FITTINGS FOR TUNNEL SEGMENTS



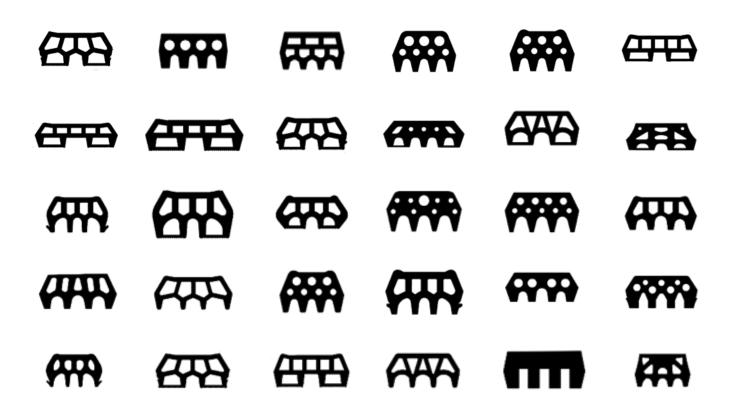
SEALING GASKETS GROUT INJECTION & LIFTING SOCKETS PIN SOCKET SYSTEMS BOLTS & BOLD SOCKETS GUIDING RODS PACKERS ADHESIVE





SEALING GASKETS

Sealing Gaskets are mainly Ethylene Propylene Diene Monomer (EPDM) or equivalent polymer based and meeting the most demanding requiremets of tunnels. The gaskets are formed according to the type of segment by hotwelded corners, providing all required tests, resistant to adverse grount conditions and meeting all technical enforcements.





GROUT INJECTION & LIFTING SOCKETS

Grout Injection and Lifting Sockets are ready or impulse designed according to tunnel construction processes requirements.

They can be used for lifting, grout injection, grounding, hanging services and rail fixing.

We have a wide range of grout and concrete injection and lifting sockets providing all strength values described in Project specifications and standards.

Besides we can also manifacture with the options of open and closed mouth sockets.







PIN SOCKET SYSTEMS

There are different type and design of pin socket systems available. The most commonly used type consist of two sockets, one centering ring and one pin. The polymer type is choosen according to project's technical requirements or according to customer's request. The inner reinforcing steel rod provides a more durable structure





The bolts are used for radial and circumferential system between segments. The pols system consists of two parts including bolt and bolt socket. The polymer bolt sockets are installed during the precasting process and bolts are screwed immediatelly after the segment instullation.





GUIDING RODS

Guding Rods are mainly PP based products and they ensure an accurate alignment between the segments. They are in variable lenghts depending on the project requirements. It is recommended to stick to the short side of the segment. Thus it strengthens the structure

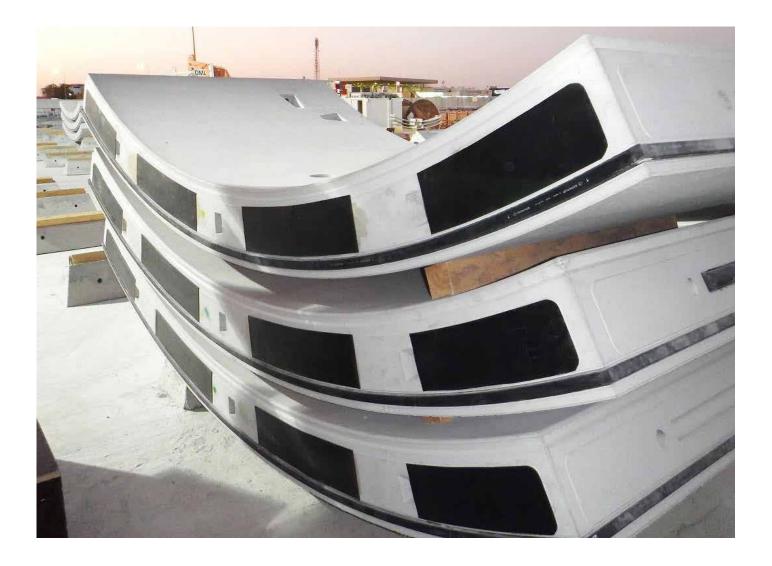






PACKERS

Packers are the softening pads that prevent the segment from being damaged during the transportation and installation of the segments. Bituminous types also contribute to sealing.





ADHESIVE

SGA 100 is a toluene free rubber based adhesive used for strong bonding of gaskets to segments. It is easy to apply and quite fast drying product. It is applicable from +5 $^{\circ}{\rm C}$ to + 60 $^{\circ}{\rm C}.$

Can be stored for many months at suitable conditions.



CERTIFICATE















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