



**Engineering progress  
Enhancing lives**

## **RAUTITAN PEX plumbing system**

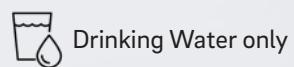
**Secure. Easier. Faster.**

Product Book - Southeast Asia

**REHAU**  
Water Technologies



Flexible Cross-Linked Polyethylene (PEX) system with unique REHAU compression sleeve jointing technology for hot and cold water applications.





# 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.

\* This Product Book must be used in conjunction with the latest RAUTITAN Technical Information Book. All handling, design, installation, testing, and operation of RAUTITAN products must comply with the requirements outlined in the RAUTITAN Technical Information Booklet.

# SECURE

## Simple. Robust. Reliable

Simply the most reliable joint

### RAUTITAN 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 platinum 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 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.

**100%**  
leak-proof  
joint



### PRESSURE TEST UP TO 150 PSI

The RAUTITAN compression sleeve joint is a simple, robust and reliable connection.

# EASIER

## Engineered for your convenience

Sealed  
without  
O-ring



## Advanced light weight material and innovative jointing technology ensure that RAUTITAN is the most convenient and robust plumbing system available.

### MAXIMUM FLEXIBILITY, ULTIMATE DESIGN FREEDOM

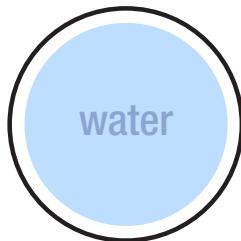
Even in the most confined space, the superior flexibility of the RAUTITAN PE-Xa pipes give you the freedom to bend around corners and around existing services to complete the installation. In addition the simple mechanical joint can be confidently made in very restricted spaces making it the ideal system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



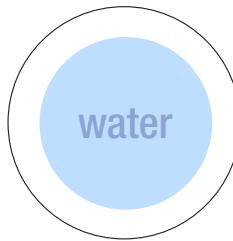
### HIGHER KINK RESISTANCE

No need for bender tools or additional tools.

#### Inner diameter



**PEX**  
**PN20**



**PP-R**  
**PN20**



**Metal**  
**with scaling**

**No scaling**

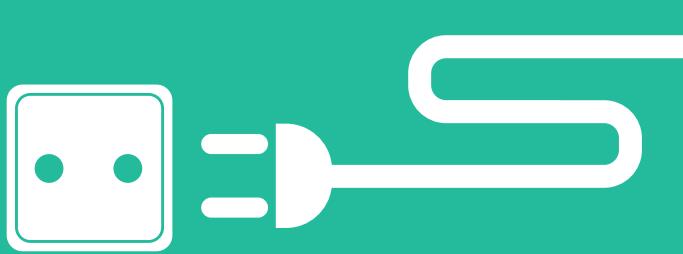
### LONG-TERM PEACE OF MIND

Combined with advanced PVDF/PPSU polymer fittings and Dezincification Resistant Brass threaded fittings RAUTITAN PE-Xa pipes are significantly more resistant to scaling, corrosion and/or erosion than traditional systems such as copper.

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!

### NO POWER, NO HEAT, NO WORRIES

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.



# FASTER

## Save time, save cost



more than  
**30%**  
faster

### 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



### INSTALL A VALVE WITH NO THREADED CONNECTION

RAUTITAN valves are featured with unique REHAU compression sleeve connection joints that can create a permanent seal to our RAUTITAN PEX pipes.

### RAUTITAN PX FITTINGS

For sizes 16mm to 40mm, non-threaded RAUTITAN fittings, PPSU (polyphenyl sulphone) and compression sleeves, PVDF (polyvinylidene fluoride).

### RAUTITAN MX FITTINGS

For sizes 50mm to 63mm high quality Dezincification resistant brass fittings



**RAUTOOL**  
completes  
**RAUTITAN**



## TWO EASY STEPS TO SECURITY

Making a 100% leak-proof joint has never been this easy. **Utilized for over 30 years** and across millions of connections REHAU guarantees a **100% permanent leak-proof joint in just two simple steps!**

### 1 Expand the pipe



### 2 Compress and complete!



# RAUTOOL

## The modular tool for every requirement

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 16 - 40mm



RAUTOOL H2 16 - 40mm

Universal  
and  
professional



# Technical Specification

## SPECIFICATION

<b>Material</b>	-	PE-Xa
<b>Colour (surface)</b>	-	Platinum
<b>Notch impact strength at 20°C</b>	-	No fracture
<b>Notch impact strength at -20°C</b>	-	No fracture
<b>Average coefficient of expansion</b>		0.15
<b>When laying with pipe support channel:</b>		
- Size 16 - 40	mm/(mK)]	0.04
- Size 50 - 63		0.1
<b>Thermal conductivity</b>	W/(mK)]	0.35
<b>Pipe roughness</b>	[mm]	0.007
<b>Operating pressure (maximum at 70°C)</b>	[bar]	10
<b>Short-term maximum temperature (malfunction)</b>	[°C]	95
<b>Material constant C for calculating deflection leg length</b>	-	12
<b>Minimum bending radius without tools d = pipe diameter</b>	-	8 x d
<b>Minimum bending radius with pipe bend brackets d = pipe diameter</b>	-	3 – 5 x d
<b>Available sizes</b>	[mm]	16 – 63

# Standards and Certification

## BS 6920

Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of water

## BS 7291

Thermoplastics pipes and associated fittings for hot and cold water for domestic purposes and heating installations in buildings

## BS EN 1982

Copper and copper alloys. Ingots and castings

## BS EN 12163

Copper and copper alloys. Rod for general purposes

## BS EN 12165

Copper and copper alloys - Wrought and unwrought forging stock

## BS EN 12420

Copper and copper alloys. Forgings

## DIN 1988

Codes of practice for drinking water installations (TRWI)

## DIN 4102

Fire behaviour of building materials and components

## DIN EN 13501

Fire classification of construction products and building elements

## DIN EN 12164

Copper and copper alloys - Rod for free machining purposes

## DIN EN 12168

Copper and copper alloys - Hollow rod for free machining purposes

## DVGW W 534

Pipe connectors and connections in the drinking water installation

## ISO 14001

Environment Management System (EMS) standard

## ISO 7

Pipe threads where pressure-tight joints are not made on the threads

## ISO 9001

Quality Management Systems

## ISO 15875

Plastic piping systems for hot and cold water installations - crosslinked polyethylene (PE-X)

## SS 375

Suitability of nonmetallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water

## ISO 50001

Energy Management Systems

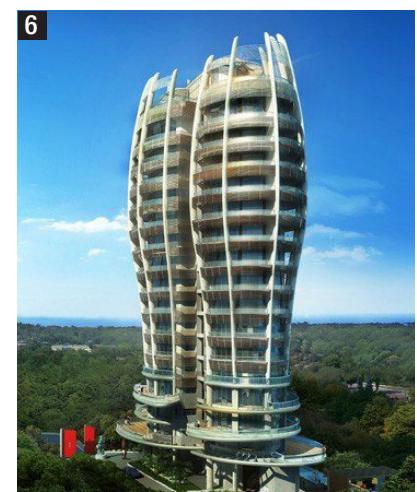
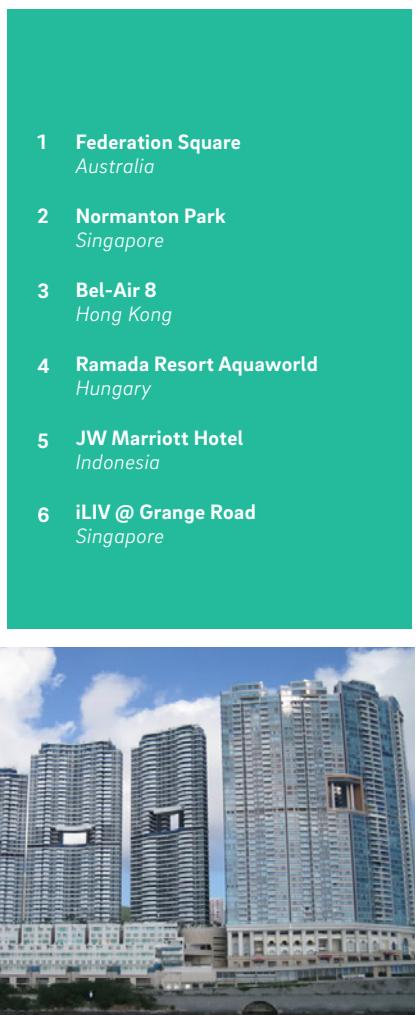
## QUALITY AND CERTIFICATION

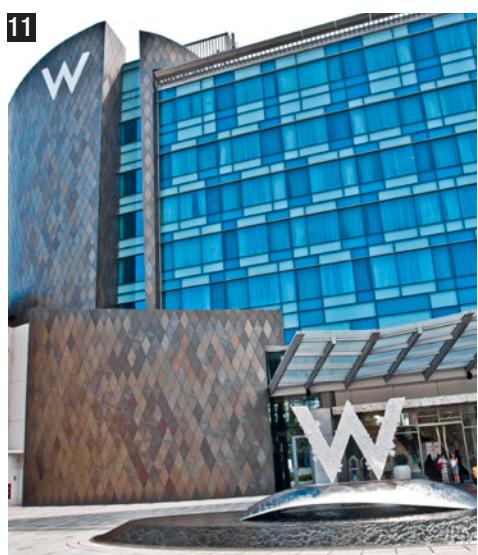
RAUTITAN meets international quality and regulatory standards, and is accredited by both international and national regulation bodies:

 Gesellschaft für Konformitätsbewertung mbH			 AUSTRALIA & NEW ZEALAND		SWITZERLAND
 Water Supplies Department					TAIWAN
					AUSTRIA
HONG KONG	MALAYSIA	NETHERLANDS	UNITED KINGDOM		

# RAUTITAN water services

## Project references





**7 The Red Apple Apartment**  
Netherlands

**8 Discovery Primea**  
Philippines

**9 Moscow School of Management**  
Russia

**10 Wellness Aquamarine**  
Slovakia

**11 W Hotel**  
Singapore

**12 Radisson Blue Hotel**  
South Africa

# RAUTITAN Product Range

## RAUTITAN pipes

Description	Art. - No.	DN in mm
<b>Platinum Pipe</b> (Available in coil or straight length)	11323001005	16 x 2.2 x 5M Lg
	11323001100	16 x 2.2 x 100M coil
	11323101005	20 x 2.8 x 5M Lg
	11323101100	20 x 2.8 x 100M coil
	11323201005	25 x 3.5 x 5M Lg
	11323201050	25 x 3.5 x 50M coil
	11323301005	32 x 4.4 x 5M Lg
	11323301050	32 x 4.4 x 50M coil
	11323401005	40 x 5.5 x 5M Lg
	11323501005	50 x 6.9 x 5M Lg
	11323601005	63 x 8.6 x 5M Lg

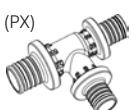


## RAUTITAN components

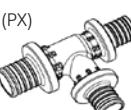
Description	Art. - No.	DN in mm
<b>T-piece, Uniform</b> (MX, PX, LF)	11600311001	16
	11600321001	20
	11600331001	25
	11600341001	32
	11600351001	40
	11371551401	50
	13715091001	50
	11371651401	63
	13715101001	63



Description	Art. - No.	DN in mm
<b>T-piece, Reduced Centre and End</b> (PX)	11600811001	20 - 16 - 16
	11600821001	25 - 16 - 16
	11600851001	25 - 20 - 20
	11600861001	32 - 20 - 20
	11600911001	32 - 25 - 25
	11600921001	40 - 32 - 32



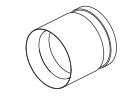
Description	Art. - No.	DN in mm
<b>T-piece, Unequal Centre and End</b> (PX)	11601031001	20 - 25 - 16
	11600831001	25 - 16 - 20
	11600841001	25 - 20 - 16
	11600871001	32 - 20 - 25
	11600891001	32 - 25 - 20



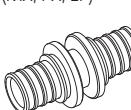
Description	Art. - No.	DN in mm
<b>T-piece, Unequal Centre</b> (PX)	11601011001	16 - 20 - 16
	11601021001	16 - 25 - 16
	11601041001	20 - 25 - 20
	11601061001	25 - 32 - 25



Description	Art. - No.	DN in mm
<b>Compression Sleeve</b> Required for every compression joint (MX, PX)	11600011001	16
	11600021001	20
	11600031001	25
	11600041001	32
	11600051001	40
	11397711002	50
	11397811002	63



Description	Art. - No.	DN in mm
<b>Straight Coupling</b> (MX, PX, LF)	11600111001	16
	11600121001	20
	11600131001	25
	11600141001	32
	11600151001	40

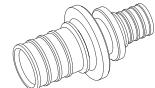


Description	Art. - No.	DN in mm
<b>T-piece, Wall Mounted</b> (MX, LF)	11388411402	16 - Rp 1/2 - 16
	11099631001	16 - Rp 1/2 - 16
	11388511402	20 - Rp 1/2 - 20
	11099621001	20 - Rp 1/2 - 20



## RAUTITAN components

Description	Art. - No.	DN in mm
<b>Reducing Coupling</b> (MX, PX, LF)	11600411001	20 - 16
	11600421001	25 - 16
	11600431001	25 - 20
	11600441001	32 - 25
	11380181001	40 - 25
	11600471001	40 - 32
	11378631001	50 - 32
	11378431401	50 - 40
	13715141001	50 - 40
	11380191401	63 - 40
	11378531401	63 - 50
	13715151001	63 - 50



## Elbow 90°

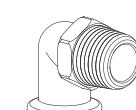
Description	Art. - No.	DN in mm
<b>Elbow 90°</b> (MX, PX, LF)	11600211001	16
	11600221001	20
	11600231001	25
	11600241001	32
	11600251001	40
	11398821401	50
	13715311001	50
	11378731401	63
	13715081001	63

## Elbow 45°

Description	Art. - No.	DN in mm
<b>Elbow 45°</b> (MX, PX, LF)	11600521001	20
	11600531001	25
	11600541001	32
	11600551001	40
	11370941401	50
	13715061001	50
	11371041401	63
	13715071001	63

## Elbow Adaptor - male thread

Description	Art. - No.	DN in mm
<b>Elbow Adaptor - male thread</b> (MX, LF)	12186611001	16 - R 1/2
	13714731001	16 - R 1/2
	12186621001	20 - R 1/2
	13714741001	20 - R 1/2
	12186631001	20 - R 3/4
	13714751001	20 - R 3/4
	12174251001	20 - R 3/4
	13714771001	25 - R 3/4
	12174611001	25 - R 1
	13714761001	25 - R 1
	12174261001	32 - R 1
	13714781001	32 - R 1
	12174281401	40 - 1-1/4



## RAUTITAN components

Description	Art. - No.	DN in mm
<b>Elbow Adaptor - female thread</b> (MX, LF)	12186641001	16 - Rp 1/2 MX
	13714791001	16 - Rp 1/2 LF
	11371241001	16 - Rp 3/4 MX
	11373051001	20 - Rp 1/2 MX
	11099611001	20 - Rp 1/2 LF
	12186651401	20 - Rp 3/4 MX
	13714801001	20 - Rp 3/4 LF
 <b>Short Wall-mounted Elbow - female thread</b> (MX, LF)	12174291401*	16 - Rp 1/2 MX
	13715001001	16 - Rp 1/2 LF
	11065111001	20 - Rp 1/2 MX
	13715021001	20 - Rp 1/2 LF
	12174311001*	20 - Rp 3/4 MX
	13715011001	20 - Rp 3/4 LF
	11385911405	25 - Rp 3/4 MX
 <b>Long Wall-mounted Elbow - female thread</b> (MX, LF)	11384411405	16 - Rp 1/2 MX
	11099701001	16 - Rp 1/2 LF
	11384511405	20 - Rp 1/2 MX
	11099711001	20 - Rp 1/2 LF
 <b>Straight Connector, female thread</b> (MX, LF)	12169951001	16 - Rp 1/2 MX
	13714671001	16 - Rp 1/2 LF
	12186141001	20 - Rp 1/2 MX
	13714681001	20 - Rp 1/2 LF
	12186131001	20 - Rp 3/4 MX
	13714691001	20 - Rp 3/4 LF
	11392811002	25 - Rp 1/2 MX
	11099681001	25 - Rp 1/2 LF
	12169971001	25 - Rp 3/4 MX
	13714701001	25 - Rp 3/4 LF
	11391011002	32 - Rp 3/4 MX
	12169991001	32 - Rp 1 MX
	13714721001	32 - Rp 1 LF

## RAUTITAN components

Description	Art. - No.	DN in mm
 <b>Straight Tap Connector with gasket</b> (MX, LF)	11395511002	16 - G 1/2 MX
	13715191001	16 - G 1/2 LF
	11395611002	20 - G 1/2 MX
	11099641001	20 - G 1/2 LF
	11395711002	20 - G 3/4 MX
	13715201001	20 - G 3/4 LF
	11399121001	25 - G 3/4 MX
	13715211001	25 - G 3/4 LF
	11399221001	25 - G 1 MX
	13715221001	25 - G 1 LF
	11399321001	32 - G 1 MX
 <b>Straight Connector, male thread</b> (MX, LF)	12169891001	16 - R 1/2 MX
	13714571001	16 - R 1/2 LF
	12186091001	16 - R 3/4 MX
	13714581001	16 - R 3/4 LF
	12169901001	20 - R 1/2 MX
	13714591001	20 - R 1/2 LF
	12169911001	20 - R 3/4 MX
	13714601001	20 - R 3/4 LF
	12186111001	20 - R 1 MX
	13714611001	20 - R 1 LF
	11391811002	25 - R 1/2 MX
	11099651001	25 - R 1/2 LF
	12169921001	25 - R 3/4 MX
	13714621001	25 - R 3/4 LF
	12186121001	25 - R 1 MX
	13714631001	25 - R 1 LF
	12186131001	32 - R 3/4 MX
	13714641001	32 - R 3/4 LF
	12169931001	32 - R 1 MX
	13714651001	32 - R 1 LF
	12169941001	40 - R 1-1/4 MX
	13714661001	40 - R 1-1/4 LF
	11397111402	50 - R 1-1/2 MX
	13715271001	50 - R 1-1/2 LF
	11397211402	63 - R 2 MX
	13715281001	63 - R 2 LF

## RAUTITAN components

Description	Art. - No.	DN in mm
 <b>Clip-on Support Channel</b> 3m/length	11380331001	16
	11380431001	20
	11380531001	25
	11380631001	32
	11380731001	40
	11380831001	50
	11380931001	63
 <b>Profile Bent Bracket 90° x 3D - with spring</b>	11388811002	16
	11388911002	20
	11383511002	25
	11386411002	32
	12611531001	32 (5D)
 <b>Profile Bent Bracket 45° x 3D - with spring</b>	11391211002	16
	11391311002	20
	11389111002	25
	11389211002	32
 <b>Profile Bent Bracket 90° x 5D - no spring</b>	12584081002	16
	12587981002	20
	12572491002	25
 <b>Profile Bent Bracket 45° x 5D - no spring</b>	12657291001	16
	12686241001	20
	12686341001	25
 <b>Stopper</b> (MX, LF)	12174331001	16 MX
	13714811001	16 LF
	12174341401	20 MX
	13714821001	20 LF
 <b>RAUTITAN Gate Valve</b> (MX, LF)	12088961001	16 MX
	11099731001	16 LF
	12155831001	20 MX
	11099671001	20 LF
	12155851001	25 MX
	11099691001	25 LF
	12155861001	32 MX
	11099721001	32 LF
	12155871001	40 MX

PX: Material: PPSU, Color: Black

MX: Material: DZR Brass, Color: Natural Brass

This document is protected by copyright. All rights based on this are reserved.  
No part of this publication may be translated, reproduced or transmitted in  
any form or by any similar means, electronic or mechanical, photocopying,  
recording or otherwise, or stored in a data retrieval system.

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. Utilisation and processing of our products are  
beyond our control and are therefore exclusively your responsibility. In the  
event that 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.

#### REHAU Branches in Asia Pacific :

SINGAPORE - Regional Office for Asia Pacific

1 King George's Avenue, REHAU Building, Singapore 208557 Tel: +65 6392-6006 Fax: +65 6392-6116

AUSTRALIA National Customer Service Centre Tel: 1300 768 033 GREATER CHINA Beijing Tel: +86 10 6428-2956 Chengdu Tel:  
+86 28 8628-3218 Guangzhou Tel: +86 20 8776-0343 / 3646 Hong Kong Tel: +852 2898-7080 Qingdao Tel: +86 532 8667-8190  
Shenyang Tel: +86 24 2287-5807 Shanghai Tel: +86 21 6355-1155 Taicang Tel: +86 512 5337-2888 Taipei Tel: +886 2 8780-3899 Xi'an  
Tel: +86 29 6859-7000 INDIA Bangalore Tel: +91 80 2222-0014 Mumbai Tel: +91 22 6148-5858 New Delhi Tel: +91 11 4848-5600  
Pune Tel: +91 21 3567-4301 / 4340 INDONESIA Jakarta Tel: +62 21 4587 1030 JAPAN Tokyo Tel: +81-3-3292-8337 NEW ZEALAND  
Auckland Tel: +64 9 2722-264 PHILIPPINES Manila Tel: +63 2 654-5120 THAILAND Bangkok Tel: +66 2763-5100 VIETNAM Ho Chi  
Minh City Tel: +84 8 3823-3030  
[www.rehau.com](http://www.rehau.com)

© REHAU  
Errors and changes are to be  
expected

SEA001 BT 01.2026