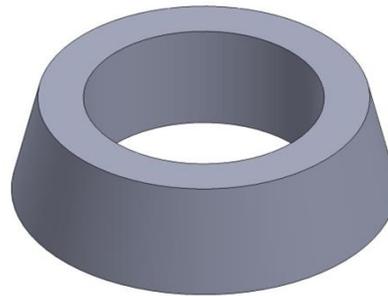
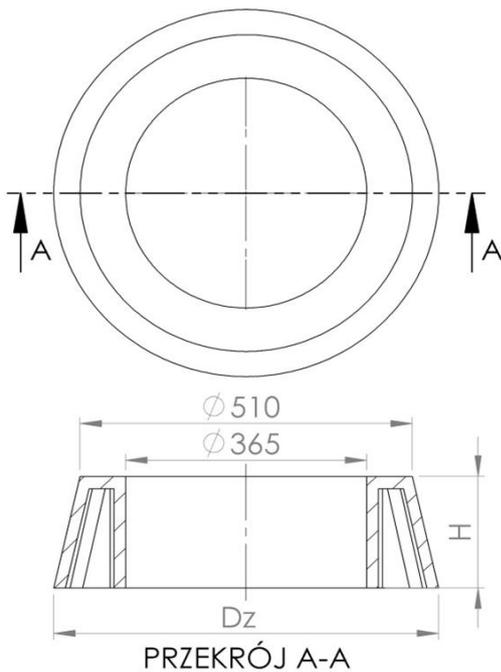


T3 / 315 relief cone

Intended for:

- Transfer of traffic loads from vehicle traffic acting on the finials of manholes beyond the shaft of the plastic well onto the structural layers of ground or road substructure.
- Protection of the shaft of the plastic inspection or rainwater chamber DN / ID 315 against damage both in the vertical and horizontal plane. (for shaft pipes DN / OD max 360 mm)
- Direct structural support:
 - traditional manholes with the outer diameter of the body frame up to max. 500 mm in class A15 ÷ D400,
 - compensating rings of TVR T system from group T1 / 320 and T2 / 320
 - adapters / guide rings (reduction DN 320 and DN300) for self-leveling manholes and street inlets 360x440 mm
 - plastic protective covers T4 / 315

T3 / 315 relief cone for plastic manholes.


Index	DN(mm)	DZ(mm)	H(mm)	Weight(kg)	Class
T3/315/B125	365	600	200	25	B125
T3/315/D400	365	600	200	30	D400

3.Application

The T3 / 315 relief cone enables full relief / protection of the shaft of the rising pipe of the plastic inspection chamber against traffic loads. It is a direct support for traditional manholes with the outer diameter of the manhole flange up to 500mm, adapters for telescopic manholes, compensation and leading rings as well as protective covers. Together with the T1 / 320/50 ring, it forms a set for relieving the shaft pipe DN / ID 315, topped with a telescopic manhole 315 based on a road structure.

For use in communication engineering in accordance with the above-mentioned purpose in the field of public roads without limits, internal roads, and railway engineering structures without limits. In the traffic areas of groups 1-4, in class D400 according to PN-EN 124-1: 2015-07. It meets the conditions of suitability for use specified in PN-EN 14802: 2005

Used in: • 315 Wavin inspection chambers

Technical parameters of T3 / 315 relief cone

Compressive strength. Class	400kN D400	PN-EN 124-1 07-2015
Tensile strength	3Mpa	PN-EN ISO 527-1:2012
Degree of resistance to frost in water	F150(-2%)	PB IBDIM PB/TB-1/23
Degree of frost resistance in 2% NaCl	F50(-2%)	PB IBDIM PB/TWm-36/98
Absorptivity	<0,2%	PN-EN ISO 62:2008
Mechanical loss	0,33 tg	
Hardness according to Shore	>46	PN-EN ISO 868:2005
Product dimensional tolerance	± 5mm in diameter, ± 3mm in height	
Support surface	B125-828 cm ² D400-980 cm ²	
Thermal resistance	-30°C do +60°C	In continuous work conditions.
Short-term thermal resistance 170°C	2h	In the conditions of installation in the bituminous surface
PVC / PE material	80%	PN-EN 15346 2009

Product reference documents:

National Technical Assessment No. IBDiM-KOT-2017/0047 3rd edition

National Declaration of Performance No. 05 / EW / 22

Code CN 39259090

General assembly instructions:

- around the shaft pipe, (reducer) of the well cone (≥ 30 cm) make the thickening of the substructure for the finial in accordance with the rules resulting from soil conditions, compaction index, road structure type and traffic load category based on PN-ENV 1046 standard.
 - Conduct compaction by hand, in layers, every 15 cm or with light mechanical equipment, in layers, every 30 cm along the entire height of the well, evenly around the circumference and obtain the degree of soil compaction in accordance with the design, requirements of the manhole assembly instructions:
 - in areas with no traffic, the degree of density should be at least 92% on the Proctor scale, in pedestrian traffic routes (class A), the degree of density $\leq 95\%$, vehicle load (class D) $\geq 98\%$ on the Proctor scale.
 - in order to maintain proper compaction, it is recommended to stabilize the soil with cement
 - the ground under the load-relieving cone should be flat and free from point loads, consisting of gravel, sand, lean concrete (chippings, etc. are not allowed.)
 - Before starting the assembly works of the T3 / 315 relieving cone, check whether all the elements of the near-surface finial of the plastic manhole are structurally suited to the intended use:
 - whether the manhole has been properly adjusted to the ordinate, e.g. by cutting the shaft pipes
 - is there a sufficient height between the top of the shaft pipe and the relief cone of the chamber, at least 4 cm
 - whether the compaction of the foundation around the well is correct and adequate for the location of the relief cone foundation.
 - whether the appropriate height is maintained to the surface ordinate to allow for the installation of a manhole
 - a gasket (with a lubricant) should be installed on the shaft of the plastic well from the outside
 - we place the relief cone centrally over the well opening without disturbing the substructure / compacted substrate, leaving a free space of about 3-4 cm between the top of the shaft pipe and the upper edge of the cone (or a reduction ring up to 320mm)
 - the finial of the well should be made in a tight manner, polymer bonding masses should be used between all the components of the finial, i.e. relief cone, shaft pipe, telescopic pipe of manhole, elastomeric gaskets should be used. Between the horizontal surfaces of the equalizing / reducing rings, the upper surface of the relief cone and the manhole cover, apply polymer bonding-sealing masses.
 - in the event of a change in the ordinate of the surface, it is possible to perform (additional) adjustment of the traditional manhole with the TVR T system compensation rings (T1 or T2 / 320) placed on the T3 / 315 relief cone
 - Place the compensation rings centrally over the manhole, one on top of the other, pressing firmly until the required adjustment height is achieved.
 - Place the manhole centrally over the manhole opening and anchor with screws to the relief cone or compensation rings
- In traffic areas**
- around the finial of the plastic manhole, up to the height of the manhole foot, make a road surface foundation based on breakstone (approx. 65-70%) and quick-setting cement masses (approx. 30-35%) or B35 concrete or asphalt mass / hot asphalt concrete
 - reconstruction of the road surface around the near-surface finial is made in layers with appropriate compaction of each hot applied bitumen layer to the level of the pavement ordinate
 - commissioning should take into account the necessary time of complete cooling of the bituminous mass, allowing it to be put into service
- In green areas**
- the relief cone with the protective cover should be raised above the ground level to protect against the inflow of surface water (at least 5-8 cm above the ground)

Notes on installation conditions

During height adjustment of sewage wells and drains with the use of plastic elements of the TVR T System, it is forbidden to:

- installation and assembly of relief cones on an unprepared, uncompressed substructure around the manhole. Without providing full permanent support for the relief cone.
- use of ground materials for compaction of the substructure that do not comply with the recommendations of the manufacturer of manholes and materials other than those approved for use in road construction described in PN-S 02205, height adjustment, overlapping, placing point destructive elements under the cones
- laying the surface without making the correct foundation, filling and compacting the space around the finial and the manhole