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Gummikuler

Rubber balls are used as seating and communication islands in playing areas and also as playing components. Balls are manufactured by an environment-friendly process and can be recycled as process raw material at the end of their service life.

Material
Rubber granulate: granulated recycled rubber (approx. 90%)
Binding agent: MDI polyurethane (approx. 10%)
Topping: Coloured EPDM rubber granulate according to update chart of color range

Characteristics
Colour: EPDM color range
(minor colour variation possible)
Surface: smooth with open pores

Dimensions / Tolerances
Diameter: approx. 350 mm, 500 mm, 700 mm
Weight: approx. 23 kg, 65 kg, 170 kg
Tolerances: +/- 0,8%
Dimension steel anchors: Ø 32 mm (for size 350 mm), Ø48 mm (for size 500 and 700 mm)

Test Data
Fire resistance: E Efl (DIN EN 13501-1, 2002)
Chemical resistance: conditionally resistant to acids and bases
Cold fracture resistance: 24h / -40°C, no fracture
Cold crack resistance: 5h / -30°C, no cracks
DIN EN 1176-1:2008, EN 1176-1:2008
Production facility inspection

Installation
Install ball by optional steel mounting anchor into a prepared fresh concrete bed (grade C12/15) located over a stable-bearing substructure.
Half ball can installed directly in an fresh concrete bed or glued on an rubber surface like rubber tiles. Glue the steel anchor into the ball with Polyurethane glue.

Attention: A concrete bed equal with the ball diameter is recommended.

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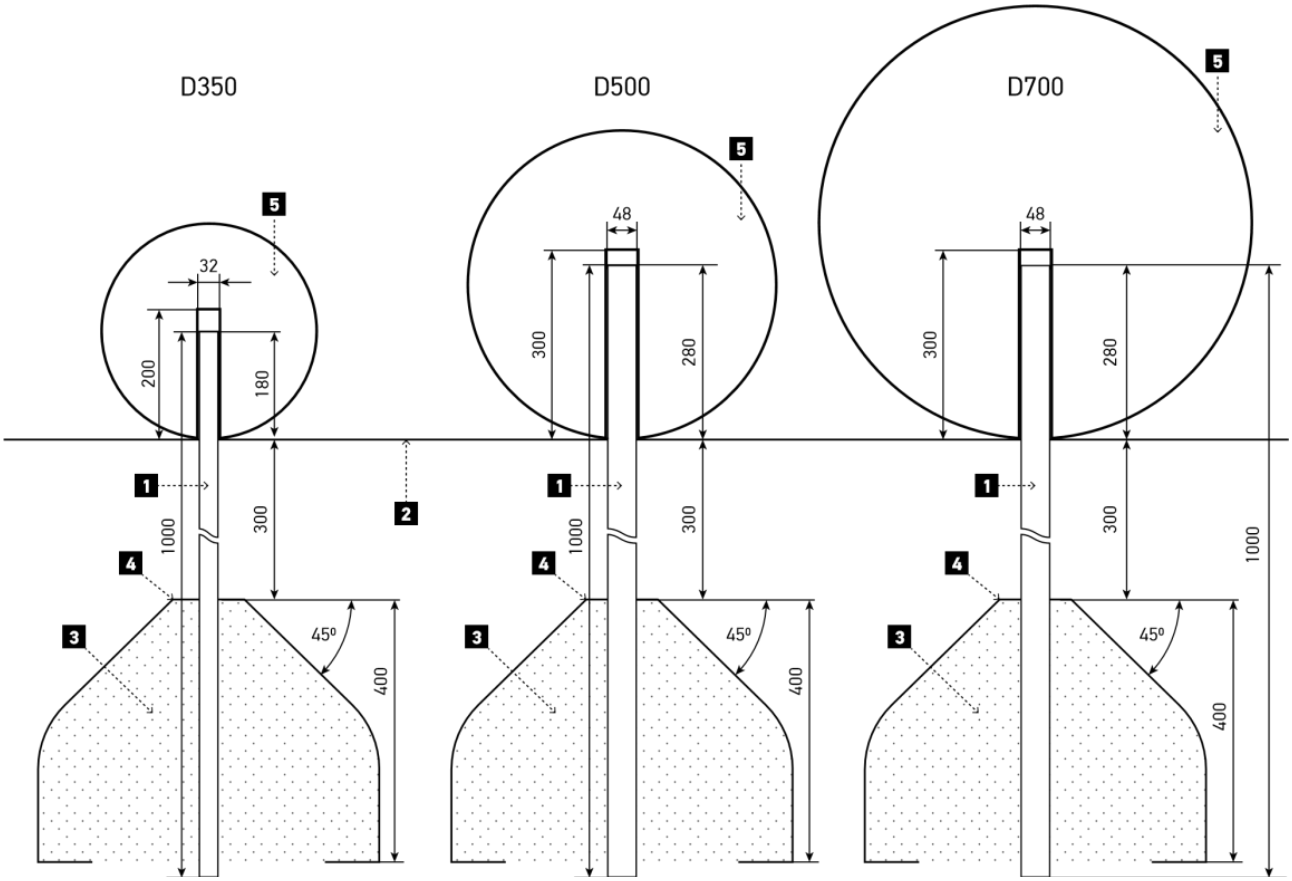

1- Steel anchor
2- Ground level
3- Concrete
4- Highest point of concrete under ground level
5- sphere

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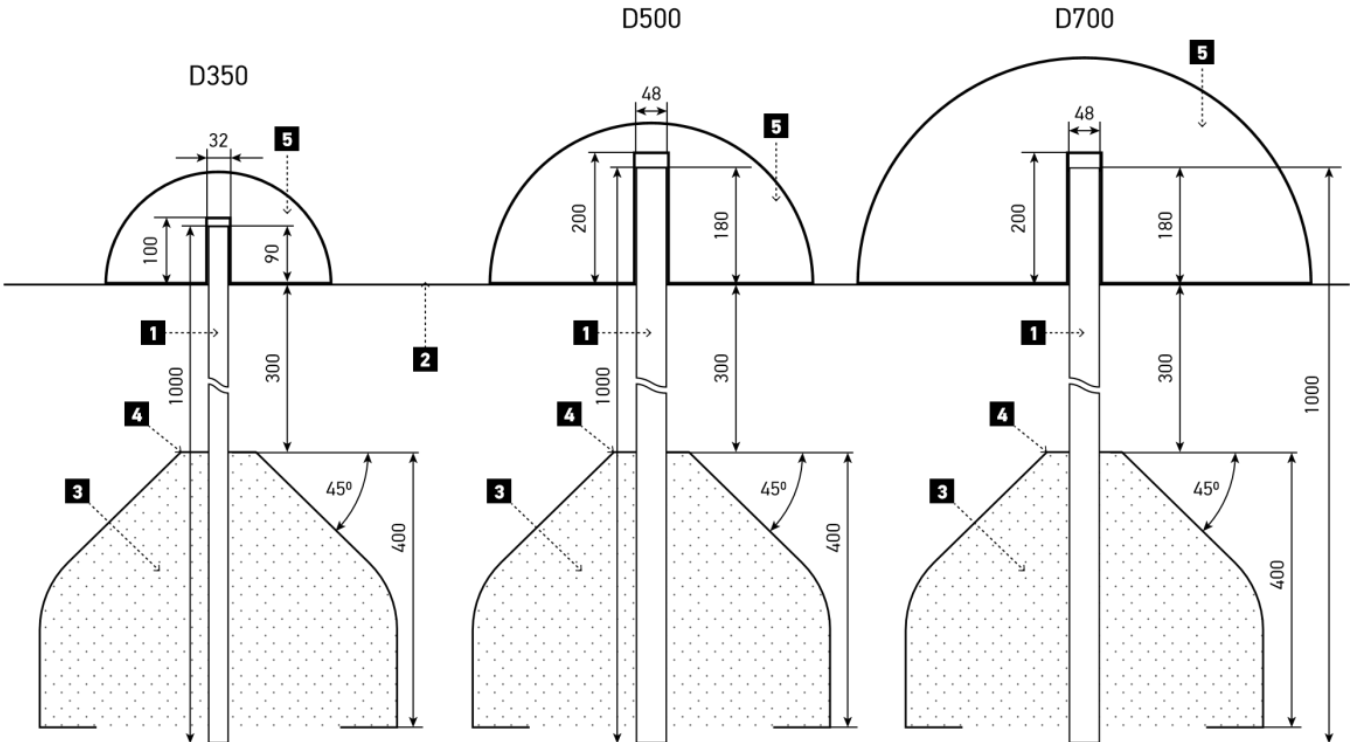
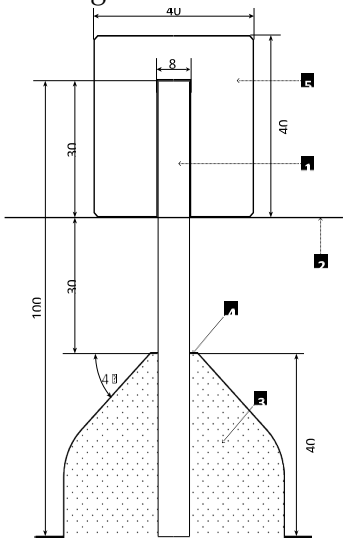
Drawing of hemisphere installation:



1- Steel anchor
2- Ground level
3- Concrete
4- Highest point of concrete under ground level
5- Hemisphere

Drawing of Cube installation:



1	Steel anchor
2	Ground level
3	Concrete
4	Highest point of concrete under ground level
5	Cube

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Please take care that Balls have at least with
1,5m minimum free space around
the product, measured from any side. If Balls are installed in groups, then minimum free space of 1,5m should be organized around the product group, measuring from side of product group area.

Balls should be installed on safety surface of children playground field.
The cubes, hemispheres and spheres with diameter of 500 and 700mm should be carried and installed using mechanical lifting tools, f.e. tripod with winch equipped with textile ropes.

To avoid color variations due to sunlight exposure, leave the UV protection film on the product as supplied until installation moment."

Care and cleaning Balls
Balls are nearly maintenance-free.
Regular cleaning of your installed Balls will promote a long useful life as well as attractive appearance.
Impurities can be cleaned with a soft-bristled broom or vacuuming with an industrial vacuum cleaner.
If moos and algae to result from atmospheric exposure, is recommended to use a high pressure water cleaner until 200bar without chemical additives!
Attention! The water pressure must be not too high.
The distance of water jet to the surface area should be minimum 30cm and the water temperature not higher than 80°C.
This cleaning of surface is to be made one time yearly.
Adherent impurities can be excluded with water and a scrubber.
It is possible to use a dilution soap suds.
After cleaning is recommended use water as a chaser.
If it is necessary removal snow at winter, keep in mind that the coating not breaks down by sharp-edged or to be overweight machinery or implements.
The application with commercial, allowed de-icing salt won't hurt the coating.
Attention! Don't use solvent based cleansing material.
They can damage the coating.

Updated May 2019