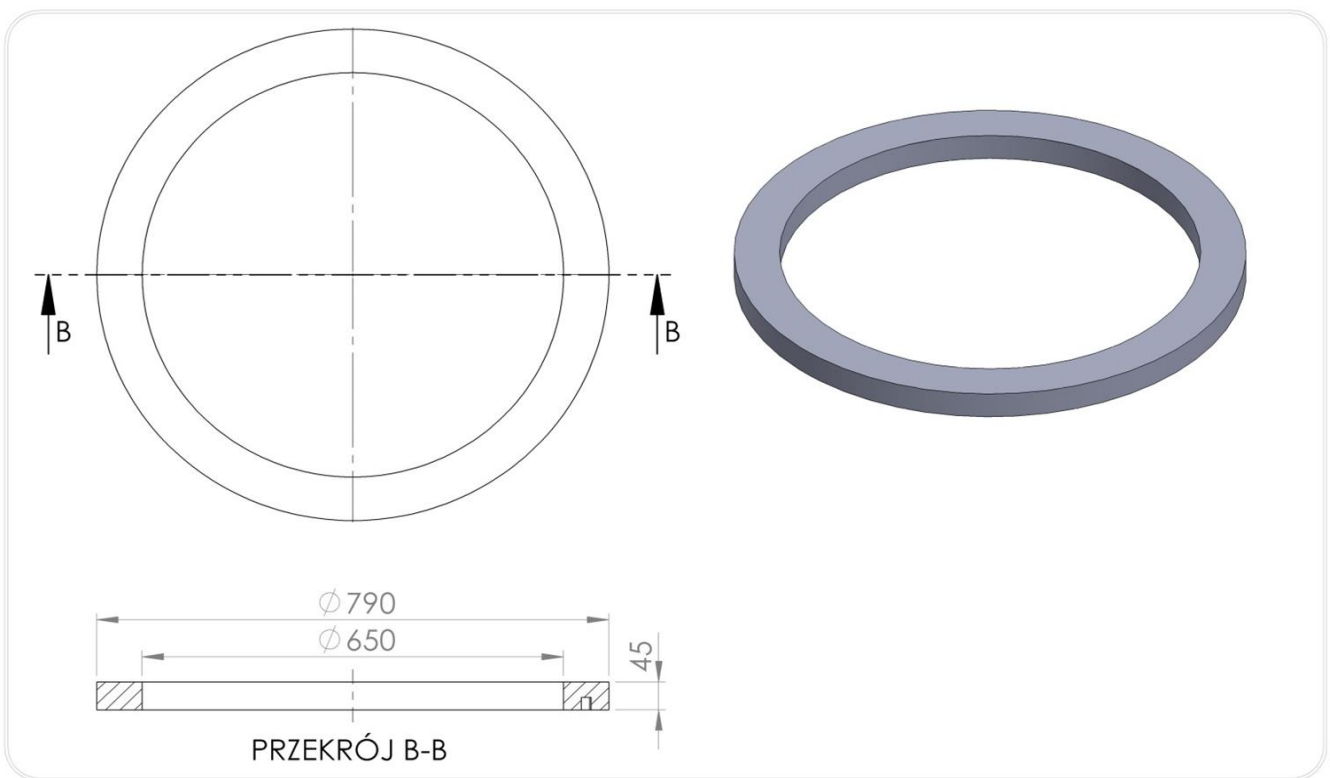


**Adapter / leading ring TXS / 650/45 for self-leveling manholes**

**Intended for:**

- Integration (through diameter and height connections) of a self-leveling manhole set on and in the bituminous surface with the surface finials of a concrete manhole with a DN600 or DN 625, DN 650 manhole
- Integration (through diameter and height connections) of a self-leveling manhole set on and in the bituminous surface with a near-surface finial consisting of a relief cone T3 / 600, T3 / 615, set around a plastic manhole with a DN600, DN625 manhole
- complementary height adjustment element for the TXS / 650/90 adapter
- Protection of the self-leveling manhole against horizontal displacement during exploitation

**Adapter / leading ring TXS / 650/45 for self-leveling manholes**



Index	DN(mm)	DZ(mm)	H(mm)	Weight (kg)	Class
TXS/650/45	650	790	45	9,5	D400

**3. Application:** Adapter / leading ring made of plastic TXS / 650/45 is a prefabricated element of the well fanials ensuring height adjustment, connection of self-leveling manholes with external diameters of the leading pipe max. 640mm including the manhole. It is set on compensation rings from groups T1 / 600 and T1R / 625, T1 / 640, T1N / 650 and with the TXS / 650/90 adapter, it enables a diametrical connection with a self-leveling manhole which outer diameter of the leading pipe is larger than the diameter of the compensation rings or the opening of a concrete manhole.

For use in 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 D400 according to PN-EN 124-1: 2015-07

**4. Self-leveling manholes:**

- Manufacturer of EJ self-leveling manholes INFRATOP SELFLEVEL 190 I 145

Attention. Do not use to directly support a self-leveling manhole. Horizontal storage on pallets.

**Technical parameters of TXS/650/45/620 leading adapter / ring**

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	1436 cm <sup>2</sup>	
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. 08 / EW / 22

Code CN 39259090

**General assembly instructions:**

- Before starting the assembly works of the self-leveling manhole with the use of adapter / leading rings of the TVR T system, it is necessary to check whether the diameter dimensions (external and internal) are appropriate for a given manhole, self-leveling manhole and whether all the elements are structurally suited to the intended application. It is necessary to check whether sufficient height between the cover plate / reducer / relief cone relieving and the bituminous surface ordinate is enough to enable the installation of a self-leveling manhole. This height should be at least 5 cm higher than the height of self-leveling manhole.
- determine the necessary amount, the height of the compensation rings for height adjustment, taking into account the height of the leading adapter, the thickness of the repair layer and a minimum of 10cm of bituminous layer under the manhole flange
- T1/600 or T1R/625 compensation rings may be installed on the upper 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, adapter / leading rings 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 compounds
- the surface of the manhole 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, adapter / leading rings .
- Place the compensation rings centrally over the manhole, one on top of the other, pressing firmly until the required adjustment height is achieved.
- on the compensation rings, place the leading adapter for the self-leveling manhole or the support element for the manholes with the sealing on the bottom.
- check the height between the top of the adapter and the road surface ordinate (it should be 10cm)
- around the top make substructure of the road surface (to half the height of the leading adapter ) based on breakstone (approx. 65-70%) and cement quick-setting masses (approx. 30-35%) or B35 concrete or asphalt / hot asphalt concrete
- Insert a metal formwork inside the adapter to make a bituminous load-bearing layer for the support of the self-leveling manhole.
- reconstruction of the road surface around the near-surface finial and metal formwork is made in layers with appropriate compaction of each hot applied bituminous layer to the level of the surface ordinate
- After removing the metal formwork from the opening, immediately insert and press a self-leveling manhole into the compacted hot asphalt mass
- 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:

- compensation rings installation on damaged elements of sewage chambers, on uneven, unrepaired, unprepared surfaces, not providing full permanent support for compensation rings or adapter / leading rings .
- 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
- Direct embedding of self-leveling manholes on adapters / leading rings without placing 10 cm thick asphalt layer between them
- make high adjustments above 30cm only on the rings with low dimensions
- laying the surface without making the correct foundation, filling and compacting the space around the manhole and the manhole