

NO MATTER WHAT  
THE FUTURE HOLDS



**DATWYLER**

# Tunnelling Newsletter

II. Quarter  
2016

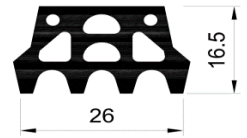


## LATEST PROJECTS

### Metro Quito Line 1 / EC



Builder: Odebrecht / Acciona JV  
 Type of gaskets: glued on / „Tokio“ M 38541a  
 Delivery time: September 2016 - July 2017

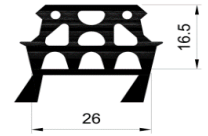


Sets	13.300 sets	Segment thickness	320 mm
Tunnel length	19.950 m	Segment width	1.500 mm
Outer diameter	9.070 mm	Number of segments	6+1
Inner diameter	8.430 mm	Groove length	77,36 m

### Northern Line Extension / UK



Builder: Morgan Sindall Construction  
 Type of gaskets: anchored / „Lee Tunnel“ M 38566  
 Delivery time: July 2016 - June 2017



Sets	3.500 sets	Segment thickness	250 mm
Tunnel length	5.250 m	Segment width	1.500 mm
Outer diameter	5.700 mm	Number of segments	5+1
Inner diameter	5.200 mm	Groove length	53,19 m

## FINISHED PROJECTS

### Metro LAX Crenshaw / US

- 2.095 sets of glued on gaskets were delivered
- 8 containers were shipped
- delivery time 6 months
- Opening in 2019



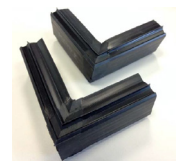
### Paris Ligne 14 Lot 1 / FR

- 2.130 sets of anchored gaskets were delivered
- 12 trucks were shipped
- delivery time 14 months
- Opening in 2019



## NEW TECHNICAL TOPICS - ANCHORED GASKET WITH 50° CORNER

Based on the geometry of anchored gaskets, the volume increase during conventional injection moulding. Through 50° cutting the corner section decrease in length and will be softer. A further advantage is that there is one third less injection compound at unchanged holding force and tightness performance. This new technology is applicable to all types of anchored gaskets. The corner sections can be easier loosen from formwork during demould process.



50° cutting angle for 90° and adjusted corner



Comparison injection compound 90° left / 50° right

## REFERENCES

Month / Year	Project	Outside Tunnel-diameter	Month / Year	Project	Outside Tunnel-diameter
06/2016	Baikal Tunnel / RU	9.070 mm	04/2016	LACMTA Westside Extension / US	6.350 mm
05/2016	Ohio Canal Interceptor Tunnel/ US	8.940 mm	03/2016	Port Said Tunnel / EG	12.600 mm
05/2016	Northern Line Extension / UK	5.700 mm	02/2016	IDRIS MTS 02 / QA	5.600 mm
04/2016	Gallerie du Bassin d'Ukkelbeek/ BE	5.160 mm	12/2015	Kolkata Metro UG 1 / IN	6.100 mm
04/2016	Metro Quito Line 1 / EC	9.070 mm	12/2015	Koishibarugawa Dam Water / JP	2.800 mm