

TPU-LINE

TACTILE SURFACE WARNING STUDS

TPU - LINE

Individual tactile surface warning studs from polyurethane mass

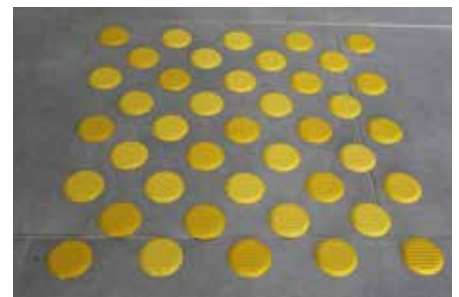
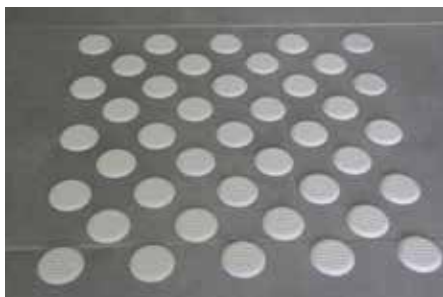
Product description

Individual **tactile surface warning studs** in shape of a truncated cone are made from high performance polyurethanes. They are also characterized by good ability to slow the spread of fire, good abrasion resistance, excellent resistance to weathering, ozone, sunlight and oxidation, excellent resistance to alcohols, alkalis and acids, very good colour fastness.

Tactile warning studs are made in three versions:

- with pin, - without pin, - self-adhesive

The system has already proved good in banks, universities, stairways, entrance areas, etc.



PURPOSE OF USE



TPU-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



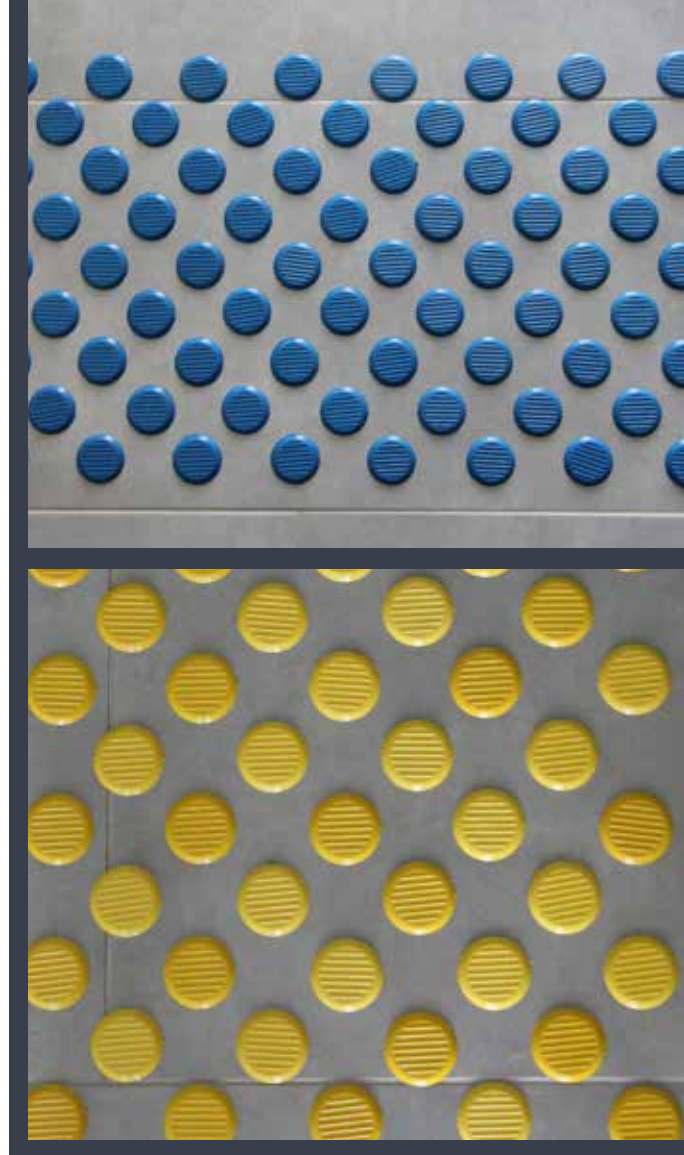
2. Structure of the warning strip in radial arrangement



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

PRODUCT FEATURES OF /TPU-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
- Tactile warning strips can be cut to fit any angular combinations
- TPU-LINE has a height of 3.5 and 5 mm, which ensures that there never will be any danger on the road
- UV stable - stability ensures colour stability of the product indoors and outdoors
- TPU-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 surface warning studs and the surrounding substrate must be minimum 30%. TPU-LINE is available in a variety of colour inserts that allow specifiers to choose the most appropriate contrast values for a given installation.

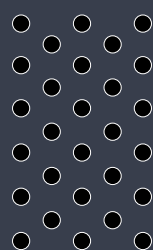
COLOUR

Choose the colour of the filling

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



red



black



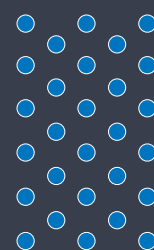
grey



white



yellow



blue

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.

LIST OF INDIVIDUAL TACTILE SURFACE WARNING STUDS FROM POLYURETHANE MASS

TPU/K1



TPU/K1



TPU/K1



TPU/K1



TPU/K1



TPU/K1



TPU/K1

TPU/K2



TPU/K2



TPU/K2



TPU/K2



TPU/K2



TPU/K2



TPU/K2

LIST OF INDIVIDUAL TACTILE SURFACE WARNING STUDS FROM POLYURETHANE MASS

TPU/K3



TPU/K3



TPU/K3



TPU/K3



TPU/K3



TPU/K3



TPU/K3

TPU/KH



TPU/KH



TPU/KH



TPU/KH



TPU/KH



TPU/KH



TPU/KH

TPU/K1



Individual tactile surface warning studs from polyurethane mass

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

TPU-LINE / INDIVIDUAL TACTILE SURFACE WARNING STUDS

MODEL	DIAMETER	HEIGHT	WEIGHT	PRODUCT	MATERIAL	COLOUR	PRODUCT CODE
TPU/K1	Ø 25mm	3mm	2g	without pin	polyurethane	●	TPU/K1-BL/25/3
	Ø 25mm	3mm	2g	self-adhesive	polyurethane	●	TPU/K1-BL-S/25/3
	Ø 35mm	3mm	3g	without pin	polyurethane	●	TPU/K1-BL/35/3
	Ø 35mm	3mm	3g	self-adhesive	polyurethane	●	TPU/K1-BL-S/35/3

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MODEL	DIAMETER	HEIGHT	WEIGHT	PRODUCT	MATERIAL	COLOUR	PRODUCT CODE
TPU/K1	Ø 25mm	3mm	2g	without pin	polyurethane	○	TPU/K1-WH/25/3
	Ø 25mm	3mm	2g	self-adhesive	polyurethane	○	TPU/K1-WH-S/25/3
	Ø 35mm	3mm	3g	without pin	polyurethane	○	TPU/K1-WH/35/3
	Ø 35mm	3mm	3g	self-adhesive	polyurethane	○	TPU/K1-WH-S/35/3

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MODEL	DIAMETER	HEIGHT	WEIGHT	PRODUCT	MATERIAL	COLOUR	PRODUCT CODE
TPU/K1	Ø 25mm	3mm	2g	without pin	polyurethane	●	TPU/K1-GR/25/3
	Ø 25mm	3mm	2g	self-adhesive	polyurethane	●	TPU/K1-GR-S/25/3
	Ø 35mm	3mm	3g	without pin	polyurethane	●	TPU/K1-GR/35/3
	Ø 35mm	3mm	3g	self-adhesive	polyurethane	●	TPU/K1-GR-S/35/3

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MODEL	DIAMETER	HEIGHT	WEIGHT	PRODUCT	MATERIAL	COLOUR	PRODUCT CODE
TPU/K1	Ø 25mm	3mm	2g	without pin	polyurethane	●	TPU/K1-RE/25/3
	Ø 25mm	3mm	2g	self-adhesive	polyurethane	●	TPU/K1-RE-S/25/3
	Ø 35mm	3mm	3g	without pin	polyurethane	●	TPU/K1-RE/35/3
	Ø 35mm	3mm	3g	self-adhesive	polyurethane	●	TPU/K1-RE-S/35/3

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TPU/K1	Ø 25mm	3mm	2g	without pin	polyurethane	●	TPU/K1-BLU/25/3
	Ø 25mm	3mm	2g	self-adhesive	polyurethane	●	TPU/K1-BLU-S/25/3
	Ø 35mm	3mm	3g	without pin	polyurethane	●	TPU/K1-BLU/35/3
	Ø 35mm	3mm	3g	self-adhesive	polyurethane	●	TPU/K1-BLU-S/35/3

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TPU/K1	Ø 25mm	3mm	2g	without pin	polyurethane	●	TPU/K1-YE/25/3
	Ø 25mm	3mm	2g	self-adhesive	polyurethane	●	TPU/K1-YE-S/25/3
	Ø 35mm	3mm	3g	without pin	polyurethane	●	TPU/K1-YE/35/3
	Ø 35mm	3mm	3g	self-adhesive	polyurethane	●	TPU/K1-YE-S/35/3



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MODEL	DIAMETER	HEIGHT	WEIGHT	PRODUCT	MATERIAL	COLOUR	PRODUCT CODE
TPU/K2	Ø 35mm	5mm	5g	with pin	polyurethane	●	TPU/K2-BL-K/35/5
	Ø 35mm	5mm	5g	without pin	polyurethane	●	TPU/K2-BL/35/5
	Ø 35mm	5mm	5g	self-adhesive	polyurethane	●	TPU/K2-BL-S/35/5
	Ø 35mm	3,3mm	4g	with pin	polyurethane	●	TPU/K2-BL-K/35/3,3
	Ø 35mm	3,3mm	4g	without pin	polyurethane	●	TPU/K2-BL/35/3,3
	Ø 35mm	3,3mm	4g	self-adhesive	polyurethane	●	TPU/K2-BL-S/35/3,3
	Ø 25mm	5mm	4g	with pin	polyurethane	●	TPU/K2-BL-K/25/5
	Ø 25mm	5mm	4g	without pin	polyurethane	●	TPU/K2-BL/25/5
	Ø 25mm	5mm	4g	self-adhesive	polyurethane	●	TPU/K2-BL-S/25/5
	Ø 25mm	3,3mm	3g	with pin	polyurethane	●	TPU/K2-BL-K/25/3,3
	Ø 25mm	3,3mm	3g	without pin	polyurethane	●	TPU/K2-BL/25/3,3
	Ø 25mm	3,3mm	3g	self-adhesive	polyurethane	●	TPU/K2-BL-S/25/3,3

TPU/K2



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TPU/K2	Ø 35mm	5mm	5g	with pin	polyurethane	○	TPU/K2-WH-K/35/5
	Ø 35mm	5mm	5g	without pin	polyurethane	○	TPU/K2-WH/35/5
	Ø 35mm	5mm	5g	self-adhesive	polyurethane	○	TPU/K2-WH-S/35/5
	Ø 35mm	3,3mm	4g	with pin	polyurethane	○	TPU/K2-WH-K/35/3,3
	Ø 35mm	3,3mm	4g	without pin	polyurethane	○	TPU/K2-WH/35/3,3
	Ø 35mm	3,3mm	4g	self-adhesive	polyurethane	○	TPU/K2-WH-S/35/3,3
	Ø 25mm	5mm	4g	with pin	polyurethane	○	TPU/K2-WH-K/25/5
	Ø 25mm	5mm	4g	without pin	polyurethane	○	TPU/K2-WH/25/5
	Ø 25mm	5mm	4g	self-adhesive	polyurethane	○	TPU/K2-WH-S/25/5
	Ø 25mm	3,3mm	3g	with pin	polyurethane	○	TPU/K2-WH-K/25/3,3
	Ø 25mm	3,3mm	3g	without pin	polyurethane	○	TPU/K2-WH/25/3,3
	Ø 25mm	3,3mm	3g	self-adhesive	polyurethane	○	TPU/K2-WH-S/25/3,3

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	Ø 35mm	5mm	5g	without pin	polyurethane	●	TPU/K2-GR/35/5
	Ø 35mm	5mm	5g	self-adhesive	polyurethane	●	TPU/K2-GR-S/35/5
	Ø 35mm	3,3mm	4g	with pin	polyurethane	●	TPU/K2-GR-K/35/3,3
	Ø 35mm	3,3mm	4g	without pin	polyurethane	●	TPU/K2-GR/35/3,3
	Ø 35mm	3,3mm	4g	self-adhesive	polyurethane	●	TPU/K2-GR-S/35/3,3
	Ø 25mm	5mm	4g	with pin	polyurethane	●	TPU/K2-GR-K/25/5
	Ø 25mm	5mm	4g	without pin	polyurethane	●	TPU/K2-GR/25/5
	Ø 25mm	5mm	4g	self-adhesive	polyurethane	●	TPU/K2-GR-S/25/5
	Ø 25mm	3,3mm	3g	with pin	polyurethane	●	TPU/K2-GR-K/25/3,3
	Ø 25mm	3,3mm	3g	without pin	polyurethane	●	TPU/K2-GR/25/3,3
	Ø 25mm	3,3mm	3g	self-adhesive	polyurethane	●	TPU/K2-GR-S/25/3,3

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TPU/K2	Ø 35mm	5mm	5g	with pin	polyurethane	●	TPU/K2-RE-K/35/5
	Ø 35mm	5mm	5g	without pin	polyurethane	●	TPU/K2-RE/35/5
	Ø 35mm	5mm	5g	self-adhesive	polyurethane	●	TPU/K2-RE-S/35/5
	Ø 35mm	3,3mm	4g	with pin	polyurethane	●	TPU/K2-RE-K/35/3,3
	Ø 35mm	3,3mm	4g	without pin	polyurethane	●	TPU/K2-RE/35/3,3
	Ø 35mm	3,3mm	4g	self-adhesive	polyurethane	●	TPU/K2-RE-S/35/3,3
	Ø 25mm	5mm	4g	with pin	polyurethane	●	TPU/K2-RE-K/25/5
	Ø 25mm	5mm	4g	without pin	polyurethane	●	TPU/K2-RE/25/5
	Ø 25mm	5mm	4g	self-adhesive	polyurethane	●	TPU/K2-RE-S/25/5
	Ø 25mm	3,3mm	3g	with pin	polyurethane	●	TPU/K2-RE-K/25/3,3
	Ø 25mm	3,3mm	3g	without pin	polyurethane	●	TPU/K2-RE/25/3,3
	Ø 25mm	3,3mm	3g	self-adhesive	polyurethane	●	TPU/K2-RE-S/25/3,3

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MODEL	DIAMETER	HEIGHT	WEIGHT	PRODUCT	MATERIAL	COLOUR	PRODUCT CODE
TPU/K2	Ø 35mm	5mm	5g	with pin	polyurethane	●	TPU/K2-BLU-K/35/5
	Ø 35mm	5mm	5g	without pin	polyurethane	●	TPU/K2-BLU/35/5
	Ø 35mm	5mm	5g	self-adhesive	polyurethane	●	TPU/K2-BLU-S/35/5
	Ø 35mm	3,3mm	4g	with pin	polyurethane	●	TPU/K2-BLU-K/35/3,3
	Ø 35mm	3,3mm	4g	without pin	polyurethane	●	TPU/K2-BLU/35/3,3
	Ø 35mm	3,3mm	4g	self-adhesive	polyurethane	●	TPU/K2-BLU-S/35/3,3
	Ø 25mm	5mm	4g	with pin	polyurethane	●	TPU/K2-BLU-K/25/5
	Ø 25mm	5mm	4g	without pin	polyurethane	●	TPU/K2-BLU/25/5
	Ø 25mm	5mm	4g	self-adhesive	polyurethane	●	TPU/K2-BLU-S/25/5
	Ø 25mm	3,3mm	3g	with pin	polyurethane	●	TPU/K2-BLU-K/25/3,3
	Ø 25mm	3,3mm	3g	without pin	polyurethane	●	TPU/K2-BLU/25/3,3
	Ø 25mm	3,3mm	3g	self-adhesive	polyurethane	●	TPU/K2-BLU-S/25/3,3

TPU/K2



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MODEL	DIAMETER	HEIGHT	WEIGHT	PRODUCT	MATERIAL	COLOUR	PRODUCT CODE
TPU/K2	Ø 35mm	5mm	5g	with pin	polyurethane	●	TPU/K2-YE-K/35/5
	Ø 35mm	5mm	5g	without pin	polyurethane	●	TPU/K2-YE/35/5
	Ø 35mm	5mm	5g	self-adhesive	polyurethane	●	TPU/K2-YE-S/35/5
	Ø 35mm	3,3mm	4g	with pin	polyurethane	●	TPU/K2-YE-K/35/3,3
	Ø 35mm	3,3mm	4g	without pin	polyurethane	●	TPU/K2-YE/35/3,3
	Ø 35mm	3,3mm	4g	self-adhesive	polyurethane	●	TPU/K2-YE-S/35/3,3
	Ø 25mm	5mm	4g	with pin	polyurethane	●	TPU/K2-YE-K/25/5
	Ø 25mm	5mm	4g	without pin	polyurethane	●	TPU/K2-YE/25/5
	Ø 25mm	5mm	4g	self-adhesive	polyurethane	●	TPU/K2-YE-S/25/5
	Ø 25mm	3,3mm	3g	with pin	polyurethane	●	TPU/K2-YE-K/25/3,3
	Ø 25mm	3,3mm	3g	without pin	polyurethane	●	TPU/K2-YE/25/3,3
	Ø 25mm	3,3mm	3g	self-adhesive	polyurethane	●	TPU/K2-YE-S/25/3,3



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MODEL	DIAMETER	HEIGHT	WEIGHT	PRODUCT	MATERIAL	COLOUR	PRODUCT CODE
TPU/K3	Ø 35mm	5mm	5g	with pin	polyurethane	●	TPU/K3-BL-K/35/5
	Ø 35mm	5mm	5g	without pin	polyurethane	●	TPU/K3-BL/35/5
	Ø 35mm	5mm	5g	self-adhesive	polyurethane	●	TPU/K3-BL-S/35/5
	Ø 35mm	3,3mm	4g	with pin	polyurethane	●	TPU/K3-BL-K/35/3,3
	Ø 35mm	3,3mm	4g	without pin	polyurethane	●	TPU/K3-BL/35/3,3
	Ø 35mm	3,3mm	4g	self-adhesive	polyurethane	●	TPU/K3-BL-S/35/3,3
	Ø 25mm	5mm	4g	with pin	polyurethane	●	TPU/K3-BL-K/25/5
	Ø 25mm	5mm	4g	without pin	polyurethane	●	TPU/K3-BL/25/5
	Ø 25mm	5mm	4g	self-adhesive	polyurethane	●	TPU/K3-BL-S/25/5
	Ø 25mm	3,3mm	3g	with pin	polyurethane	●	TPU/K3-BL-K/25/3,3
	Ø 25mm	3,3mm	3g	without pin	polyurethane	●	TPU/K3-BL/25/3,3
	Ø 25mm	3,3mm	3g	self-adhesive	polyurethane	●	TPU/K3-BL-S/25/3,3

TPU/K3



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TPU/K3	Ø 35mm	5mm	5g	with pin	polyurethane	○	TPU/K3-WH-K/35/5
	Ø 35mm	5mm	5g	without pin	polyurethane	○	TPU/K3-WH/35/5
	Ø 35mm	5mm	5g	self-adhesive	polyurethane	○	TPU/K3-WH-S/35/5
	Ø 35mm	3,3mm	4g	with pin	polyurethane	○	TPU/K3-WH-K/35/3,3
	Ø 35mm	3,3mm	4g	without pin	polyurethane	○	TPU/K3-WH/35/3,3
	Ø 35mm	3,3mm	4g	self-adhesive	polyurethane	○	TPU/K3-WH-S/35/3,3
	Ø 25mm	5mm	4g	with pin	polyurethane	○	TPU/K3-WH-K/25/5
	Ø 25mm	5mm	4g	without pin	polyurethane	○	TPU/K3-WH/25/5
	Ø 25mm	5mm	4g	self-adhesive	polyurethane	○	TPU/K3-WH-S/25/5
	Ø 25mm	3,3mm	3g	with pin	polyurethane	○	TPU/K3-WH-K/25/3,3
	Ø 25mm	3,3mm	3g	without pin	polyurethane	○	TPU/K3-WH/25/3,3
	Ø 25mm	3,3mm	3g	self-adhesive	polyurethane	○	TPU/K3-WH-S/25/3,3



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TPU/K3	Ø 35mm	5mm	5g	with pin	polyurethane	●	TPU/K3-GR-K/35/5
	Ø 35mm	5mm	5g	without pin	polyurethane	●	TPU/K3-GR/35/5
	Ø 35mm	5mm	5g	self-adhesive	polyurethane	●	TPU/K3-GR-S/35/5
	Ø 35mm	3,3mm	4g	with pin	polyurethane	●	TPU/K3-GR-K/35/3,3
	Ø 35mm	3,3mm	4g	without pin	polyurethane	●	TPU/K3-GR/35/3,3
	Ø 35mm	3,3mm	4g	self-adhesive	polyurethane	●	TPU/K3-GR-S/35/3,3
	Ø 25mm	5mm	4g	with pin	polyurethane	●	TPU/K3-GR-K/25/5
	Ø 25mm	5mm	4g	without pin	polyurethane	●	TPU/K3-GR/25/5
	Ø 25mm	5mm	4g	self-adhesive	polyurethane	●	TPU/K3-GR-S/25/5
	Ø 25mm	3,3mm	3g	with pin	polyurethane	●	TPU/K3-GR-K/25/3,3
	Ø 25mm	3,3mm	3g	without pin	polyurethane	●	TPU/K3-GR/25/3,3
	Ø 25mm	3,3mm	3g	self-adhesive	polyurethane	●	TPU/K3-GR-S/25/3,3

TPU/K3



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TPU/K3	Ø 35mm	5mm	5g	with pin	polyurethane	●	TPU/K3-RE-K/35/5
	Ø 35mm	5mm	5g	without pin	polyurethane	●	TPU/K3-RE/35/5
	Ø 35mm	5mm	5g	self-adhesive	polyurethane	●	TPU/K3-RE-S/35/5
	Ø 35mm	3,3mm	4g	with pin	polyurethane	●	TPU/K3-RE-K/35/3,3
	Ø 35mm	3,3mm	4g	without pin	polyurethane	●	TPU/K3-RE/35/3,3
	Ø 35mm	3,3mm	4g	self-adhesive	polyurethane	●	TPU/K3-RE-S/35/3,3
	Ø 25mm	5mm	4g	with pin	polyurethane	●	TPU/K3-RE-K/25/5
	Ø 25mm	5mm	4g	without pin	polyurethane	●	TPU/K3-RE/25/5
	Ø 25mm	5mm	4g	self-adhesive	polyurethane	●	TPU/K3-RE-S/25/5
	Ø 25mm	3,3mm	3g	with pin	polyurethane	●	TPU/K3-RE-K/25/3,3
	Ø 25mm	3,3mm	3g	without pin	polyurethane	●	TPU/K3-RE/25/3,3
	Ø 25mm	3,3mm	3g	self-adhesive	polyurethane	●	TPU/K3-RE-S/25/3,3



Individual tactile surface warning studs from polyurethane mass

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

TPU-LINE / INDIVIDUAL TACTILE SURFACE WARNING STUDS

MODEL	DIAMETER	HEIGHT	WEIGHT	PRODUCT	MATERIAL	COLOUR	PRODUCT CODE
TPU/K3	Ø 35mm	5mm	5g	with pin	polyurethane	●	TPU/K3-BLU-K/35/5
	Ø 35mm	5mm	5g	without pin	polyurethane	●	TPU/K3-BLU/35/5
	Ø 35mm	5mm	5g	self-adhesive	polyurethane	●	TPU/K3-BLU-S/35/5
	Ø 35mm	3,3mm	4g	with pin	polyurethane	●	TPU/K3-BLU-K/35/3,3
	Ø 35mm	3,3mm	4g	without pin	polyurethane	●	TPU/K3-BLU/35/3,3
	Ø 35mm	3,3mm	4g	self-adhesive	polyurethane	●	TPU/K3-BLU-S/35/3,3
	Ø 25mm	5mm	4g	with pin	polyurethane	●	TPU/K3-BLU-K/25/5
	Ø 25mm	5mm	4g	without pin	polyurethane	●	TPU/K3-BLU/25/5
	Ø 25mm	5mm	4g	self-adhesive	polyurethane	●	TPU/K3-BLU-S/25/5
	Ø 25mm	3,3mm	3g	with pin	polyurethane	●	TPU/K3-BLU-K/25/3,3
	Ø 25mm	3,3mm	3g	without pin	polyurethane	●	TPU/K3-BLU/25/3,3
	Ø 25mm	3,3mm	3g	self-adhesive	polyurethane	●	TPU/K3-BLU-S/25/3,3

TPU/K3



Individual tactile surface warning studs from polyurethane mass

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TPU-LINE / INDIVIDUAL TACTILE SURFACE WARNING STUDS

MODEL	DIAMETER	HEIGHT	WEIGHT	PRODUCT	MATERIAL	COLOUR	PRODUCT CODE
TPU/K3	Ø 35mm	5mm	5g	with pin	polyurethane	●	TPU/K3-YE-K/35/5
	Ø 35mm	5mm	5g	without pin	polyurethane	●	TPU/K3-YE/35/5
	Ø 35mm	5mm	5g	self-adhesive	polyurethane	●	TPU/K3-YE-S/35/5
	Ø 35mm	3,3mm	4g	with pin	polyurethane	●	TPU/K3-YE-K/35/3,3
	Ø 35mm	3,3mm	4g	without pin	polyurethane	●	TPU/K3-YE/35/3,3
	Ø 35mm	3,3mm	4g	self-adhesive	polyurethane	●	TPU/K3-YE-S/35/3,3
	Ø 25mm	5mm	4g	with pin	polyurethane	●	TPU/K3-YE-K/25/5
	Ø 25mm	5mm	4g	without pin	polyurethane	●	TPU/K3-YE/25/5
	Ø 25mm	5mm	4g	self-adhesive	polyurethane	●	TPU/K3-YE-S/25/5
	Ø 25mm	3,3mm	3g	with pin	polyurethane	●	TPU/K3-YE-K/25/3,3
	Ø 25mm	3,3mm	3g	without pin	polyurethane	●	TPU/K3-YE/25/3,3
	Ø 25mm	3,3mm	3g	self-adhesive	polyurethane	●	TPU/K3-YE-S/25/3,3



Individual tactile surface warning studs from polyurethane mass

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

TPU-LINE / INDIVIDUAL TACTILE SURFACE WARNING STUDS

MODEL	DIAMETER	HEIGHT	WEIGHT	PRODUCT	MATERIAL	COLOUR	PRODUCT CODE
TPU/KH	Ø 35mm	5mm	5g	with pin	polyurethane	●	TPU/KH-BL-K/35/5
	Ø 35mm	5mm	5g	without pin	polyurethane	●	TPU/KH-BL/35/5
	Ø 35mm	5mm	5g	self-adhesive	polyurethane	●	TPU/KH-BL-S/35/5
	Ø 35mm	3,3mm	4g	with pin	polyurethane	●	TPU/KH-BL-K/35/3,3
	Ø 35mm	3,3mm	4g	without pin	polyurethane	●	TPU/KH-BL/35/3,3
	Ø 35mm	3,3mm	4g	self-adhesive	polyurethane	●	TPU/KH-BL-S/35/3,3
	Ø 25mm	5mm	4g	with pin	polyurethane	●	TPU/KH-BL-K/25/5
	Ø 25mm	5mm	4g	without pin	polyurethane	●	TPU/KH-BL/25/5
	Ø 25mm	5mm	4g	self-adhesive	polyurethane	●	TPU/KH-BL-S/25/5
	Ø 25mm	3,3mm	3g	with pin	polyurethane	●	TPU/KH-BL-K/25/3,3
	Ø 25mm	3,3mm	3g	without pin	polyurethane	●	TPU/KH-BL/25/3,3
	Ø 25mm	3,3mm	3g	self-adhesive	polyurethane	●	TPU/KH-BL-S/25/3,3

TPU/KH



Individual tactile surface warning studs from polyurethane mass

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TPU-LINE / INDIVIDUAL TACTILE SURFACE WARNING STUDS

MODEL	DIAMETER	HEIGHT	WEIGHT	PRODUCT	MATERIAL	COLOUR	PRODUCT CODE
TPU/KH	Ø 35mm	5mm	5g	with pin	polyurethane	○	TPU/KH-WH-K/35/5
	Ø 35mm	5mm	5g	without pin	polyurethane	○	TPU/KH-WH/35/5
	Ø 35mm	5mm	5g	self-adhesive	polyurethane	○	TPU/KH-WH-S/35/5
	Ø 35mm	3,3mm	4g	with pin	polyurethane	○	TPU/KH-WH-K/35/3,3
	Ø 35mm	3,3mm	4g	without pin	polyurethane	○	TPU/KH-WH/35/3,3
	Ø 35mm	3,3mm	4g	self-adhesive	polyurethane	○	TPU/KH-WH-S/35/3,3
	Ø 25mm	5mm	4g	with pin	polyurethane	○	TPU/KH-WH-K/25/5
	Ø 25mm	5mm	4g	without pin	polyurethane	○	TPU/KH-WH/25/5
	Ø 25mm	5mm	4g	self-adhesive	polyurethane	○	TPU/KH-WH-S/25/5
	Ø 25mm	3,3mm	3g	with pin	polyurethane	○	TPU/KH-WH-K/25/3,3
	Ø 25mm	3,3mm	3g	without pin	polyurethane	○	TPU/KH-WH/25/3,3
	Ø 25mm	3,3mm	3g	self-adhesive	polyurethane	○	TPU/KH-WH-S/25/3,3



Individual tactile surface warning studs from polyurethane mass

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

TPU-LINE / INDIVIDUAL TACTILE SURFACE WARNING STUDS

MODEL	DIAMETER	HEIGHT	WEIGHT	PRODUCT	MATERIAL	COLOUR	PRODUCT CODE
TPU/KH	Ø 35mm	5mm	5g	with pin	polyurethane	●	TPU/KH-GR-K/35/5
	Ø 35mm	5mm	5g	without pin	polyurethane	●	TPU/KH-GR/35/5
	Ø 35mm	5mm	5g	self-adhesive	polyurethane	●	TPU/KH-GR-S/35/5
	Ø 35mm	3,3mm	4g	with pin	polyurethane	●	TPU/KH-GR-K/35/3,3
	Ø 35mm	3,3mm	4g	without pin	polyurethane	●	TPU/KH-GR/35/3,3
	Ø 35mm	3,3mm	4g	self-adhesive	polyurethane	●	TPU/KH-GR-S/35/3,3
	Ø 25mm	5mm	4g	with pin	polyurethane	●	TPU/KH-GR-K/25/5
	Ø 25mm	5mm	4g	without pin	polyurethane	●	TPU/KH-GR/25/5
	Ø 25mm	5mm	4g	self-adhesive	polyurethane	●	TPU/KH-GR-S/25/5
	Ø 25mm	3,3mm	3g	with pin	polyurethane	●	TPU/KH-GR-K/25/3,3
	Ø 25mm	3,3mm	3g	without pin	polyurethane	●	TPU/KH-GR/25/3,3
	Ø 25mm	3,3mm	3g	self-adhesive	polyurethane	●	TPU/KH-GR-S/25/3,3

TPU/KH



Individual tactile surface warning studs from polyurethane mass

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

TPU-LINE / INDIVIDUAL TACTILE SURFACE WARNING STUDS

MODEL	DIAMETER	HEIGHT	WEIGHT	PRODUCT	MATERIAL	COLOUR	PRODUCT CODE
TPU/KH	Ø 35mm	5mm	5g	with pin	polyurethane	●	TPU/KH-RE-K/35/5
	Ø 35mm	5mm	5g	without pin	polyurethane	●	TPU/KH-RE/35/5
	Ø 35mm	5mm	5g	self-adhesive	polyurethane	●	TPU/KH-RE-S/35/5
	Ø 35mm	3,3mm	4g	with pin	polyurethane	●	TPU/KH-RE-K/35/3,3
	Ø 35mm	3,3mm	4g	without pin	polyurethane	●	TPU/KH-RE/35/3,3
	Ø 35mm	3,3mm	4g	self-adhesive	polyurethane	●	TPU/KH-RE-S/35/3,3
	Ø 25mm	5mm	4g	with pin	polyurethane	●	TPU/KH-RE-K/25/5
	Ø 25mm	5mm	4g	without pin	polyurethane	●	TPU/KH-RE/25/5
	Ø 25mm	5mm	4g	self-adhesive	polyurethane	●	TPU/KH-RE-S/25/5
	Ø 25mm	3,3mm	3g	with pin	polyurethane	●	TPU/KH-RE-K/25/3,3
	Ø 25mm	3,3mm	3g	without pin	polyurethane	●	TPU/KH-RE/25/3,3
	Ø 25mm	3,3mm	3g	self-adhesive	polyurethane	●	TPU/KH-RE-S/25/3,3



Individual tactile surface warning studs from polyurethane mass

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

TPU-LINE / INDIVIDUAL TACTILE SURFACE WARNING STUDS

MODEL	DIAMETER	HEIGHT	WEIGHT	PRODUCT	MATERIAL	COLOUR	PRODUCT CODE
TPU/KH	Ø 35mm	5mm	5g	with pin	polyurethane	●	TPU/KH-BLU-K/35/5
	Ø 35mm	5mm	5g	without pin	polyurethane	●	TPU/KH-BLU/35/5
	Ø 35mm	5mm	5g	self-adhesive	polyurethane	●	TPU/KH-BLU-S/35/5
	Ø 35mm	3,3mm	4g	with pin	polyurethane	●	TPU/KH-BLU-K/35/3,3
	Ø 35mm	3,3mm	4g	without pin	polyurethane	●	TPU/KH-BLU/35/3,3
	Ø 35mm	3,3mm	4g	self-adhesive	polyurethane	●	TPU/KH-BLU-S/35/3,3
	Ø 25mm	5mm	4g	with pin	polyurethane	●	TPU/KH-BLU-K/25/5
	Ø 25mm	5mm	4g	without pin	polyurethane	●	TPU/KH-BLU/25/5
	Ø 25mm	5mm	4g	self-adhesive	polyurethane	●	TPU/KH-BLU-S/25/5
	Ø 25mm	3,3mm	3g	with pin	polyurethane	●	TPU/KH-BLU-K/25/3,3
	Ø 25mm	3,3mm	3g	without pin	polyurethane	●	TPU/KH-BLU/25/3,3
	Ø 25mm	3,3mm	3g	self-adhesive	polyurethane	●	TPU/KH-BLU-S/25/3,3

TPU/KH



Individual tactile surface warning studs from polyurethane mass

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

TPU-LINE / INDIVIDUAL TACTILE SURFACE WARNING STUDS

MODEL	DIAMETER	HEIGHT	WEIGHT	PRODUCT	MATERIAL	COLOUR	PRODUCT CODE
TPU/KH	Ø 35mm	5mm	5g	with pin	polyurethane	●	TPU/KH-YE-K/35/5
	Ø 35mm	5mm	5g	without pin	polyurethane	●	TPU/KH-YE/35/5
	Ø 35mm	5mm	5g	self-adhesive	polyurethane	●	TPU/KH-YE-S/35/5
	Ø 35mm	3,3mm	4g	with pin	polyurethane	●	TPU/KH-YE-K/35/3,3
	Ø 35mm	3,3mm	4g	without pin	polyurethane	●	TPU/KH-YE/35/3,3
	Ø 35mm	3,3mm	4g	self-adhesive	polyurethane	●	TPU/KH-YE-S/35/3,3
	Ø 25mm	5mm	4g	with pin	polyurethane	●	TPU/KH-YE-K/25/5
	Ø 25mm	5mm	4g	without pin	polyurethane	●	TPU/KH-YE/25/5
	Ø 25mm	5mm	4g	self-adhesive	polyurethane	●	TPU/KH-YE-S/25/5
	Ø 25mm	3,3mm	3g	with pin	polyurethane	●	TPU/KH-YE-K/25/3,3
	Ø 25mm	3,3mm	3g	without pin	polyurethane	●	TPU/KH-YE/25/3,3
	Ø 25mm	3,3mm	3g	self-adhesive	polyurethane	●	TPU/KH-YE-S/25/3,3

APPLICATIONS

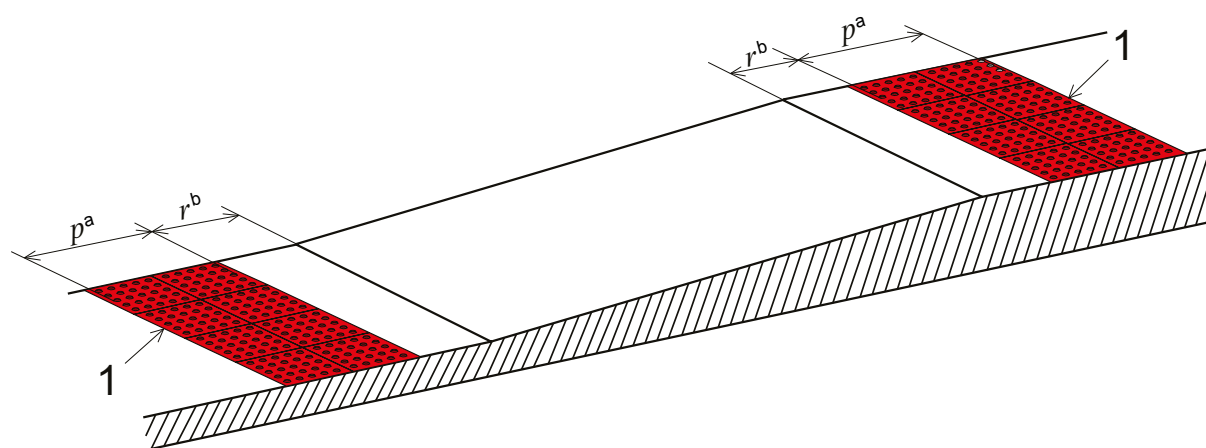
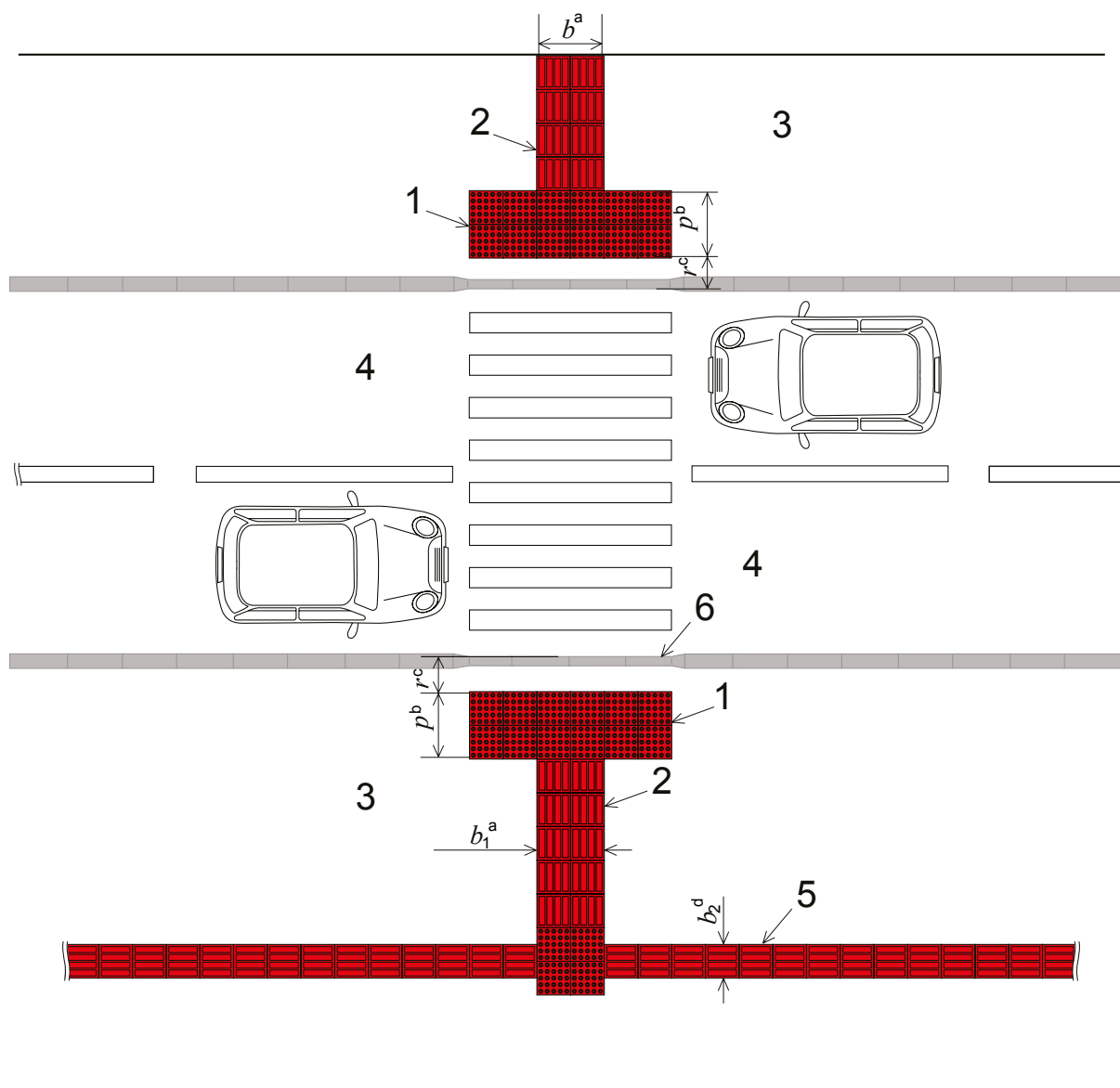
of tactile surface warning studs

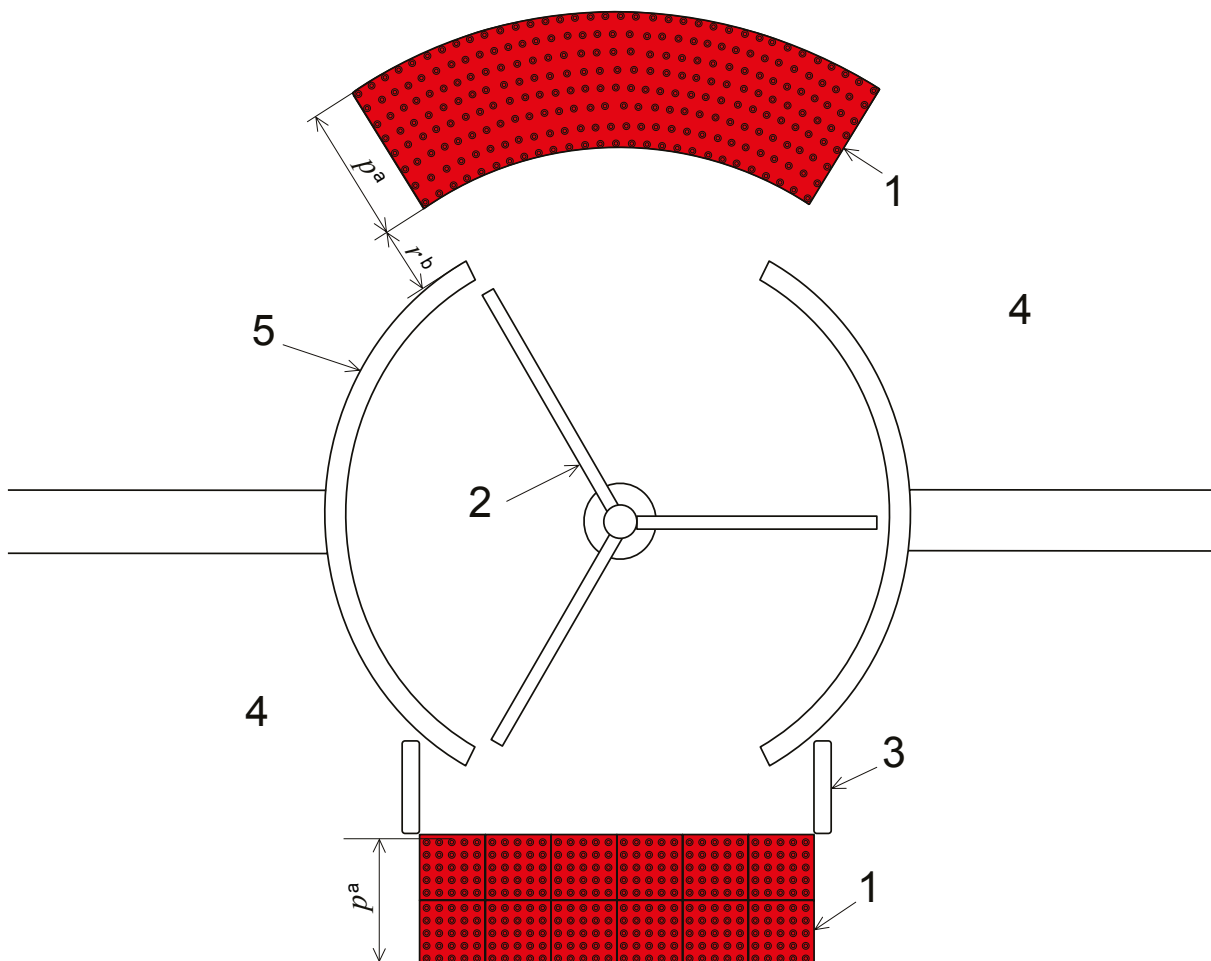
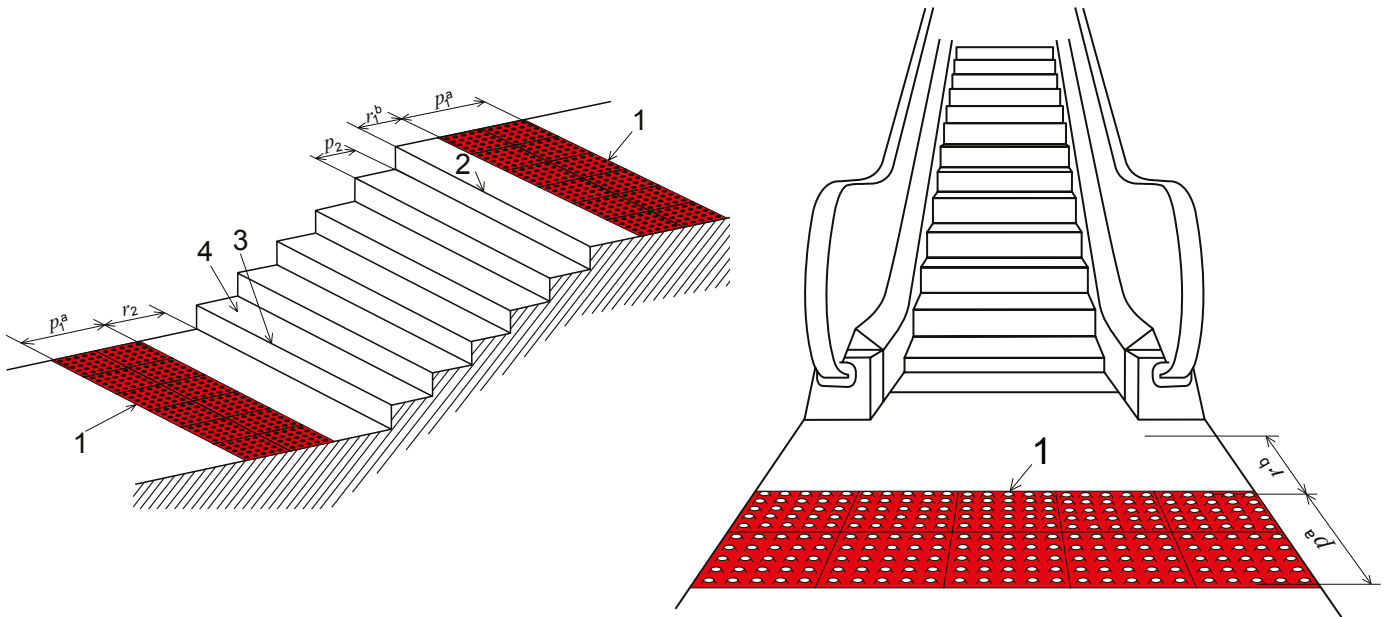
Versatile and flexible

Enormous variability and flexibility of individual tactile surface warning studs 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 studs in internal and external areas open to the public.

Warning studs - 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.





They are designed to meet international and European standards.

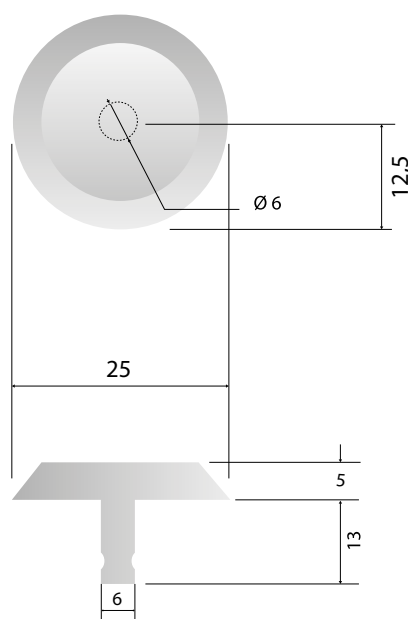
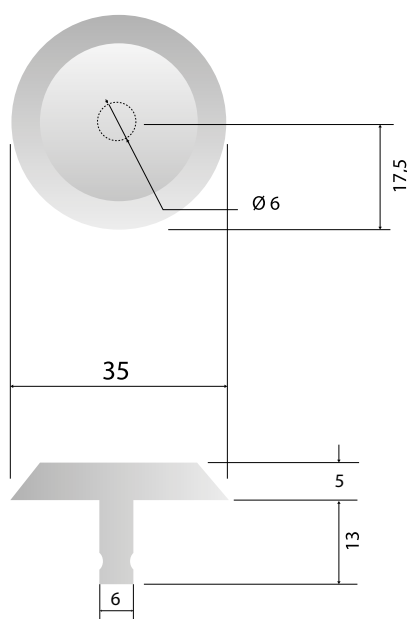
/Individual tactile surface studs are produced with the following dimensions/:

ISO 23599

Individual tactile surface warning studs from polyurethane with pin

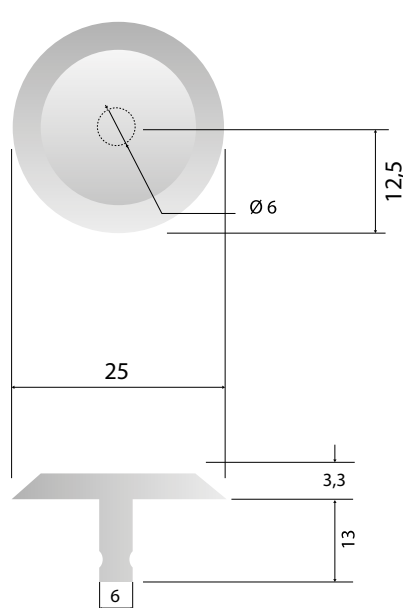
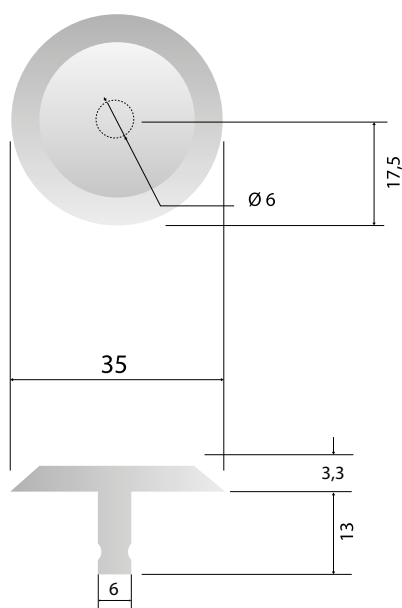
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2. TPU/K2-K/25/5; TPU/K3-K/25/5; TPU/KH-K/25/5



1. TPU/K2-K/35/3,3; TPU/K3-K/35/3,3; TPU/KH-K/35/3,3

2. TPU/K2-K/25/3,3; TPU/K3-K/25/3,3; TPU/KH-K/25/3,3



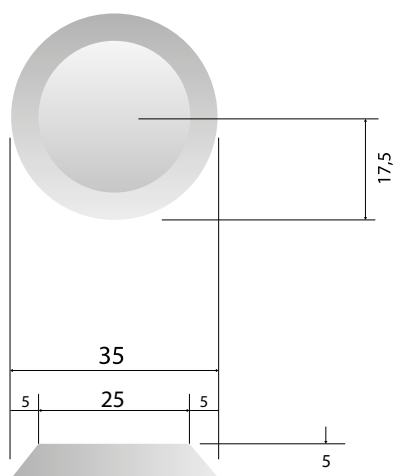
MATERIAL: polyurethane

INSTALLATION: drilling/sticking

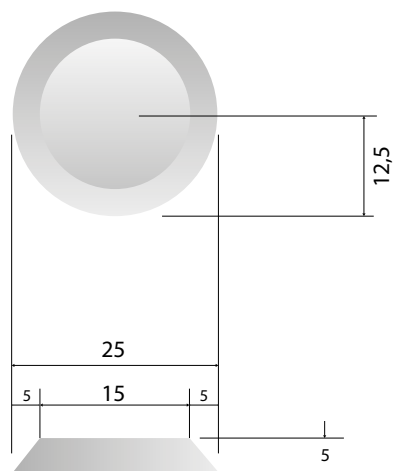
ISO 23599

Individual tactile surface warning studs from polyurethane without pin

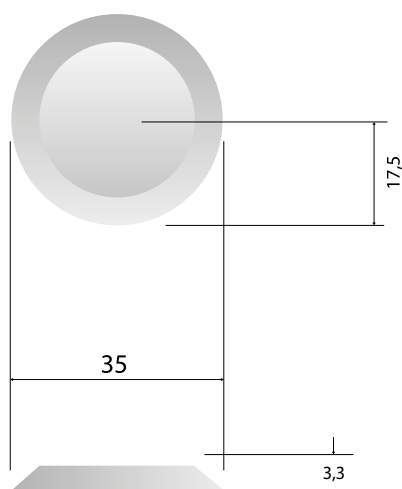
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TPU/K2-S/35/5; TPU/K3-S/35/5; TPU/KH-S/35/5



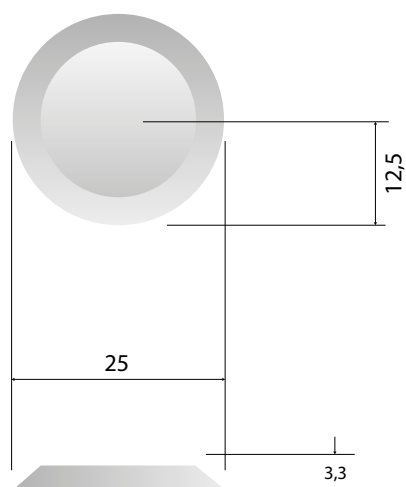
2. TPU/K2/25/5; TPU/K3/25/5; TPU/KH/25/5
TPU/K2-S/25/5; TPU/K3-S/25/5; TPU/KH-S/25/5



1. TPU/K2/35/3,3; TPU/K3/35/3,3; TPU/KH/35/3,3
TPU/K2-S/35/3,3; TPU/K3-S/35/3,3; TPU/KH-S/35/3,3



2. TPU/K2/25/3,3; TPU/K3/25/3,3; TPU/KH/25/3,3
TPU/K2-S/25/3,3; TPU/K3-S/25/3,3; TPU/KH-S/25/3,3



MATERIAL: polyurethane

INSTALLATION: sticking



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