

## POLO-KAL 3S Pro, sewage system

### Holder/Issued to

### POLOPLAST GmbH & Co. KG

Poloplast-Strasse 1, AT-4060 Leonding, Austria.

VAT number: 22648703

Phone: +43 (0) 732 38 860, Fax: +43 (0) 732 38 869

E-mail: [office@poloplast.com](mailto:office@poloplast.com), Web: [www.poloplast.com](http://www.poloplast.com)

### Product description

POLO-KAL 3S Pro 3-layer pipes and POLO-KAL 3S fittings made of mineral-reinforced PP.

The pipes belong to pipe series S 14 and are available in following dimensions:

D <sub>y</sub>	75	110	125	160
Wall thickness e	3,8	4,8	5,3	7,5

Joining of pipes and fittings are done with factory installed sealing rings.

Sealing rings fulfil the requirements for type WC according to standard SS-EN 681-1.

### Intended use

Pipes and fittings are intended for use in waste water systems in buildings for discharge of normal household waste water and rain water.

Waste water temperature in buildings may momentarily be max. 95° C.

### Trade name

POLO-KAL 3S Pro.

### Approval

The products satisfy the requirements set forth in chapter 8, 4 § 2 and 3 PBL, in respect to and under conditions stated in this certificate, 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:

Reaction to fire class, D-s2, d2  
Waste water installations

5:231,  
6:641, 1<sup>st</sup> paragraph and 2<sup>nd</sup>  
paragraph, last sentence

Surface water installations  
Design

6:642  
6:644, 1<sup>st</sup> sentence and 2<sup>nd</sup> paragraph, last  
sentence

### Associated documents

Technical manual above-ground drainage, edition 05/01.21\_SE.

Type Approval C900400 | 2021-05-25

RISE Research Institutes of Sweden AB | Certification

Box 857, 501 15 Borås

☎ +46 10 516 50 00 | [certifiering@ri.se](mailto:certifiering@ri.se) | [www.ri.se](http://www.ri.se)

144784

This document is the property of RISE and may not be reproduced other than in full, except with the prior written approval by RISE



## Control

The factory production control (FPC) is monitored by an independent inspection body.  
Control agreement: P2201 with RISE appendix. Inspection body: OFI, Austria.

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 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 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 and packaging supplied and includes:

Packaging is marked with:

Holder	POLOPLAST
Pipe type designation	POLO-KAL 3S Pro
Fitting type designation	POLO-KAL 3S
Type approval number	C900400
Boverket's registered trade mark	†
RISE Accreditation number	1002
Certification body	RISE
Inspection body	OFI

Product is marked with:

Holder	POLOPLAST
Pipe type designation	POLO-KAL 3S Pro
Fitting type designation	POLO-KAL 3S
Material	PP-M
Application area	B
Dimension	DN XX
Wall thickness	e XX
Nominal angle of fitting	XX°
Consecutive date of production	<i>date</i>

## Basis for assessment/approval

Report 44.079 and 2002235-1 from OFI Technologie & Innovation GmbH, Austria.  
Report P-BA 120/2020e from Fraunhofer IBP, Germany.  
Report 320102301-A from IBS Institut für Brandschutztechnik und Sicherheitsforschung, Austria.  
Report 326217/2.1/128122 from SKZ, Germany.

## Comments

Products are tested according to relevant parts of standard SS-EN 1451-1.

Sound level of dimension DN 110 where the system is fixed with sound absorbing tube carrier model POLO-CLIP HS, tested according to standard SS-EN 14366.				
Water flow rate	0,5 l/s	1,0 l/s	2,0 l/s	4,0 l/s
Structure-borne sound $L_{SC, A}$ When mounting with standard pipe carrier	< 10 dB(A)	< 10 dB(A)	10 dB(A)	12 dB(A)

## Validity

Valid through 2026-05-24.

The validity of this approval expires when the characteristics included in this approval shall be CE-marked according to the Construction Products Regulation (EU) 305/2011.

Ronald Green

*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*