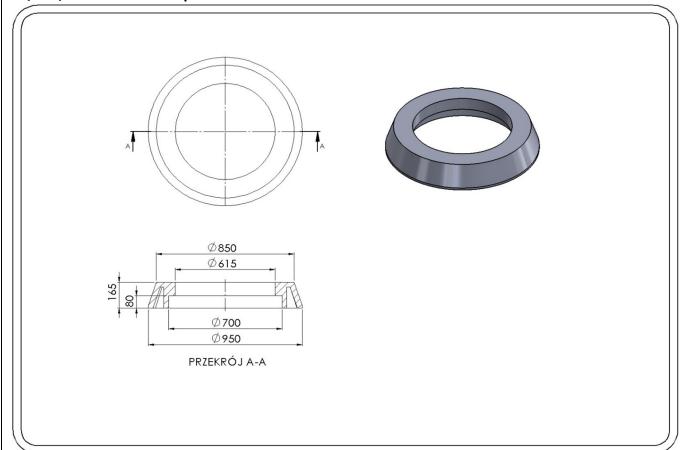
# T3/615/BR relief cone without edge

#### Intended for:

Transfer of traffic loads from vehicle traffic acting on the finials of manholes beyond the core of the plastic well onto the structural layers of ground or road substructure.

- Protection of the shaft of the plastic DN / ID 600 well against damage both in the vertical and horizontal plane.
- Finials of inspection chambers DN / ID 600, manholes DN800, DN 1000, with a reduction cap / reducer with an external diameter DN / OD up to a maximum of 692mm and a minimum height of 450 mm.
- Direct structural support:
  - manholes with the outer diameter of the body frame up to max.850 mm in class A15 ÷ D400,
  - compensating rings of TVR T system from group T1/620, T1/625,T1R/625, T1/700
  - adapters for street drains from the TX / 765 group and flange street drains 400x600 (min. outer diameter of the drain flange 700mm)
  - leading rings for self-levelling manholes of the TVR T system from the TXS group

# T3/615/BR relief cone for plastic chambers



Index	DN(mm)	DZ(mm)	H(mm)	Weight(kg)	Class
T3/615/BR	615/700	850/960	180	53	D400

### 3.Application

The universal relief cone is an element for the construction of near-surface finials of plastic inspection and manhole wells DN/ID 600 and DN/OD max 692mm in class D400. The T3/615/BR relief cone enables full relief / protection of the shaft of the rising pipe of the plastic chamber against traffic loads. It provides direct support for manholes, adapters supporting sewage drains, telescopic adapters, compensation and leading rings as well as foundation plates and protecting covers.

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:

- Tegra 600, Tegra 1000NG Wavin manholes
- Pro 630 Pipelife manholes
- Procor 600 manholes, Profile Piła

# Technical parameters of T3 / 615 relief cone

400kN D400	PN-EN 124-1 07-2015	
3Мра	PN-EN ISO 527-1:2012	
F150(-2%)	PB IBDIM PB/TB-1/23	
F50(-2%)	PB IBDIM PB/TWm-36/98	
<0,2%	PN-EN ISO 62:2008	
0,33 tg		
>46	PN-EN ISO 868:2005	
± 5mm in diameter, ± 3mm in height		
1828 cm²		
-30°C do +60°C	In continuous work conditions.	
2h	In the conditions of installation in the bituminous surface	
80%	PN-EN 15346 2009	
	3Mpa  F150(-2%)  F50(-2%)  <0,2%  0,33 tg  >46  ± 5mm in diameter, ± 3mm in height  1828 cm²  -30°C do +60°C  2h	

### **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 ( at the distance from the edge of the well ≥ 30 cm) ) make the thickening of the substructure for the finial in accordance with the rules resulting from ground 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 ground 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 ≤95%, vehicle load (class D) ≥98% on the Proctor scale.
- in order to maintain proper compaction, it is recommended to stabilize the ground with cement or use Geotextile sheet 1200x1200mm with Ø680mm hole
  - the ground under the relieving cone should be flat and free from point loads, consisting of gravel, sand, dry concrete (chippings, etc. are not allowed.)
- Before starting the assembly works of the T3 /615 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 of well / reducer 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 thevault of the cone
- 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 or a telescopic adapter, elastomeric gaskets should be used. Between the horizontal surfaces of the equalizing rings, the upper surface of the relief cone and the manhole cover, apply polymer bonding-sealing masses.
- in case of a change in the ordinate of the surface, it is possible to perform (additional) adjustment of the manhole with the TVR T system compensation rings placed on the T3 / 615 /BR 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
- around the finial of the plastic manhole, up to up to the foot of the manhole 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 and the manhole 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

## Notes on installation conditions

# During height adjustment of sewage wells 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