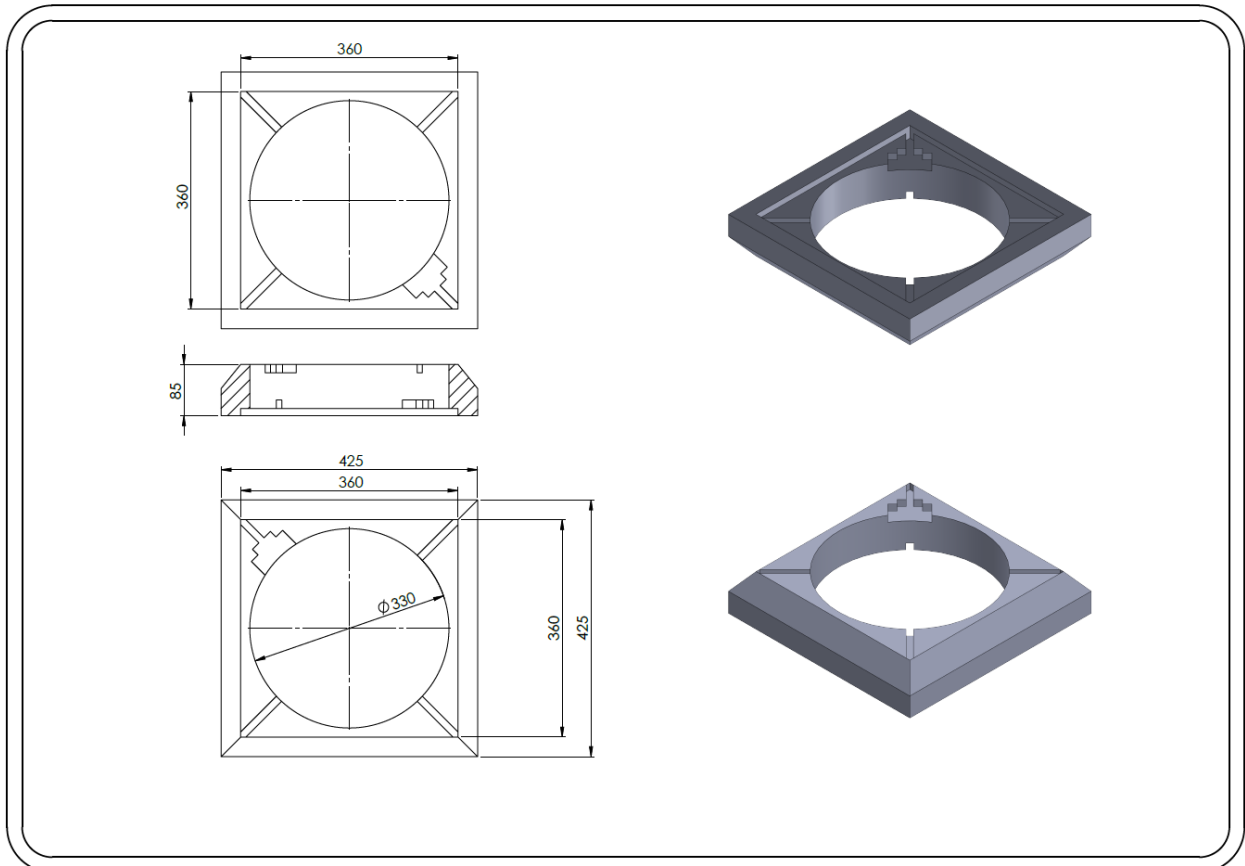


An adapter TXO / 315 / N355C supporting the telescopic manhole

Intended for:

- Distribution of traffic loads from road traffic acting on the tops of plastic manholes over a larger surface of the soil layer, road base and pavement structure.
- Protection of the telescopic pipe of the inspection or storm well DN/ID 315 against damage both in the vertical and horizontal plane. Used in DN 315, DN 400, DN425 manholes
- Direct structural support:
 - telescopic manholes/inlets of plastic manholes DN 315 with an outer diameter of the body frame 355x355 mm, class A15÷D400, placed on an oblique side in bituminous surfaces.
 - telescopic manholes/inlets of plastic manholes DN 315 with an outer diameter of the body frame 355x355 mm, class A15÷D400, placed in paving stones, paving slabs, with the square side surrounding the manhole frame.

Adapter supporting TXO/315/N355C for telescopic manholes and plastic manholes.



Index	DN(mm)	DZ(mm)	H(mm)	Weight(kg)	Class
TXO/315/N355C	330	420	100	10,4	D400

3.Application

Universal adapter increasing the support surface for manholes and telescopic inlets 315, 355x355mm body, B125 and D400 class, for use in bituminous surfaces, paving stones and paving slabs.

Placed directly under the manhole body in road construction. It is recommended to glue the adapter to the telescopic drain before installation (Würth glue and sealant).

The T1 320/50 ring can provide additional support for the adapter. The adapter can be used with other types of DN315 telescopic manholes and inlets indirectly by placing a 3-5 cm layer of asphalt over the adapter.

Designed for square supporting bodies of manholes with external dimensions of the flange 355x355mm and external diameter of the telescope 330mm (e.g. Cofunco - model 355x355 with a cover hinge).

For use in communication engineering in accordance with the above-mentioned purpose in the field of public roads without restrictions, internal roads, roads and railway engineering facilities without restrictions.

In traffic areas of groups 1-4, in class up to and including D400 acc. PN-EN 124-1:2015-07.

Used in:

- Under the 315 Cofunco telescopic hatch.

Technical parameters of TXO / 315 / N355U compensation rings

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
Stopień mrozoodporności w 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 Schore	>46	PN-EN ISO 868:2005
Dimensional tolerance of the product	± 5mm in diameter, ± 3mm in height	
Support surface	1027cm ²	
Thermal resistance	-30° C do +60° C	W warunkach pracy ciągłej.
Short-term thermal resistance 170° C	2h	W warunkach montażu w nawierzchni bitumicznej
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. 09 / EW / 22

Code CN 39259090

General assembly instructions:

- Around the shaft well (at a distance of ≥ 30 cm from the edge), compact the base course for the topping in accordance with the rules resulting from the ground conditions, compaction index, road structure type and traffic load category based on PN-ENV 1046 standard.
 - Perform the 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 92% on the Proctor scale, in pedestrian traffic routes (class A) the degree of density should be $\leq 95\%$, in the vehicle load (class D) it should be $\geq 98\%$ on the Proctor scale.
 - In order to maintain the proper compaction, it is recommended to stabilize the soil with cement
 - The ground / backfill around the shaft, sleeve, telescopic pipe should be free from point loads, consisting of gravel, sand, lean concrete (chippings and similar materials that damage the walls of plastic pipes are excluded).
 - Put the supporting adapter on the telescopic pipe so that the bottom of the manhole rests on the adapter (you can glue the manhole with the adapter with glue + sealant)
 - Before starting the assembly works of the telescopic manhole with the TXO / 315 / N355U adapter, check whether all the elements of the surface of the plastic manhole are structurally suited to the intended use:
 - whether the well has been properly adjusted to the ordinate, e.g. by cutting the shaft pipes,
 - whether there is an adequate margin of about 20 cm for inserting a telescopic pipe,
 - 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, enabling the installation of the adapter with the telescopic manhole,
 - a gasket (or reducing and sealing collar with a lubricant) should be installed inside the shaft of the plastic well in the highest valley
 - insert a telescopic manhole into the shaft with an adapter on the appropriate height what enables proper compaction under the adapter
 - in case of a change in the ordinate of the surface, it is possible to slide the telescopic manhole out of the adapter and place a compacted bitumen layer in the space between the adapter and the manhole and press the manhole on
 - in pavements made of cobblestone, paving stone, the adapter with a telescopic manhole should be mounted on a sand-cement base,
 - the adapter should be flush with the pavement
- In traffic areas**
- around the top of the plastic manhole, up to the height of the adapter bottom, make the base of the road surface based on breakstone (approx. 65-70%) and quick-setting cement masses (approx. 30-35%) or B35 concrete or asphalt mass / hot asphalt concrete
 - 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 supporting adapter stabilizes and secures the settlement of the telescopic manhole

Notes on installation conditions

During the height adjustment of sewage wells with the use of plastic elements of the TVR T System, unacceptable is:

- installation and assembly of support adapters on an unprepared, uncompacted substructure around the well
- use of ground materials for compaction of the foundation 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 destructive elements acting on a point under the adapters
- laying the surface without making the correct foundation, filling and compacting the space around the surface of the plastic manhole