN203005 (2.0 mm)  
WR 72 / AM72 LRV 11



Sprite  
TUN20911 (2.0 mm)  
WR 248 / AM238 LRV 11



Vortex  
TUN20905 (2.0 mm)  
WR 277 / AM100 LRV 6



Firestorm  
TUN20904 (2.0 mm)  
WR 100 / AM100 LRV 5



LRV = Light Reflectance Value  
AM = Mastic  
WR = Weld rod



# Technical table

Bus

		Altro Transflor Meta / Chroma / Platinum 2.2 mm	Altro Transflor Meta / Chroma / Platinum 2.7 mm
Flooring type	EN 13845 ASTM F1303	Safety flooring	Safety flooring
Slip resistance	BAM EN 13893 EN 13845 PTV ASTM D2047 DIN 51130	Dry - very slip resistant Wet - slip resistant - - ≥ 36 ≥ 0.6 R10	Dry - very slip resistant Wet - slip resistant - - ≥ 36 ≥ 0.6 R10
Thickness	EN ISO 24346	2.2 mm / 0.088"	2.7 mm / 0.108"
Wear layer thickness	EN ISO 24340	1.2 mm / 0.047"	1.4 mm / 0.055"
Flexibility	EN ISO 24344 ASTM F1303	Pass	Pass
Weight	EN ISO 23997	4.05lb/sy / 2.2 kg/m <sup>2</sup> ±10%	4.98lb/sy / 2.7 kg/m <sup>2</sup> ±10%
Roll dimensions	EN ISO 24341	2 m x 20 m - 40 m <sup>2</sup> 6'7" x 65'7"	2 m x 20 m - 40 m <sup>2</sup> 6'7" x 65'7"
Light fastness	EN ISO 105-B02 ASTM F1515	≥ 6	≥ 6
Wear resistance	EN 13845 ASTM C501	≤ 10% particles lost over 50,000 cycles	≤ 10% particles lost over 50,000 cycles
Residual indentation	EN ISO 24343 ASTM F970	≤ 0.10 mm	≤ 0.10 mm
Fire performance	DIN 5510 ECE-R118 UIC 564-2 FMVSS 302 / CMVSS 302 ASTM E648 NFPA 130	SF3 Pass Class A Pass Class 1 -	SF3 Pass Class A Pass Class 1 -
Chemical resistance*	EN ISO 26987	Good	Good
Castor chair abrasion	EN 425	Pass	Pass
Electrical behaviours	EN 1815	≤ 2kV antistatic	≤ 2kV antistatic
Sound insulation	ISO 140-8	5dB	5dB

\*Caution ketone / aromatic solvents. Please contact Altro for further technical advice regarding staining and chemical resistance

Altro Transflor Figura 2.7 mm	Altro Transflor Wood	Altro Transflor Artis	Altro Transflor Tungsten
Safety flooring	Safety flooring	Heterogeneous floor	Safety flooring
Dry - very slip resistant Wet - slip resistant - - ≥ 36 ≥ 0.6 R10	Dry - very slip resistant Wet - slip resistant - - ≥ 36 ≥ 0.6 R10	- - DS - - ≥ 0.6 R10	-Dry - very slip resistant -Wet- slip resistant DS ESf ≥ 40 ≥ 0.6 R11
2.7 mm / 0.108"	2.2 mm / 0.088"	2.2 mm / 0.088"	2.0 mm / 0.08"
1.4 mm / 0.055"	0.7 mm / 0.027"	0.7 mm / 0.027"	1 mm / 0.08"
Pass	Pass	Pass	Pass
4.98lb/sy / 2.7 kg/m2 ±10%	4.93lb/sy / 2.68 kg/m2	4.93lb/sy / 2.68 kg/m2	4.98lb/sy / 2.7 kg/m2
2 m x 20 m - 40 m2 6'7" x 65'7"	2 m x 20 m - 40 m2 6'7" x 65'7"	2 m x 20 m - 40 m2 6'7" x 65'7"	2 m x 20 m - 40 m2 6'7" x 65'7"
≥ 6	≥ 6	≥ 6	≥ 6
≤ 10% particles lost over 50,000 cycles	≤ 10% particles lost over 50,000 cycles	Group T	≤ 10% particles lost over 50,000 cycles
≤ 0.10 mm	≤ 0.10 mm	≤ 0.10 mm	
SF3 Pass - Pass Class 1	- Pass - Pass - -	- Pass - Pass - -	SF3 Pass - Pass Class 1 Pass
Good	Good	Good	
Pass	Pass	Yes, type W	Pass
≤ 2kV antistatic	≤ 2kV antistatic	≤ 2kV antistatic	≤ 2kV antistatic
5dB	5dB	5dB	4dB

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# Logos and pre-cut flooring service

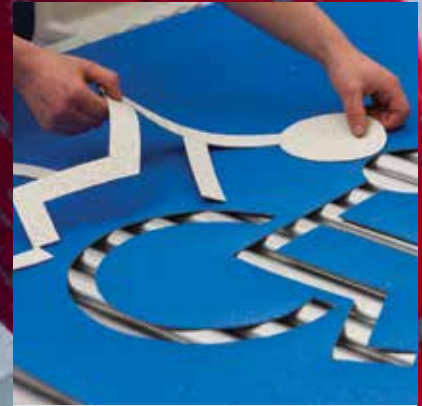
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## Logos and signage

The accuracy of our cutting technology also enables us to offer the production of intricate detailing that can be inlaid directly into the floor. From universal signage and wayfinding solutions through to exact recreations of your company logo, precision-cut icons and sign designs will save you time and make your vehicles stand out.

## Pre-cut flooring kits

With time pressure being a constant challenge to builders and operators alike, we offer our pre-cut flooring service to enhance installation efficiencies. Altro's pre-cut floors minimize installation time and waste, simplify the process of fitting a floor, and reduce interior assembly and maintenance time. Using a floorplan of your vehicle, we use our in-house cutting technology to prepare your order to the exact dimensions required before delivering convenient lighter, smaller pre-cut rolls, saving you time and effort. Especially useful for those tricky confined areas with turns, twists and undulations, Altro's pre-cut floors provide the most direct route to installation success.



Logo designs are cut for desired requirements.



Sections can be moved easily into place.



Once affixed the flooring is ready for installation.



Wheelchair logo using Altro Transflor Meta™ in safety colors

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# Self-adhesive floors

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## Installation advantages

Designed specifically to remove the need for manual adhesive application and curing times, Altro self-adhesive flooring provides further time-saving possibilities. The pressure-sensitive backing is available for all our bus flooring products and completely cuts adhesive application and curing time. Once positioned and bonded, self-adhesive flooring can be welded and walked on immediately, allowing interior assembly and refurbishment to continue without delay. The solution works with all commonly used subfloors, providing consistent results every time. It can also be used with pre-cut kits to achieve even greater efficiencies. Altro is the only manufacturer with the capability to offer both solutions in-house for consistent quality control.

## Clean and lightweight

The intuitive system is easy to use, requires no specialist tools, and by removing the need for adhesive mixing and application, reduces mess. Better still, the lack of traditional adhesives ensures a cleaner interior air quality for your installation team, removing almost all harmful VOC emissions. Meanwhile, the uniform application of adhesive applied to the backing results in an adhesive weight saving of 60% per m<sup>2</sup> compared to the recommended applications of polyurethane and contact adhesives.



### Did you know?

Using Altro's self-adhesive solution will save you 60% adhesive weight per m<sup>2</sup>





“With Altro’s self-adhesive service we can save an estimated 4 hours on installation time. This has huge implications for savings on labor costs as well as increasing the efficiency of our output of vehicles.”

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Cheyne Rauber,  
Vice President / General Manager,  
Matthews Specialty Vehicles, US

All Altro bus floors are available in a self-adhesive format



Expert advice ensures optimum installations





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# Technical support

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## Installation guidance

To gain the best possible performance from your Altro flooring, it's important that it's installed correctly. Our highly-skilled technical services team can offer free expert advice to help ensure installers know how to achieve the best possible results. This not only means that your team develop their own working knowledge and efficiency, but also that any potential failures arising from installation issues are reduced to an absolute minimum.

## Continued support

When you invest in Altro flooring, you enter into a partnership that we take seriously. We're available to advise and instruct on technical areas to provide guidance and facilitate product longevity. Whether you have a situation with a subfloor, a question on cleaning or you're wondering about a weld, if you require advice we're here to listen and here to help.

The Altro Transflor Virtual Training Center is available to all Altro Transport customers for personal, live, fully-interactive instruction and installation questions tailored to your specific needs. See the back cover for more information.



### Did you know?

Altro offers a wide range of weld rods in different colors and profiles to help you achieve the best possible finish.

# Cleaning and maintenance

## Keep up performance

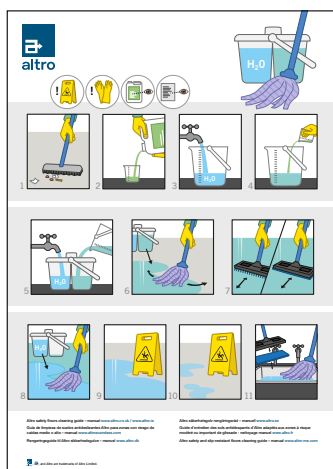
All Altro bus floors are engineered to ensure an easy and fast cleaning and maintenance program. Gone are the days where safety floors meant a maintenance nightmare – all of our floors, regardless of construction, offer improved ease of cleaning and superior scuff and stain resistance.

In order to keep our floors looking great and performing well, Altro recommends a robust cleaning program incorporating both routine and deep cleaning, as needed on each individual vehicle.

## Maintain appearance

Cleaning programs can be further complemented by the random scatter patterns of flooring aggregates and by the different patterned designs available across the portfolio. Aside from enhancing slip resistance, our aggregates also distract the eye to break up the appearance of common dirt deposits. This ultimately means that standard daily cleaning programs are sufficient to ensure the floor retains its appearance between incremental maintenance deep cleans.

For the best results on bus floors, Altro recommends the use of AltroClean 44™.



Cleaning instructions available online at [altro.com](http://altro.com)







Altro's in-house recycling facility



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# Sustainability

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Living a more sustainable lifestyle is one of the biggest draws for passengers to choose public transport over their own private cars, so we believe that fitting your vehicles with sustainably conscious components shows a strong commitment to a greener environment.

## Raw materials

At Altro, sustainability drives the choices we make. It starts with the environmentally friendly raw materials we choose to go into our products which enable us to produce ortho-phthalate-free vinyl floors containing bio-plasticisers.

## Recycling

Our commitment to sustainability has also enabled us to become the first manufacturer to recycle traditional safety flooring in-house. Altro flooring even contains recycled particulates including post-consumer recycled glass, which would otherwise be destined for landfill.

Since 2014 we've achieved 0% waste-to-landfill, an achievement to be proud of.

## Passing on the benefits

To further support our ongoing vision – and those of our customers – we offer a range of services which aid in the sustainability of your project.

Save on waste with our pre-cut flooring, meaning no flooring goes to landfill.

Reduce harmful VOCs with our self-adhesive installation method, meaning cleaner air.

Operate on better fuel efficiency with our lightweight product construction.

# Accessories, tools, and maintenance products

Altro can supply a wide range of accessories to ensure a complete engineered system for your transportation flooring project. We have a full range of trims and finishing details, stair nosings, adhesives, color matched sealants, weldrods, maintenance supplies and all of the tools you need to ensure a professional installation.



## Tools

- 1 Leister® heat welder / AST HWGST
- 2 Concave blades / AST BC
- 3 Hooked blades / AST BH
- 4 Straight blades / AST BS
- 5 Grooving handle / AST GSPEED
- 6 Grooving blades / AST GBU
- 7 Grooving tool handle / AST GH
- 8 Grooving tool blade / AST GBS
- 9 Trimming knife straight handle / AST TKSH
- 10 Trim plate / AST TP
- 11 X-Acto® handle / AST XH
- 12 X-Acto® blades / AST XB8
- 13 4 mm welding tip / AST HWT4MM
- 14 Welding tip for HB / AST HWTHB
- 15 2" seam roller / AST RSH
- 16 3 section roller / AST R3
- 17 Trowel handle / AST TH
- 18 Trowel blade / AST TBFFA



## Flooring accessories

- 1 Watch your step tread and riser / ASF STEPKIT
- 2 Weldrod HB type / ASF WR###HB
- 3 Altromastic sealant / ASF AM###
- 4 Aluminum nosing w/insert / ASF T36T w/yellow
- 5 Vinyl stepedge white / ASF STEPEDGEW9
- 6 Vinyl stepedge yellow / ASF STEPEDGEY9
- 7 Trim black / ASF TRIMEDGEB
- 8 Trim gray / ASF TRIMEDGEG
- 9 Covestick .75" x 79" / ASF CF20R
- 10 Covestick 1" x 60" / ASF COVESTICK
- 11 Aluminum nosing w/insert / ASF T36T w/white
- 12 Covestick 1.50" x 79" / ASF CF38R
- 13 Weldrod / AST WR###
- 14 ADA logo / ASF WCL12x12



## Cleaning accessories

- 1 Maintenance guide / TFL MAINTLAM
- 2 AltroClean™ 44, 5 liters / ASF 44CLEANER
- 3 AltroClean™ 44, 1 liter / ASF 44CLEANER1.0
- 4 Installation and maintenance CD / TFL INSTALLCD
- 5 Microfiber mop head / OTH MOPMF
- 6 Deck brush / OTH SWIVEL

**i** Proper care and maintenance of Altro safety flooring is critical for transportation applications. Not only will it keep your vehicle looking great, it will last longer and provide premium slip resistance. Altro recommends following our detailed care plan as well as using specified cleaning products.



## Adhesive accessories

- 1 Altro Ecofix+™, 1 gallon / ADH ECP1.0
- 2 Altro Ecofix™ 25E, 2 gallon / ADH EC25E2.0
- 3 Contact adhesive / ADH 81651.0
- 4 Altrofix™ 30 polyurethane adhesive / ADH AL301.0
- 5 Trowel handle / AST TH
- 6 Trowel blade / AST TBFFA

## Samples

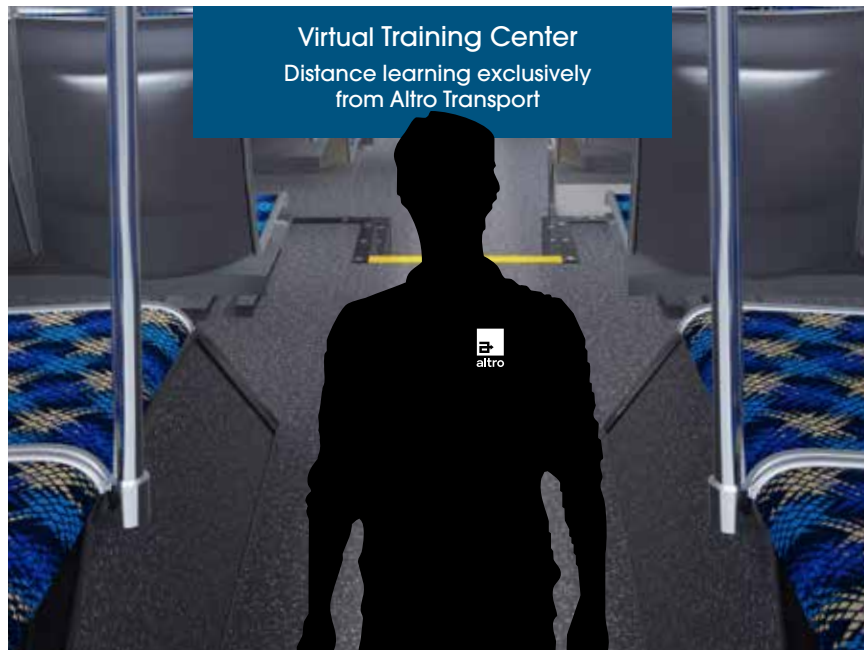
If color choice is critical, please request a sample of the material.

📞 800.382.0333

✉️ [samples@altro.com](mailto:samples@altro.com)



### Altro Transflor™ flooring installation virtual training



- Personal, live, fully-interactive instruction tailored to your specific needs
- No cost
- Quick appointments and booking times
- Available exclusively to Altro customers
- Call today to schedule an appointment 800.382.0333 x3530

Altro USA - Transport Division 12648 Clark Street, Santa Fe Springs, CA 90670

USA 800.382.0333 CANADA 800.565.4658

✉️ [transport@altro.com](mailto:transport@altro.com)

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