

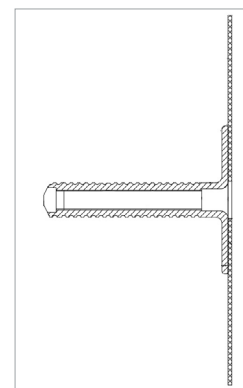
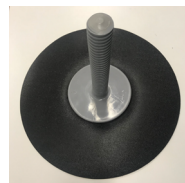
FLAGON-ANCHOR

TECHNICAL DATA SHEET ANZ-TDS-25-FLAGON ANCHOR

DESCRIPTION

FLAGON-ANCHOR is an anchoring system for PVC waterproofing membrane for tunneling. It allows the steel bars and other items to be fixed to support without penetrating waterproofing layer of the FLAGON BSL membrane.

FLAGON-ANCHOR is a completely sealed anchoring system made of a rigid PVC sleeve specifically designed for M-16 bolt. The flange of the sleeve is manufactured on a 280mm diameter of PVC-P membrane FLAGON BSL. Used with our FLAGON BSL system for tunnel, it maintains the complete integrity of the PVC waterproofing even under high water pressure.



APPLICATION

After installation of waterproofing membrane is completed, drill a 28 mm hole in the substructure with a length L=200 mm

Check and clean the hole with brush or compressed air. Make sure there is no water in the hole.

Inject a solvent free thixotropic epoxy resin up to the half of the hole (100 mm).

Insert the FLAGON-ANCHOR prior curing of the resin. Make sure the PVC flange is flush with FLAGON BSL membrane.

Clean the flange of Flagon – Anchor, weld onto Flagon BSL membrane with hot air gun.

Insert an M16x2.0 all-thread rod into the FLAGON-ANCHOR. The length and density of FLAGON-ANCHOR must be determined by the engineer.

A pull out test must be performed to determine the maximum tensile load of the anchor.

QUALITY CONTROL

SOPREMA has always attached the highest importance to quality control. For this reason, we operate an internationally recognized quality system meeting ISO 9001 & ISO 14001 standards, independently monitored and certified.

PROPERTIES

PROPERTIES	FLAGON-ANCHOR
Sleeve material	PVC-P
Sleeve diameter, mm	28
Sleeve length, mm	200
Sleeve flange diameter, mm	120
PVC flange material	FLAGON BSL
PVC flange thickness, mm	2
PVC flange diameter, mm	280

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PROPERTIES

Properties	FLAGON BSL	
	BSL 2.0	Test method
Thickness (mm)	2.0 (±5%)	EN 1849-2
Mass per unit area (kg/m²)	2.60	EN 1849-2
Dimensional stability (%)	≤ 2	EN 1107-2
Tensile strength (N/mm²)	-Longitudinal -Trasversal	EN ISO 527-3 EN 12311-2
Elongation at break (%)	-Longitudinal -Trasversal	EN ISO 527-3 EN 12311-2
Water permeability after 6 hrs at 0.5Mpa	Watertight < 10-6m3m-2d-1	EN 1928 (B) EN 14150
Static puncture resistance(kg)	> 20	EN 12730
Tear strength (N/mm)	≥ 45	ISO 34 sample fig.2
Cold bending (°C)	≤ - 25	EN 495/5
Resistance to perforation by roots	No perforation	CEN TS 14416
Reaction to fire	E	EN 13501-1
Joint peel resistance (N/50mm)	≥ 200	EN 12316-2
Water vapour transmission (μ)	20,000	EN 1931

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this publication is based on the present state of our best knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, their representative or the contractor is responsible for checking the suitability of products for their intended use.

Note: Field service where provided, does not constitute supervisory responsibility. Suggestions made by Soprema Australia Pty Ltd either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Soprema Australia Pty Ltd are responsible for carrying out procedures appropriate to a specific application.

DOCUMENT CONTROL	
Product	Flagon Anchor
Initial Issue	30.10.2019
Amendment	
Author	JJ