



## RAUPIANO PLUS

THE VERSATILE ACOUSTIC DRAINAGE SYSTEM



# REHAU

REDEFINING QUALITY IN POLYMERS WORLDWIDE

## A global leader in polymer processing technologies

Founded in 1948, REHAU today enjoys an impeccable reputation globally for developing innovative solutions in providing a wide range of products and services to the Construction, Automotive and Industrial sectors.

With more than 15,000 employees around the globe in over 170 locations on 6 continents, REHAU offers incomparable expertise in materials development, systems design and surface technology, and an unwavering commitment to building long-lasting partnerships and alliances with our customers.

Continuing research and development enables us to consistently deliver cost-effective and environment-friendly products. Stringent quality control and safety guidelines ensure that all our products comply with the highest international standards.

REHAU's products and systems for windows and doors, heating and plumbing, fire protection and pipe applications complement each other in integrated high-performance solutions, representing the perfect blend of quality and innovation to inspire better living.

With RAUPIANO PLUS, a sound insulated domestic waste water system, REHAU has yet again succeeded in setting a new benchmark in quality and excellence.



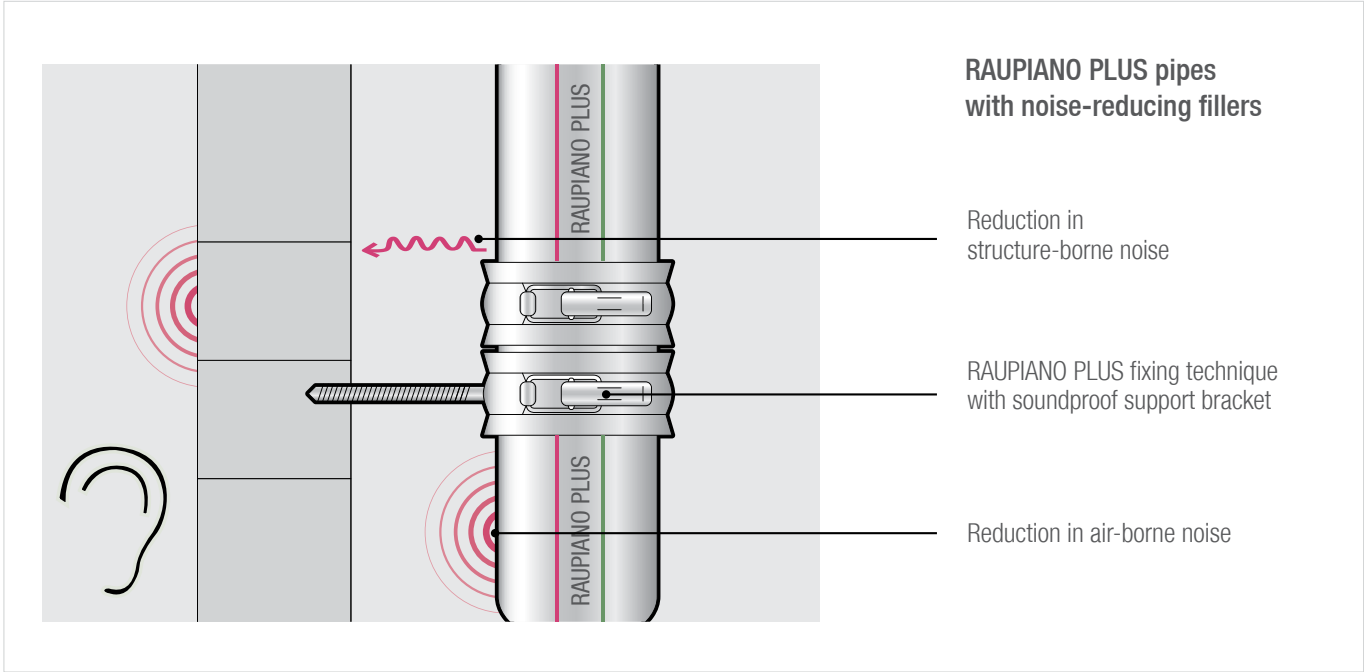
Shoreline Apartments, Palm Island of Jumeirah - Dubai, United Arab Emirate



# PEACEFUL, COMFORTABLE LIVING

## THE BEST IN SOUND INSULATION TECHNOLOGY

Patented sound insulation technology that fulfills the highest requirements

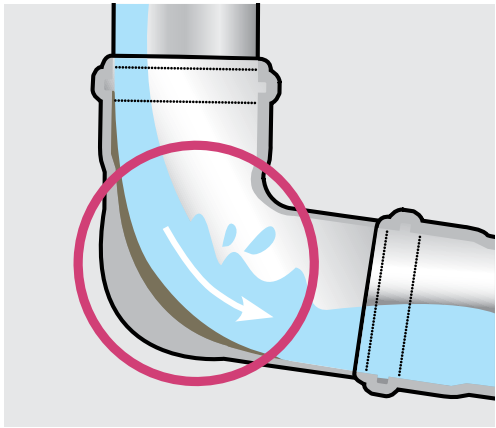


RAUPIANO PLUS tackles noise from all aspects; it reduces noise by cutting down the air-borne and structure-borne noise transmissions.

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.



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



No acoustic lagging required

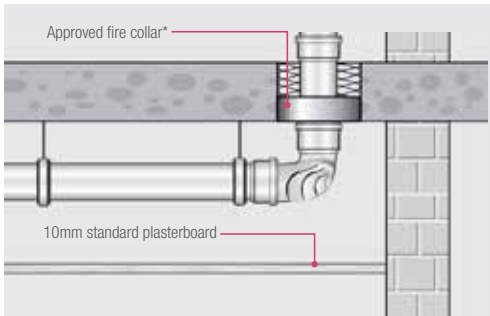
### The ultimate acoustic drainage piping system

Vertical living has challenged the industry to develop innovative solutions to overcome potential problems caused by dense living space.

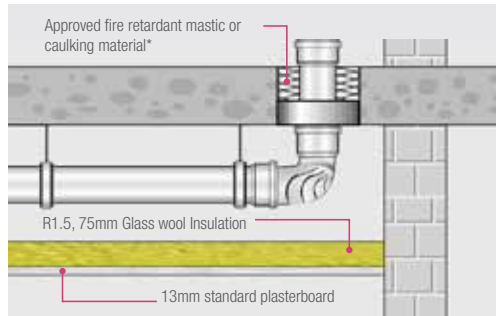
RAUPIANO PLUS is an acoustic drainage system used to improve the attenuation of sound created by turbulent water flow through the pipe work. The system has been extensively tested at the National Acoustic Laboratory and has been confirmed to meet and exceed the deemed to satisfy requirements of the NCC/BCA behind a ceiling system **without the need for acoustic lagging**.

RAUPIANO PLUS also has high temperature (90 degree continuous, 95 degree intermittent) and chemical resistance (ph 2-12) making it an ideal solution for trade waste applications

- Save time
- Save space
- Maintenance free
- Consistent acoustic performance
- Guaranteed acoustic performance
- Simplified trade schedule
- Improved OH&S
- Reduced risk of defects
- Easy inspection of services
- One drainage specification for the whole project



$R_W + C_{Tr} 25$  (non-habitable areas)



$R_W + C_{Tr} 40$  (habitable areas)

**“REHAU RAUPIANO PLUS is a practical, cost-effective solution which eliminates the need for lagging the pipework and inspecting any type of lagging during the construction phase of the project.”**

Nicholas Tselios, Director of RENZO TONIN & ASSOCIATES (NSW) PTY LTD

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



# HIGH PERFROMANCE PROPERTIES FOR A BROADER APPLICATION

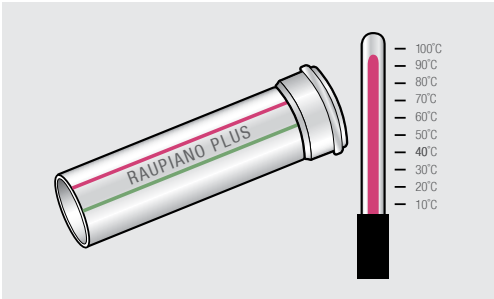


Don't restrict your installation to just common places.

## Trade waste

With its outstanding system properties, RAUPIANO PLUS can be used in the most challenging environments. It is highly resistant to various types of chemicals and wastewater that can cause corrosion, wear and tear. It can withstand chemicals ranging from pH 2 to pH 12.

RAUPIANO PLUS can also withstand extreme temperatures. It can handle hot water up to 90°C (or 95°C for short periods), making it an excellent system for **trade waste applications**. It can also be installed under extremely cold conditions of -10°C.



# NON-TOXIC, ODOURLESS AND ENVIRONMENTALLY FRIENDLY



Play a part in taking care of the environment by choosing RAUPIANO PLUS.

## Clean and Green

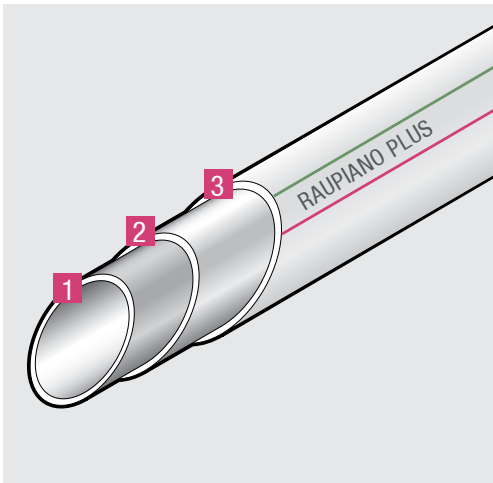
With the ever increasing requirements for greenness and recyclability, there are more reasons than ever to choose the right products that will take care of the environment.

RAUPIANO PLUS system leaves small carbon footprint as it takes less energy to fabricate from raw material to final product. RAUPIANO PLUS system contains no toxic materials, such as Halogens, and is 100% recyclable. For these reasons RAUPIANO PLUS can earn you valuable credits toward a building's **GREEN STAR RATING**

RAUPIANO PLUS requires no nasty glue or primer, reducing hazardous chemicals and eye watering odours during installation.

# DURABLE. RELIABLE. LEAK-FREE.

## Three innovative layers, enhancing drainage and increasing toughness



- 1 Inner layer (PP)
- 2 Middle layer (mineral reinforced PP)
- 3 Outer layer (PP)

With its unique multi-layer technology RAUPIANO PLUS pipes are lightweight yet tough offering both acoustic and trade waste solutions.

The multi-layer pipes offer:

- Impact-resistant and shock resistant outer layer
- Highly rigid mineral-reinforced middle layer; and
- Abrasion-resistant inner layer.

The smooth and abrasion-resistant inner layer ensures the pipes remain free from deposits and scaling. A special coating improves the flow conditions within the pipe system to maintain an excellent drainage flow rate.

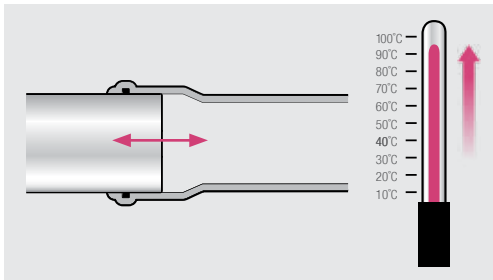
### EXTENSIVE PRODUCT RANGE WITH RELIABLE CONNECTION

RAUPIANO PLUS has an extensive range of pipes and fittings from 40-160mm for easy conversion plus a unique space saving combination floor gully and riser, there are no frustrations over complicated installation.

The simple push-fit connection combined with built-in sockets and factory pre-installed sealing rings reduce the workmanship fault of producing improper connection, ensuring a leakage-free and odour-free environment. No more of those smelly primer and solvent cement.

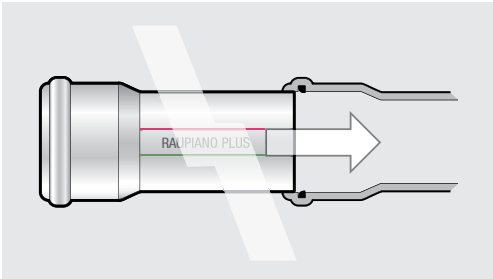


## RAUPIANO Plus outperforms all other materials used in household wastewater systems



### THERMAL EXPANSION

The mineral-reinforced Polypropylene has half the thermal expansion as HDPE, and the push-fit connection is able to accommodate the length extension due to temperature. There is no need to install additional fittings in order to manage thermal expansion.



### FAST INSTALLATION TIME

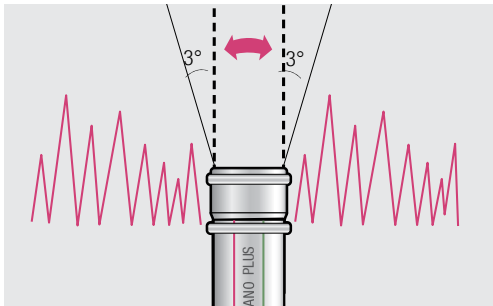
The push-fit connection allows faster installation time while still permitting adjustments in the future. There is no need for welding, so there is no time wasted in waiting for the welding joint to cure.

And with no acoustic-lagging required, imagine how much more time you can save in installation time and cost.



### 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 fire protection solutions.



### 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 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.

The maximum 3° angle deflection provides excellent shock and vibration resistance.



# COMPLETE PROVIDER OF QUALITY SOLUTIONS

YOUR ONE-STOP SHOP TO EXECUTE PROJECTS END-TO-END

## REHAU assurance and support

REHAU is committed to excellence and quality with both its products and people. **We listen so we can offer precise and customised solutions that suit your market's needs.**

Every REHAU pipe is **strictly produced according to the most stringent German engineering guidelines**, with the company certified to ISO 9001 standards. More than just a piping systems supplier, **REHAU is a total solutions provider** and offers the most comprehensive line of extruded polymer construction products available.



### NETWORK OF HIGHLY TRAINED PARTNERS AND INSTALLERS

Our regular organised technical seminars, workshops and trainings as part of our REHAU Training Academy programs are not only to help our partners to achieve greater professional competence but also to build a close bond and network among us. Subsequent refresher and new product courses are also provided to ensure our partners stay abreast with the **latest advancements in building technology** and thereby improve their long term competitiveness.



### TECHNICAL SUPPORT

We recognise that a **successful solution requires the right tools, the know-how of an experienced team and the desire to create a product that exceeds customer's expectations.** And we are happy to help our partners achieve their goals from project planning to job-site support via the REHAU Competence Team. Contact your nearest REHAU sales office listed at the back of the brochure.



### YOUR PERFECT LONG-TERM PARTNER

We offer you the strength of a world-leading brand of polymer-based solutions. One that is backed by **outstanding innovations, the most modern manufacturing technologies and flexible logistics.** You'll find in REHAU a future-oriented, reliable partner with a depth of expertise second to none.

# OUTSTANDING RESULTS

RAUPIANO PLUS SUPERIOR TO OTHER WASTEWATER SYSTEMS



Shoreline Apartments, Palm Island of Jumeirah, Dubai, UAE



Learning Centre, University, Australia



Europaviertel Frankfurt, Germany



Torre Caja, Spain



Therme & Hotel Nova Koflach, Koflach, Austria



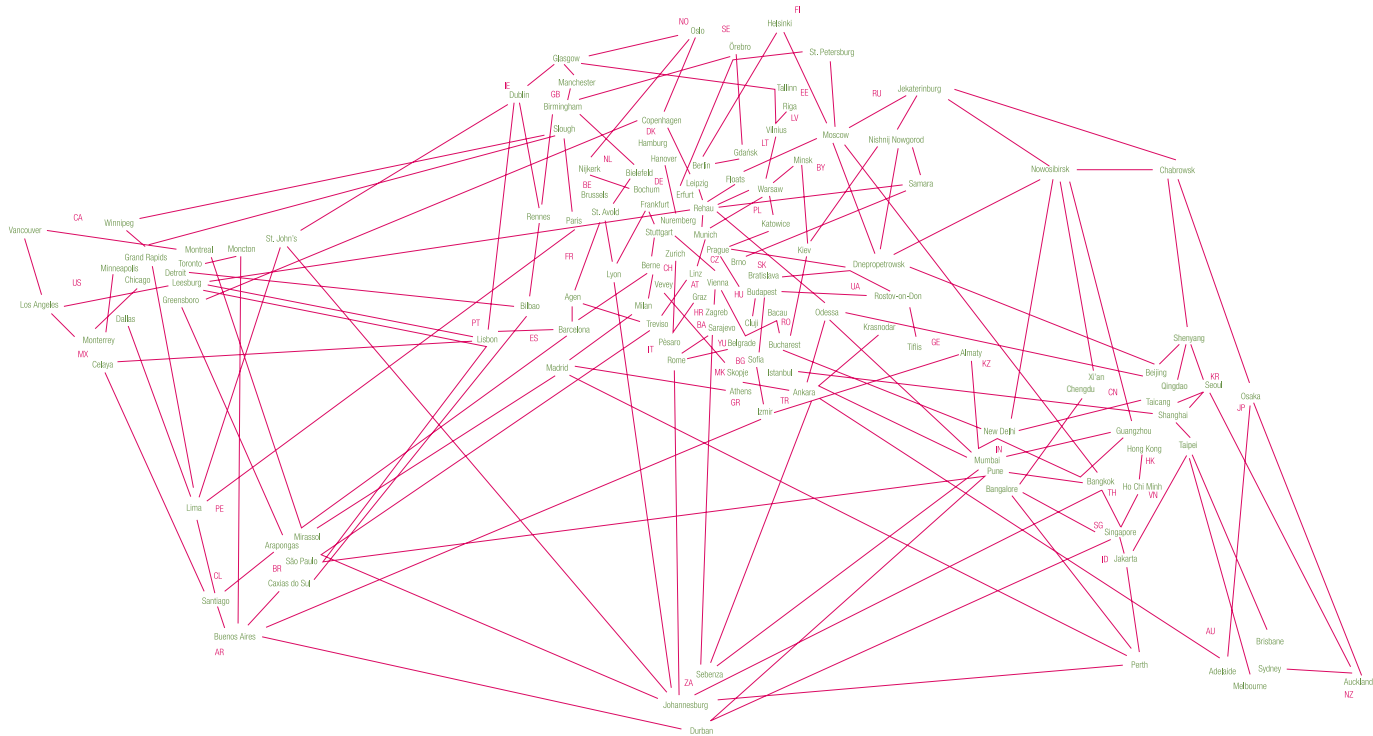
Luxury Villas, Burswood, Australia

- Longrain Restaurant, Sydney, NSW, Australia
- Wattanobi public housing, Newcastle, NSW, Australia
- Learning Centre, University of South Australia, Australia
- Watson Apartments, Walkerville, SA, Australia
- Harrison Green Apartments, Canberra, ACT, Australia
- Hope Island Nursing Home, Hope Island, QLD, Australia
- Queensland Childrens Hospital, Brisbane, QLD, Australia
- Luxury Villas, Burswood Entertainment Complex, Perth, WA, Australia
- Perth Childrens Hospital, Perth, WA, Australia
- Church Street Apartments, Brighton, VIC, Australia
- Coles, Southland, VIC, Australia
- The Terraces, Christchurch, New Zealand
- Shoreline Apartments, Palm Islands of Jumeirah, Dubai, UAE
- Torre Caja, Madrid, Spain
- Olympia Aparments, Moskow, Russia
- Hyatt Regency, Istanbul, Turkey
- Europaviertel Frankfurt, Frankfurt am Main, Germany
- Olympic Village, Turin, Italy

## Quality and certification

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

 GERMANY	 POLAND	 MALAYSIA	 SWEDEN	 AUSTRALIA & NEW ZEALAND
 AUSTRIA	 HUNGARY	 NORWAY	 FINLAND	 DENMARK
				 RUSSIA



Our verbal and written advice relating to technical applications is based on experience and is to the best of our knowledge correct but is given without obligation.

The use of REHAU products in conditions that are beyond our control or for applications other than those specified releases us from any obligation in regard to claims made in respect of the products.

We recommend that the suitability of any REHAU product for the intended application should be checked. Utilization and processing of our products are beyond our control and are therefore exclusively your responsibility. In the event that a liability is nevertheless considered, any compensation will be limited to the value of the goods supplied by us and used by you.

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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