



Tunnel segment gaskets

Trelleborg cuts engineering time by a third to meet customer demand in Azerbaijan.

Trelleborg's Engineered Products operation reduced its engineering time by a third, to meet the short turnaround time required to supply its tunnel segment gaskets for the new Metroline Baku tunnel, Azerbaijan.

Usually taking approximately three months to produce a new profile type, Trelleborg developed a new gasket profile to meet the project's needs for increased water pressure, in just two months. Working alongside the Tunnel Boring Machine (TBM) partner and forming close internal project groups, leading manufacturer, Trelleborg, maximized the efficiency of its processes to ensure that a high performance solution could be supplied on time.

Vincent van de Vrie, Sales Manager within the Engineered Products operation of Trelleborg Offshore & Construction in Ridderkerk, the Netherlands commented: "The time pressure that we put ourselves under was tough, as was the challenge to meet the high water pressure of the tunnel, using a small profile to fit into the current gasket groove. The gasket also had to handle this water pressure with more than a 50% offset of the profile.

"As the water tightness performance decreases overtime, the testing pressure should be higher than the working pressure. This meant that rather than designing for a performance of 6 bar, we actually had to cater for minimal 12bar, to guarantee the pressure for over 100 years."

Trelleborg locates the gaskets in pre-cast grooves surrounding the mating faces of each segment, which ensures a secure rubber-to-rubber waterproof seal as soon as the segments are compressed together. Even when faced with natural ground movement, differing water pressures and harsh wet and dry conditions, the gasket keeps its bond and ensures a tight seal.

The proven track record for durability and reliability of Trelleborg's gaskets, mean that costly remedial work to seal leaks after construction are eliminated.

For additional information regarding these products, please visit our website at [Trelleborg Engineered Products](https://www.trelleborg.com/engineered-products)

For additional information on Trelleborg Engineered Products' solutions, please call Jacco Vonk, direct: +31 180 495 595, Email: jacco.vonk@trelleborg.com

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Notes to Editors:

Trelleborg Engineered Products and Trelleborg Group

As part of the Offshore and Construction business area of Trelleborg Group, Trelleborg Engineered Products is a world leader in the design and production of engineered rubber solutions which seal, damp and protect across a broad range of industries, including civil engineering, dredging and energy infrastructure. Manufacturing a range of engineered solutions including world class sealing systems for tunnels, flood barriers and sluices, noise and vibration isolation bearings, as well as grout seals for offshore wind farms, the company is also a leading supplier of hoses to the dredging industry. Based in Ridderkerk, the Netherlands, Trelleborg Engineering Products has supplied its products to many prestigious projects around the world, since its launch in 1879 www.trelleborg.com/infrastructure

Trelleborg is a world leader in engineered polymer solutions that seal, damp and protect critical applications in demanding environments. Its innovative engineered solutions accelerate performance for customers in a sustainable way. The Trelleborg Group has annual sales of about SEK 21 billion (EUR 2.5 billion, USD 3.3 billion) in over 40 countries. The Group comprises five business areas: Trelleborg Coated Systems, Trelleborg Industrial Solutions, Trelleborg Offshore & Construction, Trelleborg Sealing Solutions and Trelleborg Wheel Systems. In addition, Trelleborg owns 50 percent of TrelleborgVibracoustic, a global leader within antivibration solutions for light and heavy vehicles, with annual sales of approximately SEK 15 billion (EUR 1.7 billion, USD 2.3 billion) in about 20 countries. The Trelleborg share has been listed on the Stock Exchange since 1964 and is listed on NASDAQ OMX Stockholm, Large Cap. www.trelleborg.com