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## LEAD-FREE RAUTITAN

PRODUCT CATALOGUE NEW ZEALAND





## **LEAD-FREE RAUTITAN**

### **Plumbing system for safer drinking water**

Water is the most precious element to human life; an essential nutrient for our health and well-being. Everybody has the right to clean water and this is what drives REHAU's commitment to create innovative and sustainable plumbing systems that deliver safe, clean drinking water to the community.

In New Zealand, the availability of clean, fresh drinking water is generally taken for granted. Although, for a number of years now, there has been a growing concern regarding the purity of our drinking water due to reports of compromised water quality in some buildings. Recent cases of elevated lead in drinking water in Christchurch and Auckland has resulted in more serious discussions regarding the importance of tighter regulations on plumbing materials and design.

It is widely known that many components that make up the water supply networks in our homes and businesses are made from DZR brass. Yet, it is not widely understood that these brass components contain varying concentrations of lead. Lead gives brass some valuable properties for the production process including machinability and malleability making it more cost effective to produce. Nevertheless, if consumed it is extremely harmful to human health. In Germany and the USA more stringent lead content regulations have been in place to reduce the risk of lead contamination in drinking water, driving manufacturers to develop low lead or lead-free solutions.

Through REHAU's commitment to help people consume the cleanest and purest water possible REHAU ANZ has introduced the first lead-free PE-X plumbing range to New Zealand. REHAU's Lead-Free RAUTITAN consists of our renowned premium quality, high flexibility PE-Xa PN20 pipe (zero lead) combined with PPSU PX (zero lead) polymer fittings, Dezincification-resistant Gunmetal (RX+) fittings which contain <0.1% lead and PX polymer sleeves (zero lead) to create the cleanest and safest plumbing system on the planet.

*The term Lead-free is defined in Section 1417 of the Safe Drinking Water Act as a material with a weighted average of 0.25% lead or less calculated across the wetted surfaces of a pipe, pipe fitting, plumbing fitting and fixture. This is a US Standard and is used in the absence of a NZ Standard covering the topic for the time being.*

### PE-Xa RAUTITAN Pipe

With 50 years of experience in PE-Xa pipe production REHAU has perfected the process of creating the highest quality pipe with the ideal properties for plumbing applications. PE-Xa pipe naturally contains zero lead and has been specifically treated to ensure optimal flexibility, toughness and cleanliness to deliver pure, taste and odour-free water to the end user. Available in sizes from 16mm to 63mm for various applications including domestic hot and cold water, rainwater, recycled water and hydronic heating, REHAU's PE-Xa piping system is the ultimate choice for hygiene and sustainability.

### PPSU PX Polymer Fittings

PX fittings are made from PPSU material, which contains zero lead and is supremely hygienic. Available in non-threaded fittings in sizes 16-40mm, PX fittings are 5 times lighter than brass meaning you can carry more and get the job done faster. They are corrosion proof and contain zero lead so they do not deteriorate over time, suffer oxide build-up or leach lead into the water making them safer for the community.

### Gunmetal RX+ Fittings

RX+ fittings are made of a high quality lead-free bronze, also known as Red Brass or dezincification-resistant Gunmetal. They have a maximum lead content of 0.1%, exceeding the most stringent international standard for lead-free drinking water systems.

### PX Polymer Sleeves

While compression sleeves are never in contact with water and therefore not covered by international lead-free regulation PVDF PX sleeves contain zero lead. They are available in sizes 16 to 40mm for use with REHAU water, gas and heating piping systems. They are lightweight, faster to install and completely secure making them the ideal material for compression sleeve jointed applications.

### U-bend Fittings

Stagnant water in pipes (dead-legs) is known to facilitate the reproduction of bacteria and Legionella growth, which can cause health problems, commonly known as Legionnaires' disease. While guidelines exist in the New Zealand Plumbing Code to help minimise the risks, it can often be quite difficult to design a system that eliminates dead legs. REHAU's dezincification-resistant Gunmetal U-bend fittings are a unique concept purposely made to tackle this problem; minimizing dead-legs and allowing water to flow through plumbing fixtures even if they are not being used frequently. The U-bends reduce the risk of legionella growth facilitating the delivery of safer and cleaner water for the community.

**With Lead-Free PE-X piping system now available in New Zealand  
the question arises, status quo or Lead-Free RAUTITAN?  
The choice is yours.**



# PIPES

Lead-Free RAUTITAN is suitable for Platinum and Red RAUTITAN pipe in sizes 16-40mm

## RAUTITAN platinum for drinking water

REHAU Article	Size	m/Coil	m/Length	Package (m) Coil	Package (m) Length
132300-005	16 x 2.2		5		100
132310-005	20 x 2.8		5		100
132320-005	25 x 3.5		5		25
132330-005	32 x 4.4		5		25
132340-005	40 x 5.5		5		10
132300-100	16 x 2.2	100		100	
132310-100	20 x 2.8	100		100	
132320-050	25 x 3.5	50		50	
132330-050	32 x 4.4	50		50	



## RAUTITAN red for hot drinking water

REHAU Article	Size	m/Coil	m/Length	Package (m) Coil	Package (m) Length
132520-005	16 x 2.2		5		100
132530-005	20 x 2.8		5		100
132540-005	25 x 3.5		5		25
132520-100	16 x 2.2	100		100	
132530-100	20 x 2.8	100		100	
132540-050	25 x 3.5	50		50	



# SLEEVES

## PVDF PX Sleeves

PX sleeves are made of solvent resistant PVDF material

### RAUTITAN PX compression sleeve - polymer

REHAU Article	Size (mm)	Material	Package (pcs)
160001	16	PVDF	100
160002	20	PVDF	100
160003	25	PVDF	100
160004	32	PVDF	50
160005	40	PVDF	25



# FITTINGS

## NON-THREADED FITTINGS

Non-threaded fittings are compression sleeve fittings that join PE-Xa pipes. Lead-Free RAUTITAN non-threaded fittings are made from PPSU (PX) and Gunmetal (RX+) material.

### RAUTITAN PX no.1 straight coupling

REHAU Article	Size (mm)	Material	Package (pcs) Bag/Box
160011	16 - 16	PPSU	10/50
160012	20 - 20	PPSU	10/50
160013	25 - 25	PPSU	10/50
160014	32 - 32	PPSU	10/30
160015	40 - 40	PPSU	4



### RAUTITAN PX no.1 R reducing coupling

REHAU Article	Size (mm)	Material	Package (pcs) Bag/Box
160041	20 - 16	PPSU	10/50
160042	25 - 16	PPSU	10/50
160043	25 - 20	PPSU	10/50
160044	32 - 25	PPSU	10/30
160047	40 - 32	PPSU	4



### RAUTITAN PX no.12 elbow 90°

REHAU Article	Size (mm)	Material	Package (pcs) Bag/Box
160021	16	PPSU	10/50
160022	20	PPSU	10/50
160023	25	PPSU	10/50
160024	32	PPSU	10/30
160025	40	PPSU	2



**RAUTITAN PX elbow 45°**

REHAU Article	Size (mm)	Material	Package (pcs) Bag/Box
160055	40	PPSU	2

**RAUTITAN PX no.24 T-piece**

REHAU Article	Size (mm)	Material	Package (pcs) Bag/Box
160031	16 - 16 - 16	PPSU	10
160032	20 - 20 - 20	PPSU	10
160033	25 - 25 - 25	PPSU	10
160034	32 - 32 - 32	PPSU	3
160035	40 - 40 - 40	PPSU	1

**RAUTITAN PX no.25 T-piece - reduced centre**

REHAU Article	Size (mm)	Material	Package (pcs) Bag/Box
160061	20 - 16 - 20	PPSU	10
160062	25 - 16 - 25	PPSU	10
160063	25 - 20 - 25	PPSU	10
160064	32 - 16 - 32	PPSU	3
160065	32 - 20 - 32	PPSU	3
160066	32 - 25 - 32	PPSU	3
160067	40 - 20 - 40	PPSU	1
160068	40 - 25 - 40	PPSU	1
160069	40 - 32 - 40	PPSU	1

**RAUTITAN PX no.26 T-piece - reduced end**

REHAU Article	Size (mm)	Material	Package (pcs) Bag/Box
160071	20 - 20 - 16	PPSU	10/50
160072	25 - 25 - 16	PPSU	10/50
160073	25 - 25 - 20	PPSU	10/50
160074	32 - 32 - 20	PPSU	3/15
160075	32 - 32 - 25	PPSU	3/15

**RAUTITAN PX no.27 T-piece - reduced centre & end**

REHAU Article	Size (mm)	Material	Package (pcs) Bag/Box
160081	20 - 16 - 16	PPSU	10/50
160082	25 - 16 - 16	PPSU	10/50
160085	25 - 20 - 20	PPSU	10/50
160086	32 - 20 - 20	PPSU	3/15
160091	32 - 25 - 25	PPSU	3/15
160092	40 - 32 - 32	PPSU	10



**RAUTITAN PX no.27 T-piece - unequal reduced centre & end**

REHAU Article	Size (mm)	Material	Package (pcs) Bag/Box
160083	20 - 16 - 20	PPSU	10/50
160084	25 - 20 - 16	PPSU	10/50
160087	32 - 20 - 25	PPSU	3/15
160089	32 - 25 - 20	PPSU	3/15

**RAUTITAN PX no.28 T-piece - reduced ends**

REHAU Article	Size (mm)	Material	Package (pcs) Bag/Box
160101	16 - 20 - 16	PPSU	10/50
160102	16 - 25 - 16	PPSU	10/50
160103	20 - 25 - 16	PPSU	10/50
160104	20 - 25 - 20	PPSU	10/50
160106	25 - 32 - 25	PPSU	3/15



## THREADED FITTINGS

Threaded fittings are metallic fittings with a thread on them that allows connection with third party components or appliances. Lead-Free RAUTITAN threaded fittings are made from Gunmetal (RX+) material.

"R" = tapered male thread

"Rp" = female thread

"G" = parallel thread

### LEAD-FREE no.2 straight connector - female

REHAU Article	Size (mm)	Material	Package (pcs) Bag/Box
456327	16 - Rp 1/2"	Gunmetal	10/50
456328	20 - Rp 1/2"	Gunmetal	10/50
456329	20 - Rp 3/4"	Gunmetal	10/50
456331	25 - Rp 3/4"	Gunmetal	10/50
456408	25 - Rp 1"	Gunmetal	5/50
456332	32 - Rp 3/4"	Gunmetal	10/30
456333	32 - Rp 1"	Gunmetal	10/30
456334	40 - Rp 1 1/4"	Gunmetal	5/25



### LEAD-FREE no.3 straight connector - male

REHAU Article	Size (mm)	Material	Package (pcs) Bag/Box
456311	16 - R 1/2"	Gunmetal	10/50
456312	16 - R 3/4"	Gunmetal	10/50
456314	20 - R 1/2"	Gunmetal	10/50
456315	20 - R 3/4"	Gunmetal	10/50
456316	20 - R 1"	Gunmetal	5/25
456318	25 - R 3/4"	Gunmetal	10/50
456319	25 - R 1"	Gunmetal	10/50
456320	32 - R 3/4"	Gunmetal	10/30
456321	32 - R 1"	Gunmetal	10/30
456322	32 - R 1 1/4"	Gunmetal	5/25
456323	40 - R 1 1/4"	Gunmetal	5/25



### LEAD-FREE no.13 elbow - male thread

REHAU Article	Size (mm)	Material	Package (pcs) Bag/Box
456347	16 - R 1/2"	Gunmetal	10/50
456348	20 - R 1/2"	Gunmetal	10/50
456349	20 - R 3/4"	Gunmetal	10/50
456350	25 - R 3/4"	Gunmetal	10/50
456351	32 - R 3/4"	Gunmetal	3/30
456352	32 - R 1"	Gunmetal	3/30



### LEAD-FREE no.14 elbow - female thread

REHAU Article	Size (mm)	Material	Package (pcs) Bag/Box
456353	16 - Rp 1/2"	Gunmetal	10/50
456355	20 - Rp 1/2"	Gunmetal	10/50
456356	20 - Rp 3/4"	Gunmetal	10/50
456357	25 - Rp 1"	Gunmetal	10/50





**LEAD-FREE no.15 bp elbow - female thread - with 2 lugs**

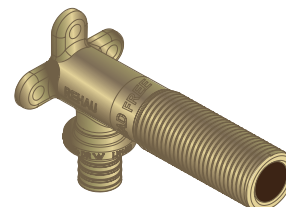
REHAU Article	Size (mm)	Material	Package (pcs) Bag/Box
456358	16 - Rp 1/2"	Gunmetal	10/50
456359	20 - Rp 1/2"	Gunmetal	10/50
456360	20 - Rp 3/4"	Gunmetal	10/50
456361	25 - Rp 3/4"	Gunmetal	10/50

**LEAD-FREE no.15 BP elbow female - 4 lugs**

REHAU Article	Size (mm)	Material	Package (pcs) Bag/Box
456367	16 - Rp 1/2"	Gunmetal	10/50
456369	20 - Rp 1/2"	Gunmetal	10/50

**LEAD-FREE No.19 BP Elbow - male thread**

REHAU Article	Size (mm)	Material	Package (pcs)
430784	16- G1/2"B MI ext.90mm	Ecobrass	15
430786	20- G1/2"B MI ext.95mm	Ecobrass	15

**LEAD-FREE no.61 stopper**

REHAU Article	Size (mm)	Material	Package (pcs) Bag/Box
456387	16	Gunmetal	10/100
456388	20	Gunmetal	10/100

**LEAD-FREE no.62 straight tap connector with gasket - female**

REHAU Article	Size (mm)	Material	Package (pcs) Bag/Box
456335	16 - G 1/2"	Gunmetal	10/50
456337	20 - G 1/2"	Gunmetal	10/50
456338	20 - G 3/4"	Gunmetal	10/50
456339	25 - G 3/4"	Gunmetal	10/50
456340	25 - G 1"	Gunmetal	10/50
456341	32 - G 1"	Gunmetal	10/50
456342	32 - G 1 1/4"	Gunmetal	5/25
456343	32 - G 1 1/2"	Gunmetal	5/25
456344	40 - G 1 1/2"	Gunmetal	1



**LEAD-FREE no.63 bent tap connector with gasket - female**

REHAU Article	Size (mm)	Material	Package (pcs) Bag/Box
456396	16 - G 1/2"	Gunmetal	10/50
456413	20 - G 1/2"	Gunmetal	10/50

**LEAD-FREE connection T-piece - male thread**

REHAU Article	Size (mm)	Material	Package (pcs) Bag/Box
456400	16 - 16 - R 1/2"	Gunmetal	4/40
456401	20 - 20 - R 1/2"	Gunmetal	4/40
456402	20 - 20 - R 3/4"	Gunmetal	4/40

**LEAD-FREE connection T-piece - female thread with lugs**

REHAU Article	Size (mm)	Material	Package (pcs) Bag/Box
456291	16 - Rp 1/2" - 16	Gunmetal	10/50
456293	20 - Rp 1/2" - 16	Gunmetal	10/50
456294	20 - Rp 1/2" - 20	Gunmetal	10/50

**LEAD-FREE connection T-piece - female thread**

REHAU Article	Size (mm)	Material	Package (pcs) Bag/Box
456414	25 - Rp 1/2" - 25	Gunmetal	10/50
456296	25 - Rp 3/4" - 25	Gunmetal	10/50
456297	32 - Rp 3/4" - 32	Gunmetal	3/30
456298	32 - Rp 3/4" - 25	Gunmetal	3/30
456299	32 - Rp 1" - 32	Gunmetal	3/30
456300	40 - Rp 1" - 40	Gunmetal	1/1

**LEAD-FREE U-bend long - female thread 56mm**

REHAU Article	Size (mm)	Material	Package (pcs) Bag/Box
456270	16/16 - Rp 1/2"	Gunmetal	5/20
456271	20/20 - Rp 1/2"	Gunmetal	5/20
456422	25/25 - Rp 1/2"	Gunmetal	5/20





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Errors and changes are to be  
expected

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