



TACTILE STUDS

Regulatory Compliance

Meet Australian accessibility requirements

Tactile Ground Surface Indicators (TGSIs) are required for any construction project which is being built for public use to ensure that they are accessible for people with visual impairments. Areas such as the approaches to stairs and ramps, where there are changing flooring conditions, or potential hazards, need to comply with the regulations specified in Section 23 of the Disability Discrimination Act 1992.

BIRRUS TACTILE STUDS VERSATILITY

Our tactile studs are manufactured with different installation options to suit different flooring surfaces and safety requirements. TGSIs can be used in areas featuring stairways, escalators, moving walkways, ramps or in areas where there is the absence of a suitable barrier. Combined with our other flooring safety products, we can support your project's regulatory compliance and ensure that people with visual impairments remain safe.

BIRRUS TACTILE STUDS DURABILITY

We use the highest quality materials and techniques in the manufacture of our tactile studs. Corrosion-resistant, Marine Grade 3016 Stainless Steel and DR Brass as well as polyurethane options are available. Each product type is designed to be hard-wearing for use in the harsh Australian conditions including in coastal regions. Our variety of installation options ensure that your installers can use the appropriate method to ensure a lasting solution.

BIRRUS TACTILE STUDS APPLICATION

Birrus TGSIs are used in a range of different environments including:

- Retail stores
- Hotels, bars and restaurants
- Office buildings
- Public buildings including schools, libraries and hospitals
- Public transport stations and stops
- Recreational facilities and stadiums
- Museums, galleries and tourist sites
- Public parks
- Pedestrian crossings

BIRRUS TACTILE STUD SYSTEMS

BIRRUS PIN POSITIVE TACTILE STUDS TECHNICAL SPECIFICATION

Featuring concentric rings on the top surface and a polished rim, these studs are manufactured from 316 Marine Grade Stainless Steel to withstand the harsh coastal environments of Australian towns and cities. This material is corrosion resistant and has superior mechanical qualities.

SUITABLE SUBSTRATES

- **Natural Stone** (Granite, Marble, Sandstone, Slate, Blue Stone, Basalt & more)
- **Engineered Stone** (Caesar Stone, Quantum Stone & more)
- **Concrete Asphalt**
- **Timber/Rubber Vinyl Flooring**
- **Ceramic**

CSIRO TESTING RESULTS

AS/NZS 4586 Appendix A Wet Pendulum 4S	W	Average LRVs	
		DRY	WET
AS/NZS 4586 Appendix D Oil Wet Ramp Test	R12	54.84	53.05
AS/NZS 1428.4 Wet & Dry Luminance Reflectance	Dry 25.1/Wet 19.5 Mean Contrast Range 10.8 – 45.5	42.32	30.90
Combined Average LRV		48.58	41.97

**TRISTIMULUS COLORIMETER
SPECTROPHOTOMETER**

TACTILE STUD DIMENSIONS

Top of Dome	25mm
Base of Dome	35mm
Height of Dome	5mm
Stem Diameter	6mm
Stem Length	12mm

PRODUCT REFERENCE

Product	Type
BIRRUS PIN POSITIVE TACTILE STUDS	Type 1



BIRRUS FLAT BACK TACTILE STUDS TECHNICAL SPECIFICATION

These tactile studs are for applications where a fast-stick glue will be used to adhere the stud directly to the flooring surface. Concentric rings on the top surface provide grip and the polished rim sits flush with the flooring. Manufactured from 316 Marine Grade Stainless Steel to ensure a durable and corrosion resistant finish, even in harsh coastal locations.



SUITABLE SUBSTRATES

- **Ceramic**
- **Glass**
- **Marble**

Can also be applied to:

- **Natural Stone** (Granite, Marble, Sandstone, Slate, Blue Stone, Basalt, Travertine and more)
- **Engineered Stone** (Caesar Stone, Quantum Stone and more)

CSIRO TESTING RESULTS

AS/NZS 4586 Appendix A Wet Pendulum 4S	W	Average LRVs	
		DRY	WET
AS/NZS 4586 Appendix D Oil Wet Ramp Test	R12	54.84	53.05
AS/NZS 1428.4 Wet & Dry Luminance Reflectance	Dry 25.1/Wet 19.5 Mean Contrast Range 10.8 – 45.5	42.32	30.90
Combined Average LRV		48.58	41.97

**TRISTIMULUS COLORIMETER
SPECTROPHOTOMETER**

TACTILE STUD DIMENSIONS

Top of Dome	25mm
Base of Dome	35mm
Height of Dome	5mm

PRODUCT REFERENCE

Product	Type
BIRRUS FLAT BACK TACTILE STUDS	Type 2



Birrus can supply other flooring safety systems including Peel & Stick Tactiles and Ceramic Tactiles. Call us today to discuss your specific requirements.

BIRRUS SCREW DOWN TACTILE STUDS TECHNICAL SPECIFICATION

If flooring is a soft substrate such as carpet, it can be best to use a screw-down tactile stud. The top surface features concentric rings to provide grip. These studs are manufactured from the same durable 316 Marine Grade Stainless Steel and they have a hole suitable for a #8-gauge countersink screw. Matching screws can be supplied as an optional extra.

SUITABLE SUBSTRATES	
Most soft substrates will accept a screw attachment, including:	
<ul style="list-style-type: none"> • Timber • Vinyl Flooring • Carpet 	
CSIRO TESTING RESULTS	
AS/NZS 4586 Appendix A Wet Pendulum 4S	W
AS/NZS 4586 Appendix D Oil Wet Ramp Test	R12
AS/NZS 1428.4 Wet & Dry Luminance Reflectance	Dry 25.1/Wet 19.5 Mean Contrast Range 10.8 – 45.5
TACTILE STUD DIMENSIONS	
Top of Dome	25mm
Base of Dome	35mm
Height of Dome	5mm
PRODUCT REFERENCE	
Product	Type
BIRRUS SCREW DOWN TACTILE STUDS	Type 3



BIRRUS BRASS TACTILE STUDS TECHNICAL SPECIFICATION

A corrosion-resistant DR-grade Brass is used to ensure that these studs are durable. Able to withstand coastal environments with high-forming and welding characteristics, this is the best grade of brass to be used for TGSi products. Concentric circles on the top surface provide grip while the polished rim sits flush with the flooring surface.



SUITABLE SUBSTRATES	
<ul style="list-style-type: none"> • Natural Stone (Granite, Marble, Sandstone, Slate, Blue Stone, Basalt & more) • Engineered Stone (Caesar Stone, Quantum Stone & more) • Concrete Asphalt • Timber/Rubber Vinyl Flooring • Ceramic 	
CSIRO TESTING RESULTS	
AS/NZS 4586 Appendix A Wet Pendulum 4S	W
AS/NZS 4586 Appendix D Oil Wet Ramp Test	R11
AS/NZS 1428.4 Wet & Dry Luminance Reflectance	Dry 25.1/Wet 19.5
TACTILE STUD DIMENSIONS	
Top of Dome	25mm
Base of Dome	35mm
Height of Dome	5mm
Stem Diameter	6mm
Stem Length	12mm
PRODUCT REFERENCE	
Product	Type
BIRRUS BRASS TACTILE STUDS	Type 4




BIRRUS TACTILE STUD SYSTEMS

BIRRUS POLY PIN TACTILE STUDS TECHNICAL SPECIFICATION

These studs feature an anti-rotation fit anchor which makes it vandal and removal proof. The surface profile delivers the highest P5 slip-resistance classification for warning and directional indicators. They can be retrofitted to most substrates* to ensure regulatory compliance with a low-cost and versatile system.

Stud Colour	Product Code	AS/NZS 1428.4 Luminance Reflectance	
		Dry LRV	Wet LRV
Black	121611	3.98	3.30
Charcoal	121612	8.58	7.53
Grey	121613	48.62	46.14
White	121614	86.09	85.60
Blue	121615	8.17	7.36
Red	121616	12.63	12.44
Orange	121617	26.84	26.66
Yellow	121618	71.18	70.02

TACTILE STUD DIMENSIONS		PRODUCT REFERENCE	
Top of Dome	25mm	Product	Type
Base of Dome	35mm	BIRRUS POLY PIN TACTILE STUDS	Type 5
Height of Dome	4.9mm	* Note: Poly Pin Tactile Studs are not suitable for installation on carpet with underlay	
Stem Diameter	8mm		
Stem Length	24mm		



BIRRUS CARBORUNDUM TACTILE STUDS TECHNICAL SPECIFICATION

A custom-colour Carborundum insert in the top of these studs gives a complimentary finish to your flooring colour scheme while maintaining their mechanical integrity. The remainder of the stud is made from 316 Marine Grade Stainless Steel to provide a hard-wearing and corrosion resistant system.



SUITABLE SUBSTRATES

- **Natural Stone** (Granite, Marble, Sandstone, Slate, Blue Stone, Basalt & more)
- **Engineered Stone** (Caesar Stone, Quantum Stone & more)
- **Concrete Asphalt**
- **Timber/Rubber Vinyl Flooring**
- **Ceramic**

CSIRO TESTING RESULTS

AS/NZS 4586 Appendix A Wet Pendulum 4S	W	TRISTIMULUS COLORIMETER SPECTROPHOTOMETER	Average LRVs	
			DRY	WET
AS/NZS 4586 Appendix D Oil Wet Ramp Test	R12	Combined Average LRV 4.04 3.07	4.62	3.81
AS/NZS 1428.4 Wet & Dry Luminance Reflectance	Dry 25.1/Wet 19.5 Mean Contrast Range 10.8 – 45.5		3.47	2.34

TACTILE STUD DIMENSIONS

Top of Dome	25mm
Base of Dome	35mm
Height of Dome	5mm
Stem Diameter	6mm
Stem Length	12mm

PRODUCT REFERENCE

Product	Type
BIRURS CARBORUNDUM TACTILE STUDS	Type 7



ABOUT BIRRUS

For over 70 years, Birrus has been trusted by architects and builders in Australia for products that are both beautiful and durable. We have maintained our market leadership by moving with the times, using the latest materials and design innovations to remain your first choice for matting systems and flooring safety products. As a company, Birrus has also implemented a number of measures to minimise our carbon footprint, initiated recycling procedures and gained environmental accreditation.

REQUEST A SAMPLE

To request a free sample of TACTILE STUDS for consideration on your next project, call 1300 369 858 or visit www.birrusmatting.com.au

