

Sewage system Poloplast POLO-KAL XS

Holder/Issued to

Poloplast GmbH & Co. KG
Poloplast-Strasse 1, AT-4060 Leonding, Austria

Product description

Poloplast POLO-KAL XS, pipes and moldings of mineral-reinforced polypropylene (PP) with cast-in sealing rings. The sealing rings meet the requirements according to EN 681-2.

The pipes are in 3 layers and are available in the following dimensions:

Dimension (mm)	32	40	50	75	90	110
Pipe series S16, Wall thickness (mm) <i>e_{min}</i>	1,8	1,8	2,0	2,6	3,0	3,4
Application area	B	B	B	B	BD	BD

Intended use

Pipes and fittings intended for use in draining normal domestic waste water and rainwater. The wastewater temperature may briefly reach 95 ° C. Application area B refers to installation on the building's walls indoors and outdoors. Application area BD refers to installation equal to B as well as casting in the building's walls, floors and foundation slab, as well as in the ground within the building structure according to EN 1451-1

Trade name

POLO-KAL XS

Approval

The products satisfies the requirements set forth in chapter 8, 4 § 2 and 3 PBL, in respect to and under conditions stated in this type approval, and are therefore approved in accordance with the provisions of the following sections of Boverket Building Regulations (BBR) issued by the National Board of Housing, Building and Planning:

Fire technical class EI 60 / EI 90	5:231*	
Euroclass D-s2, d0 according to EN 13051-1	5:231	
Waste water installations	6:641	1 st paragraph, last sentence and 2 nd paragraph, last sentence
Surface water installations	6:642	
Design	6:644	1 st sentence

* Fire protection measures: For pipe penetration in shafts and floors, use a P-marked / CE-marked fire cuff or fire tape that meets the requirements for the current installation, see associated document.

Associated documents

Inomhusavlopp Sverige Teknisk handbok. Ref. nr. 01/11.21/1.000.

Control

The factory production control (FPC) is monitored by an independent inspection body.
Control plan: Ref agreement: no. 5889 with RISE appendix dated 2015-09-11 Inspection body:
SKZ- Testing GmbH

When the building proprietor performs inspection at the building site, markings shall be checked to ensure that the correct products have been supplied and that they are used in accordance with the conditions in this type approval and associated documents. Further the product shall be accompanied by a manufacturer's assurance, certifying that the product has been manufactured in accordance with the documents on which this type approval is based.

Manufacturing place

Production control includes the following place:
Poloplast GmbH & Co. KG, Leonding, Austria.

Marking

The products are to be marked at the factory. The marking consists of a text on every product supplied and includes:

Holder	Poloplast GmbH & Co. KG
Product type designation	POLO-KAL XS
Consecutive date of production	date
Application area	B or BD
Dimension	DN XX
Type approval number	SC1221-16
Boverket's registered trade mark	†
Certification body	RISE
RISE Accreditation number	1002
Inspection body	SKZ

Basis for approval

Type test reports VAKU25074 and VAKU 25000 from TGM.
Test reports 408.547-1, 408.547-3, 408.547-4, 408.359 from ofi.
Test report P-BA 127-2013 from Fraunhofer IPB.
Approval Z-19.17-1747, from DIBt.
ETA-15/0686 2015-11-11 OiB.
Reports from supervisory control RA5883.220026.21 and RA5882.220025.21 from SKZ.

Comments

The product has been tested in accordance with EN 1451-1 and its sound properties according to EN 14366. Measured values in the table below can be used in calculation / construction to achieve specific sound class according to BBR 7: 2 Sound conditions (EN 25267: 2004).

Noise level for dimension DN/OD 110 where the system is fixed with sound-absorbing pipe carriers of model Bismat 2000, tested according to standard EN 14366: 2004				
Water flow in the sewer system	0,5 l/s	1,0 l/s	2,0 l/s	4,0 l/s
Frame sound Properties (Lsc,A)	10 dB(A)	12 dB(A)	13 dB(A)	18 dB(A)

Associated documents shall accompany the product or by other means be available to users of the product.

This type approval supersedes the previous type approval with the same number dated 2017-04-20.

Validity

Valid through 2027-02-23.

Validity of this type approval can be verified on our website.

The validity of this type approval expires when the type approved products with the intended use according to this type approval shall be CE-marked according to the Construction Products Regulation (EU) 305/2011.

Stefan Coric

This is a translation from the Swedish original document. In the event of any dispute as to its content, the Swedish text shall take precedence