



Perth Transit Authority

• Current Clients •

- Approximately 60% of all Local Councils throughout Australia
- Large builder network throughout Australia
- Perth Transit Authority
- Westrail
- Transport South Australia
- Glenelg Tram Authority
- Coleman Rail
- Yarra Trams
- VicRoads
- Newcastle Airport
- Mount Panorama Corporate Area
- Darwin International Hotel
- Northern Territory Transit Authority
- Murdoch University
- Queensland Bus Services

• Fast Forward To The Future •

■ The sky's the limit...

Guardian Tactiles are made for the ground, but they're crafted from the very same next-generation material used in many situations requiring hard wearing and long lasting results — polyurethane.

Strong, durable and developed with extreme conditions in mind, the polyurethane gives the tactiles a lasting edge and a superior performance.

Guardian Tactiles have been developed for today's demands and tomorrow's conditions.

The technological advancement of the tiles places them ahead of their time. Their versatility and adaptability provides a subtle complement to modern design and leading construction.

■ Assisting the vision impaired now and into the future...

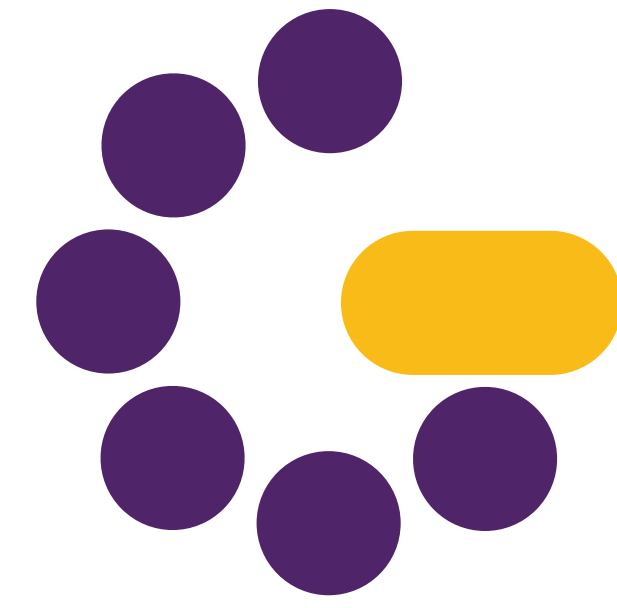
The number of Australians estimated to have legal blindness or low vision is approximately 380,000, with this number expecting to double by 2024 as the population ages.*

Incorporating aids for the vision impaired in all indoor and outdoor construction is not only good practice, **but it has become mandatory in all Australian building codes and Public Access Disability Standards.**

*Figures from Vision Australia Foundation



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Guardian Tactile Systems

The retro-fit, superior ground surface indicator system for the vision impaired



Peel, Bond and Ready to Walk On...

• Innovation For The Future •

■ A state-of-the-art design for ground surface indicators for the vision impaired

The Guardian system is a new generation solution for instant, durable and aesthetically pleasing tactile ground surface indicators (TGSI's).

This unique product blends style and versatility within a system that is modular, flexible and extremely cost effective.

Guardian's ground-breaking peel and bond technology is state-of-the-art in its design, yet simple and easy to install, giving it an immediate practical appeal and extensive usage possibilities.

■ Compliance with new public access Standards

Guardian Tactiles are fully safety-compliant and can be incorporated into new or existing areas to aid the vision impaired. They have passed the **CSIRO Slip Resistance Tests** and meet the AS/NZS 4586:1999 (Appendix D) Standards in Test Report No. 3411s dated 15 March 2007 with an **R12 Rating**. Guardian Tactiles are CSIRO tested (ASTM C1343) and approved to the Taber abrasive index level of 84.4. This equates to a wear resistance factor of about **3 times that of concrete**.

■ Anywhere, anytime — in no time

The revolutionary peel and bond design ensures that Guardian Tactiles can be installed and **walked on immediately**. This presents instant cost benefits.

The Tactiles are designed with a special surface that enables them to adhere instantly. Interior applications do not require any other fixing, screwing or securing devices to ensure they remain firmly in place. The innovative self-adhesive cross linking polymer surface achieves a complete and permanent "fix" as they are laid.

The tactiles will not peel, lift, chip, crack or slip once they are correctly installed. Every tactile complies fully with Australian Standards AS/NZS 1428.4:2002.



■ For all time...

Guardian Tactiles provide long-lasting solutions to the incorporation of aids for the vision impaired. Their unique design and strong, impact resistant Polyurethane composition makes them extremely hard-wearing and long lasting.

They are exceptionally durable, and stand up to Australia's harsh outdoor conditions, as well as all types of indoor conditions. Guardian Tactiles are designed to be UV and VIS light resistant, so they will not fade or discolour. **All Guardian Tactiles carry a full 10 year guarantee.**

■ Ideal for use in any situation

The Guardian Tactile system's innovation means it can be applied as widely as needed, and wherever indicators are required for the vision impaired.

This includes:

- bus stops • car parks • crossings • kerbs • steps
- entrances • intersections • pram ramps
- overhead hazards • alfresco dining areas • stairways
- escalators • fire escapes • ramps • railway platforms
- walkways • passenger wharves • hazards adjacent to a path • indication of changes of direction.

The Guardian Tactile System was approved on 14 February 2005 for use by **VicRoads** as part of its **DDA Compliance Works Program** for the declared road network throughout the State of Victoria.

■ A more cost effective solution

Their unique design and **ease of installation** means Guardian Tactiles are **more cost effective** than other surface indicator products on the market today. In addition, the Guardian Tactile installation process creates the least disruption to building workers and the general public.



• Going The Distance •

■ Versatile and Flexible

The enormous versatility and flexibility of the tactiles means they can be easily incorporated into almost any construction without restricting creative design and architecture.

Whether being used in new construction or retro-fitting, they work in exactly the same way.

The tactiles will bond to any surface, including: bitumen, timber, concrete, tiles, vinyl, carpet, marble, plastic, brick paving and stone.

They are modular and by their versatility allow endless configurations to suit new or existing surfaces and design styles.

Because our tactiles are made of Polyurethane they are not affected by extremely high or low temperatures.

Their flexibility means they can be securely fixed to undulating surfaces where needed.

The peel and bond installation allows fitting into small areas where it would be difficult to lay indicators in alternative materials, such as concrete, tiles and ceramic.

When installing Guardian Tactiles externally our **Fast Cure Primer** must be applied to the substrate as per the installation instructions supplied *prior* to the laying of the tactiles.

• Luminance Contrast Requirements •

Luminance contrast of TGSIs is the difference in the amount of light reflected from the TGSIs compared to the amount of light reflected from the background or adjacent path of travel.

Where the TGSIs are discrete units, it shall have a minimum luminance contrast of 30% compared to the amount of light reflected from the surface of the adjacent path of travel.

Where the TGSIs are discrete units having the same luminance for the sloping sides and upper surface of the truncated cones, the units shall have a minimum luminance contrast of 45% compared to the amount of light reflected from the surface of the adjacent path of travel.

Where the TGSIs are discrete units having differing luminance for the sloping sides and upper surface of the truncated cones, the units shall have a minimum luminance contrast of 60% compared to the amount of light reflected from the surface of the adjacent path of travel.

■ Choose any colour you like

Tiles are available in a range of standard and most widely used colours. Customers can also have their own colour range produced (minimum quantities apply) to ensure that the tiles enhance almost any design, style and colour scheme.

Australian Standards Tactile requirement AS/NZS 1428.4:2002 Appendix F. Page 51



These contrasts shall be achieved under both natural and artificial lighting conditions and shall be maintained under all weather conditions.

■ Discrete Tactiles – USE WITH CAUTION



Our system is classed as an integrated unit and requires a minimum luminance contrast of 30% compared to the amount of light reflected from the surface of the adjacent path of travel. Individual buttons require a minimum of 45-60% luminance contrast.

Tactile buttons that are individually installed are commonly known as "discrete" tactile indicators. These are up to seven times more expensive than our system. If discrete indicators (buttons) are selected to be installed, **the Installer is required to carry out on-site luminance contrast and slip testing** to conform with AS 1428.4:2002. Appendix F.

• The Peel And Bond Revolution •

■ Peel, bond and ready to walk on.

Guardian Tactile Systems have pioneered **peel and bond** ground surface indicators, with outstanding and far-reaching benefits:

- Fast, easy, low cost installation
- No special skills required
- Can be walked on immediately
- Minimal disruption to workforce/ pedestrians during installation

■ Going in all directions

Because the tiles are relatively light, they can be easily packed and despatched for use nationally and internationally using overnight or parcel couriers.

This makes them ideal for use in remote areas where bulky and costly machinery and labour would need to be brought in for alternative solutions, such as concrete tactile indicators.

Public and private buildings in smaller towns and remote areas can purchase a small order and self-install with a minimum of effort without needing labour or machinery.

Their peel and bond nature means a no-mess installation and no cleaning up required.



■ The shape of things

Guardian Tactiles are produced as squares, making them modular and able to be combined in endless configurations.

The unique formulation of these tiles makes them easy to cut accurately into the shapes required by unusual ground layouts.

■ Specialists with a specialist focus

Guardian Tactiles and our Agents specialise in Tactile Ground Surface Indicators. As specialists, we are able to provide assistance in installation techniques ensuring the best possible results at all times. Agents in every State are readily available.

