



RAUTITAN WATER SERVICES

MORE SECURE. BETTER COMFORT. HIGHEST PRODUCTIVITY

EASIER

ENGINEERED FOR YOUR CONVENIENCE



MAXIMUM FLEXIBILITY, ULTIMATE DESIGN FREEDOM

Even in the most confined space, the superior flexibility of the RAUTITAN PE-Xa pipes give you the freedom to bend around corners and around existing services to complete the installation. In addition the simple mechanical joint can be confidently made in very restricted spaces making it the ideal system for renovation or water service extensions.



NO CASE OF MISTAKEN IDENTITY

Installation of 'cold water pipes' (PN10) for hot water applications may result in the pipe bursting and can cause significant consequential damages. Further, any incorrect installation can not be detected during pressure test.

The RAUTITAN his 311 system includes a single PN20 pipe for both hot and cold water applications, completely removing any risk of pipe bursting due to the use of the wrong pipe class. Not only mistakes are eliminated but also cold water systems share the highest protection against pressure surge.

One pipe for hot and cold



NO POWER, NO HEAT, NO WORRIES

The RAUTITAN system can be installed under almost any weather conditions and at any location since it requires no electricity.

RAUTITAN's robust 'cold' compression sleeve jointing technology requires no brazing, no welding, no open flames or hot welding tools (up to 260°C). Avoid the risk of damage to existing building elements or other services (e.g. electrical) caused by open flames or high temperatures; and of course the risk of injury to your team. In addition, save your valuable time usually spent applying for a hot work permit.

**No welding,
No brazing!**



TURN A TWO-MAN JOB INTO ONE

Many projects require installations above your head. Where conventional fusion welding techniques can require '3' hands to hold-in-place and join during installation, the RAUTITAN's light weight materials and simple jointing process ensure it is a one man job.

**up to 50%
less labour**

FASTER

SAVE TIME, SAVE COST



MORE TIME, MORE JOBS

With growing advancements in modern construction techniques, projects are moving faster than ever before; and with that growing client expectation. The RAUTITAN system provides:

- Simple, fast and robust jointing technique
- Up to 100m coiled pipe runs. No joint!
- More than 30% less joints per installation
- No waiting for cool down periods before pressurizing the system

**More than
30% faster**

For over 30 years, REHAU installers have proven the RAUTITAN system is installed more than 30% faster compared with welding and/or brazing based systems. Use your saved time to take up more jobs and generate more income.



STOP THROWING AWAY YOUR PROFIT

Available in easy to use coils (up to 100m long), the RAUTITAN pipes can be cut exactly to the length of the required pipe run. Available in straight lengths only; traditional systems not only require extra joints (and hence extra risk/time) but can never be cut exactly to required length without some wastage. Experience shows that more than 20% of wastage can be saved.

**20% less
wastage**



REDUCE INVENTORY

Available in a single PN20 pipe for both hot and cold water, the RAUTITAN system can significantly reduce your pipe inventory value and save valuable space on-site.

**up to 25%
reduction in pipe
inventory**

MORE SECURE

SIMPLE. ROBUST. RELIABLE.



SIMPLY THE MOST RELIABLE JOINT

REHAU's compression sleeve connection creates a permanently sealed joint with the pipe, fitting and compression sleeve. Additional O-rings or other sealants, which can be weak points over the long-term, are not needed because the pipe itself functions as a sealant.

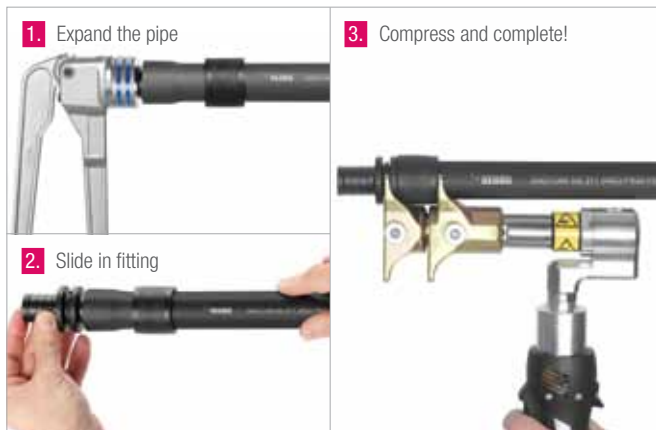
Unlike other jointing technologies where there are uncertainties if the joint is properly soldered, crimped, tightened or welded, the quality of the RAUTITAN joint can be confirmed by a quick visual inspection.

The RAUTITAN compression sleeve joint is a simple, robust and reliable connection; that is not compromised by uncontrollable factors such as:

- Incorrect heating, cooling and holding times during welding: too short it leaks; too long or over-push it may completely seal up the hole
- Poor workmanship and/or unskilled workers

pressure test
up to 300psi

100% permanent
leak-proof joint



THREE STEPS TO SECURITY

Making a 100% leak-proof joint has never been this easy.

REHAU's compression sleeve joint is made in just three simple steps

1. Expand the pipe
2. Slide in the fitting
3. Compress the joint

Utilized for over 30 years and across millions of connections REHAU guarantees a 100% permanent leak-proof joint in just three simple steps!

Reduce
workmanship fault

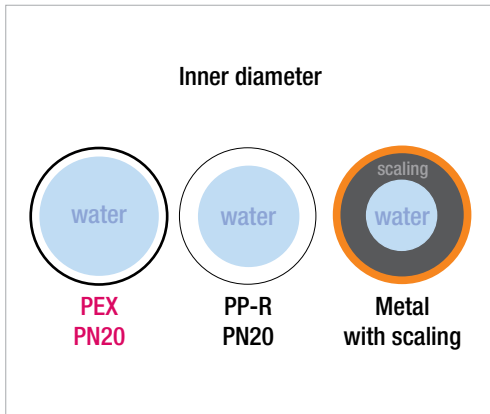


FEWER JOINTS, FEWER MISTAKES

Even the most skilful plumber can make a mistake during jointing, not to mention the unskilled worker. Maximum flexibility of the pipe system and availability of coils can reduce the number of joints per installation by more than 30%. Elbow fittings are replaced by a smooth bend of the premium RAUTITAN PE-Xa pipe

>30% less joints

Many systems are available in only 4 meter straight lengths. This means for a 100m straight pipe run there are more than 48 joints to be made. Available in flexible coils up to 100m run, the RAUTITAN system can be installed in one single pipe run; no connections; 100% system security!



LONG-TERM PEACE OF MIND

With more than 60 years of world class polymer engineering and 30 years of plumbing experience, the RAUTITAN system has been developed for the future. RAUTITAN PE-Xa pipes combined with the advanced PVDF/PPSU polymer fittings and Dezincification Resistant Brass threaded fittings are significantly more resistant to scaling, corrosion and/or erosion than traditional systems such as copper.

No scaling!

Due to the corrosion and scaling resistant properties, the RAUTITAN system provides the highest standards of hygiene and hydraulic performance, today and in the future!



EXCELLENCE THAT LASTS

Every installer, designer or developer is considered a REHAU project partner. We are committed to providing excellent support and service to ensure the security, quality and performance of all REHAU systems for our customers during installation and operation. With this in mind, REHAU provides a comprehensive ten-year warranty* to our project partners.

10 year warranty*

* Conditions apply

HIGH QUALITY PLUMBING SYSTEM

SIMPLE. ROBUST. RELIABLE.



RAUTITAN HIS 311 PIPES

RAUTITAN pipes are made from high density cross-linked polyethylene (PE-Xa). The cross linking process causes the individual polyethylene molecules to bond in a three-dimensional network creating a tough and durable pipe with superior:

- long-term stability
- high temperature resistance and
- high pressure resistance
- superior flexibility and strength.

The external black PE-sheath blocks more than 99.9% of light transmission through the pipes to prevent the growth of algae within the plumbing system to maintain the system's hygiene.

The RAUTITAN his 311 system includes a single PN20 pipe system for both hot and cold water, which has been exposed in long-term tests at extreme temperature and pressure conditions to confirm its lifespan of over 50 years even for hot water application.

RAUTITAN his 311 Pipe Dimensions			
Outer pipe dimensions	Wall thickness	Coil Length	Straight Length
16 mm	2.2 mm	100 metres	5 metres
20 mm	2.8 mm	100 metres	5 metres
25 mm	3.5 mm	25/50 metres	5 metres
32 mm	4.4 mm	25/50 metres	5 metres
40 mm	5.5 mm	-	5 metres
50 mm	6.9 mm	-	5 metres
63 mm	8.6 mm	-	5 metres



RAUTITAN PX FITTINGS

Honoured with the Design Plus award by the German Design Council within the scope of the Material Vision 2009 fair. Design Plus means outstanding material quality and excellent design.

Available for sizes from 16mm up to 40mm for non-threaded fittings, the RAUTITAN PX fittings are made from robust polymer material (PPSU). This advanced polymer materials have been engineered to the highest REHAU quality. 100% protection from corrosion impacts, tough and durable for any site condition.



RAUTITAN MX FITTINGS

RAUTITAN MX fittings are made of the highest quality dezincification-resistant brass have, providing long-term resistance and performance.

RAUTITAN MX fittings are available for sizes from 50mm to 63mm and all threaded fittings 16-63mm.



RAUTOOLS

UNIVERSAL & PROFESSIONAL

RAUTOOL KITS

The quality and security of the RAUTITAN compression sleeve joint is only possible with the use of the universal and professional RAUTOOL assembly tool range. Developed specifically for the RAUTITAN system, the RAUTOOL program has been designed for the REHAU installer and is constantly being upgraded and improved by our research and development team.

Only RAUTOOL assembly tools guarantee easy installation and fully leak-proof connections. Its compact construction simplifies handling and also makes it possible to install in the toughest construction sites. Available in a multitude of modular options, the RAUTOOL program can be tailored to the individual needs of each and every installer.

Simple mechanical design and robust materials ensure long-lasting performance, minimal tool maintenance and regular calibration.



RAUTOOL M1



RAUTOOL A-Light



RAUTOOL H2



RAUTOOL HG1

QUALITY AND CERTIFICATIONS

The global RAUTITAN system is independently tested and locally approved by leading laboratories and authorities. Tests are carried out according to relevant standards such as British (BS 7291 Part 1, 3), Australian (AS 2492, AS 2537 and AS 4020) and American (ASTM F 876) standards.

Australia	: Watermark	Hong Kong	: Office of Water Authority	Singapore	: PUB, Water Department
New Zealand	: BRANZ	Malaysia	: SIRIM	United Kingdom	: WRAS
Taiwan	: Taipei Water Authority	Japan	: JWWA		










RAUTITAN WATER SERVICES

TRUSTED BY THE WORLD



Eureka Tower - Melbourne, Australia



Bel-Air No. 8 - Hong Kong, China



Connexion Farrer Park Hospital - Singapore



Concourse Skyline - Singapore

Since the 80's, millions of connections have been created in Austria, Australia, Canada, Czech Republic, Denmark, Great Britain, Hong Kong, Hungary, Germany, Japan, Malaysia, Netherlands, New Zealand, the Philippines, Poland, Portugal, Singapore, Spain, Switzerland, Taiwan, Thailand and the USA by using REHAU compression sleeve jointing technology. The RAUTITAN his 311 system has been proven to meet all the requirements of the plumbing trade.

PROJECT REFERENCES IN ASIA AND AUSTRALIA

- Eureka Tower, Melbourne, Australia
- Bel-Air No. 8, Hong Kong, China
- Central Park Tower I & II, Hong Kong, China
- JW Marriott Hotel, Medan, Indonesia
- Discovery Shore Hotel, Boracay Island, Philippines
- Radisson Hotel Cebu, Cebu, Philippines
- Kim Keat Gardens, Singapore
- Sandalwood, Singapore
- Courts Mega Store, Tampines Singapore
- Marina Integrated Resort, Singapore
- Luxus Hills (ph 1-3), Singapore
- Connexion Farrer Park Hospital, Singapore
- Kasara "The Lake", Sentosa, Singapore
- Woh Hup HQ, Singapore
- Parvis Residence, Singapore
- Hyflux Innovation Centre, Singapore
- National University of Singapore "Khaya & Angsana Residential Colleges", Singapore
- Lincoln Suites, Singapore
- Concourse Skyline, Singapore
- iLIV, Singapore



Parvis Residence - Singapore



Hyflux Innovation Centre - Singapore

REHAU SERVICE

ONE-STOP SUPPLIER OF QUALITY SOLUTIONS

REHAU is committed to excellence and quality in both its products and people. We listen so we can offer precise and customised solutions that suit your market's needs. Every REHAU product is strictly produced according to the most stringent German engineering guidelines, with the company certified to ISO 9001 standards.



NETWORK OF HIGHLY TRAINED PARTNERS AND INSTALLERS

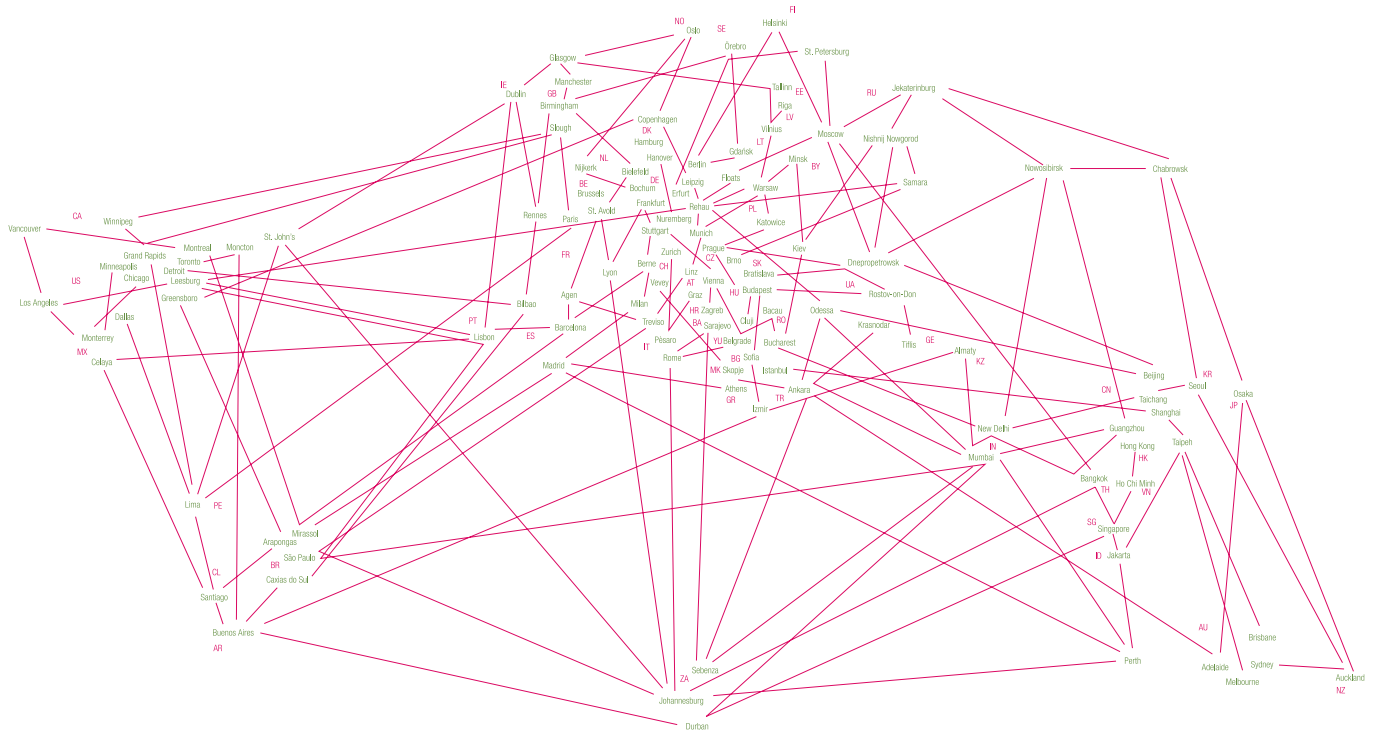
Our regular technical seminars, workshops and trainings as part of our REHAU Training Academy programmes are not only to help our partners to achieve greater professional competence, but also to build a close bond and network among us. Subsequent refresher and new product courses are also provided to 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 customers' expectations. We are happy to help our partners to achieve their goals from project planning to job-site supports via the REHAU Competence Team, which you may contact through your nearest REHAU sales office listed on the back of the brochure.

**Support & service
where it counts**



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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