



POLOPLAST

PURE PROGRESS

30 July 2026

PURE
PROGRESS / poloplast

Products



**If you stop getting better, you
stop being good.**

~ Philip Rosenthal

- / Building drainage
- / Wastewater disposal
- / Pipe and cable penetration

Land and buildings



97,000 m²
floor area



58,200 m²
warehouse area



4,800 m²
office area (3 floors)



1,300 m²
laboratory and
development



17,500 m²
production area

Including:
12 extrusion lines
38 injection moulding machines
4 compounder

additionally:
traffic routes and parking spaces

OCS Certification

The Future is already here

We're taking a stand against microplastics in our oceans: POLOPLAST is proud to be **one of the first companies in Europe** — and the **very first in Austria** — to achieve an Operation Clean Sweep (OCS) certification.

Operation Clean Sweep is an international initiative of the plastics industry to **minimize the loss of plastic pellets in the environment**. The aim of OCS is to ensure that plastic pellets, plastic flakes and plastic powder that flow through **production facilities are treated with the utmost care** and do not end up in our natural waters.



Certificate

Management system as per
Operation Clean Sweep®

The Certification Body TÜV NORD Italia hereby confirms as a result of the audit, assessment and certification decision, that the organization

POLOPLAST GmbH & Co KG
Poloplaststraße, 1
4060 Leonding
Austria

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operates a management system in accordance with the requirements of OCS Europe - Certification scheme - Rules & Principles version 1.0 and Requirements version 1.0 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope

OCS Europe Production
covering plastics manufacturers and integrated compounders

Certificate Registration No. 44-OCS/001
Audit Report No. 24708/23-000

Valid from 2024-02-02
Valid until 2027-02-02
Initial certification 2024-02-02

Cerro Maggiore, 12.02.2024


Certification Body at TÜV NORD Italia

TÜV NORD Italia S.r.l.
Via Filippo Turati, 70
20023 Cerro Maggiore (MI)
www.tuev-nord.it

TÜV ®


TÜVNORDGROUP

POLO-KAL XS

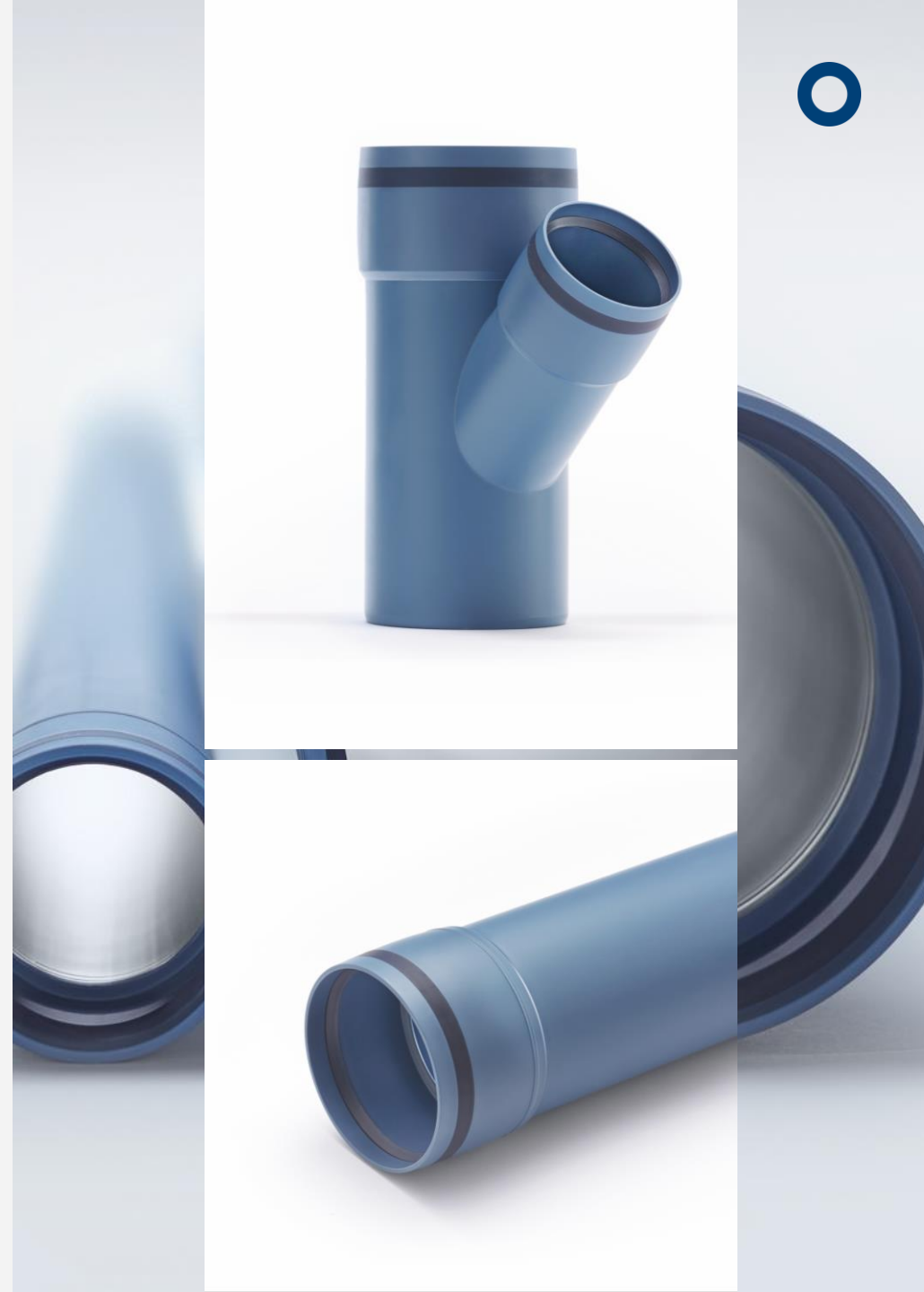
The trend-setting building drainage pipe system that makes installation work ingeniously simple and thus even faster.



POLO-KAL XS

A revolution in the laying of plastic pipe systems.

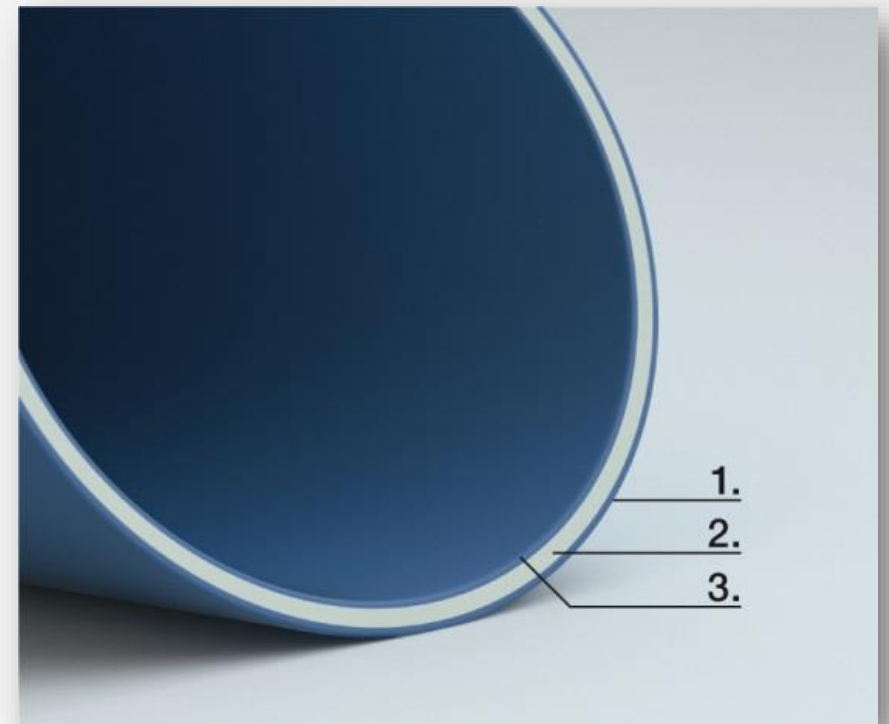
- **extra slim:** ideal for narrow spaces thanks to the Monotec socket
- **extra silent:** highly sound-absorbing with standard clamp
- **extra fast:** due to the integrated seal, no chamfering necessary after cutting to length
- **extra safe:** due to the integrated seal
- **extra clean:** funTEC technology for smooth connection without lubricant



POLO-KAL XS

POLO-KAL XS stands out thanks to its proven 3-layer technology.

1. Outer layer in PP: The tube's hard protective shell.
Robust - offers high impact resistance
2. Middle layer in PP-MV: Mineral-reinforced plastic.
It provides excellent stability and ensures the high sound insulation
3. Inner layer in PP:
Extremely smooth surface and high resistance to chemical influences.





POLO-KAL XS

clean – fast – safe

POLO-KAL XS revolutionises the installation of plastic pipe systems. Thanks to multiple technical innovations, it saves time and space on the construction site.

Technical data sheet of the POLO-KAL XS:

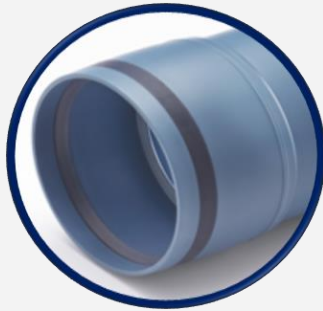
Warranty	20 years
Approval	      
Application class	BD (building/drainage), suitable for underground installation up to property boundary
Product range	Extensive product range with patented Monotec-socket technology in the dimension range 32-160 mm Pipes with cut-to-length marking Many special fittings: Corner double branch at the same level, vertical double branch and much more
Material	Innovative, 3-layer mineral-reinforced PP incl. patented Monotec sleeve, ecologically harmless material, halogen-free, cadmium-free, free from heavy metals
Push-fit connection	Innovative Monotec-socket • Low space requirement due to slim socket • Safe handling thanks to the integrated seal (no loss or pushing out) • Clean operation thanks to insertion without lubricant • Quick work without chamfering: Cut to length, deburr, ready! • Suitable for angular deflection up to 5 % • Up to 30 % time savings (installed according to POLOPLAST Technical Manual)
Compatibility	100 % compatible with all push-fit systems according to EN 1451-1
Low temperature resistance	-20 °C Safe transport and installation during cold conditions
Mean longitudinal expansion	Low linear expansion, no long sockets in single and multi-family houses, LAK 0.05 mm/mK (Source: No. 47.423, OFI, May 2002)
Deflection/pipe rigidity	Low deflection due to high E-modul Quick and cost-effective installation due to large mounting distance Pipe clamp spacing up to 15× da (horizontal)
Temperature resistance	Short-term 97 °C 30 sec/day = 152 h/50 years Long-term 95 °C 10 min/day = 3.000 h/50 years Long-term 60 °C 5 h/day = 87.600 h/50 years
Fastening system	Compatible with all commercially available pipe clamps with rubber inserts. No special clamps required!
Sound insulation	Test report: P-BA 127/2013, Fraunhofer Institute Stuttgart, sound insulation certificate according to DIN 4109 L_{A,Freq,n} = 15 dB(A) at 2 l/s L_{A,Freq,n} = 20 dB(A) at 4 l/s Test location: diagonally below room Standard pipe clamp Bismat 2000 from Walraven
Fire protection	According to EN 13501-1: D – s2, d0
Fire protection collars	System-tested, safe sealing of a fire compartment against fire and smoke gases POLO-BSM: ETA-15/0686 Applications: Many tested applications including zero clearances available. (For detailed information see approval)
Pull-out-proof connection	POLO-KAL XS 3S ASV system-tested for POLO-KAL XS: Lifting systems up to DN 90, push-out protection for drainage pipes, internal rainwater downpipes and much more

POLO-KAL XS

The best of all worlds, combined in a single tube!



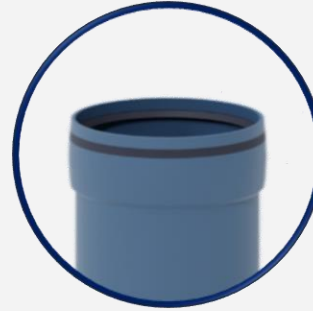
silent



safe



fast



slim



clean



precise

POLO-KAL XS

silent

High sound insulation? Perfectly normal!

15 dB(A) at 2 l/s

20 dB(A) at 4 l/s

- Sound insulation certificate according to DIN 4109
- Measured by the Fraunhofer Institute
- Standard pipe clamp Bismat 2000



silent



safe



fast



slim



clean



precise

POLO-KAL XS

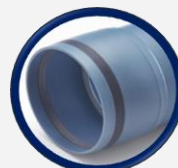
safe

Lost seal? Impossible.

At the heart of POLO-KAL XS is the Monotec socket technology: it ensures that no seal can be forgotten, misplaced or lost during transport, storage or installation.



silent



safe



fast



slim



clean



precise

POLO-KAL XS

fast

Lubricant? No, thank you.

funTEC technology allows assembly with such low insertion forces on ALL diameters (DN 32 to 160) that installation can be carried out smoothly without lubricant.



silent



safe



fast



slim



clean



precise

POLO-KAL XS

fast

Chamfering? Not necessary.

Thanks to the special geometry of the integrated seal, **chamfering is no longer necessary after cutting** the tube. A real simplification.



silent



safe



fast



slim



clean



precise

POLO-KAL XS

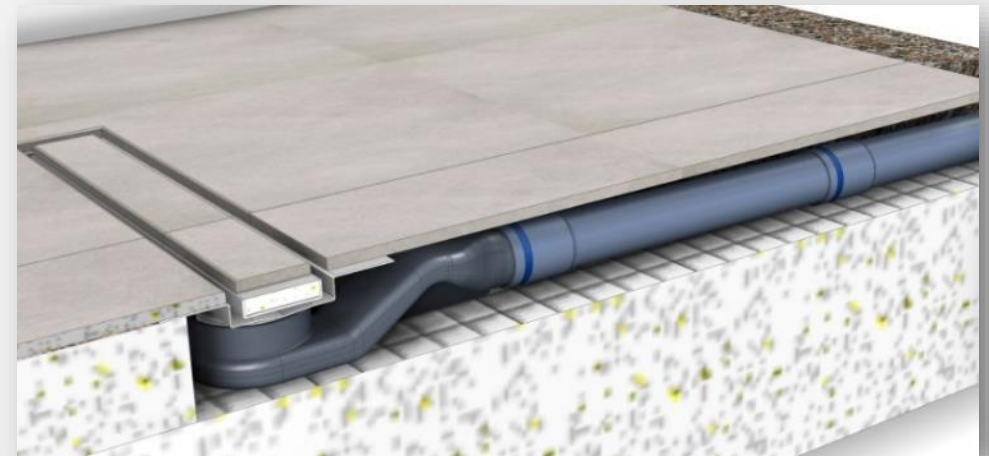
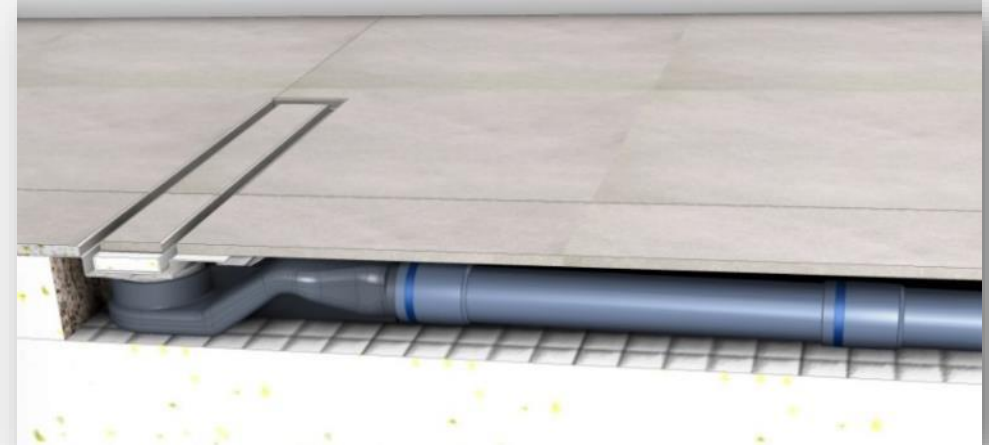
slim

Monotec socket technology

The slim socket reduces bulk to a minimum.

Advantages:

- In (modular) prefabricated house construction
- In thin screeds, drywall
- For connecting walk-in showers.



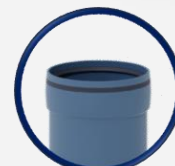
silent



safe



fast



slim



clean



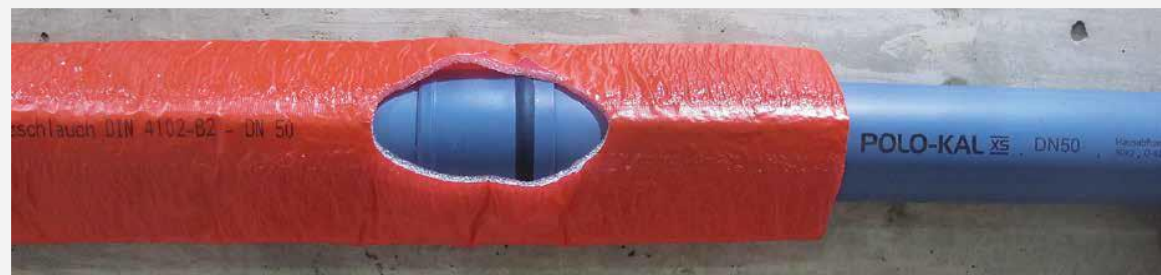
precise

POLO-KAL XS

slim

Perfect for insulation pipes

Thanks to its slim design, POLO-KAL XS allows continuous installation of the insulation socket without interruption or snagging on the beads. Easy passage through metal studs.



silent



safe



fast



slim



clean



precise



POLO-KAL XS

clean



silent



safe



fast



slim



clean



precise

POLO-KAL XS

precision

Measuring? No longer necessary!

Easy, quick and precise cutting thanks to the measuring marks and integrated printed ruler:

- Saves time
- Greater precision



silent



safe



fast



slim



clean



precise

POLO-KAL XS

precision

Unlimited full compatibility

POLO-KAL XS is fully compatible with all plastic pipe systems in accordance with standard EN1451-1.

Special transition fittings also allow easy conversion to other materials: cast iron, stoneware, fibre cement, etc.



silent



safe



fast



slim



clean

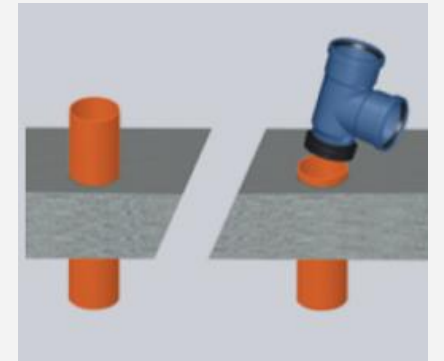
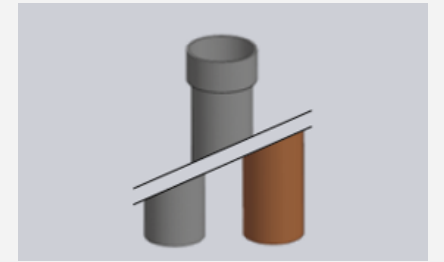
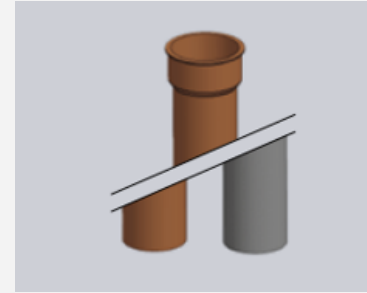
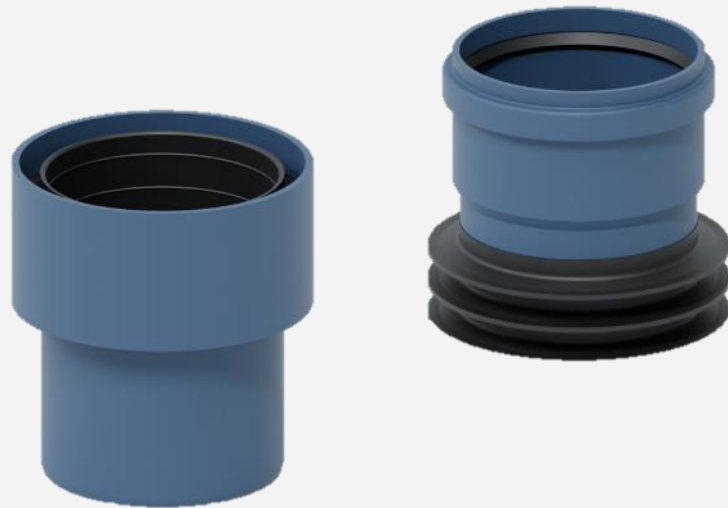


precise

POLO-KAL XS

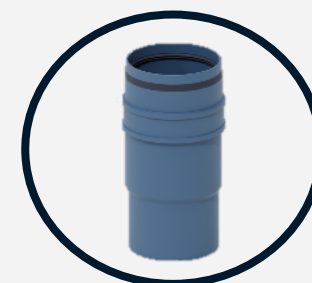
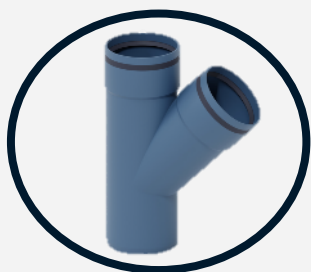
Special transition fittings for connecting to other materials:

- Fibre cement
- Cast iron
- Sandstone



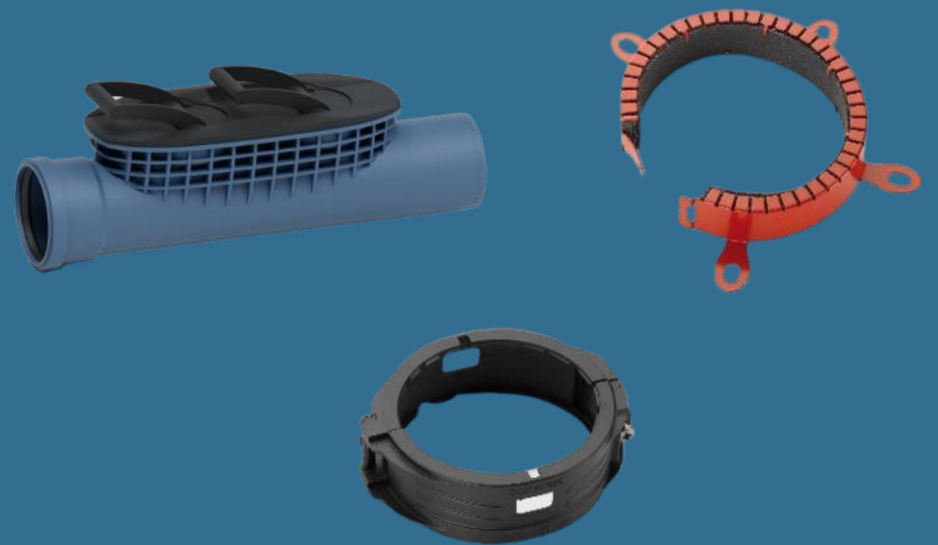
POLO-KAL XS

Wide range of fittings



SYSTEM COMPONENTS

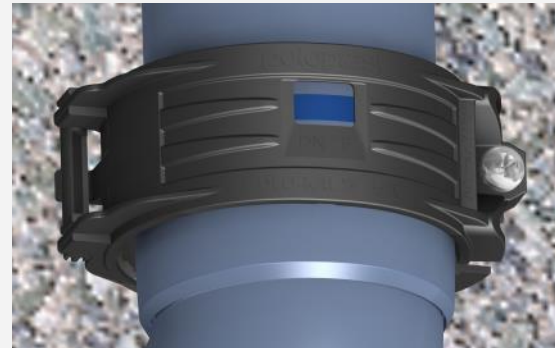
Building and civil engineering sectors



POLO-KAL XS ASV

Reliable connections

- With the POLO-KAL XS ASV pressure-resistant connection, you can ensure increased safety wherever POLO-KAL XS system connections are exposed to high tensile forces.
- Pressure tightness up to 2.5 bar
- Rainwater downpipes integrated into walls
- Secure plugs in areas at risk of backflow



POLO-BSM

A hot topic, solved with a fresh approach

- POLO-BSM fire collars are specially designed for POLO-KAL plastic pipes
- Practical solutions for common pipe systems and a variety of situations
- Specific solutions for service ducts
- Uncompromising safety



POLO-BSM
ETA approval 15/0686

POLO-EHP

The practical solution for maintenance, inspection and cleaning.

- Simple and secure locking mechanism
- Cover opening complies with standards
- Sealed against high internal pressure up to 1.5 bar (short term)
- Decompression before opening
- No risk of obstruction

Even greater safety thanks to the
POLO-EHP Control safety bracket.



EXTRUSION PROCESS

OPTIMIZED PROCESSES

Optimized Process

- Preparing the granulate in house to achieve optimal properties.
- Granulate 100% reusable.
- Extruding three layers simultaneously in a single process while ensuring proper adhesion between them.
- Achieving consistent and reliable quality values.
- Determining the ideal speed for the desired wall thickness.
- Maintaining material properties and pipe shape throughout the cooling process.
- Developing the optimal formulation for funTEC technology to ensure a smooth push-fit connection - neither too tight nor too loose.
- Seamlessly connecting the Monotec socket with the extruded pipe.

KEY TAKE-AWAYS

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POLO-KAL XS



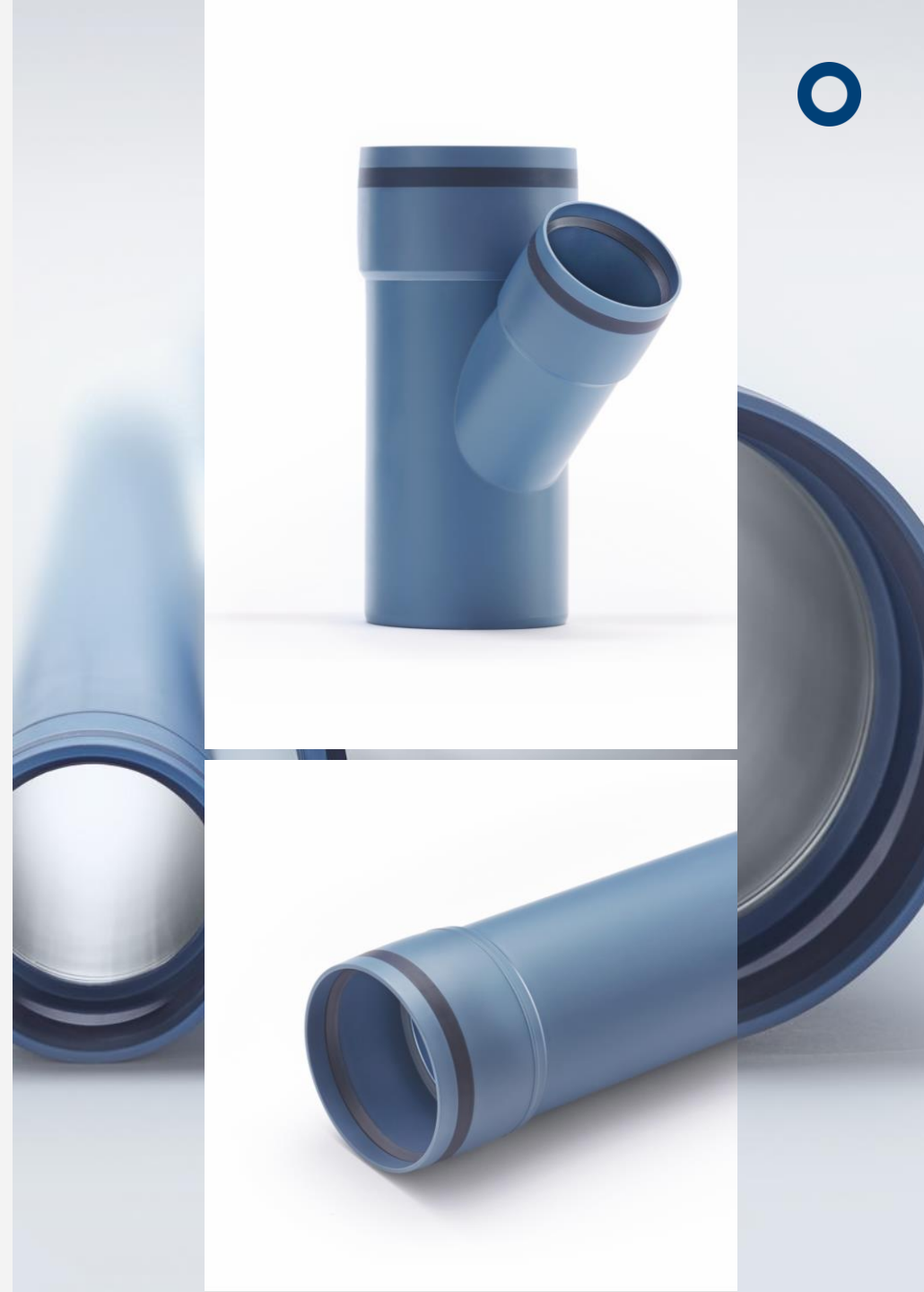
Advantages

- Also suitable for installation in the ground thanks to the high rigidity of the pipe system.
- No need for long sockets in residential construction thanks to low longitudinal expansion.
- Easy to connect thanks to the limited insertion force required by the patented sealing system.
- High chemical resistance thanks to mineral-filled PP material.
- High resistance to breakage at low temperatures thanks to the excellent cold impact resistance of POLOPLAST materials.
- Further information available online via QR code on tubes and fittings.

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Gain more time for what truly matters to you.

Because with POLO-KAL XS, you save up to 30% of working time* for what really counts.

Extra slim, extra safe and, above all, extra fast thanks to easy installation without chamfering and lubricant.

How easy it can be!



* when installed in accordance with the POLOPLAST technical manual.

Space saving in prefabricated houses

Efficiency for modular design

Prefabricated houses and prefabricated modular construction require special pipe systems.

POLO-KAL XS - provides the ideal solution:

Slim pipe system that uses every millimetre

Cost-saving due to fewer hours needed for assembly

High level of safety thanks to permanently integrated Monotec seals





Finally simple insulation, Perfect for insulating hose

Insulation hoses effectively prevent structure-borne noise.

The slim sleeve of POLO-KAL XS makes insulation easier and makes it easy and convenient. No bead disturbs the continuous pushing of the hose. This means that even deflections can be quickly and easily insulated.



Certified Environmental Impact

With our Environmental Product Declaration (EPD), we provide clear, measurable proof of the environmental performance of our products.



TETI BORU



**For more,
Contact with us!**

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