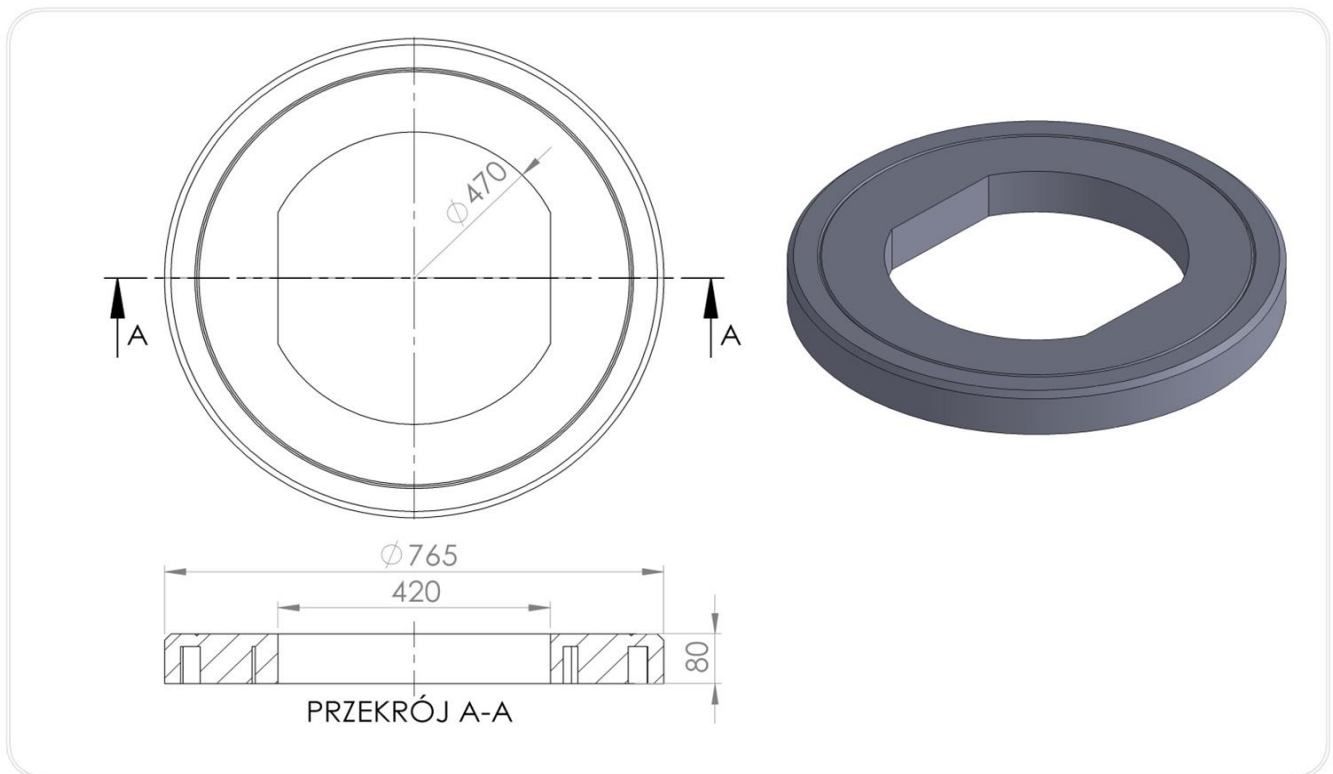


TX/765/420/470/80 Adapter for street drains

- **Intended for:**
- direct placement of flanged roadway drains class D400, type 420x620 (outer diameter of the drain collar at least 620mm) and 420x620 without flanged drains, curb and curb-road drains 400x600
- Direct (after preparation) placement of D400 class 400x600 drains with a ¾ flange (at curbs) and oval drain (e.g. 420x470)
- reduction of the diameter of concrete manholes DN 500 and DN 600, and plastic manholes
- centralizing the outflow of surface water to receiving wells

TX/765/420/470/80 Adapter for street drains



Index	DN(mm)	DZ(mm)	H(mm)	Weight(kg)	Class
TX/765/420/470/80	420/470	765	80	27,2	D400

3. Application:

TX/765/420/470/80 adapter for street drain made of plastic is a prefabricated element in the D400 class for the construction of tight surface finials of sewage drains and other devices for the collection of surface water. Adapters are direct supporting / load-bearing elements for the sewage drain ensuring full support for the drain frame, tightness of the finial and trouble-free support for the surface around the drain. They are an element of height adjustment of the manhole and street drain. They are placed on concrete intermediate rings of DN 500 street drains (also on cover plates based on relief rings) and compensation rings type T1 / 500, T2 / 500.

On the T3/425, T3/600, T3/615 relief cones, on telescopic adapters DN600 they form the basis for the installation of flanged sewage drains 420x620 with the outer diameter of the flange $\varnothing 680 \div 750$ mm.

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

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

Attention. 1. To support **without flanged** street drains type 420x620, only in areas group 2, according to PN-EN 124-1: 2015-07. In low risk areas, e.g. drain bays.

Technical parameters of the TX/765/420/470/80 adapter

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 Schore	>46	PN-EN ISO 868:2005
Dimensional tolerance of the product	± 5 mm in diameter, ± 3 mm in height	
Support surface	2280cm 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. 07 / EW / 22

Code CN 39259090

General assembly instructions:

- before starting the assembly works with the elements of the TVR T system, check whether the diameters (external and internal) are appropriate for a given rain water well, drain and that all elements are structurally suited to the intended application
- determine the necessary amount, the height of the compensation rings for height adjustment, taking into account the angle of inclination, the height of the TX/765/420/470/80 supporting adapter, the height of the sewage drain, the thickness of the repair layer
- T1 /500 compensation rings, inlet supporting adapters may be installed on the elements of concrete chambers, provided that the ground on which they are to be installed is in good technical condition. They require the provision of an even, strong base / foundation.
- any defects, unevenness, damage, leaks should be repaired before the installation of compensating rings, adapters by making a compensating and repair layer with the use of cement quick-setting masses or resins with appropriate strength and operating parameters, dedicated by the manufacturer to repair the finials of sewage manholes, anchoring manholes
- the thickness of the repair layer should be in accordance with the recommendations of the manufacturer of quick-setting masses
- the rain water drain finial should be made in a tight manner, polymer adhesives and sealants should be used between all the elements of the top, i.e. compensation rings, supporting adapter, drain
- place the rings centrally over the manhole, one on top of the other, pressing firmly until the required adjustment height is achieved.
- the elements of the immediate vicinity of the street drain, such as edges, curbs, drainage elements, etc. should be matched to the drainage device. The integrity of the construction of the surface finial should be maintained as much as possible.
- the adapters are delivered to the recipient in full form (cutting / matching the adapter to the curb can be made directly at the construction site up to the size of **630mm**)
- on the compensation rings, place the supporting adapter for the street drain, with the sealing on the bottom
- under and around the finial make reconstruction / substructure of the road surface based on breakstone (approx. 65-70%) and cement quick-setting masses (approx. 30-35%)
- reconstruction of the road surface around the finial is made in layers with appropriate compaction (in accordance with the design)
- 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 and sewage drains with the use of plastic elements of the TVR T System, it is forbidden to:

- compensation rings/ supporting adapters installation on damaged elements of sewage chambers, on uneven, unrepaired, unprepared surfaces, not providing full permanent support for compensation rings or an adapter
- use any placing point destructive elements (bars, plates, cut rings, etc.) for height adjustment via putting them on the compensation rings
- use of concrete mortars between the plastic compensation rings
- install manholes that are structurally and dimensionally unadjusted to the elements directly supporting the TVR T system
- make high adjustments above 25cm only on the rings with low dimensions
- laying the surface without making the correct foundation, filling and compacting the space around the finial