



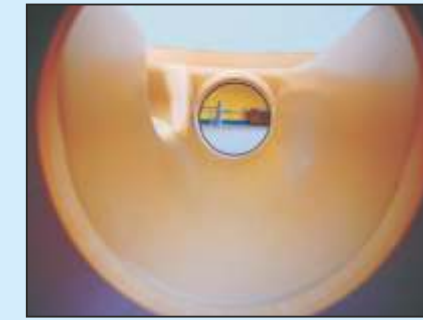
MANHOLE-BASE-LINER



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MADE OF POLYPROPYLENE



PREDL® - base liners made of polypropylene are the best protection for concrete-manholes. Due the casting-process you get a high-quality concret, this is additionally protected through a homogeneous PP-coat. Especially the protection is against: aggressive medias and mechanical damages. The smooth surface of the channel ensures the best hydraulics – this saves much money for maintenance and inspections.



ADDITIONAL CONNECTIONS

Frequently the question is asked whether and how additional connections can be implemented to a manhole with PREDL®-base-liner. In principle can be attached additional connections at each manhole with PREDL®-base-liner. Because manholes with PREDL®-base-liner have a very high concret-quality, you only need to drill a hole of the size of the incoming pipe.



Stand 05/2022

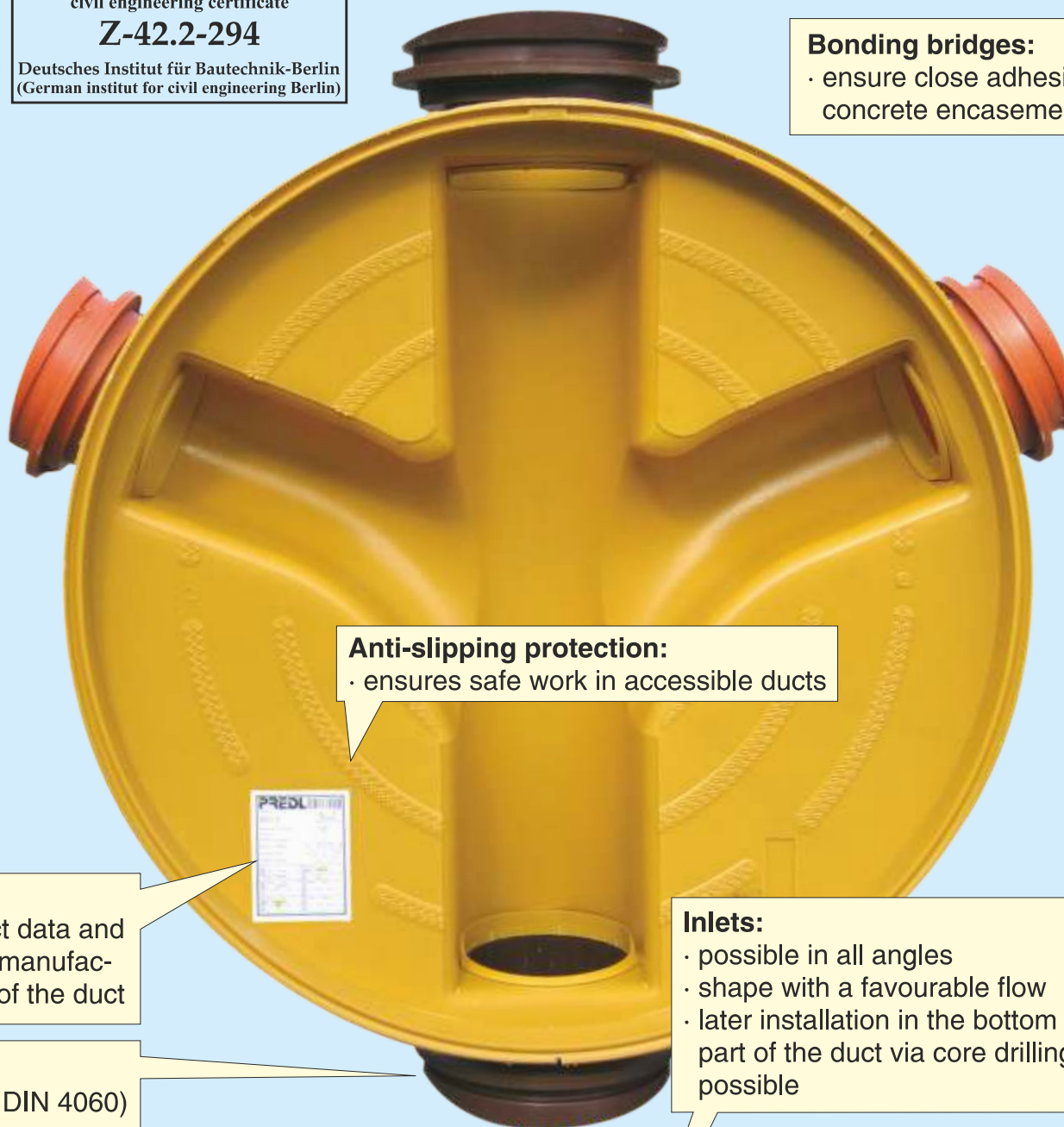
Highest quality - at favourable prices and with short terms of delivery - also duct construction follows this trend into the new millennium. **The PREDL® duct bottom follows this tendency as well:**

- it ensures -> long-lasting waste water-resistant protection for concrete manholes
- at a -> competitive price
- and it can be -> delivered quickly

Offering a variety of over 1.500 basic forms the PREDL® manhole liner can presently be delivered in **more than 100.000 variants** with **nominal diameters of DN 600, 800, 1000, 1200 and DN 1500** including the suitable connections for all commercial types of drops.

"A product designed for the protection of the environment must be manufactured in a way as environmentally compatible as possible" - also in this respect the PREDL® manhole liner is fit for the future: all standard models as well as most of the PREDL® duct lining are made of environmentally compatible materials already - whereby waste material is completely recycled and again included in the material cycle. Exactly on this aspect we are concentrating all our further developments - and with the PREDL®-manhole liner made of polypropylene we are opening up a new chapter of manhole liner history.

civil engineering certificate
Z-42.2-294
Deutsches Institut für Bautechnik-Berlin
(German institut for civil engineering Berlin)



Bonding bridges:
· ensure close adhesion with the concrete encasement of the duct

Anti-slipping protection:
· ensures safe work in accessible ducts

Manhole papers:
· the "ID card" of each duct - contains all duct data and ensures complete documentation from the manufacturing of the manhole liner up to the laying of the duct

Manhole lining:
· tight and flexible installation (according to DIN 4060) of all commercial types of drops
· water barrier and silica sand coating prevent lateral water infiltration
· upon request with convex face of the cut functioning as formwork aid

Channel:
· smooth and without any joints, ensures best hydraulics, thereby little effort regarding maintenance and inspections

Inlets:
· possible in all angles
· shape with a favourable flow
· later installation in the bottom part of the duct via core drilling possible

