



## RAUPIANO PLUS

THE SOUND INSULATING DOMESTIC WASTE WATER SYSTEM

# NO COMPROMISES WITH RAUPIANO PLUS



No compromises – the domestic waste water system for all applications, in private homes, hotels, schools, hospitals, office blocks or commercial kitchens.

With RAUPIANO PLUS you can fulfil tomorrow's requirements today and thereby increase your operating profit.

The extensive range of pipes, fittings and accessories in sizes DN 40 to DN 200 is thoroughly system-tested. Economical fire protection solutions and top sound insulation ensure 100% planning safety.

REHAU has produced pipes and fittings for domestic drainage for over 4 decades. Millions of laid metres of RAUPIANO PLUS pipes speak for themselves.



# A CONVINCING SYSTEM

QUICKLY AND EASILY INSTALLED – CONSISTENTLY COMPATIBLE

## **RAUPIANO PLUS – an advantage in handling.**

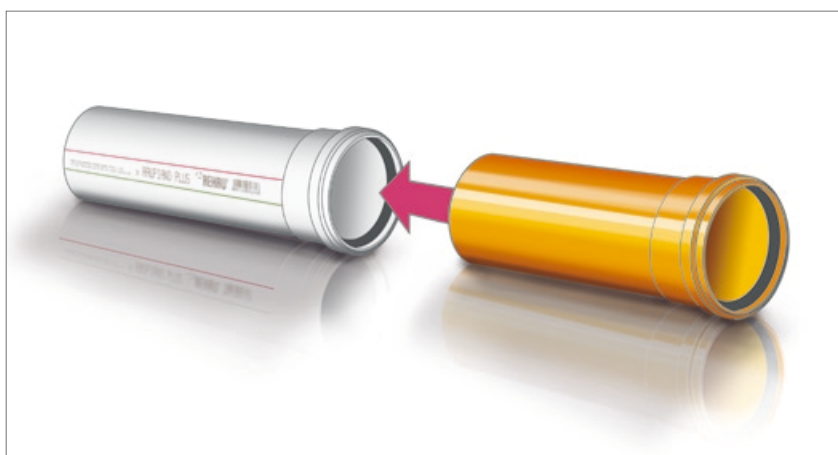
Integrated push-fit sockets with sealing rings allow for the system to be laid quickly, easily and safely in the same way as the standard-HT-PP range – which saves time and money.



## **The dimensions of RAUPIANO PLUS**

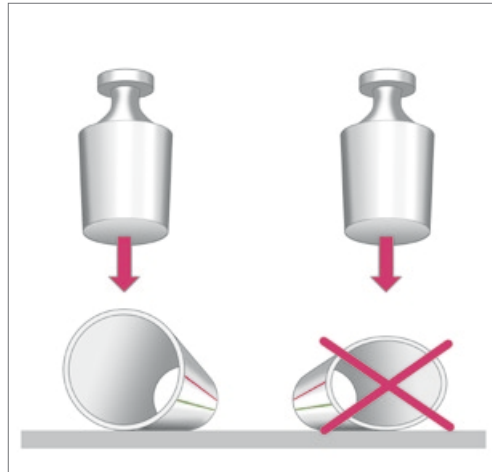
are compliant with the existing German and European standards. Connections to conventional HT and KG pipes are possible without adapters in all sizes.

The hydraulic drainage rate is identical for RAUPIANO PLUS and HT, making plans equivalent to the HT system possible.

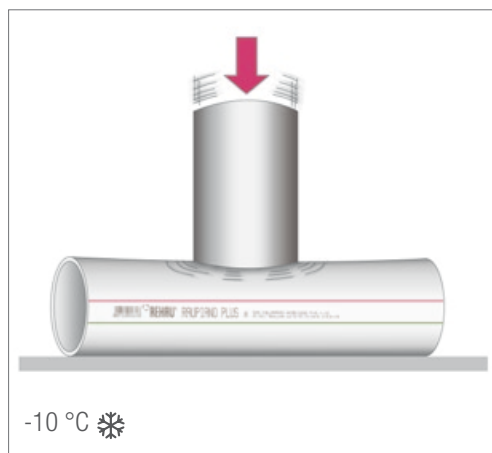


# FOR HARSH USES

MAXIMUM ROBUSTNESS AND EXCELLENT COLD IMPACT TOUGHNESS



**The high ring stiffness** makes the pipes robust for transport, storage and handling. This simplifies installation and prevents horizontally installed pipes from sagging.



**The excellent cold impact toughness** of RAUPIANO PLUS pipes ensures that they are highly suitable for building site conditions even at low temperatures. A fracture safety to  $-10^{\circ}\text{C}$ , tested according to DIN EN 1451/1411, was determined by the accredited laboratory SKZ Würzburg. RAUPIANO PLUS is marked with the "Ice Crystal" to show this excellent characteristic.

# UNIQUE FUNCTIONALITY

## WITH THREE INNOVATIVE FUNCTIONAL LAYERS

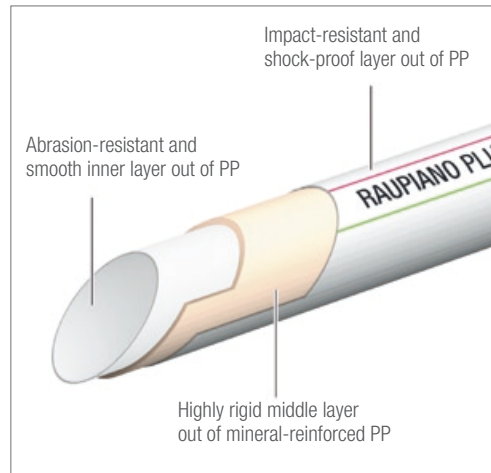
### Multi-layer technology

Smooth, abrasion-resistant inner surface – the pipes remain free of deposits and scaling. A special coating improves the flow conditions of the pipe system.

The UV-resistant outer layer is characterised by its high impact toughness, shock resistance and weathering resistance. Outdoor storage is possible for up to two years.

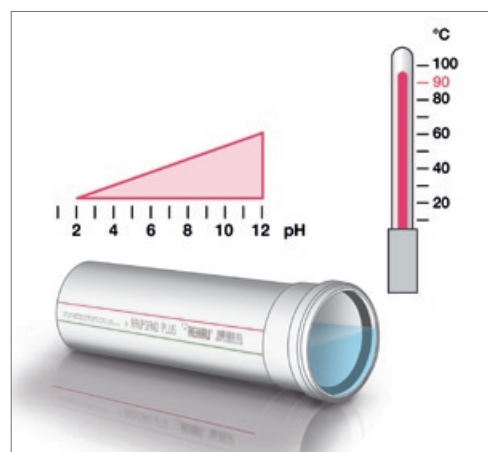
Highly rigid middle layer – sound-absorbing fillers increase the mass and reduce the sound level.

The further-improved optical appearance ensures a high value perception of the piping system.



### High Resistance

RAUPIANO PLUS has a high chemical resistance to all types of household wastewater ranging from pH 2 to 12 and is also resistant to hot water up to 90° C (or even 95° C for a short time).



# PEACE AND COMFORT LIVING

## STILL THE BEST IN SOUND INSULATION

The RAUPIANO PLUS system consists of pipes, fittings and an optimised fastening technology for the downpipe, which together result in excellent sound insulation.

By using innovative functional layers in RAUPIANO PLUS pipes, the air-transmitted sound is substantially reduced.

The highly rigid middle layer with sound-absorbing fillers increases the mass and leads to a reduction in the sound level.



*The increase of the wall thickness of the RAUPIANO PLUS bends at the deflection point leads to a further improvement of the air-transmitted sound insulation.*

The fastening technology establishes the connection to the mounting wall, therefore it has a special significance.

By using the patented, highly insulating fastening clips consisting of a supporting and a fastening clamp, the impact sound transmitted to the mounting wall is substantially minimised.



**The result: sound insulation values which fulfil the highest requirements – proved by measurements made by the officially accredited institute “Fraunhofer-Institut für Bauphysik, Stuttgart”.**





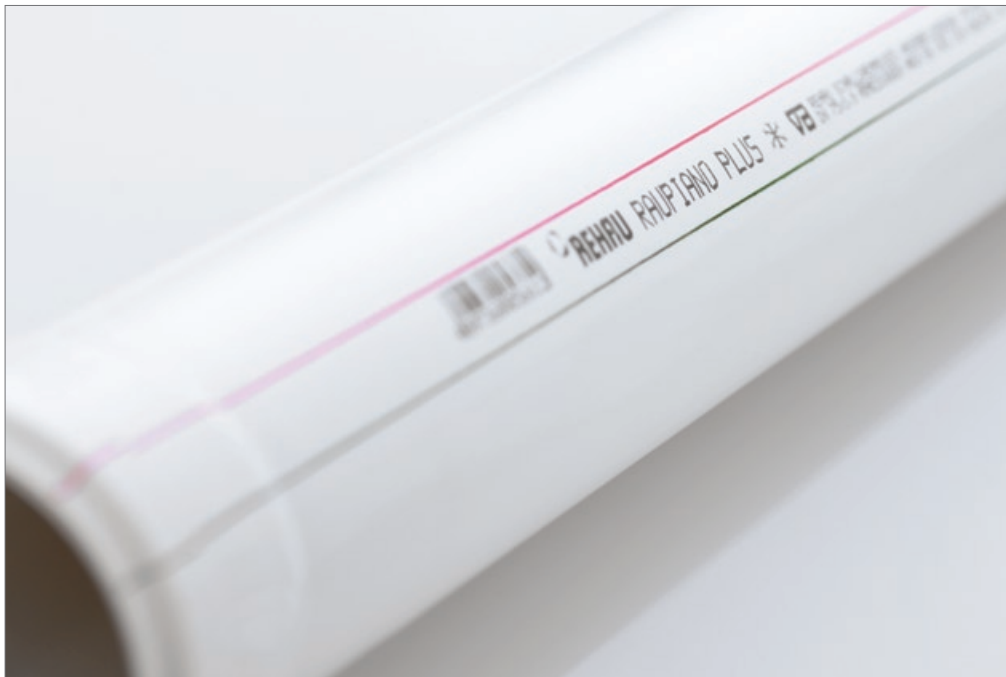
### System-tested

Innovative fire protection solutions adapted to the system and approved by building authorities ensure that statutory requirements are fulfilled.

The RAUPIANO PLUS pipe system is permanently tight without using complex adhesive jointing systems and can also be used for central vacuum cleaner systems.



*With VACUCLEAN, the central vacuum cleaner system from REHAU, success in a growing future market is ensured.*

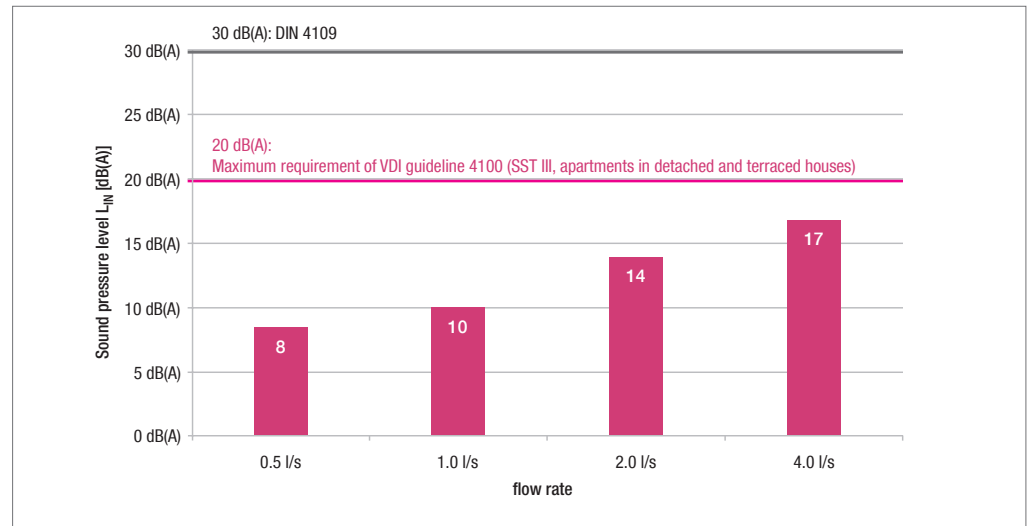


# RAUPIANO PLUS

FOR ALL SOUND INSULATION REQUIREMENTS IN ONE-FAMILY HOUSES  
AND IN MULTISTOREY APARTMENT BLOCKS

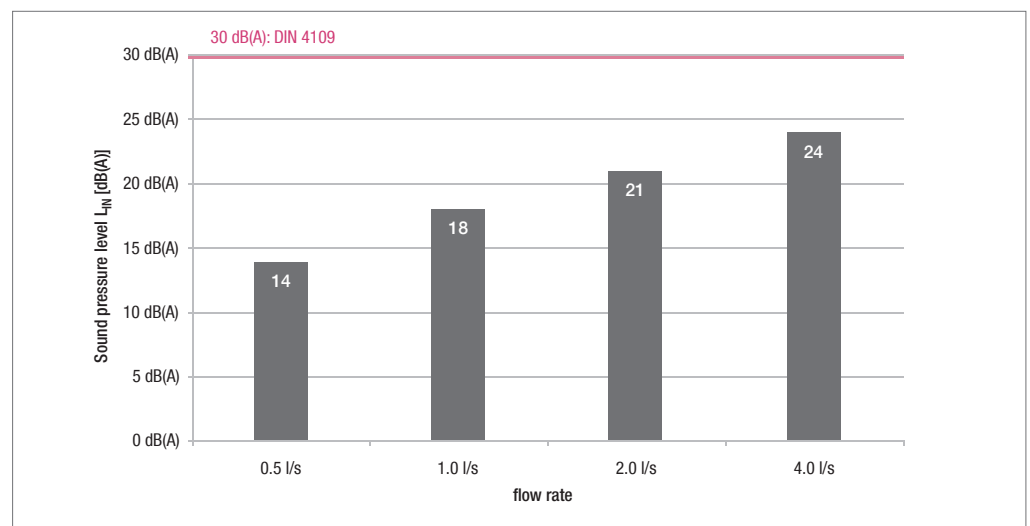
## Maximum sound insulation in multistorey apartment blocks

Fastening with the patented impact sound-dampening fastening technology of REHAU



## Use in a one-family house

Fastening with standard pipe clamp (here type BIFIX 1301)



Measurements made by the officially accredited institute "Fraunhofer-Institut für Bauphysik, Stuttgart". Results measured in the basement behind the mounting wall.

A flow rate (water flow) of 4 litres/sec represents the simultaneous flushing of two 6 litre WC flushing tanks.

RAUPIANO PLUS fulfils both the requirements of DIN 4109 (sound insulation in multistorey buildings) and the far more stringent requirements of VDI guideline 4100 with excellent results. RAUPIANO PLUS: an advantage in all buildings.



# RAUPIANO PLUS

## APPROVAL/CERTIFICATES

RAUPIANO PLUS has been certified by:



Germany



Germany



Sweden



Norway



Finland



Russia



Denmark



Denmark



Poland



Austria




Hungary



Malaysia

# RAUPIANO PLUS

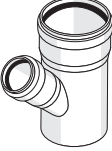
## PRODUCT RANGE


article	dimen- sion	length (mm)	art.-no.	pcs.	quan- tity
<b>RAUPIANO PLUS pipe</b> 	DN 40	150	123004-004	20/1440	
	DN 40	250	123014-004	20/960	
	DN 40	500	123024-004	20/480	
	DN 40	1000	123034-005	6/216	
	DN 40	2000	123044-005	6/216	
	DN 40	3000	123054-005	6/216	
	DN 50	150	120094-004	20/720	
	DN 50	250	120104-004	20/540	
	DN 50	500	120114-005	20/400	
	DN 50	750	120124-005	6/168	
	DN 50	1000	120134-005	6/168	
	DN 50	1500	120144-005	6/168	
	DN 50	2000	120154-005	6/168	
	DN 50	3000	120934-005	6/168	
	DN 75	150	120174-004	20/360	
	DN 75	250	120184-004	20/240	
	DN 75	500	120194-004	20/240	
	DN 75	750	120204-005	6/90	
	DN 75	1000	120214-005	6/90	
	DN 75	1500	120224-005	6/90	
	DN 75	2000	120234-005	6/90	
	DN 75	3000	120944-005	6/90	
	DN 90	150	123984-001	20/240	
	DN 90	250	123184-004	20/240	
	DN 90	500	123194-004	20/120	
	DN 90	1000	123204-004	4/48	
	DN 90	1500	123994-001	4/48	
	DN 90	2000	123214-004	4/48	
	DN 90	3000	123224-004	4/48	
	DN 110	150	120254-003	20/180	
	DN 110	250	120264-003	20/120	
	DN 110	500	120274-005	20/80	
	DN 110	750	120284-005	4/40	
	DN 110	1000	120294-005	4/40	
	DN 110	1500	120304-005	4/40	
	DN 110	2000	120314-005	4/40	
	DN 110	3000	120324-005	4/40	
	DN 110	3100	122724-005	4/40	
	DN 125	150	120654-003	6/108	
	DN 125	250	120664-001	10/90	
	DN 125	500	120674-005	6/72	
	DN 125	750	120684-005	2/24	
	DN 125	1000	120694-005	2/24	
	DN 125	1500	120704-005	2/24	
	DN 125	2000	120714-005	2/24	
	DN 125	3000	120724-005	2/24	
	DN 160	500	122954-004	8/32	
DN 160	1000	121664-005	1/21		
DN 160	2000	121674-005	1/21		
DN 160	3000	121684-005	1/21		
DN 200	1000	123614-001	1/10		
DN 200	2000	123624-001	1/10		
DN 200	3000	123634-001	1/10		


article	dimen- sion	degree	art.-no.	pcs.	quan- tity
<b>RAUPIANO PLUS bend</b> 	DN 40	15°	123064-001	20/1440	
	DN 40	30°	123074-001	20/1440	
	DN 40	45°	123084-001	20/1440	
	DN 40	87°	123094-001	20/1440	
	DN 50	15°	121094-001	20/960	
	DN 50	30°	121104-001	20/960	
	DN 50	45°	121114-001	20/960	
	DN 50	67°	121124-001	20/960	
	DN 50	87°	121134-001	20/960	
	DN 75	15°	121144-001	20/540	
	DN 75	30°	121154-001	20/540	
	DN 75	45°	121164-001	20/540	
	DN 75	67°	121174-001	20/360	
	DN 75	87°	121184-001	20/360	
	DN 90	15°	123384-001	20/360	
	DN 90	30°	123394-001	20/360	
	DN 90	45°	123404-001	20/360	
	DN 90	87°	123414-001	20/240	
	DN 110	15°	123424-001	20/240	
	DN 110	30°	123434-001	20/240	
	DN 110	45°	123444-001	20/240	
	DN 110	67°	123454-001	20/180	
	DN 110	87°	123464-001	20/180	
	DN 125	15°	123474-001	20/180	
	DN 125	30°	123484-001	20/180	
	DN 125	45°	123494-001	20/120	
	DN 125	67°	123504-001	20/120	
	DN 125	87°	123514-001	20/120	
DN 160	45°	121714-001	10/60		
DN 160	87°	121724-001	10/60		
DN 200	45°	123654-001	10/40		
DN 200	87°	123664-001	10/40		


# RAUPIANO PLUS


## PRODUCT RANGE


article	dimen- sion	degree	art.-no.	pcs.	quan- tity
<b>RAUPIANO PLUS single branch</b> 	DN 40/40	45°	123104-001	20/720	
	DN 40/40	87°	123114-001	20/960	
	DN 50/50	45°	121234-001	20/720	
	DN 50/50	87°	121254-001	20/720	
	DN 75/50	45°	121264-001	20/360	
	DN 75/50	87°	121284-001	20/360	
	DN 75/75	45°	121294-001	20/240	
	DN 75/75	87°	121544-001	20/240	
	DN 90/50	45°	123274-001	20/180	
	DN 90/50	87°	123284-001	20/240	
	DN 90/90	45°	123294-001	20/120	
	DN 90/90	87°	123304-001	20/180	
	DN 110/50	45°	121304-001	20/180	
	DN 110/50	87°	121324-001	20/180	
	DN 110/75	45°	121334-001	20/120	
	DN 110/75	87°	121344-001	20/120	
	DN 110/110	45°	121354-001	20/120	
	DN 110/110	87°	123005-001	20/120	
	DN 125/110	45°	120574-001	10/60	
	DN 125/110	87°	120594-001	10/90	
	DN 125/125	45°	120584-001	10/60	
	DN 125/125	87°	120604-001	10/60	
	DN 160/110	45°	121734-002	10/50	
	DN 160/110	87°	121744-003	10/50	
	DN 160/125	45°	121754-002	10/40	
	DN 160/125	87°	121764-002	10/40	
	DN 160/160	45°	121774-001	10/40	
DN 160/160	87°	121784-001	10/40		
DN 200/160	45°	123694-001	5/20		
DN 200/160	87°	123704-001	5/20		
DN 200/200	45°	123964-001	5/20		


<b>RAUPIANO PLUS double branch</b> 	DN 90/90/90	87°	123714-001	20/100	
	DN 110/110/110	45°	122964-001	10/100	
	DN 110/110/110	87°	121554-001	20/100	
	DN 125/110/110	45°	123594-001	10/50	
	DN 160/110/110	45°	123674-001	10/50	
	DN 160/110/110	87°	123684-001	10/50	


<b>RAUPIANO PLUS corner double branch</b> 	DN 90/90/90	87°	123724-001	20/100	
	DN 110/110/110	87°	121504-002	20/100	


<b>RAUPIANO PLUS parallel branch</b> 	DN 90/90		123734-001	10/90	
	DN 110/110		120564-002	9/81	

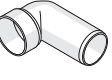
<b>RAUPIANO PLUS reducer</b> 	DN 50/40		123124-001	20/1440	
	DN 75/50		121384-001	20/960	
	DN 90/50		123314-001	20/720	
	DN 90/75		123324-001	20/540	
	DN 110/50		121394-001	20/540	
	DN 110/75		121404-001	20/540	
	DN 110/90		121994-001	20/360	
	DN 125/110		120614-001	20/240	
	DN 160/110		121794-002	20/180	
	DN 160/125		121804-002	20/180	
	DN 200/160		123764-001	10/60	


<b>RAUPIANO PLUS adapter to metal pipes</b> 	DN 40/40-30		123164-001	20/2400	
	DN 50/40-30		121414-001	20/2400	
	DN 50/50		121424-001	20/2400	


<b>RAUPIANO PLUS ad- apter to ventilation line (d;80)</b> 	DN75/80		123574-001	10/360	
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<b>RAUPIANO PLUS PVC-adapter</b> 	DN 50		123544-001	10/1200	
	DN 75		123554-001	10/720	
	DN 82/90		123564-001	10/480	

<b>RAUPIANO PLUS adapter to cast iron pipe</b> 	DN 110/90		123904-001	1/-	
	DN 110/110		123914-001	1/-	


<b>RAUPIANO PLUS waste trap elbow</b> 	DN 40/40-30		123174-001	20/1440	
	DN 50/40-30		122694-001	20/1200	
	DN 50/50		121444-001	20/960	


<b>Rubber nipple for RAUPIANO PLUS adapter and waste trap elbow</b> 	DN 50/40		126253-002	1/500	
	DN 50/50		121913-003	1/400	


<b>Rubber nipple with bead</b> 	DN 40/30		122923-002	1/1000	
	DN 50/30		122933-002	1/700	
	DN 50/40		122943-002	1/700	


# RAUPIANO PLUS

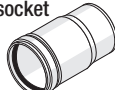
## PRODUCT RANGE

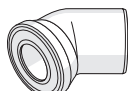
article	dimension	length/degree	art.-no.	pcs.	quantity
<b>RAUPIANO PLUS end cap</b> 	DN 40		123134-001	20/2400	
	DN 50		121454-001	20/2400	
	DN 75		121464-001	20/1440	
	DN 90		123334-001	20/960	
	DN 110		121474-001	20/960	
	DN 125		120624-001	20/720	
	DN 160		123774-001	10/360	
	DN 200		123974-001	10/120	

article	dimension	length/degree	art.-no.	pcs.	quantity
<b>RAUPIANO PLUS double socket</b> 	DN 40		123144-001	20/1440	
	DN 50		121484-001	20/1440	
	DN 75		121584-001	20/540	
	DN 90		123344-001	20/480	
	DN 110		121494-001	20/240	
	DN 125		120474-001	10/180	
	DN 160		121814-001	10/120	
	DN 200		123784-001	10/40	


article	dimension	length/degree	art.-no.	pcs.	quantity
<b>RAUPIANO PLUS slip-on socket</b> 	DN 40		123154-001	20/1440	
	DN 50		121504-001	20/1440	
	DN 75		121574-001	20/540	
	DN 90		123354-001	20/480	
	DN 110		121514-001	20/240	
	DN 125		120464-001	10/180	
	DN 160		121824-001	10/120	
	DN 200		123794-001	10/40	


article	dimension	length/degree	art.-no.	pcs.	quantity
<b>RAUPIANO PLUS access pipe</b> 	DN 75		121524-002	20/360	
	DN 90		123364-001	20/180	
	DN 110		121534-002	20/120	
	DN 125		120634-001	20/100	
	DN 160		121834-001	10/80	


article	dimension	length/degree	art.-no.	pcs.	quantity
<b>RAUPIANO PLUS long socket</b> 	DN 90		123374-001	20/360	
	DN 110		121594-001	20/180	


article	dimension	length/degree	art.-no.	pcs.	quantity
<b>Toilet bend</b> 	DN 90	90°	122924-001	20/120	
	DN 110	22°	121604-001	10/180	
	DN 110	45°	121614-001	10/90	
	DN 110	90°	121624-001	10/90	


article	dimension	length/degree	art.-no.	pcs.	quantity
<b>Toilet sleeve</b> 	DN 90	250 mm	122934-001	10/150	
	DN 110	150 mm	121634-001	10/240	
	DN 110	250 mm	121644-001	10/160	


article	dimension	degree	art.-no.	pcs.	quantity
<b>RAUPIANO PLUS P - Trap</b> 	DN 50		123754-001	10/180	
	DN 110		123744-001	10/50	


article	dimension	degree	art.-no.	pcs.	quantity
<b>RAUPIANO PLUS P - Trap with ventilation</b> 	DN 110/50		123804-001	10/90	

article	dimension	degree	art.-no.	pcs.	quantity
<b>Sound-damping support bracket with rubber lining</b> 	DN 75		122004-002	5/-	
	DN 90		122044-001	5/-	
	DN 110		122014-002	5/-	
	DN 125		122024-002	5/-	
	DN 160		122034-002	5/-	
	DN 200	M12	123924-001	5/-	

article	dimension	degree	art.-no.	pcs.	quantity
<b>Fixing/security clamp with rubber lining</b> 	DN 40	M8	122644-001	25/-	
	DN 50	M8	120504-001	25/-	
	DN 75	M10	120514-001	10/-	
	DN 90	M10	122054-001	10/-	
	DN 110	M10	120524-001	10/-	
	DN 125	M10	120804-001	10/-	
	DN 160	M10	121844-001	10/-	
	DN 200	M12	123934-001	10/-	

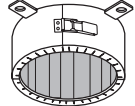
article	dimension	degree	art.-no.	pcs.	quantity
<b>Guiding clamp with rubber lining</b> 	DN 40	M8	122654-001	25/-	
	DN 50	M8	120534-001	25/-	
	DN 75	M10	120544-001	10/-	
	DN 90	M10	122064-001	10/-	
	DN 110	M10	120554-001	10/-	
	DN 125	M10	120814-001	10/-	
	DN 160	M10	121854-001	10/-	
	DN 200	M12	123944-001	10/-	


article	dimension	degree	art.-no.	pcs.	quantity
<b>Handless screw for fastening/guiding clamp</b> 			M8x80	121074-002	100/-
			M10x100	121084-002	100/-


article	dimension	degree	art.-no.	pcs.	quantity
<b>REHAU fireproofing collar compact</b> 	DN 50		122104-001	2/-	
	DN 75		122114-001	2/-	
	DN 110		122124-001	2/-	
	DN 125		122134-001	2/-	


# RAUPIANO PLUS


## PRODUCT RANGE

article	dimen- sion		art.-no.	pcs.	quan- tity
<b>Fireproofing collar REHAU Plus</b> 	DN 40-50		121894-001	2/-	
	DN 75		121904-001	2/-	
	DN 90		121914-001	2/-	
	DN 110		121924-001	2/-	
	DN 125		121934-001	2/-	
	DN 160		121944-001	2/-	

<b>RAUPIANO Plus floor trap</b> 	DN 50/50/50/75		122974-001	1/60	

<b>REHAU angled fireproofing collar</b> 	DN 75		120834-001	1/-	
	DN 90		120874-001	1/-	
	DN 110		120844-001	1/-	
	DN 125		120854-001	1/-	

<b>Rubber seal</b> 	DN 40		128243-002	1/-	
	DN 50		128013-002	1/-	
	DN 75		128023-002	1/-	
	DN 90		128003-001	1/-	
	DN 110		128033-002	1/-	
	DN 125		128043-002	1/-	
	DN 160		128053-003	1/-	

<b>Lubricant</b> 	Tube à 150 g		128933-002	50/-	
	Tube à 250 g		128943-003	50/-	
	Tube à 500 g		128953-003	24/-	

# RAUPIANO PLUS

## PROVEN MILLIONFOLD OVER YEARS

The following selection of references shows how the universal domestic waste water system fulfils practical requirements:

- Brakhof Estate, Bielefeld, Germany
- Condominium Kronenhof, Hanover, Germany
- Condominium Gündinger Berg, Saarbrücken, Germany
- Orlando House, Munich, Germany
- Plastics Technology Centre, Würzburg, Germany
- Golf Resort Hartl Schlössl, Bad Griesbach, Germany
- AOK Clinic Korbmattfelsenhof, Baden-Baden, Germany
- Golf & Therma Resort, Stegersbach, Austria
- Amara Beach Resort, Antalya, Turkey
- Athens Center Hotel, Athens, Greece
- Hotel Al-Mahari, Tripolis, Lybia
- High-rise residential block Olimpiya, Moscow, Russia
- Hotel J, Stockholm, Sweden
- Nordica Hotel, Reykjavik, Iceland
- City Center, Donetsk, Ukraine



Lake hotel Niedernberg - Niedernberg, Germany



Apartment block - Greifswald, Germany



Therma & Hotel Nova Köflach - Köflach, Austria



Olympic village - Turin, Italy



Apartment building complex "Incity" – Atesehir/Istanbul, Turkey



Shoreline Apartment Complex, Palm Island of Jumeirah, Dubai, United Arab Emirates

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