



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 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.



SECURE

Simple. Robust. Reliable

Simply the most reliable joint

RAUTITAN Pipes

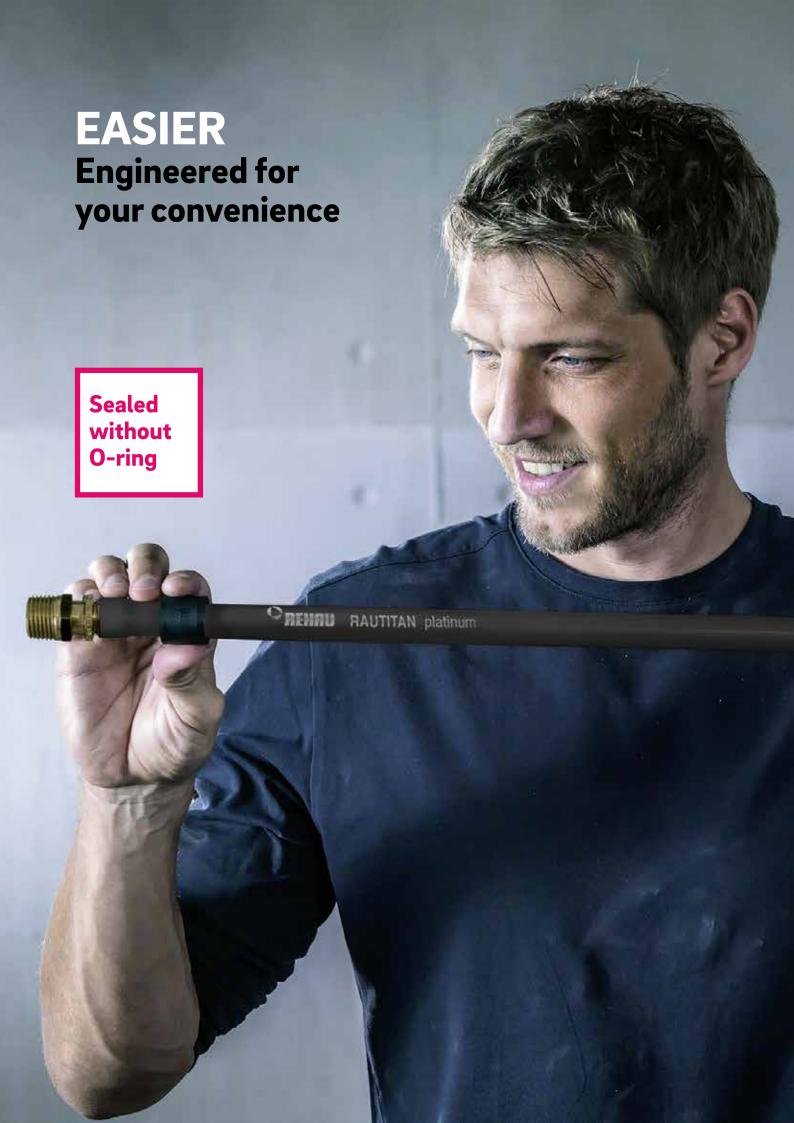
RAUTITAN pipes are made from high density cross-linked polyethylene (PE-Xa). The cross linking process causes the individual polyethylene molecules to bond in a three-dimensional network creating a tough and durable pipe with superior:

- 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.





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 water water water No scaling No scaling PEX PN20 PP-R PN20 Metal with scaling

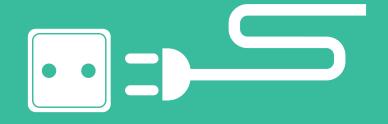
LONG-TERM PEACE OF MIND

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



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

100% SEAMLESS CONNECTION

Unique PEX/PPR adaptors to avoid using threaded connection between the two systems.





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





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!**





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 H2 16 - 40mm

Universal and professioal



Technical Specification

SPECIFICATION

Material	-	PE-Xa
Colour (surface)	-	Platinum
Notch impact strength at 20°C	-	No fracture
Notch impact strength at -20°C	-	No fracture
Average coefficient of expansion When laying with pipe support channel:		0.15
- Size 16 - 40 - Size 50 - 63	mm/(mK)]	0.04 0.1
Thermal conductivity	W/(mK)]	0.35
Pipe roughness	[mm]	0.007
Operating pressure (maximum at 70°C)	[bar]	10
Operating temperature - Maximum - Minimum	[°C]	90 -
Short-term maximum temperature (malfunction)	[°C]	100
Material constant C	-	12
Minimum bending radius without tools d = pipe diameter	-	8 x d
Minimum bending radius with pipe bend brackets d = pipe diameter	-	3 – 4 x d
Available sizes	[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 291

Cleaning and disinfection of water distribution systems

DVGWW 534

Pipe connectors and connections in the drinking water installation

DVGW W 551

Drinking water heating and drinking water pipe systems

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:



























RAUTITAN WATER SERVICES

Project References



- 1 Federation Square
- 2 Primoretz Grand Hotel and Spa
- 3 Bel-Air 8 Hong Kong
- 4 Ramada Resort Aquaworld Hungary
- 5 JW Marriott Hotel
- 6 Traders Hotel Malaysia























- 7 The Red Apple Apartment Netherland
- 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

Platinum Pipe (Available in coil or straight length) 132300-005 16 x 2.2 x 5M Lg 132300-100 16 x 2.2 x 100M coil 132310-005 20 x 2.8 x 5M Lg 132320-005 25 x 3.5 x 5M Lg 132320-050 25 x 3.5 x 5M Lg 132330-050 32 x 4.4 x 5M Lg 132330-050 32 x 4.4 x 5M Lg 132340-005 40 x 5.5 x 5M Lg 132350-005 50 x 6.9 x 5M Lg 132360-005 63 x 8.6 x 5M Lg

RAUTITAN components

Description Art. - No. DN in mm



T-piece, Reduced Centre and End	160081-001	20 - 16 - 16	PX
Gentie and End	160082-001	25 - 16 - 16	PX
(PX)	160085-001	25 - 20 - 20	PX
	160086-001	32 - 20 - 20	PX
70	160091-001	32 - 25 - 25	PX
	160092-001	40 - 32 - 32	PX

137165-001 63

MX

T-piece, Unequal	160103-001	20 - 25 - 16	PX
Centre and End	160083-001	25 - 16 - 20	PX
(MX)	160084-001	25 - 20 - 16	PX
(PX)	160087-001	32 - 20 - 25	PX
The state of the s	160089-001	32 - 25 - 20	PX

T-piece, Unequal Centre	160101-001	16 - 20 - 16	PX
(PX)	160102-001	16 - 25 - 16	PX
CONTRACT OF THE PARTY OF THE PA	160104-001	20 - 25 - 20	PX
	160106-001	25 - 32 - 25	PX

	160106-001	25 - 32 - 25	PX
Compression Sleeve	160001-001	16	PX
Required for	160002-001	20	PX
every compression joint	160003-001	25	PX
(MX)	160004-001	32	PX
	160005-001	40	PX
(PX)	139771-002	50	MX
	139781-002	63	MX

RAUTITAN components

Description Art. - No. DN in mm

Straight Coupling	160011-001 16	PX
(MX)	160012-001 20	PX
	160013-001 25	PX
	160014-001 32	PX
(PX)	160015-001 40	PX
	139741-002 50	MX
	139751-002 63	MX

Reducing Coupling	160041-001	20 - 16	РХ
(MX)	160042-001	25 - 16	PX
	160043-001	25 - 20	РХ
(PX)	160044-001	32 - 25	РХ
	138018-001	40 - 25	MX
	160047-001	40 - 32	РХ
	137863-001	50 - 32	MX
	137843-001	50 - 40	MX
	138019-001	63 - 40	MX
	137853-001	63 - 50	MX

Elbow 90°	160021-001	16	PX	
(MX)	160022-001	20	PX	
	160023-001	25	PX	
(PX)	160024-001	32	PX	
	160025-001	40	PX	
Man all	139882-001	50	MX	
	137873-001	63	MX	

Elbow 45°	160052-001	20	PX
(MX)	160053-001	25	PX
	160054-001	32	PX
	160055-001	40	PX
	137094-001	50	MX
	137104-001	63	MX

RAUTITAN components

Description

Art. - No.

DN in mm

Description	AIL. NO.	DIVIIIIIIII	
T-piece, Reduced Centre	160061-001	20 - 16 - 20	PX
	160062-001	25 - 16 - 25	PX
(MX)	160063-001	25 - 20 - 25	PX
	160064-001	32 - 16 - 32	PX
	160065-001	32 - 20 - 32	PX
(PX)	160066-001	32 - 25 - 32	PX
	160067-001	40 - 20 - 40	PX
100	160068-001	40 - 25 - 40	PX
	160069-001	40 - 32 - 40	PX
	230348-001	50 - 20 - 50	MX
	230358-001	50 - 25 - 50	MX
	139792-001	50 - 32 - 50	MX
	137089-001	50 - 40 - 50	MX
	230328-001	63 - 20 - 63	MX
	230338-001	63 - 25 - 63	MX
	137175-001	63 - 32 - 63	MX
	137074-001	63 - 40 - 63	MX
	137084-001	63 - 50 - 63	MX

T-piece, Reduced End	160071-001	20 - 20 - 16	PX
neduced Elia	160072-001	25 - 25 - 16	PX
(PX)	160073-001	25 - 25 - 20	PX
The seal of the se	160074-001	32 - 32 - 20	PX
Albert Co	160075-001	32 - 32 - 25	PX

RAUTITAN components

Description Art. - No. DN in mm

Elbow Adaptor- male thread	218661-001	16 - R 1/2	MX
	218662-001	20 - R 1/2	MX
	218663-001	20 - R 3/4	MX
	217425-001	25 - R 3/4	MX
	217461-001	25 - R 1	MX
	217426-001	32 - R 1	MX
	217428-001	40 - 1-1/4	MX

Elbow Adaptor- female thread	218664-001	16 - Rp 1/2	MX
	137124-001	16 - Rp 3/4	MX
	137305-001	20 - Rp 1/2	MX
	218665-001	20 - Rp 3/4	MX

Short Wall- mounted Elbow	217429-001* 16 - Rp 1/2	MX
- female thread	106511-001 20 - Rp 1/2	MX
	217431-001* 20 - Rp 3/4	MX
	138591-405 25 - Rp 3/4	MX

Long Wall- mounted Elbow	138441-405	16 - Rp 1/2	MX
- female thread	138451-405	20 - Rp 1/2	MX

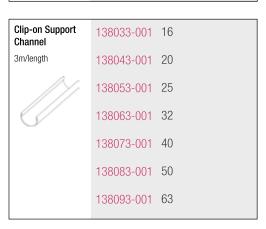
Straight Connector,	216995-001	16 - Rp 1/2	MX
female thread	218614-001	20 - Rp 1/2	MX
	216996-001	20 - Rp 3/4	MX
	139281-002	25 - Rp 1/2	MX
	216997-001	25 - Rp 3/4	MX
	139101-002	32 - Rp 3/4	MX
	216999-001	32 - Rp 1	MX

RAUTITAN components

Description Art. - No. DN in mm

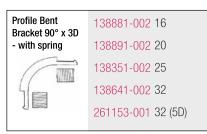
Straight	216989-001	16 - R 1/2	MX
Connector,	210909-001	10-11 1/2	IVIX
male thread	218609-001	16 - R 3/4	MX
	216990-001	20 - R 1/2	MX
	216991-001	20 - R 3/4	MX
	218611-001	20 - R 1	MX
	139181-002	25 - R 1/2	MX
	216992-001	25 - R 3/4	MX
	218612-001	25 - R 1	MX
	218613-001	32 - R 3/4	MX
	216993-001	32 - R 1	MX
	216994-001	40 - R 1-1/4	MX
	139711-002	50 - R 1-1/2	MX
	139721-002	63 - R 2	MX

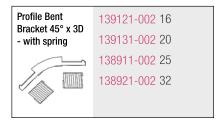
Straight Tap Connector with	139551-002	16 - G 1/2	MX
gasket	139561-002	20 - G 1/2	MX
	139571-002	20 - G 3/4	MX
	139912-001	25 - G 3/4	MX
	139922-001	25 - G 1	MX
	139932-001	32 - G 1	MX

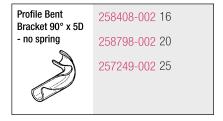


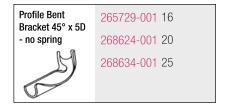
RAUTITAN components

Description Art. - No. DN in mm









Stopper	217433-001 16	MX
	217434-001 20	MX

15583-001 20
15585-001 25
.10000 001 20
15586-001 32
15587-001 40

PX: Material: PPSU, Color: Black MX: Material: DZR Brass, Color: Natural Brass

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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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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: +91213567-4301/4340 INDONESIA Jakarta Tel: +622145871030 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 Hanoi Tel: +84-24 7303 0336 MALAYSIA Tel: +603 7732 6406 / +603 7732 2406 www.rehau.com

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