



**Engineering progress
Enhancing lives**

RAUPIANO plumbing system

Quiet. Robust. Easy.

Product Book - Southeast Asia





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 innovative products designed with the environment in mind.

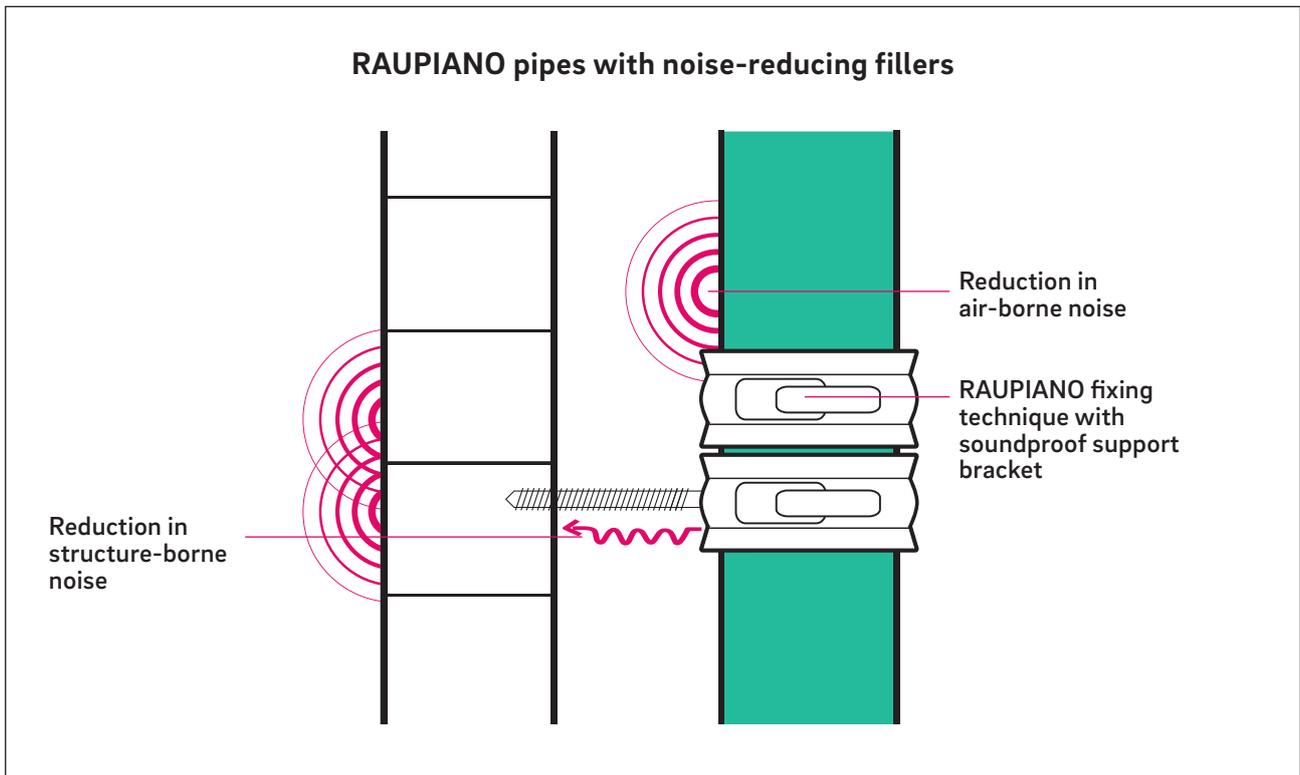
Stringent quality control and safety guidelines ensure that our products comply with the highest international standards. We take pride in our expertise and versatility to remain at the forefront of technology.

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



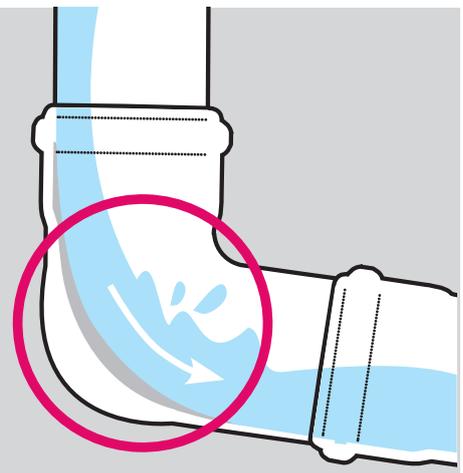
RAUPIANO tackles noise from all aspects; it reduces noise by cutting down the air-borne and structure-borne noise transmissions.

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.

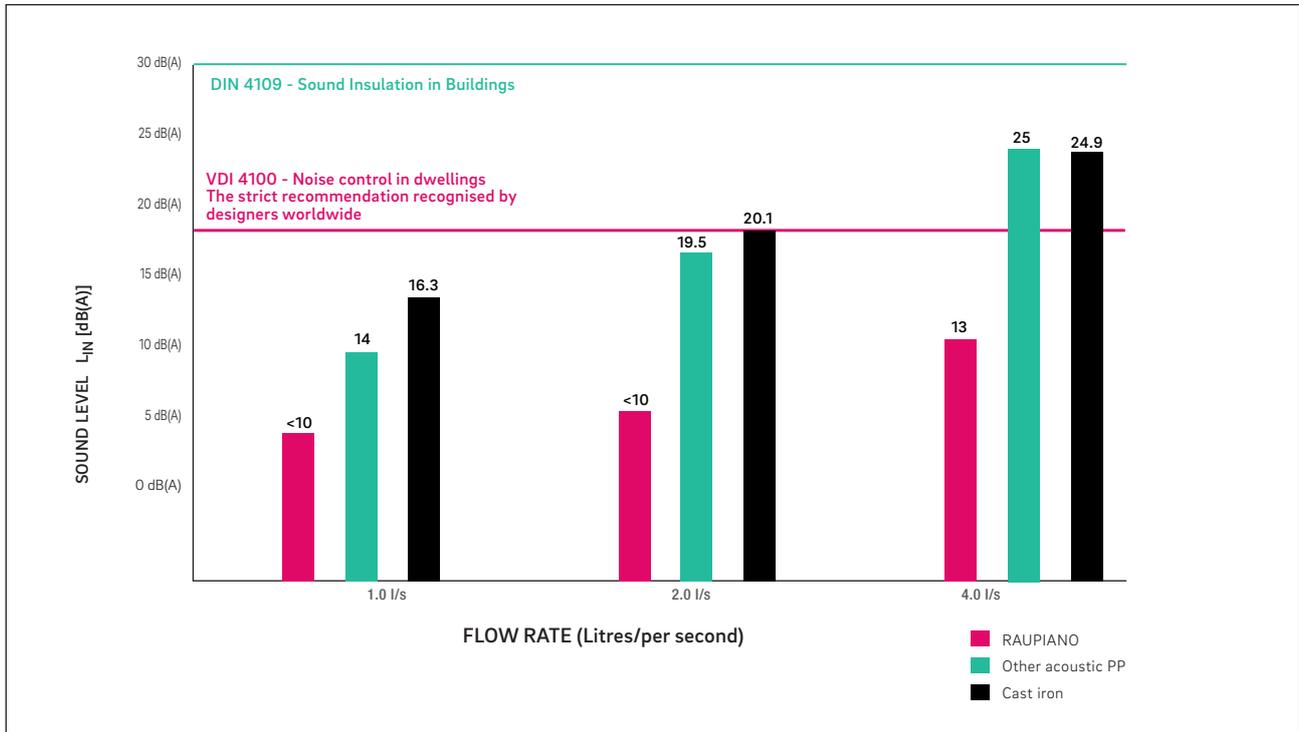
RAUPIANO pipes and fittings improve sound insulation performance through the innovative three-layer pipe and bend fittings with optimized mass concentration to further reduce air-borne noise transmission.

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

Specially designed bends with increased wall thickness reduce air-transmitted sound even further.



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

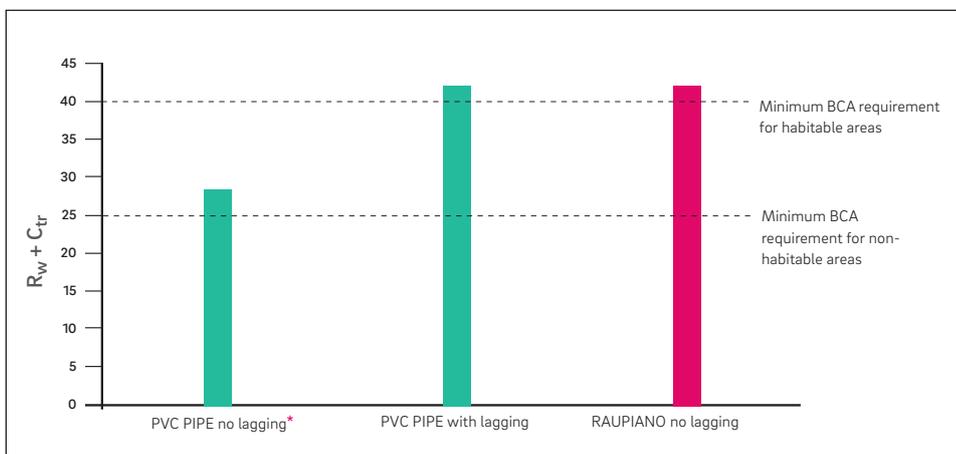


No acoustic lagging required

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 ($R_w + C_{tr}$ 40) for living areas in apartments/town-houses. RAUPIANO exceeds this requirement without acoustic-lagging, using common suspended ceiling (13mm standard-core plasterboard with 75mm glasswool insulation batt).

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



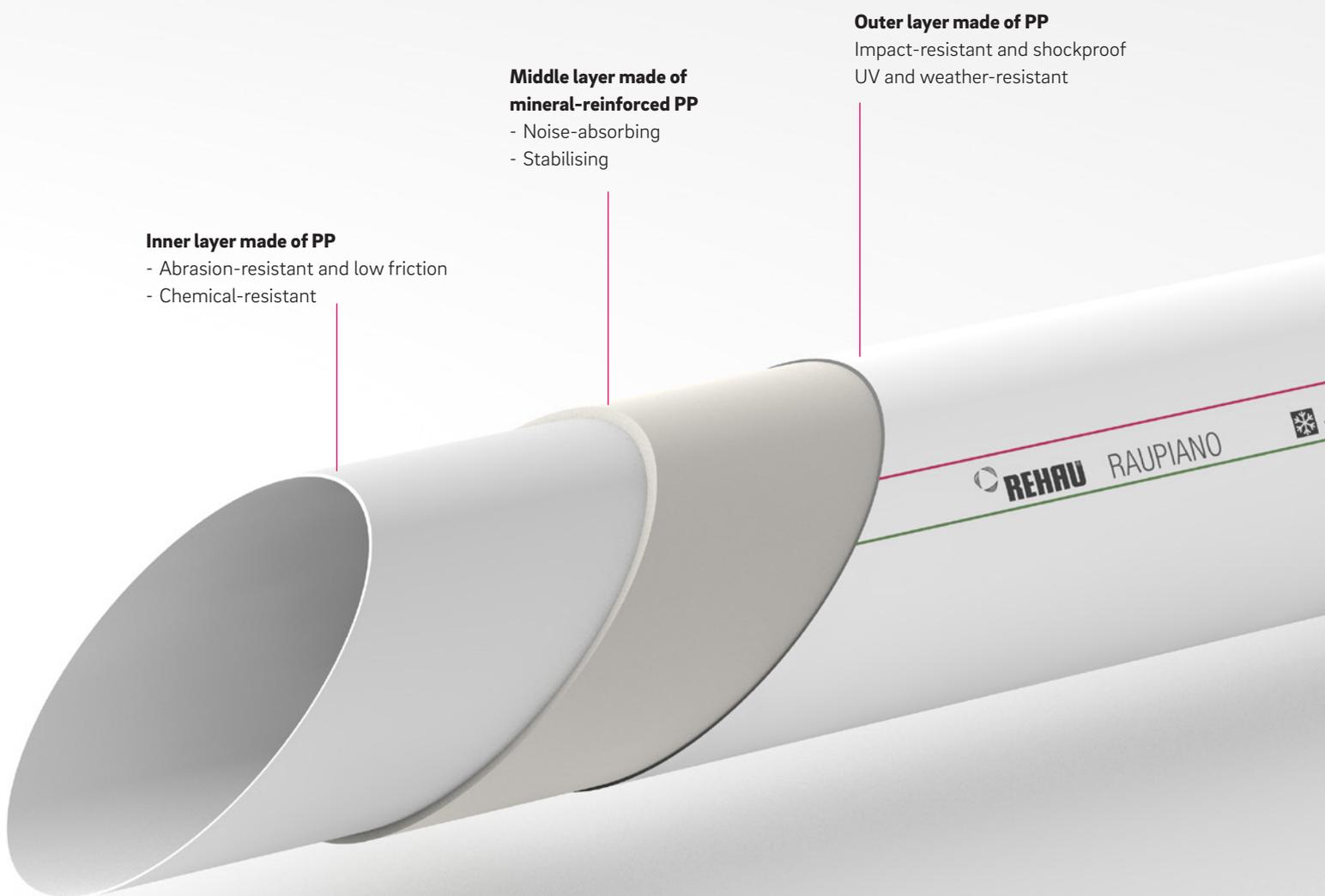
RAUPIANO's acoustic performance has been tested and proven in National Acoustic Laboratory (NAL) and deemed to be equivalent to acoustically-lagged PVC system.

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

ROBUST

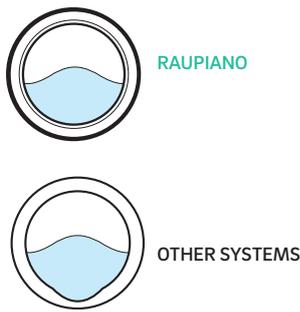
Before, during and after installation

Three layers in one homogeneous process



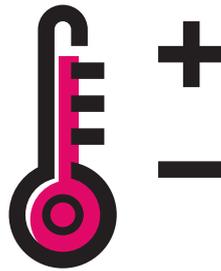
The innovative materials used in the 3 functional layers are integrated in one homogeneous process, ensuring toughness, rigidity. A special coating improves the flow conditions and maintains the high drainage-rate.

Abrasion-resistant



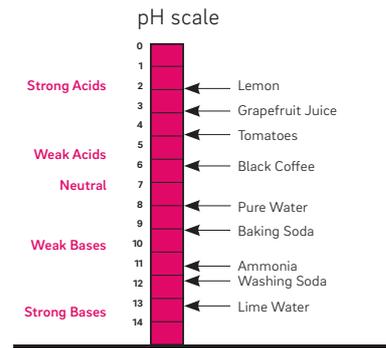
The smooth, abrasion-resistant inner layer ensures the pipes remain free of deposits and scaling. A special coating improves the flow conditions of the pipe systems to maintain the high drainage-rate of the RAUPIANO system.

Heat resistant



RAUPIANO 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.

Chemical resistant



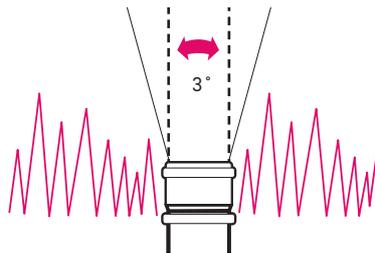
RAUPIANO can be used in harsh environments because it is **highly resistant to various types of chemicals** and wastewater that cause corrosion and wear and tear. It can withstand chemicals ranging from pH2 to pH12.

Leakproof system



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.

Shock and vibration proof



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 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.

4X
lighter than
cast iron



Green, non-toxic and odourless

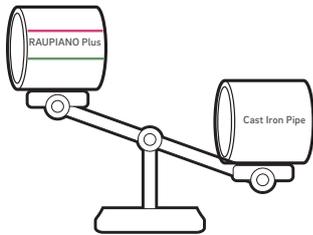
RAUPIANO system leaves small carbon footprint as it takes less energy to fabricate from raw material to final product. Polypropylene (PP) material used to make RAUPIANO is 100% recyclable and contains no toxic material. It stands for efficiency, innovation, protection of the environment and sets the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



EASY

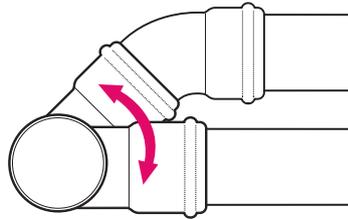
Save time. Save cost.

Light and convenient



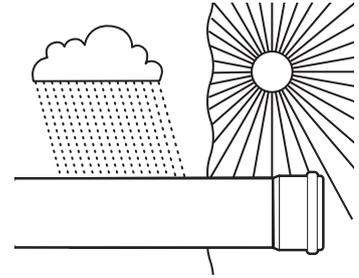
RAUPIANO is **4 times lighter** than conventional cast iron pipes, **saving up to 20%** in transportation costs. The lightweight materials also dramatically improve safety in transportation and installation.

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

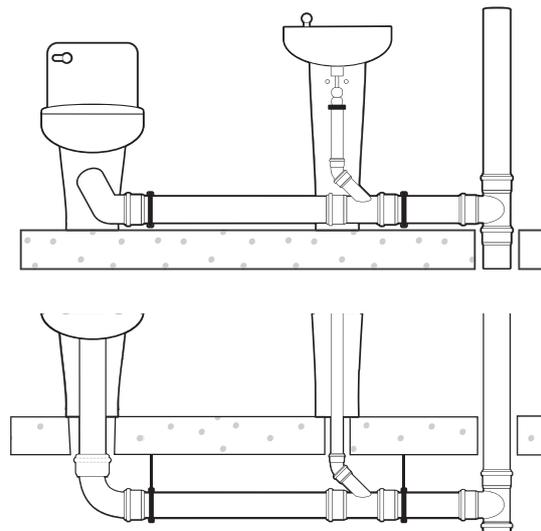


Characterised by its high-impact toughness, **shock resistance and durability against inclement weather, the UV-stabilised outer layer** makes outdoor storage possible for up to 2 years.

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.

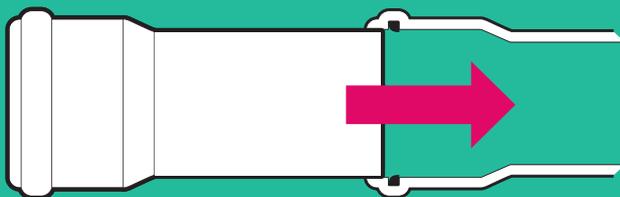


RAUPIANO is suitable for either wall or floor drainage systems.

30%
faster
installation

Quick and easy installation

RAUPIANO 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

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

Refer to RAUPIANO technical information and contact your local REHAU sales office for more information on RAUPIANO 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: EPDM	
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 EPDM	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/ cm ³ Fittings: 1,1 to 1,9 g/ cm ³	
Linear expansion:	0,09 mm/ mK	DIN 53752
Ring stiffness:	> 4 KN/ m ²	DIN EN ISO 9969
Tensile strength:	> 16 N/ mm ²	DIN EN ISO 527-3
Elongation at break:	approx. 150 %	DIN EN ISO 527-3
E-Modulus:	approx. 2700 N/ mm ²	DIN EN ISO 527-2
Pressure resistance:	1 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 3/2025: max 13 db(A) at 4L/sec with REHAU sound-proof bracket P-BA 4/2025: max 21 db(A) at 4L/sec with standard bracket	
Thermal load:	The thermal load of RAUPIANO has been examined by MPA (Material Testing Institute): 14,992 KJ/kg.	

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)

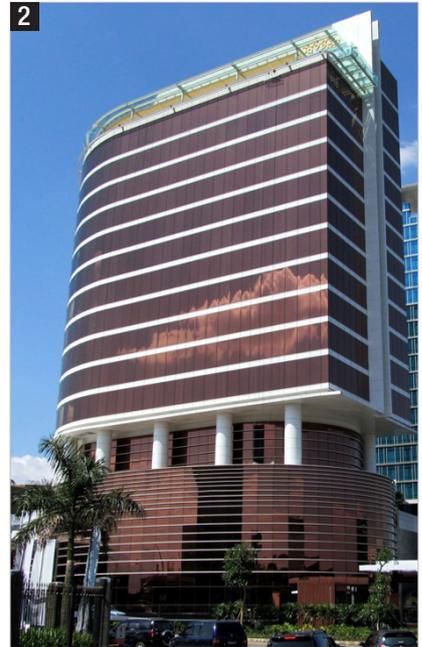
Quality and certification

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

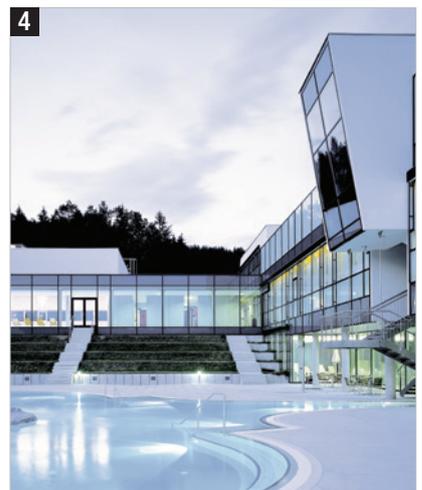
 <p>GERMANY</p>	 <p>POLAND</p>	 <p>MALAYSIA</p>	 <p>SWEDEN</p>
 <p>DENMARK</p>	 <p>AUSTRIA</p>	 <p>HUNGARY</p>	 <p>NORWAY</p>
 <p>FINLAND</p>	 <p>RUSSIA</p>	 <p>AUSTRALIA & NEW ZEALAND</p>	

RAUPIANO

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**
Spain
- 10 **Clarion Hotel Post**
Sweden
- 11 **Indigo Hotel**
Thailand
- 12 **Elite City-Sua Insatt**
Turkey

RAUPIANO Product Range

RAUPIANO pipes

Description	Art. - No.	DN/length in mm
Pipe 	11230041005	40/150
	11230141006	40/250
	11230241222	40/500
	11094921001	40/3000
	11200941005	50/150
	11201041005	50/250
	11201141222	50/500
	11094931001	50/1000
	11094941001	50/3000
	11201741005	75/150
	11201841005	75/250
	11201941222	75/500
	11094951001	75/1000
	11094961001	75/3000
	11239841002	90/150
	11231841005	90/250
	11231941222	90/500
	11098881001	90/1000
	11098891001	90/3000
	11202541003	110/150
	11202641003	110/250
	11202741222	110/500
	11094971001	110/1000
	11094981001	110/3000
	11206541003	125/150
	11206641001	125/250
	11206741222	125/500
	11206941222	125/1000
	11207241222	125/3000
	11229541222	160/500
	11216641222	160/1000
	11216841222	160/3000
	11230151222	200/1000
	11230351222	200/3000

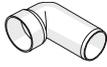
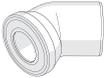
RAUPIANO components

Description	Art. - No.	DN/length in mm
Bend 	11230641001	40/15°
	11230741001	40/30°
	11230841002	40/45°
	11230941001	40/87°
	11210941003	50/15°
	11211041003	50/30°
	11211141003	50/45°
	11211241003	50/67°
	11211341003	50/87°
	11211441002	75/15°
	11211541002	75/30°
	11211641002	75/45°
	11211741002	75/67°
	11211841002	75/87°
	11233841002	90/15°
	11233941002	90/30°
	11234041002	90/45°
	11234141001	90/87°
	11231321001	110/15°
	11231351001	110/30°
	11231361001	110/45°
	11234541001	110/67°
	11234641001	110/87°
	11234741001	125/15°
	11234841001	125/30°
	11234941001	125/45°
	11235041001	125/67°
	11235141001	125/87°
	11240281001	160/45°
11240291001	160/87°	
11230971001	200/45°	
11230891001	200/87°	
Single branch 	11231041002	40/40/45°
	11231141002	40/40/87°
	11212341001	50/50/45°
	11212541001	50/50/87°
	11212641002	75/50/45°
	11212841002	75/50/87°
	11212941001	75/75/45°
	11215441001	75/75/87°
	11232741001	90/50/45°
	11232841001	90/50/87°
	11238341001	90/75/45°
	11238441001	90/75/87°
	11232941001	90/90/45°
	11233041001	90/90/87°
	11213041001	110/50/45°
	11213241002	110/50/87°
	11213341001	110/75/45°
	11213441001	110/75/87°
	11002571001	110/90/45°
	11002581001	110/90/87°
	11229841001	110/110/45°
	11230051001	110/110/87°
	11205741001	125/110/45°
	11205941001	125/110/87°
11205841001	125/125/45°	
11206041001	125/125/87°	
11240371001	160/110/45°	

RAUPIANO components

Description	Art. - No.	DN/length in mm
Single branch 	11240691001	160/110/87°
	11241271001	160/125/45°
	11241281001	160/125/87°
	11240381001	160/160/45°
	11240771001	160/160/87°
	11231171001	200/160/45°
	11231191001	200/160/87°
11231181001	200/200/45°	
Double branch 	11237141001	90/90/90/87°
	11229641001	110/110/110/45°
	11215541001	110/110/110/87°
	11235941001	125/110/110/45°
	11236841001	160/110/110/87°
Corner double branch 	11215641003	110/110/110/87°
Shaft branch right 	11230451001	90/75/90/87°
	11237611001	110/75/110/87°
Shaft branch left 	11230551001	90/75/90/87°
11237711001	110/75/110/87°	
Parallel branch 	11237341002	90/90
	11205641003	110/110
Reducer 	11231241002	50/40
	11213841002	75/50
	11233141001	90/50
	11233241001	90/75
	11213941002	110/50
	11214041002	110/75
	11219941001	110/90
	11206141001	125/110
11240391001	160/110	
11231051001	160/125	
11231021001	200/160	
PVC adaptor 	11230091001	40/43
	11230121001	50/56
	11035261001	75/69
	11230171001	90/82
Straight nipple adaptor 	11214141001	50/40-30

RAUPIANO components

Description	Art. - No.	DN/length in mm
Elbow nipple adaptor 	11231741001	40/40-30
	11226941001	50/40-30
	11214441001	50/50
Socket plug 	11231341003	40
	11214541003	50
	11214641003	75
	11233341003	90
	11214741003	110
	11206241001	125
	11231061001	160
	11231091001	200
Double socket 	11231441001	40
	11326241001	50
	11215841002	75
	11233441001	90
	11214941001	110
	11204741001	125
	11240471001	160
	11230981001	200
Slip-on socket 	11231541001	40
	11326251001	50
	11215741002	75
	11233541001	90
	11215141001	110
	11204641001	125
	11240481001	160
11230991001	200	
Access pipe 	11210391001	50
	11230791001	75
	11233641002	90
	11215341004	110
	11206341001	125
	11240791001	160
Long socket 	11233741001	90
	11215941001	110
Closet bend 	11216041001	110/22°
	11216141001	110/45°
	11216241001	110/90°
Closet connection 	11229341001	90/250
	11216341001	110/150
	11216441001	110/250
Floor gully 	11089711001	50/50/50/75

RAUPIANO components

Description	Art. - No.	DN/length in mm
P-trap siphon 	11231151001	50
	11230391001	110
P-trap 	11230591002	110 (with vent)
	11230691002	110 (without vent)

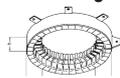
RAUPIANO mounting system

Description	Art. - No.	DN/length in mm
Sound-dampening support bracket 	11270011001	75
	11270021001	90
	11270031001	110
	11270041001	125
	11270051001	160
	Fixing/security clamp 	11270071001
11270081001		50
11270091001		75
11271001001		90
11271011001		110
11271021001		125
11271031001		160
11271041001		200
Guiding clamp 	11271061001	40
	11271071001	50
	11271081001	75
	11271091001	90
	11271101001	110
	11271111001	125
	11271121001	160
11271131001	200	
Headless screw 	11210741002	M8
	11210841002	M10

RAUPIANO fireproofing collar

Fireproof collar REHAU compact 	11221041001	50
	11221141001	75
	11221241001	110
	11221341001	125
Fireproof collar REHAU PLUS 	11218941001	40-50
	11219041001	75
	11219141001	90
	11219241001	110
	11219341001	125
	11219441001	160
	11210081001	200

RAUPIANO fireproofing collar

Description	Art. - No.	DN/length in mm
Fireproof collar REHAU angled 	11208341001	75
	11208741001	90
	11208441001	110
	11208541001	125

Accessories

Description	Art. - No.	DN/length in mm
Rubber sealing ring 	11200891001	40
	11200951001	50
	11200961001	75
	11200971001	90
	11200991001	110
	11201051001	125
	11201061001	160
Rubber nipple 	11262531002	50/40
	11219131003	50/50
Rubber nipple with bead 	11229231003	40/30
	11229331003	50/30
	11229431003	50/40
Rubber sleeve adaptor 	11250241001	50/53-63
	11250341001	75/75-89
	11239041001	110/90
	11239141001	110/110
Securing clip 	11230001001	110
	11230021001	160
Lubricant 	11765201003	250 g
	11729601003	500 g
Push-fit lock 	11006591001	40
	11006611001	50
	11006621001	75
	11006631001	90
	11006641001	110
	11006651001	125
	11029461001	160
	11029471001	200

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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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