Technical Information
WOLFIN® IB

WOLFIN IB is a single ply, high-polymer, entirely homogeneous synthetic roofing and waterproofing membrane (no different top, middle and under layer). The membrane is produced by extrusion method.

WOLIN IB is certified, approved and classified according to:

- EN 13956 CE-Waterproofing of Roofs
- EN 13967 CE-Waterproofing of Buildings
- DIN SPEC 20000-201 (Waterproofing of Roofs)
- DIN SPEC 20000-202 (Waterproofing of Buildings)
- DIN 18531 (Waterproofing of Roofs)
- DIN 18195 (Waterproofing of Buildings)
- EN 13 501-1 (Class E)
- DIN 4102-1 (B2)
- EN 13948 / FLL

Designation according to DIN SPEC 20000-201: **DE/E1 PVC-P-BV-1,5 (2,0)**
Designation according to DIN SPEC 20000-202: **BA PVC-P-BV-1,5 (2,0)**

Characteristics of WOLFIN IB:

- Content of high polymer substances more than 94%
- More than 50 years long-term and practical experiences
- Permeable to water vapour diffusion
- My-value ≤ 10.000 (+/- 3.000)
- Dry-out process of moisturized roof structures is proven by the Fraunhofer Institut Holzkirchen
- Free of toxic heavy metals
- Free of flameproofing agents
- Ozon- and UV-resitant
- Lifelong suited for hot-air and solvent welding
- Unique chemical resistance:
  - Resistant to bitumen, flux oils, mineral oils, fatty acid, kerosene
  - European Technical Approval (ETA-10/0295) as sealant in collecting basins and chambers in storage plants of water polluting substances
  - Proof of the resistance to sulfurous acid and lactic acid (85%)
- Chemical resistance to all insulation material
- Resistant to plant roots and rhizome according to FLL-test method

Types and application areas:

WOLFIN IB:	Single-ply, homogenous membrane
Membrane width:	1.100 mm / 1.620 mm
Nominal thickness:	1,5 mm / 2,0 mm
New building and refurbishment	1) loose laid under ballast 2) WOLFIN / PYE-composite systems 3) Special application: Waterproofing under mastic asphalt, sealant in collecting basins and chambers in storage pants of water polluting substances (ETA-10/0295)
Colour:	black, grey

Systemparts and accessories:

- Membrane strips
- Internal and external Corners
- Composite Metal Sheets (Plates / Coils)
- Lightning protection elements
- Stainless steel drainage and ventilation elements
- System adhesives (Teroson AD 914, Teroson AD Adhesive Spray)

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Produkt information according EN 13956 and EN 13967

EN 13956	EN 13967
Under ballast (gravel, green roof, …)	Damp proof sheets Basement tanking sheet

Characteristic	Test standard	Unity	Details	Result* 1,5 mm	Result* 2.0 mm
Visible defects	EN 1850-2	-	passed	passed	
Length	EN 1848-2	m	MDV	15	10
Width		m	MDV	1,1/1,62	
Straightness		mm	MLV	≤ 50	
Flatness		mm	MLV	≤ 10	
Mass per unit area	EN 1849-2	kg/m²	MDV	1,9	2,5
Effective thickness		mm	MDV	1,5	2,0
Water tightness	EN 1928 B	kPa	MLV	≥ 400	
Reaction to fire	EN 13501-1	-	s. 5.2.5.2	Class E	
Joint peel resistance	EN 12316-2	N/50 mm	MLV	≥ 150	
Joint shear resistance	EN 12317-2	N/50 mm	MLV	≥ 600	
Tensile strength	EN 12311-2	N/mm²	MLV	≥ 16	
Elongation		%	MLV	≥ 300	
Resistance to impact Method A Method B	 EN 12691 EN 12691	 mm mm	 MLV MLV	 ≥ 600 ≥ 600	 ≥ 750 ≥ 750
Resistance to static load	EN 12730 Method B	kg	MLV	≥ 20	
Durability of water tightness against aging (72d / 400kPa)	EN 1296 EN 1928	-	passed	passed	
Durability of water tightness against chemicals	EN 1847 EN 1928	-	passed	passed	
Resistance to nail tear	EN 12310-1	N	MLV	≥ 250	
Tear resistance	EN 12310-2	N	MLV	≥ 100	
Resistance to root penetration	EN 13948	-	passed	passed	
Dimensional stability	EN 1107-2	%	MLV	≤ 1,5	
Foldability at low temperatures	EN 495-5	°C	MLV	≤ -25	
UV exposure	EN 1297	visuell	passed	passed	
Hail resistance	EN 13583	m/s	MLV	≥ 25	
Water vapour permeabilty	EN 1931	-	μ = MDV or 15.000	10.000 ± 3.000	
Bitumen compatibility (90d / 70°C)	EN 1548	-	passed	passed	

Explanation: MDV = Manufacturer's declared value
MLV = Manufacturer's limiting value
* Values in new conditions

CE 1213-CPR-012 EN 13956

CE 1213-CPR-015 EN 13967

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