



Unique Multi-layer Polypropylene (PP) System With Patented Sound Insulation Technology For Drainage Application to EN 1451-1, ISO 7671, AS/NZS 7671

Live better with REHAU quality and innovation

REHAU was founded in Germany in 1948. Today, our proficiency in developing innovative solutions has made us a global leader in polymer processing technologies, providing a wide range of products and services to the Construction, Automotive and Industrial sectors. Through continuing research and development, REHAU consistently delivers cost-effective products designed with the environment in mind.

Stringent quality control and safety guidelines ensure that our products comply with the highest international standards. We take pride in our expertise and versatility to remain at the forefront of technology.

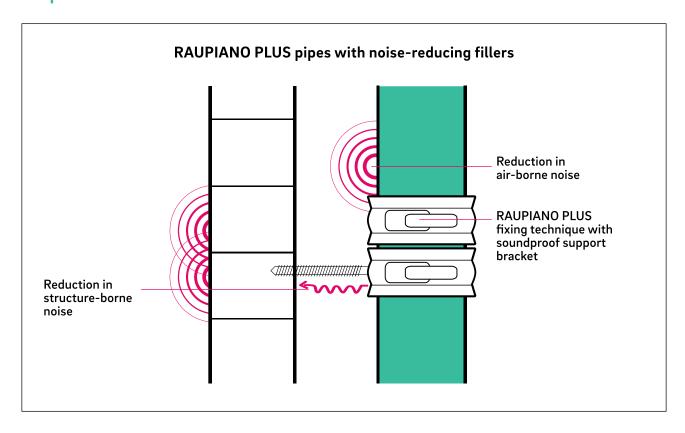
As an independent and privately owned company, REHAU focuses on building long-lasting partnerships and alliances with our customers.



QUIET

The best in sound insulation technology

Patented sound insulation technology that fulfills the highest requirements

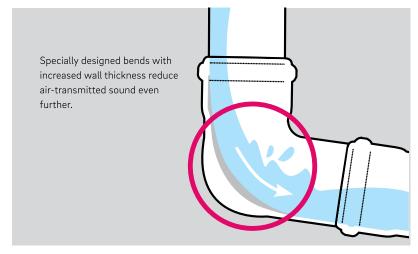


RAUPIANO PLUS tackles noise from all aspects; it reduces noise by cutting down the air-borne and structure-borne noise transmissions.

The patented sound-dampening bracket reduces the structure-borne noise transmission by decoupling the vibrations within the drainage line to the wall. The quick and simple snap-on installation ensures repeat performance of the sound-dampening effect by centralising the pipe, and applying the exact fastening force.

RAUPIANO PLUS pipes and fittings improve sound insulation performance through the innovative three-layer pipe and bend fittings with optimized mass concentration to further reduce air-borne noise transmission.

By combining these sound insulation technologies into one system, RAUPIANO PLUS is able to fulfil the highest requirements, making it the ideal solution for all types of buildings.



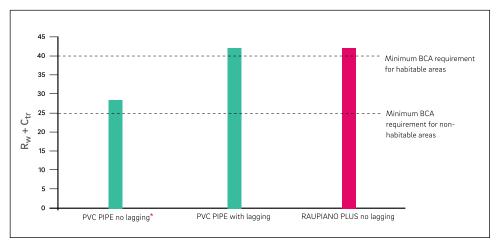
Proven by the officially accredited German institute "Fraunhofer-Institut für Bauphysik, Stuttgart", RAUPIANO Plus fulfils the requirements of DIN 4109 (sound insulation in buildings) and the far more stringent requirements of VDI guideline 4100 with excellent results.



No acoustic lagging required Vertical living has challenged the industry to develop innovative solutions to overcome potential problems caused by dense living space.

The National Construction Code (NCC) in Australia specifies a minimum acoustic requirement (Rw + Ctr 40) for living areas in apartments/town-houses. RAUPIANO PLUS exceeds this requirement without acoustic-lagging, using common suspended ceiling (13mm standard-core plasterboard with 75mm glasswool insulation batt).

RAUPIANO PLUS is the ultimate acoustic drainage piping system, endorsed by local acoustic consultants.



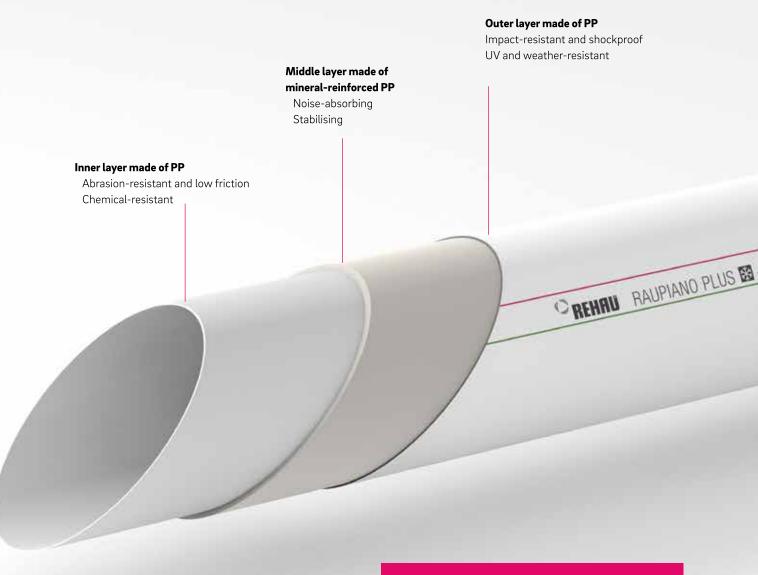


^{*} Industry standard as recommended by Graeme E Harding & Associates Refer to REHAU RAUPIANO PLUS Technical Information for testing and material details

ROBUST

Before, during and after installation

THREE LAYERS IN ONE HOMOGENEOUS PROCESS





The innovative materials used in the 3 functional layers are integrated in one homogeneous process, ensuring toughness, rigidity. A special coating improves the flow conditions and maintains the high drainage-rate.

ABRASION-RESISTANT

HEAT RESISTANT

CHEMICAL RESISTANT

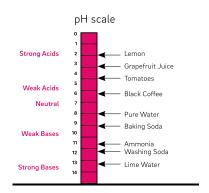




The smooth, abrasion-resistant inner layer ensures the pipes remain free of deposits and scaling. A special coating improves the flow conditions of the pipe systems to maintain the high drainage-rate of the RAUPIANO PLUS system.



RAUPIANO PLUS can handle hot water up to temperature of 90°C (or 95°C for short periods), making it an excellent system for domestic and commercial kitchen applications.



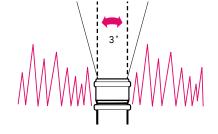
RAUPIANO Plus can be used in harsh environments because it is highly resistant to various types of chemicals and wastewater that cause corrosion and wear and tear. It can withstand chemicals ranging from pH2 to pH12.

LEAKPROOF SYSTEM

SHOCK AND VIBRATION PROOF



The simple push-fit connection, combined with integrated sockets and factory pre-installed sealing rings which reduces workmanship fault of improper connection, ensures a leakage and odour-free environment



Rigid structures are prone to break due to vibrations. Additional flexibility is given to the drainage piping system by not gluing or welding the joints. The characteristic feature of RAUPIANO PLUS sealing ring provides not only air-tight and leak-proof connection but also a shock and vibration resistant joint. This can help to maintain pipe integrity in the event of an earthquake.





GREEN, NON-TOXIC AND ODOURLESS

RAUPIANO PLUS system leaves small carbon footprint as it takes less energy to fabricate from raw material to final product. Polypropylene (PP) material used to make RAUPIANO PLUS is 100% recyclable and contains no toxic material. It stands for efficiency, innovation, protection of the environment and sets the future of forward-looking trends in construction.



EASY

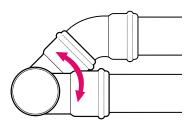
Save time. Save cost.

LIGHT AND CONVENIENT

RAUPIANO Plus Cast Iron Pipe

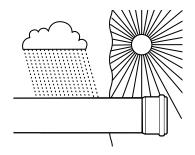
RAUPIANO Plus is **4 times lighter** than conventional cast iron pipes, **saving up to 20%** in transportation costs. The lightweight materials also dramatically improve safety in transportation and installation.

ADJUSTABLE JOINT



The unglued connection allows the installed fitting to rotate, giving freedom to adjust it to the required angle for gradient and alignment.

TOUGHNESS INSIDE AND OUT



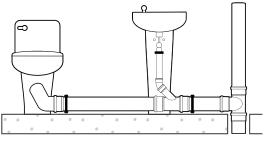
Characterised by its high-impact toughness, shock resistance and durability against inclement weather, the UV-stabilised outer layer makes outdoor storage possible for up to 2 years.

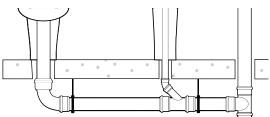
INSTALLATION FREEDOM

The secured push-fit socket connection gives freedom to design any type of drainage system and is an ideal solution for wall-drainage system where leak-proof and maintenance-free joints are critical.

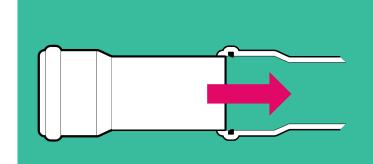
This design flexibility allows for fewer structural limitations and widens installation possibilities.

30% faster installation





RAUPIANO PLUS is suitable for either wall or floor drainage systems.



QUICK AND EASY INSTALLATION

RAUPIANO PLUS system uses push-fit connection with integrated sockets and specially designed sealing rings, ensuring watertight system. The simple and easy-to-use push-fit design ensures error-free connection and reduces installation time by up to 50%.**

^{**} German Research Guild SSH Munchen 2005 compared to cast-iron pipes

RAUPIANO PLUS

Engineered for your convenience

Patented mounting technology



RAUPIANO PUSH-FIT LOCK

In case a higher pressure resistant is needed for RAUPIANO system such as connection to pump station, the RAUPIANO Push-fit Lock is a perfect solution to increase the socket joint integrity to resist up to a maximum pressure of 2 bar.

The Push-fit Lock is designed also to allow the secured joint to continue absorb linear thermal expansion on the pipe. It can be used as an alternative solution to secure the socket plug from using a securing clip.

Quick installation is allowed, thanks to the unique auto-locking mechanism that makes the assembly easier during installation as it prevents the parts fall apart before tightening the screws.

FIRE PROTECTION

RAUPIANO PLUS also offers a complete solution for fire protection. When it comes to safety, REHAU will not compromise.

Refer to RAUPIANO PLUS technical information and contact your local REHAU sales office for more information on RAUPIANO PLUS fire protection solution.





PATENTED SOUND-DAMPENING BRACKET ISOLATES STRUCTURE-BORNE NOISE

The sound-dampening bracket consists of a rubber-lined guiding and fixing clamp, which work together effectively in decoupling vibrations from the drainage stack to the fixing wall. This significantly minimises structure-borne sound transmission to the installation wall.

Technical Specification

DIMENSION

| Normal Size | 40 | 50 | 75 | 90 | 110 | 125 | 160 | 200 |
|--------------------|------|------|------|------|-------|-------|-------|-------|
| Outer Diameter, mm | 40 | 50 | 75 | 90 | 110 | 125 | 160 | 200 |
| Inner Diameter, mm | 36.4 | 46.4 | 71.2 | 85.6 | 104.6 | 118.8 | 152.2 | 187.6 |
| Wall Thickness, mm | 1.8 | 1.8 | 1.9 | 2.2 | 2.7 | 3.1 | 3.9 | 6.2 |

SPECIFICATION

| Material: | Pipes and fittings: PP-MD mineral reinforced Sealing rings: Styrene butadiene rubber | |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Area of application | Waste water pipes in buildings and laid underground inside and outside the building structure. | |
| Chemical resistance: | Basis: PP according to DIN 8078 No sewage containing petrol or benzene Sealing rings made of SBR | DIN 8078 DIN 4060, DIN EN 681-1 |
| Range of application: | Sewage with pH-values 2 - 12 Sewage temperature up to 95°C (short-term) and 90°C (long-term) respectively Installation within the building structure Installation in underground at area subjected to no heavy load | DIN EN 12056 DIN 1986-100 |
| Density: | Pipes: 1,9 g/ cm³ Fittings: 1,1 to 1,9 g/ cm³ | |
| Linear expansion: | 0,09 mm/ mK | DIN 53752 |
| Ring stiffness: | $> 4 \text{ KN/ m}^2$ | DIN EN ISO 9969 |
| Tensile strength: | > 16 N/ mm² | DIN EN ISO 527-3 |
| Elongation at break: | approx. 150 % | DIN EN ISO 527-3 |
| E-Modulus: | approx. 2700 N/ mm² | DIN EN ISO 527-2 |
| Pressure resistance: | 0,5 bar (5m water column) | |
| Connections: | Push-fit socket with factory pre-installed rubber sealing ring | |
| Fire resistancy: | Class E - normally flammable | BS EN 13501 |
| Standards: | System tested on the basis of DIN EN 1451-1 Additional testing according to the requirements of the Deutsches Institut für Bautechnik (DIBt; Center of Competence in Civil Engineering), Berlin, Germany | |
| Sound insulation: | Tested according to DIN EN 14366 - Test report of the Fraunhofer Institute for Building Physics (IBP), Stuttgart, Germany P-BA 6/ 2006: max 17db(A) at 4L/sec with REHAU sound-proof bracket P-BA 176/ 2006: max 24 dB(A) at 4L/sec with standard bracket | |
| Thermal load: | The thermal load of RAUPIANO PLUS has been examined by MPA (Material Testing Institute): 14,992 KJ/kg. | |

 $For more \ technical \ detail, please \ refer \ to \ REHAU \ RAUPIANO \ PLUS \ Technical \ Information, which \ can \ be \ viewed/downloaded \ on \ www.rehau.com.sg$

Standards and Certification

DIN 1054

Ground – Verification of the safety of earthworks and foundations

DIN 1055 Part 2

Design loads for buildings; soil characteristics; specific weight, angle of friction, cohesion, angle of wall friction

DIN 1986

Drainage systems on private ground

DIN 4060

Pipe joint assemblies with elastomer seals for use in drains and sewers, requirements and tests

BS EN 13501

Fire classification of construction products and building elements

DIN 4109

Sound insulation in buildings

DIN 4124

Excavations and trenches – Slopes, planking and strutting, breadths of working spaces

DIN EN 476

General requirements for components used in discharge pipes, drains and sewers for gravity systems

DIN EN 681

Elastomeric seals

Material requirements for pipe joint seals used in water and drainage applications

DIN EN 752

Drain and sewer systems outside buildings

DIN EN 1451

Plastic piping systems for soil and waste drainage (low and high temperature) inside buildings - Polypropylene (PP)

DIN EN 1610

Construction and testing of drains and sewers

DIN EN 12056

Gravity drainage systems inside buildings

VDI Guideline 4100

Sound insulation in residential buildings - Criteria for planning and assessment

ISO 7671

Plastic piping systems for soil and waste discharge (low and high temperature) inside buildings – Polypropylene (PP)

AS/NZS 7671

Plastic piping systems for soil and waste drainage (low and high temperature) inside buildings - Polypropylene (PP)

QUALITY AND CERTIFICATION

RAUPIANO Plus meets international quality and regulatory standards, and is accredited by both international and national regulation bodies:























RAUPIANO PLUS

Project References





- 1 Queensland Children's Hospital Australia
- 2 Trans Luxury and Ibis Hotels Indonesia
- 3 Bulow Carre Germany
- 4 Nova Koflach Therme and Hotel Austria
- 5 Primoretz Grand Hotel and Spa Bulgaria
- 6 Olympic Village Italy





















- 7 Cape Royale Singapore
- 8 Park Inn Imeretinskaya Hotel Russia
- 9 Storan Theater
- **10 Clarion Hotel Post** Sweden
- 11 Indigo Hotel
 Thailand
- 12 Elite City-Sua Insatt Turkey

RAUPIANO PLUS Product Range

RAUPIANO PLUS pipes

RAUPIANO PLUS components

RAUPIANO PLUS components

Art. - No.

123107-001

123119-001

123714-001 122964-001

121554-001

123594-001

123076-001

123684-001

124069-001 160/110/87°

123108-001 160/125/87° 124038-001 160/160/45° 124077-001 160/160/87° 123112-001 200/160/45°

123116-001 200/200/45°

121564-003 110/110/110/87°

123045-001 90/75/90/87° 123761-001 110/75/110/87°

123055-001 90/75/90/87° 123771-001 110/75/110/87°

123164-001 40/40-30

121414-001 50/40-30

121424-001 50/50

DN/length in mm

160/125/45°

200/160/87°

90/90/90/87°

110/110/110/45°

110/110/110/87°

125/110/110/45°

160/110/110/45°

160/110/110/87°

| Description | Art No. | DN/length in mr |
|-------------|------------|-----------------|
| Pipe | 123004-004 | 40/150 |
| | 123014-004 | 40/250 |
| | 123024-004 | 40/500 |
| | 123054-400 | 40/3000 |
| | 120094-005 | 50/150 |
| | 120104-005 | 50/250 |
| | 120114-005 | 50/500 |
| | 120124-006 | 50/750 |
| | 120134-200 | 50/1000 |
| | 120934-200 | 50/3000 |
| | 120174-004 | 75/150 |
| | 120184-004 | 75/250 |
| | 120194-004 | 75/500 |
| | 120204-006 | 75/750 |
| | 120214-200 | 75/1000 |
| | 120944-200 | 75/3000 |
| | 123984-002 | 90/150 |
| | 123184-005 | 90/250 |
| | 123194-004 | 90/500 |
| | 123204-200 | 90/1000 |
| | 123224-200 | 90/3000 |
| | 120254-003 | 110/150 |
| | 120264-003 | 110/250 |
| | 120274-005 | 110/500 |
| | 120284-006 | 110/750 |
| | 120294-400 | 110/1000 |
| | 120324-400 | 110/3000 |
| | 120654-003 | 125/150 |
| | 120664-001 | 125/250 |
| | 120674-005 | 125/500 |
| | 120694-200 | 125/1000 |
| | 120724-400 | 125/3000 |
| | 122954-004 | 160/500 |
| | 121664-400 | 160/1000 |
| | 121684-400 | 160/3000 |
| | 123015-400 | 200/1000 |
| | 123035-400 | 200/3000 |
| | | |

| escription | Art No. | DN/length i |
|---------------|------------|-------------|
| Bend | 123064-001 | 40/15° |
| | 123074-001 | 40/30° |
| | 123084-002 | 40/45° |
| | 123094-001 | 40/87° |
| | 121094-001 | 50/15° |
| | 121104-002 | 50/30° |
| | 121114-001 | 50/45° |
| | 121124-002 | 50/67° |
| | 121134-001 | 50/87° |
| | 121144-001 | 75/15° |
| | 121154-001 | 75/30° |
| | 121164-002 | 75/45° |
| | 121174-001 | 75/67° |
| | 121184-001 | 75/87° |
| | 123384-001 | 90/15° |
| | 123394-001 | 90/30° |
| | 123404-001 | 90/45° |
| | 123414-001 | 90/87° |
| | 123424-001 | 110/15° |
| | 123434-001 | 110/30° |
| | 123444-001 | 110/45° |
| | 123454-001 | 110/67° |
| | 123464-001 | 110/87° |
| | 123474-001 | 125/15° |
| | 123484-001 | 125/30° |
| | 123494-001 | 125/45° |
| | 123504-001 | 125/67° |
| | 123514-001 | 125/87° |
| | 124028-001 | 160/45° |
| | 124029-001 | 160/87° |
| | 123097-001 | 200/45° |
| | 123089-001 | 200/87° |
| Cinale baseb | 100104 001 | 40/40/45/ |
| Single branch | 123104-001 | 40/40/45 |

| | 121094-001 | 50/15 |
|---------------|------------|-------------------|
| | 121104-002 | 50/30° |
| | 121114-001 | 50/45° |
| | 121124-002 | 50/67° |
| | 121134-001 | 50/87° |
| | 121144-001 | 75/15° |
| | 121154-001 | 75/30° |
| | 121164-002 | 75/45° |
| | 121174-001 | 75/67° |
| | 121184-001 | 75/87° |
| | 123384-001 | 90/15° |
| | 123394-001 | 90/30° |
| | 123404-001 | 90/45° |
| | 123414-001 | 90/87° |
| | 123424-001 | 110/15° |
| | 123434-001 | 110/30° |
| | 123444-001 | 110/45° |
| | 123454-001 | 110/67° |
| | 123464-001 | 110/87° |
| | 123474-001 | 125/15° |
| | 123484-001 | 125/30° |
| | 123494-001 | 125/45° |
| | 123504-001 | 125/67° |
| | 123514-001 | 125/87° |
| | 124028-001 | 160/45° |
| | 124029-001 | 160/87° |
| | 123097-001 | 200/45° |
| | 123089-001 | 200/43 200/87° |
| | 123009-001 | 200/07 |
| Single branch | 123104-001 | 40/40/45° |
| onigio aramon | 123114-001 | 40/40/87° |
| | 121234-001 | 50/50/45° |
| | 121254-001 | 50/50/87° |
| | 121264-001 | 75/50/45° |
| | 121284-001 | 75/50/87° |
| | 121294-001 | 75/75/45° |
| | 121544-001 | 75/75/87° |
| | 123274-001 | 90/50/45° |
| | 123284-001 | 90/50/87° |
| | 123834-001 | 90/75/45° |
| | 123844-001 | 90/75/87° |
| | 123294-001 | 90/90/45° |
| | 123304-001 | 90/90/87° |
| 1 | 101001001 | 110/00/400 |

121304-001

121324-001

100257-001

100258-001

121334-001

121344-001 122984-001

123005-001

120574-001 120594-001

120584-001

120604-001

124037-001

110/50/45°

110/50/87°

110/90/45°

110/90/87°

110/75/45°

110/75/87°

110/110/45°

110/110/87°

125/110/45°

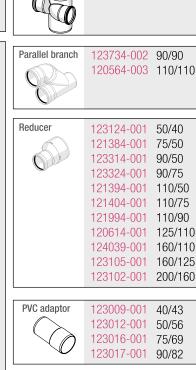
125/110/87°

125/125/45°

125/125/87°

160/110/45°

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|-----|--------------------|---------------|
| D | N/length in mm | Description |
| 4 | 10/15° | Single branch |
| | 10/30° | |
| | 10/45° | |
| | 10/87° | |
| | 50/15° | |
| | 50/30° | |
| | 50/45° | |
| | 50/67° | |
| | 50/87° | |
| | 75/15° | Double branch |
| | 75/30° | |
| | 75/45° | |
| | 75/67° | |
| | 75/87° | |
| | 90/15° | |
| | 90/30° | |
| | 90/45° | Corner double |
| | 90/87° I 10/15° | branch |
| | 110/15 110/30° | |
| | 110/30 110/45° | |
| | 110/43 110/67° | |
| | 110/07 110/87° | Shaft branch |
| | 125/15° | right |
| | 125/30° | |
| | 125/45° | |
| | 125/67° | |
| | 125/87° | |
| | 160/45° | Shaft branch |
| | 160/87° | left |
| | 200/45° | |
| - | 200/070 | |



Straight nipple

adaptor

RAUPIANO PLUS components

RAUPIANO PLUS components

RAUPIANO PLUS fireproofing collar

Description Art. - No. DN/length in mm Description Elbow nipple 123174-001 40/40-30 adaptor 50/40-30 122694-001 50/50 121444-001

| • | | _ | |
|---------------|------------|-----|--|
| P-trap siphon | 123115-001 | 50 | |
| | 123039-001 | 110 | |
| | | | |

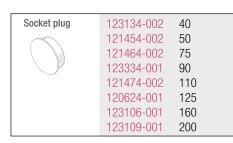
Art. - No.

DN/length in mm

50/50/50/75

75/90/110







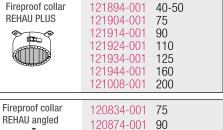
100391-003

Floor gully

Flexible exhaust

Fixing/security

connector



120844-001

120854-001

110

125





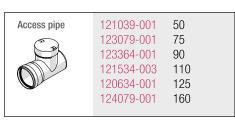
123824-001

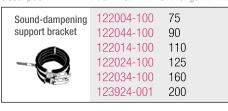






| Rubber nipple | 126253-002 | 50/40 | |
|--------------------|------------|-------|--|
| | | | |
| | 121913-003 | 50/50 | |
| 1 <u>1/ 1/ 1/1</u> | | | |
| | | | |
| Щ | | | |
| | | | |
| Rubber nipple with | 122923-003 | 40/30 | |
| | | | |
| bead 📥 | 122933-003 | 50/30 | |
| | | | |





| Rubber venting adaptor | 123067-001 | 50/56 |
|------------------------|------------|-------|

122943-003 50/40

+-++

Lubricant

| Long socket | 123374-001 121594-001 | 90 110 | |
|-------------|--------------------------|-----------|--|

| clamp | 120504-001 | 50 | |
|---------------|------------|-----|--|
| | 120026-001 | 75 | |
| | 120047-001 | 90 | |
| 45. | 120029-001 | 110 | |
| i i | 120048-001 | 125 | |
| | 120049-001 | 160 | |
| | 123934-001 | 200 | |
| | | | |
| Cuiding alomn | 12265/-001 | 40 | |

122644-001

40

| Durkhan alasus | 125024-001 | 50/53-63 |
|----------------|------------|----------|
| Rubber sleeve | | |
| adaptor | 125034-001 | 75/75-89 |
| | 123904-001 | 110/90 |
| | 123914-001 | 110/110 |
| | | |
| Securing clip | 123000-001 | 110 |
| N | 123002-001 | 160 |

123006-001 200

176520-003 250 g

| Closet bend | 121604-001 | 110/22° |
|-------------|--------------------------|--------------------|
| | 121614-001 121624-001 | 110/45° 110/90° |

| Guiding clamp | 122004-001 | 40 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----|
| | 120534-001 | 50 |
| | 120019-001 | 75 |
| | 120055-001 | 90 |
| | 120027-001 | 110 |
| the state of the s | 120056-001 | 125 |
| | 120057-001 | 160 |
| | 123944-001 | 200 |
| | | |

| | 172960-003 | 500 g |
|---------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Push-fit lock | 100659-001 100661-001 100662-001 100663-001 100664-001 100665-001 102946-001 102947-001 | 40 50 75 90 110 125 160 200 |

Closet connection 122934-001 90/250 121634-001 110/150 121644-001 110/250



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Our warranty assumes consistent quality of our products in accordance with our specification and in accordance with our general conditions of sale.

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