Technical Information

SEALflex® sealing collars of Fasatan® and Fasatyl®

BOSIG

Building Material Scout

Product Verification

Sustainability

according to BNB BN 2015
according to BREEAM International New Construction 2016
according to DGNB NBV 2015
according to DGNB Gebäude Neubau 2018
according to LEED Building Design and Construction V3 (2009)
according to LEED Building Design and Construction V4 (2015)

Penetrations of the air tightness layer of the building envelope must be designed with a durable airtight sealing. This requirement is specified by DIN 4108 – 7. If the vapour barrier / brake is penetrated (e.g. by cables or tubes), these holes must be sealed. The common method of bonding these problem areas by means of adhesive tape is risky and no longer represents the current state of the art. Sealflex® sealing collars offer distinct advantages with regard to their handling and tightness.
The same goes for the connection of , for instance, roof insulation sheeting or roof underlay membranes on penetrations of pitched roofs. Sealflex® sealing collars are also advantageous when it comes to design this connection quickly and easily in a neat and durable fashion.
For the different penetrations, Sealflex® sealing collars in corresponding sizes are provided, from a diameter of 8 mm for cables up to a diameter of 255 mm for corrugated pipes. The application of the Sealflex® sealing collars is extremely easy. For outdoor applications for the connection to under-roofs of Fasatan® (mostly permeable), for indoor applications for the connection to the air tightness layer of Fasatyl® (mostly impermeable).

Certification:
The emission behaviour of Fasatan® and Fasatyl® is independently tested by the analytical institute Aurachtal. Fasatan® and Fasatyl® are materials with extremely low emissions and in particular do not contain any halogenated flame inhibitors.

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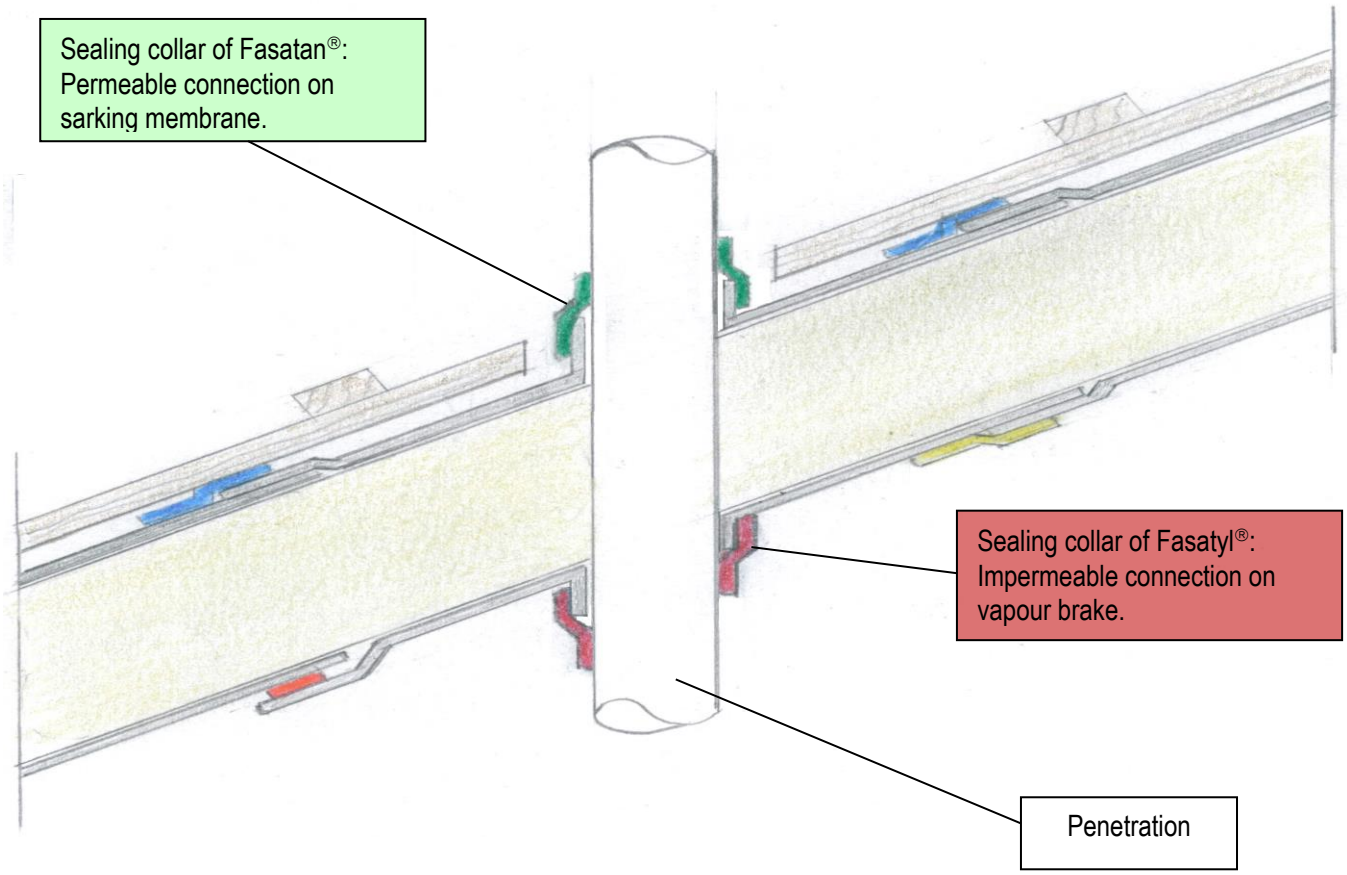
Material:
Sealflex® sealing collars of Fasatan® and Fasatyl® consist of flexible, elastic EPDM rubber. Fasatan® and Fasatyl® stand for tested quality and comply with EN 13984. Therefore Fasatan® and Fasatyl® are building products regulated on a Europe-wide level. The CE label is the proof of conformity.
Fasatan® and Fasatyl® are compatible with bitumen.

CE

Fasatan strong	**Fasatyl strong**
Fasatan 1,0	**Fasatyl 1,0**
Fasatan 0,8	**Fasatyl 0,8**
Fasatan eco	**Fasatyl eco**

EN 13984

Areas of application:
Sealing of penetrations (cables / pipes) in vapour brakes / barriers or other air tightness layers in indoor applications and on under-roofs in outdoor applications.



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Technical data:	Fasatan® eco	Fasatan® 0,8	Fasatan® strong	
	Vapour permeable for outdoor areas			
Thickness	0.6 mm	0.8 mm	1.2 mm	
Thickness tolerance	± 25 %	± 20 %	± 10 %	
Water vapour diffusion resistance number		μ ≤ 50 000 μ = approx. 20 000		EN 1931 DIN EN ISO 12572
Water vapour diffusion equivalent air layer thickness s_d	approx. 12 m	approx. 16 m	approx. 24 m	DIN EN ISO 12572
Tensile strength	≥ 6 MPa	≥ 7 MPa	≥ 8 MPa	EN 12311-2
Elongation at break	≥ 250 %	≥ 300 %	≥ 300 %	EN 12311-2
Tear resistance	≥ 10 N	≥ 10 N	≥ 20 N	EN 12310-2
Water tightness with 2 kPa water pressure		Requirements met		EN 1928
Resistance to ageing		Requirements met		EN 1296 / EN 1931
Fire behaviour		Flammability class E		EN 13501-1

	Fasatyl® eco	Fasatyl® 0,8	Fasatyl® strong	
	Vapour impermeable for indoor applications			
Thickness	0.6 mm	0.8 mm	1.2 mm	
Thickness tolerance	± 25 %	± 20 %	± 10 %	
Water vapour diffusion resistance number		μ ≤ 160 000 μ = approx.140 000		EN 1931 DIN EN ISO 12572
Water vapour diffusion equivalent air layer thickness s_d	approx. 84 m	approx. 112 m	approx. 170 m	DIN EN ISO 12572
Tensile strength	≥ 6 MPa	≥ 7 MPa	≥ 8 MPa	EN 12311-2
Elongation at break	≥ 250 %	≥ 250 %	≥ 300 %	EN 12311-2
Tear resistance	≥ 10 N	≥ 10 N	≥ 20 N	EN 12310-2
Water tightness with 2 kPa water pressure		Requirements met		EN 1928
Resistance to ageing		Requirements met		EN 1296 / EN 1931
Fire behaviour		Flammability class E		EN 13501-1

	Self-adhesive coating of acrylate dispersion, solvent-free	
Thickness	Approx. 0,23 mm	
Adhesive carrier	Laid scrim fabrics	
Cover material	Silicone film, white	
Peel resistance	≥ 25 N / 25 mm	According to DIN EN 1339 / AFERA 5001
Temperature range	- 30 ° to + 100 °C	
Application temperature	+ 5 °C to + 30 °C	
Resistance against condensation water	Good	
Resistance to ageing	Very good	
Plasticiser resistance	Very good	
Adhesive properties	Aggressively adhesive	

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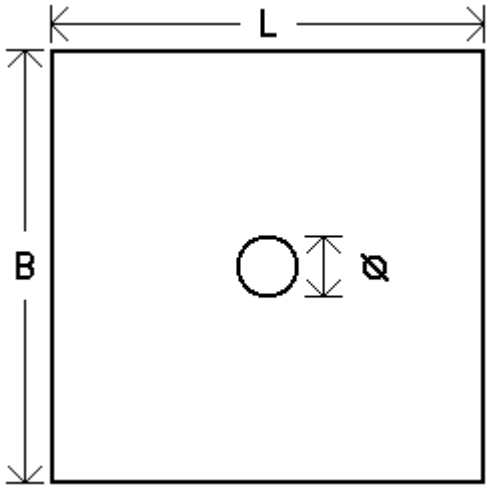
Application:
Manually directly from the roll. Press the vapour brakes to be adhered firmly onto the surface of the self-adhesive layer, remove the protective film, fix the exposed adhesive surface on the substrate and then activate the glued areas by firm pressing and rubbing.
The substrate must be clean, dry and free from dust and grease! Furthermore the substrate must be firm and have a sufficient load capacity to ensure that the adhesive can be pressed on firmly.

Storage:
When stored properly, i.e. covered and in original packaging at a storage temperature of 15 to 25 °C and a relative humidity of 40 to 60 % the storage suitability is 12 months.

Dimensions:

Collar dimensions	Opening diameter
Length x width – L x B	**Centre hole punched**
L x B = 150 x 150 mm	ø = 5 / 10 mm
L x B = 260 x 260 mm	ø = 12 / 25 / 45 / 70 mm
L x B = 345 x 345 mm	ø = 60 / 100 / 135 mm
L x B = 520 x 520 mm	ø = 150 / 190 / 255 mm



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