

Compliant Products Register for Tactile Ground Surface Indicators (TGSI).

Assessed as compliant to AS/NZS 1428.4.1:2009 and other criteria as determined by the Department of Transport and Main Roads Queensland.

TGSI are truncated cones and or bars installed on the ground or floor surface designed to provide pedestrians who are blind or vision-impaired with warning or directional orientation information.

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Contact for enquiries and proposed changes

To be included in the “Compliant Products Register”, TGSi suppliers should contact the author to obtain a copy of the Transport and Main Roads’ criteria form – upon satisfying the criteria, the supplier will be included on this ‘Register’. If you have any other questions regarding this document or if you have feedback on the performance of certain products please contact:

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Version history

Version no.	Date	Changed by	Nature of amendment
1.0	01/04/2010	Peter Cleary	Initial draft.
2.0	6/09/2011	Jonathan Giles	Updates
3.0	17/10/2013	Jonathan Giles	Contact details
4.0	29/04/2014	Jonathan Giles	Additional entries added
5.0	18/11/2014	Jonathon Giles	Supplier details updated – Access Tiles

Document sign off

The following officer has endorsed this document.

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Position Director (Traffic Engineering and Data)

Signature Original Signed Date _____

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1 Introduction

This is a controlled document that presents a listing of Tactile Ground Surface Indicators (TGSI), which the Department of Transport and Main Roads (Queensland) considers to be compliant with:

The requirements of Australian Standard for Design for access and mobility AS/NZS 1428.4.1 2009 – Tactile indicators; and

Other criteria as specified by the department.

Transport and Main Roads does not recommend any specific TGSI for particular applications, practitioners will need to assess which style is most suitable for the particular application taking into account substrate, aesthetics, availability, consistency in areas and cost.

Companies that supply TGSI may distribute/supply/install a range of products, compliant TGSI listed in the table below are the products that have satisfied the criteria specified by the department.

This document is subject to periodic review and will be updated electronically. If printed, practitioners are requested to access the Transport and Main Roads web site (www.tmr.qld.gov.au) for confirmation of the latest products register.

1.1 Audience of the document

- Public document.

2 Definitions

- Refer AS/NZS 1428.4.1:2009 Design for access and mobility – Tactile indicators.

3 Disclaimer

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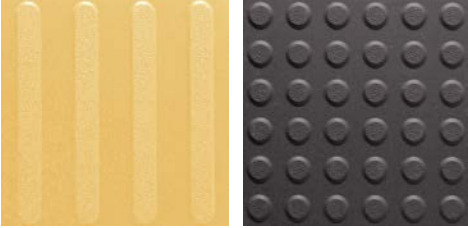

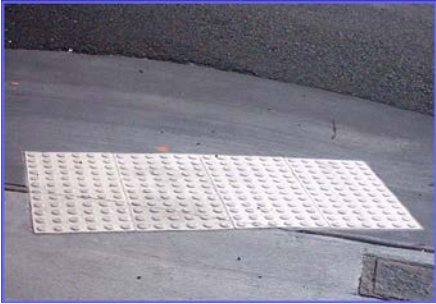

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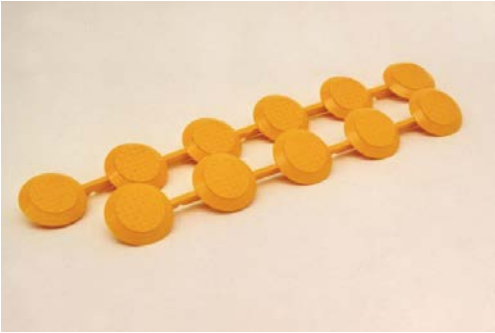
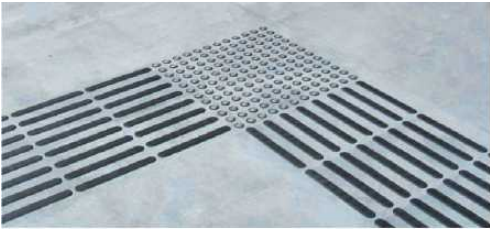

4 Standards

4.1 Governing manuals, specifications or guidelines

- AS/NZS 1428.4.1 2009
- Manual of Uniform Traffic Control Devices – 2003
- Road Planning & Design Manual Chapter 5 – 2004
- Transport and Main Roads Standard Drawings 1446 & 1447 and Main Roads Guideline Drawings KRG1 & KRG2


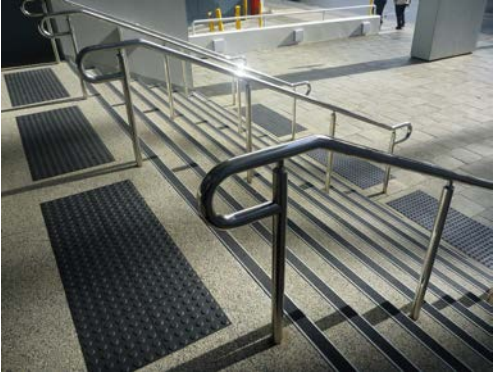
5 Table of 'Compliant' Tactile Ground Surface Indicators

TGS Supplier / Product	Product/picture	Product Description	Web site/contact
Granito Approved Products: Tactile	 	Tactile ceramic tile. Most suited to new installations.	www.granito.com.au
United Civil Construction (UCC) Approved Products: Flexi Pave	 	Flexi Pave Fibre reinforced polymer concrete TGS Suited to new or retro-fit installations	www.ucctactile.com.au

TGS Supplier / Product	Product/picture	Product Description	Web site/contact
Pathfinder Approved Products: Tactile plastic strips	 	Tactile plastic strips Individually inserted plastic indicators on a bladed shaft ('discrete' tactiles). Suited to new or retro-fit installations.	www.pathfindersystems.com.au
Austact Approved Products: Polyurethane tactiles	 	Polyurethane tactiles Individually inserted polyurethane indicators; ('discrete' tactiles). Suited to new or retro-fit installations.	www.austact.com.au

TGS Supplier / Product	Product/picture	Product Description	Web site/contact
Tactile Indicators Approved Products: Stikcrete tile	 	Stikcrete tile Special concrete compound. Suited to new or retro-fit installations.	www.tactileindicators.com.au
Comcork Approved Products: Tactile Ground Surface Indicator	  	Tactile Ground Surface Indicator Blend of cork and rubber tile. Suited to retro-fitting installations.	www.safetyfloor.com.au

TGS Supplier / Product	Product/picture	Product Description	Web site/contact
<p>CTA</p> <p>Approved Products:</p> <p>CobbleTac</p> <p>PolyPad</p> <p>PolyStud</p>		<p>CobbleTac porcelain tactile tiles suited to new installations</p> <p>PolyPad rubber tactile pad suited to new or retro-fit installations</p> <p>PolyStud discrete plastic tactile suited to new or retrofit installations</p>	<p>www.cobbletac.com</p>
<p>Italpro</p> <p>Approved Products:</p> <p>Ceramic tile</p>		<p>Ceramic tile</p> <p>Suited to new installations.</p>	<p>Terry Richards (03) 9551 0799</p> <p>Email: terryr@italpro.com.au</p>

TGS Supplier / Product	Product/picture	Product Description	Web site/contact
ESP Australia Approved Product: Access Tiles		Access Tiles ‘Cast in place’ for new installation or ‘surface applied’ for retrofit installation.	John Court 1300 665 761 www.espaust.net.au
Guardian Tactile Systems Approved Products: Guardian P.U. Tactile Ground Surface Indicator		Guardian P.U. Tactile Ground Surface Indicator Suited to new or retrofit installations.	David Cunningham (08) 92401888 www.guardiantactile.com

Appendix A - Compliant products criteria checklist

Compliant products meet the following criteria to be included on the 'compliant products register' of tactile ground surface indicators (TGSIs).

M – Mandatory Requirements (if applicable); D – Desired Requirements; I – Information only
If you do not think a specific criterion is applicable to your product, please supply reasons.

- 1. M** Slip resistance, tested, within the last three (3) years, in accordance with AS4586 (slip resistance to cover TGSIs dome and base). Tests or confirmation that the product and processes have not changed will be required to be received every three years to remain up to date.

“Wet Pendulum Test” assessment group = W or better;
“Oil Wet Ramp Test” assessment group = R11 or better
- 2. M** TGSIs design (size and spacing) compliant with AS1428.4.1-2009
- 3. M** Minimum guarantee of product including UV resistance and installation (if applicable) of 5 years
- 4. M** For ceramic TGSIs tile products, minimum breaking strength = 1100N tested in accordance with AS4459.4
- 5. M** For ceramic TGSIs tile products, water absorption (E) $\leq 3\%$, tested in accordance with ISO 10545-3 Ceramic tiles -- Part 3: Determination of water absorption, apparent porosity, apparent relative density and bulk density.
- 6. D** Installation and production specification.
- 7. D** Variability in products to provide luminance contrast specified in AS1428.4.1-2009 to be achieved in typical footways and kerb ramps (concrete, asphalt, pavers).