BluSeal PVC BA Anchor

PVC Anchor Sleeve

Material Description

BluSeal PVC BA Anchor is designed for watertight attachment of rock fixings to the tunnel surface.
BluSeal PVC BA Anchor is a closed, watertight system which allows steel reinforcement and other items to be fixed to the rock without creating any water path through the membrane liner. The system has been designed to meet international standards for tunnel waterproofing.
BluSeal PVC BA Anchor is a fully sealed anchor protection system which is made of the highest quality PVC materials to meet International standards. The innovative sleeve design allows rock fixings to be installed whilst maintaining complete integrity of the continuous sheet membrane system. Inside the flange is an M16 female thread designed to insert a steel anchor for hanging reinforcement and other components. The flexibility of the system and the high working load capacity make this solution an integral part of any tunnel waterproofing system. The robust design and high working loads make it ideal for use in many underground waterproofing applications.

Characteristics and Benefits

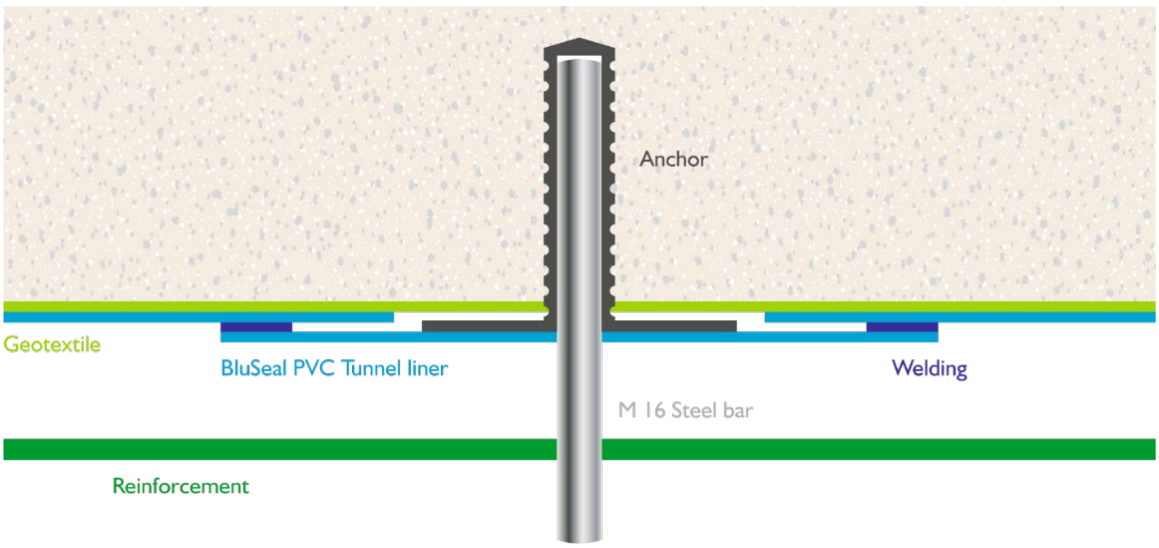
- Easy to install
- Conforms and exceeds all major international standards
- Compatible with BluSeal Tunnel liner
- High quality PVC for long term durability and integrity
- Closed system no water path

Product Data

Dowel Diameter	28mm
Dowel Length	200mm
Thread Diameter	M16mm
Drill-hole Diameter	32mm
Flange Diameter	120mm
BluSeal PVC Tunnel Liner Flap Diameter	300mm
Pull Out/Bond Strength	This needs to be verified on site for each rock type

Note

Due to the installation methodology of BA Anchor systems, it is important to maintain temporary drainage behind the membrane system during construction, as unrestrained water build up behind the membrane may result in damage to the anchor.



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Performance Data

BluSeal PVC Tunnel Liner Properties		
Tested Characteristic	**Standard**	**Result**
Appearance	EN 1850-2	No tears, blisters, bubbles, pores or any other type of visual imperfection,
Straightness and Flatness	EN 1848-2	g ≤50mm g ≤10mm
Density	EN ISO 1183-1	1.28g/cm^3 ±0.03
Nominal Thickness including Signal Layer	EN 1849-2	2.0mm ±10%
Thickness of the Signal Layer	EN 1849-2	≤0.2mm
Tensile Strength	EN ISO 527-3	L ≥16N/mm^2 T ≥16N/mm^2
Elongation at Failure	EN ISO 527-3	L ≥300% -10%+20% T ≥300% -10%+20%
Resistance Under Water Pressure	EN 1928 (Method B)	5 bars @ 1 hour No leakage
Root Resistance	EN 14416	No penetration
Tear Resistance	EN 12310-2	≥80N/mm
Tensile Strength of Welded Seam - Shear Test - Peel Test	 EN 12317-2 EN 12316-2	 Break outside the seam ≥6N/mm
Water Absorption	EN ISO 62	≤4%
Fire Resistance and Combustibility	EN ISO 11925-2	Class E
Impact Resistance: Height of Fall Without Perforation	EN 12691 (A)	≥750mm
Dimensional Stability after Accelerated Ageing	EN ISO 1107-2	≤2%
Condition after Accelerated Ageing	EN 1850-2	No visible defect
Resistance to Artificial Weathering	EN 1850-2	No visible defect
Chemical Resistance: Behaviour After Storage in Aqueous Solutions	EN 1850-2	TBC as part of durability assessment
Thermal Ageing	EN 1296	70 days storage @ 80°C Change in tensile strength < 10% Change in elongation < 10%

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Disclaimer

This Technical Data Sheet is provided for general information and instruction only. The properties and characteristics set out herein represent typical testing results under laboratory conditions. Results of actual product characteristics may vary slightly. Site-specific and project-specific conditions may affect product performance, including without limitation: surfaces, environmental conditions, contact conditions, storage conditions, storage timeframes, weather, and climatic or seasonal conditions. Not all product parameters are batch tested as part of the manufacturing quality control process, and performance may vary between batches.

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