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# LOGICBASE V-SL

Non-reinforced PVC membrane for waterproofing of tunnels, foundations, underground parts of buildings and structures

## Product description

LOGICBASE V-SL is a non-reinforced PVC membrane, which is used for waterproofing of tunnels, foundations, underground parts of buildings and structures. The material is produced by co-extrusion on a base of premium quality plasticized polyvinyl chloride (PVC-P).

Yellow signal layer on the top surface of the material allows detecting waterproofing layer damage promptly and easily. The advantages of the material are durability, high strength and elasticity, resistance to mechanical impact and high chemical stability.

## Performance of works

The waterproofing PVC membrane is loose laid. On the walls and tunnel arches, the material is fixed mechanically with PVC rondels. Overlap seams are welded by hot air welding equipment, such as manual hot air welding machines and pressure rollers or automatic hot air welding machines with temperature control. Contact with all materials containing bitumen or solvents should be avoided. Direct contact with polymeric materials made of polystyrene (EPS, XPS) is not allowed.

## Storage

Every roll is packed in the additional individual pack. Rolls should be stored lying down on pallets fully protected from moisture with clean canvas tarpaulins. Keep the minimum distance of 1 m from any source of heat.

## Main characteristics

| Properties | Performance | Test method |
|---|---|---|
| Thickness, mm, Signal layer | 3.0 | EN 1849-2 |
| Thickness of Signal layer | 0.2mm | EN 1849-2 |
| Mass per unit area, kg/m² | 4.0 | EN 1849-2 |
| Length x width, m | 20 x 2.05 | EN 1848-2 |
| Tensile strength L / T, N/mm2 | ≥16/≥16 | EN 12311-2 |
| Elongation, % | ≥300 | EN 12311-2 |
| Peel resistance of joints/weld, N/mm | ≥6.0 | EN 12316-2 |
| Stress cracking resistance | Not applicable | EN 14576 |
| Foldability at low temperature, °C | ≤-20 | EN 495-5 |
| Watertightness during 24 h at a pressure of 0.5N/ mm2 | Pass | EN 1928-2 B |
| Weld execution | Free from defects | Free from defects |
| Accelerated ageing by exposures to elevated temperatures- reduction in tensile strength and elongation at failures (70 days at 80°C) | ≤ 20% | EN 1296 |
| Oxidation resistance- reduction in tensile strength and elongation at failures (90 days at 85°C) | ≤ 20% | EN14575 |
| Behavior after hot water immersion – reduction in elongation and mass change at failures | Elongation ≤ 20%, mass ≤4% | Test Procedures SIA V 280 No.13 |
| Behavior after immersion in aqueous solutions (water, saturated limewash, test liquid 2) reduction in tensile strength and elongation at failures (90 days at 23°C) | ≤ 25% | EN 14415 (EN ISO 527-1 and 527-3) |
| Behavior after immersion in aqueous solutions (5-6% sulphuric acid test 3) reduction in tensile strength and elongation at failures (90 days at 23°C) | ≤ 20% | EN 1847 (EN ISO 527-1 and 527-3) |
| Fire reaction Classification | Class E | EN 13501-1 |