



MS-LINE

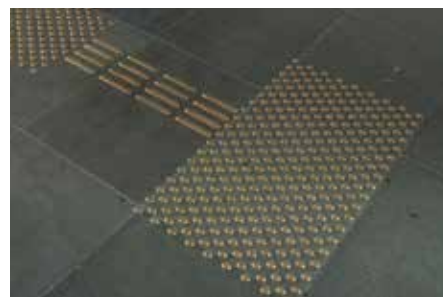
TACTILE SURFACE WARNING STUDS

MS-LINE

Individual tactile surface warning studs from brass

Product description

Individual **tactile surface warning studs** in shape of a truncated cone are made of brass and ensure long lasting stable performance. Tactile warning studs are made with pins and without pins in a variety of designs with a possible plastic insert inserted into the product. The system has already proved good in train stations, banks, universities, entrance areas, etc.



PURPOSE OF USE



MS-LINE

The **tactile warning stud** with a design of hemispherical projections in a colour contrasting with the colour of the surrounding surface and functional arrangement of hemispherical projections on the ground, that are recognizable by feet and white cane and can be also detected visually, are designed to alert and inform blind and partially sighted people about danger, provide directional guidance (change of direction) and information.

1. Structure of the warning strip in diagonal arrangement



2. Structure of the warning strip in radial arrangement



Individual **tactile warning studs** fit harmoniously into the existing architecture and break the concept in an attractive way.

PRODUCT FEATURES OF /MS-LINE/

- Minimal impact on staff/pedestrians during installation
- Quick and easy installation using a template on all surfaces, including concrete, ceramic tiles, asphalt, wood floors and most other surfaces
- Embossed anti-slip surface, safe and non-slip
- Long-lasting product performance, impact resistant
- Low maintenance demands
- Walking possible immediately after installation, by full load after 24 hours
- They are modular and their universality allows endless configurations to adapt to new or existing surfaces and styles of design
- MS-LINE has a height of 3.5 and 5 mm, which ensures that there never will be any danger on the road
- MS-LINE offers the specifiers the possibility to maintain the aesthetics of the substrate without limitation of tactile performance



LUMINANCE CONTRAST

In line with international and European standards the luminance contrast between the tactile warning studs and the surrounding substrate must be minimum 30%. MS-LINE is available in a variety of colour inserts that allow specifiers to choose the most appropriate contrast values for a given installation.

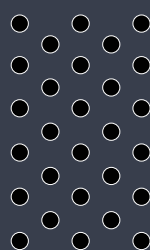
COLOURS

Choose the colour of the filling

Individual tactile surface warning studs are available in a number of standard and the most commonly used colours.



red



black



grey



white



yellow

Customers can also request a custom colour (with respect to the minimum amount) in order to make the tactile studs and strips fit into any design, style and colour scheme.

APPLICATIONS

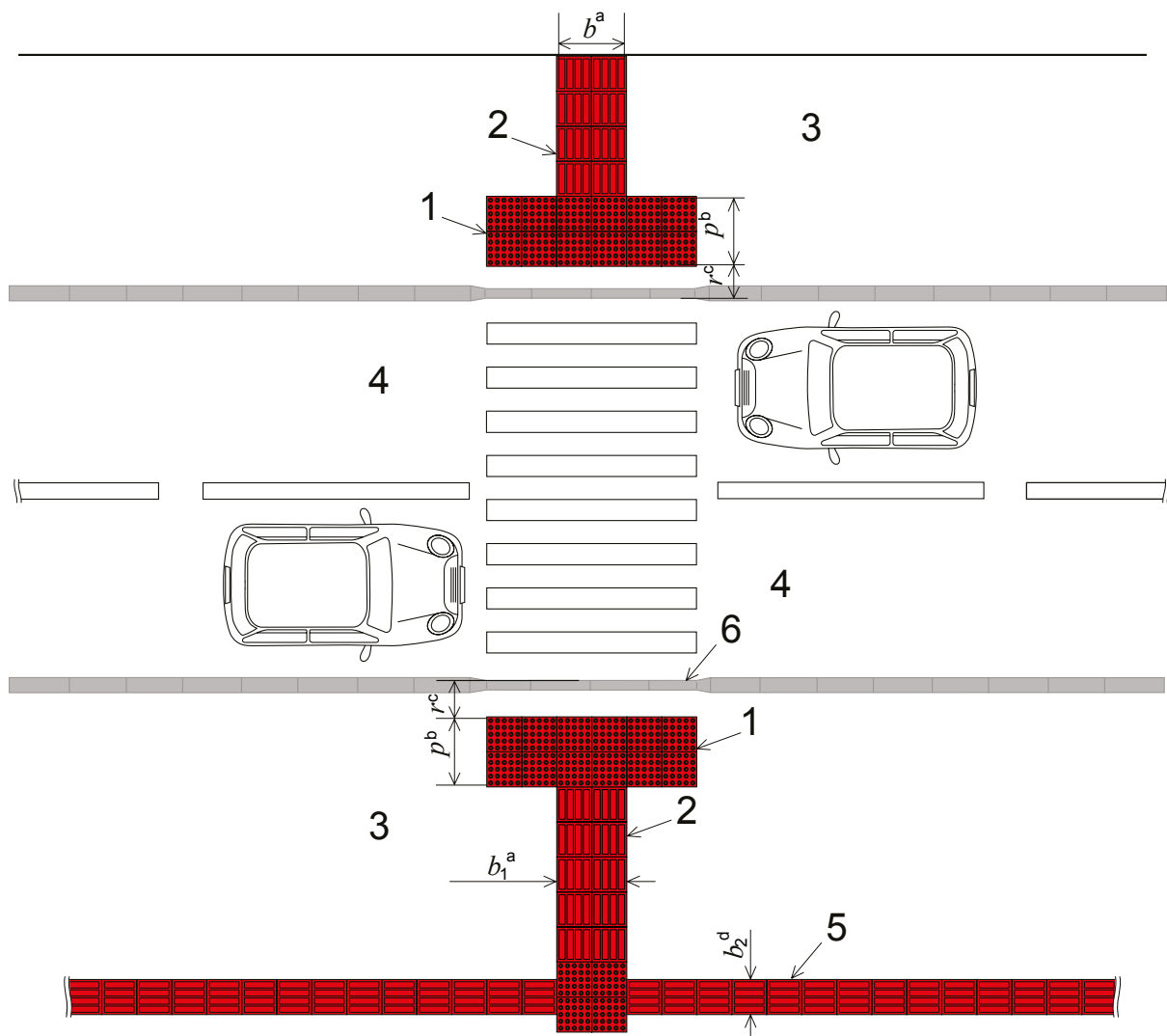
of tactile surface warning studs

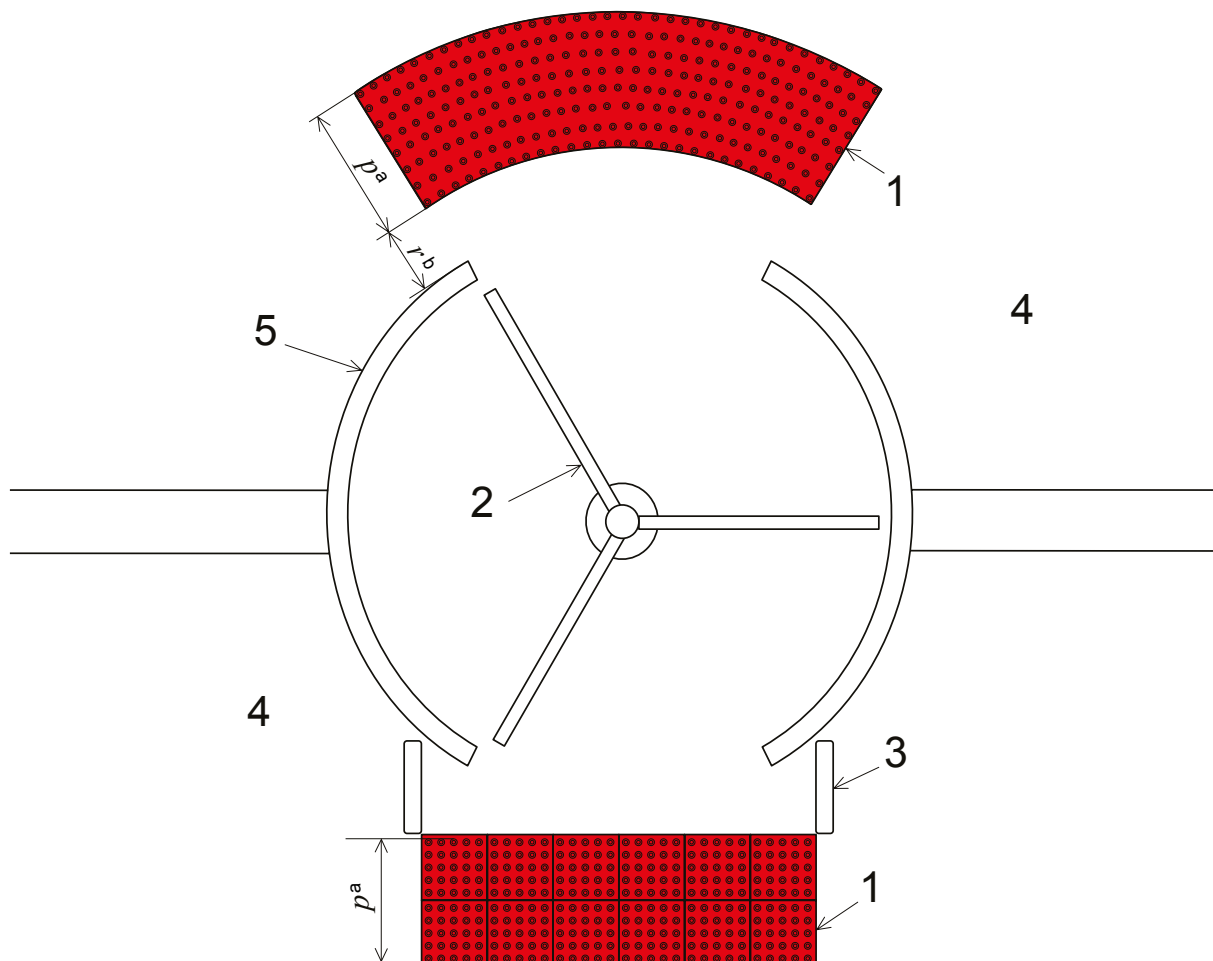
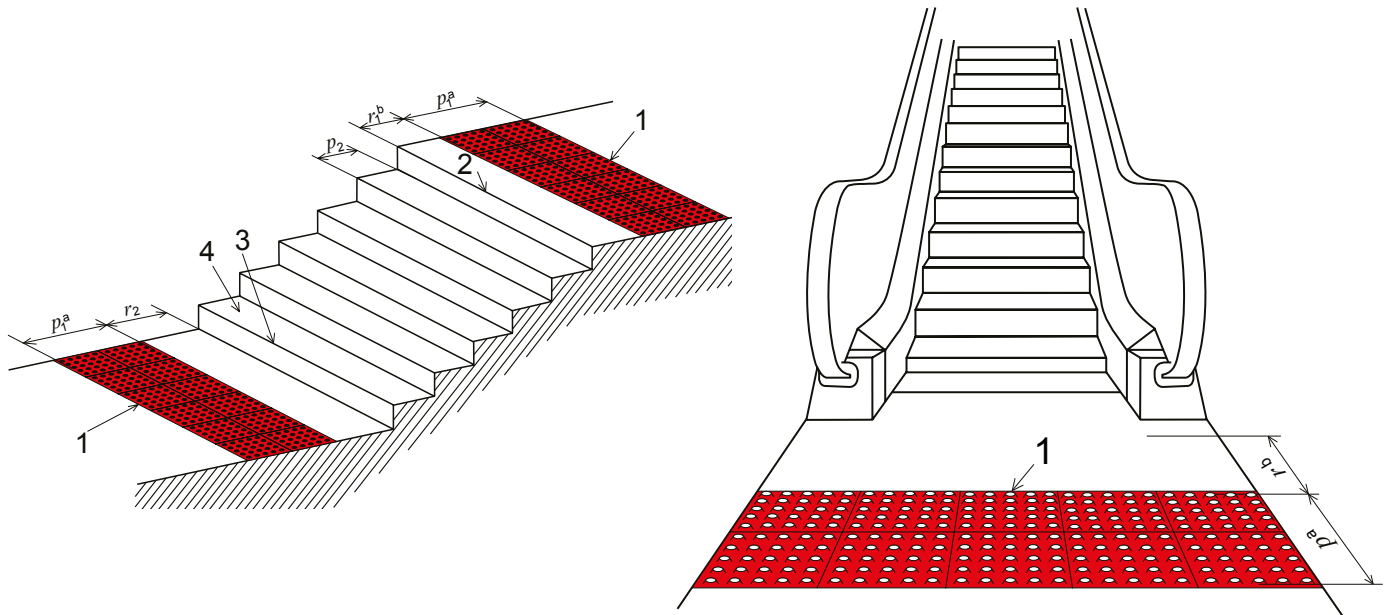
Versatile and flexible

Enormous variability and flexibility of individual tactile surface warning stripes means that they can be easily fitted into almost any construction without limitation of creative design and architecture. Whether used in new or old constructions, they work exactly the same way.

According to the law against discrimination of the blind and visually impaired, it is required to ensure the placement of tactile surface warning stripes in internal and external areas open to the public.

Warning stripes - are placed on the top and bottom of each arm of the stairs, on ramps in front of escalators, on each side of pedestrian crossings, along platforms of public transport (such as bus stops, train platforms, subway...), sea and river transport and in all areas, which are described in your country's ordinance.





LIST OF INDIVIDUAL TACTILE SURFACE WARNING STUDS FROM BRASS



MS/K1



MS/K2



MS/KH

MS/K1



Individual tactile surface warning studs from brass

Individual **tactile surface warning studs** in shape of a truncated cone are made of brass and ensure long lasting stable performance.

MS-LINE / INDIVIDUAL TACTILE SURFACE WARNING STUDS

MODEL	DIAMETER	HEIGHT	PRODUCT	WEIGHT	MATERIAL	COLOUR	PRODUCT CODE
MS/K1	Ø 35mm	5mm	with pin	30g	brass	brass	MS/K1-K/35/5
	Ø 35mm	5mm	without pin	28g	brass	brass	MS/K1/35/5
	Ø 35mm	3,5mm	with pin	27g	brass	brass	MS/K1-K/35/3,5
	Ø 35mm	3,5mm	without pin	26g	brass	brass	MS/K1/35/3,5
	Ø 25mm	5mm	with pin	16g	brass	brass	MS/K1-K/25/5
	Ø 25mm	5mm	without pin	15g	brass	brass	MS/K1/25/5
	Ø 25mm	3,5mm	with pin	13g	brass	brass	MS/K1-K/25/3,5
	Ø 25mm	3,5mm	without pin	12g	brass	brass	MS/K1/25/3,5



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MS-LINE / INDIVIDUAL TACTILE SURFACE WARNING STUDS

MODEL	DIAMETER	HEIGHT	PRODUCT	WEIGHT	MATERIAL	COLOUR	PRODUCT CODE
MS/K2	Ø 35mm	5mm	with pin	30g	brass	brass	MS/K2-K/35/5
	Ø 35mm	5mm	without pin	28g	brass	brass	MS/K2/35/5
	Ø 35mm	3,5mm	with pin	27g	brass	brass	MS/K2-K/35/3,5
	Ø 35mm	3,5mm	without pin	26g	brass	brass	MS/K2-K/35/3,5
	Ø 25mm	5mm	with pin	16g	brass	brass	MS/K2-K/25/5
	Ø 25mm	5mm	without pin	15g	brass	brass	MS/K2/25/5
	Ø 25mm	3,5mm	with pin	13g	brass	brass	MS/K2-K/25/3,5
	Ø 25mm	3,5mm	without pin	12g	brass	brass	MS/K2/25/3,5

MS/KH



Individual tactile surface warning studs from brass

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MS-LINE / INDIVIDUAL TACTILE SURFACE WARNING STUDS

MODEL	DIAMETER	HEIGHT	PRODUCT	WEIGHT	MATERIAL	COLOUR	PRODUCT CODE
MS/KH	Ø 35mm	5mm	with pin	30g	brass	brass	MS/KH-K/35/5
	Ø 35mm	5mm	without pin	28g	brass	brass	MS/KH/35/5
	Ø 35mm	3,5mm	with pin	27g	brass	brass	MS/KH-K/35/3,5
	Ø 35mm	3,5mm	without pin	26g	brass	brass	MS/KH/35/3,5
	Ø 25mm	5mm	with pin	16g	brass	brass	MS/KH-K/25/5
	Ø 25mm	5mm	without pin	15g	brass	brass	MS/KH/25/5
	Ø 25mm	3,5mm	with pin	13g	brass	brass	MS/KH-K/25/3,5
	Ø 25mm	3,5mm	without pin	12g	brass	brass	MS/KH/25/3,5

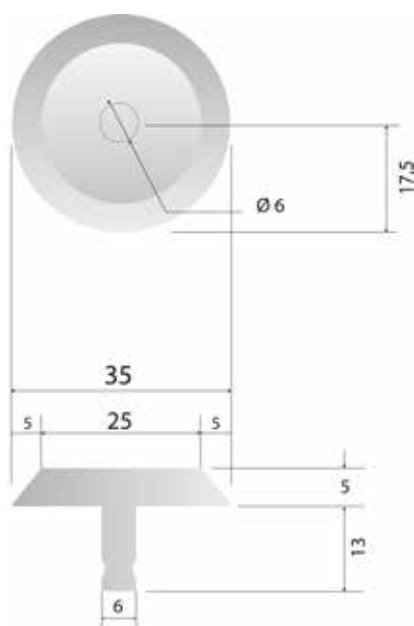
They are designed to meet international and European standards.

/Individual surface studs are made with the following dimensions/:

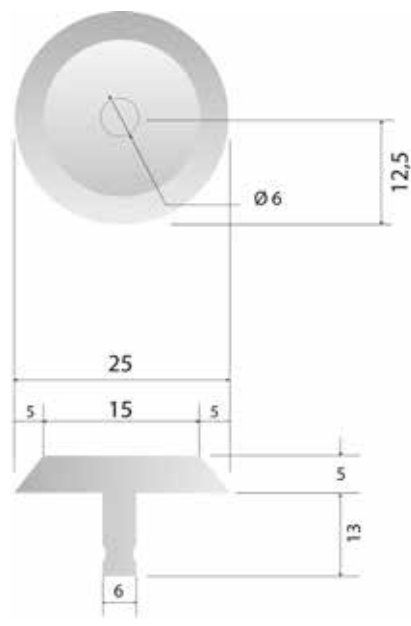
ISO 23599

Surface warning studs from brass with pin

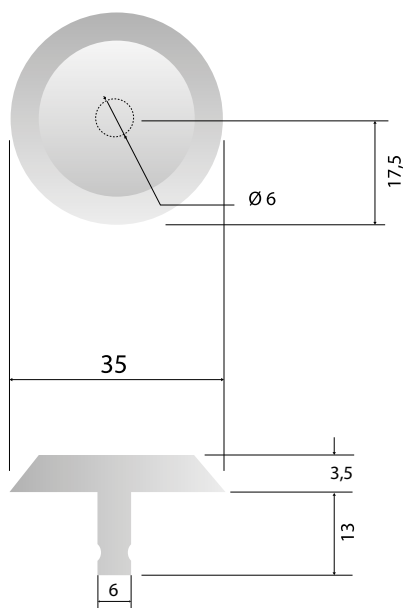
1. MS-K1-K/35/5 MS-K2-K/35/5 MS-KH-K/35/5



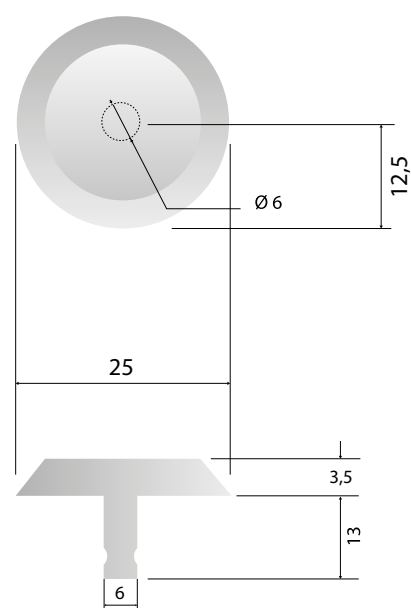
2. MS-K1-K/25/5 MS-K2-K/25/5 MS-KH-K/25/5



1. MS-K1-K/35/3,5 MS-K2-K/35/3,5 MS-KH-K/35/3,5



2. MS-K1-K/25/3,5 MS-K2-K/25/3,5 MS-KH-K/25/3,5



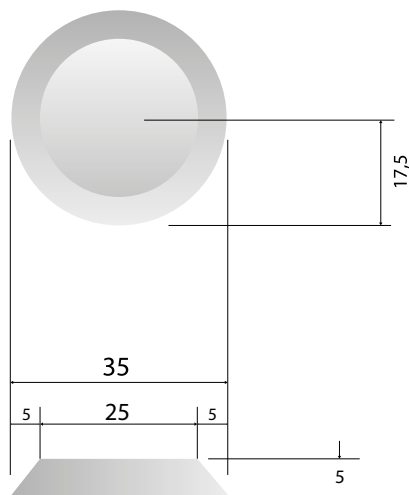
MATERIAL: brass

INSTALLATION: drilling/sticking

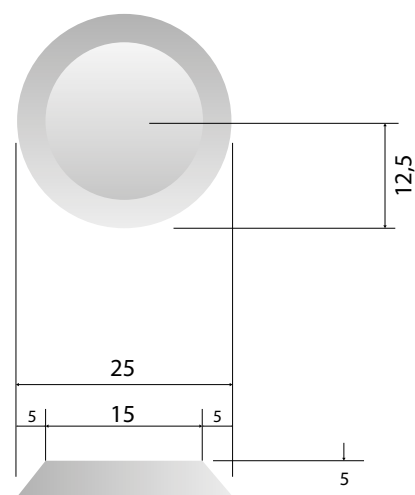
ISO 23599

Surface warning studs from brass without pin

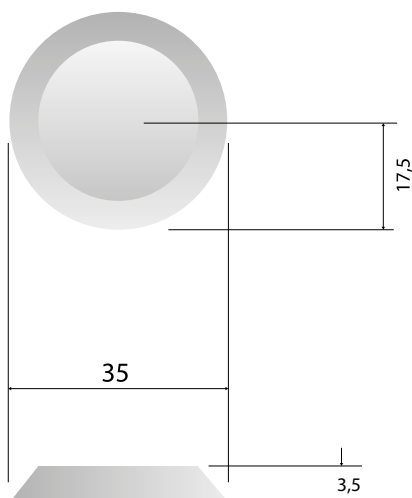
1. MS-K1/35/5 MS-K2/35/5 MS-KH-K/35/5



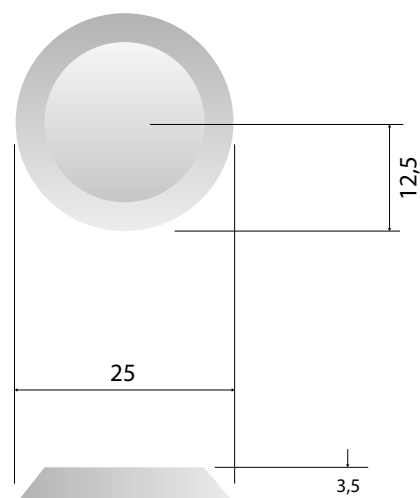
2. MS-K1/25/5 MS-K2/25/5 MS-KH/25/5



1. MS-K1-K/35/3,5 MS-K2-K/35/3,5 MS-KH-K/35/3,5



2. MS-K1-K/25/3,5 MS-K2-K/25/3,5 MS-KH-K/25/3,5



MATERIAL: brass

INSTALLATION: sticking

SAMPLE IMPLEMENTATIONS



MS-LINE

IMPLEMENTATION - Staatstheater Darmstadt /Germany/





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