



# SUSTAINABLE BUILDING TECHNOLOGY

PRODUCT CATALOG

EFFECTIVE JANUARY 1, 2010

# SUSTAINABLE BUILDING TECHNOLOGY

## CHANNELING ENERGY AND WATER RESOURCES

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This catalog showcases REHAU's extensive range of PEXa pipe and compression-sleeve fitting solutions.

### **What is sustainable building technology?**

Sustainable products address some of our world's greatest challenges – rising energy costs, water shortages, decaying infrastructure. Not only must they conserve natural resources; they must also have a sustained impact on how we build. Energy efficient. Cost effective. Easy to install. Reliable. These are the targets for our sustainable solutions.

Our RAUGEO ground loops and radiant heating provide a very efficient, low-temperature heat source and distribution system while our MUNICIPEX

water service line is a cost-competitive solution for long-overdue infrastructure improvements. With our latest innovation, the REHAU ECOAIR™ ground-air heat exchange system, we are defining the market for geothermal controlled ventilation.

Our innovation pipeline includes exploring the use of geothermal energy for radiant cooling and solidifying the position of PEX in the residential fire protection segment. You can count on REHAU to keep you and your customers in the forefront of sustainable building technology.



**Table of Contents**

**Section**

Radiant Heating and Snow and Ice Melting Systems ..... 1

INSULPEX® Energy Transfer Systems..... 2

RAUGEO™ Ground Loop Heat Exchange Systems..... 3

REHAU ECOAIR™ Ground-Air Heat Exchange Systems ..... 4

FIREPEX™ Residential Fire Protection Systems ..... 5

MUNICIPEX® Water Service Line ..... 6

RAUPEX® Pipe for Plumbing ..... 7

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# RADIANT HEATING AND SNOW AND ICE MELTING SYSTEMS

PRODUCT CATALOG

EFFECTIVE JANUARY 1, 2010

# TABLE OF CONTENTS

---

1. RAUPEX® O <sub>2</sub> Barrier Pipe . . . . .	1.3	11. EVERLOC® Fittings . . . . .	1.19
2. Galvanized Support Channel . . . . .	1.5	12. RAUPEX Compression Nut Fittings . . . . .	1.24
3. RAUPANEL™ Radiant Heating System . . . . .	1.6	13. EVERLOC Ball Valves . . . . .	1.25
4. PRO-BALANCE® Brass Heating Manifold . . . . .	1.7	14. Compression Nut Ball Valves . . . . .	1.26
5. PRO-BALANCE XL Brass Heating Manifold . . . . .	1.8	15. Installation Accessories . . . . .	1.27
6. HLV Brass Heating Manifold (No Balancing Valves) . . . . .	1.9	16. Installation Tools . . . . .	1.31
7. PRO-BALANCE and PRO-BALANCE XL Accessories and Replacement Parts . . . . .	1.10	17. Thermostats and Accessories . . . . .	1.37
8. Copper Manifolds . . . . .	1.15	18. Electronic Controls . . . . .	1.39
9. Copper-EVERLOC Manifolds . . . . .	1.17	19. PRO-BALANCE Modules . . . . .	1.44
10. Two-way Zone Valves . . . . .	1.18	20. Mixing Valves . . . . .	1.46
		21. Hydronic Accessories . . . . .	1.50



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## 1.

# RAUPEX O<sub>2</sub> BARRIER PIPE



RAUPEX O<sub>2</sub> barrier pipe is manufactured using REHAU's high-pressure peroxide method for crosslinked polyethylene (PEXa). RAUPEX O<sub>2</sub> barrier pipe has a co-extruded oxygen diffusion barrier that exceeds the strict requirements of DIN 4726. All RAUPEX O<sub>2</sub> barrier pipe meets or exceeds the requirements of ASTM F876, F877, CSA B137.5 and PPI TR-3. RAUPEX O<sub>2</sub> barrier pipe also complies with the requirements of the CSA B214 installation code for hydronic heating systems. RAUPEX O<sub>2</sub> barrier pipe is produced in REHAU's ISO 9001 certified manufacturing facilities.

## 3/8" RAUPEX O<sub>2</sub> Barrier Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
136008-500	3/8" RAUPEX O <sub>2</sub> Barrier Pipe, 500 ft coil (152.4 m)	500 ft	10.5	23.1	1 coil
136008-000	3/8" RAUPEX O <sub>2</sub> Barrier Pipe, 1000 ft coil (304.8 m)	1000 ft	21.0	46.2	1 coil

3/8" pipe average capacity is 0.0050 US gallons per foot (0.0624 l/m).

## 1/2" RAUPEX O<sub>2</sub> Barrier Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
136031-300	1/2" RAUPEX O <sub>2</sub> Barrier Pipe, 300 ft coil (91.4 m)	300 ft	7.8	17.2	1 coil
136031-500	1/2" RAUPEX O <sub>2</sub> Barrier Pipe, 500 ft coil (152.4 m)	500 ft	13.1	28.9	1 coil
136031-000	1/2" RAUPEX O <sub>2</sub> Barrier Pipe, 1000 ft coil (304.8 m)	1000 ft	26.3	57.9	1 coil

1/2" pipe average capacity is 0.0098 US gallons per foot (0.1222 l/m).

## 5/8" RAUPEX O<sub>2</sub> Barrier Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
136880-400	5/8" RAUPEX O <sub>2</sub> Barrier Pipe, 400 ft coil (121.8 m)	400 ft	16.3	35.9	1 coil
136880-000	5/8" RAUPEX O <sub>2</sub> Barrier Pipe, 1000 ft coil (304.8 m)	1000 ft	35.9	79.1	1 coil

5/8" pipe average capacity is 0.0134 US gallons per foot (0.1671 l/m).

## 3/4" RAUPEX O<sub>2</sub> Barrier Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
136051-100	3/4" RAUPEX O <sub>2</sub> Barrier Pipe, 100 ft coil (30.5 m)	100 ft	4.9	10.9	1 coil
136051-500	3/4" RAUPEX O <sub>2</sub> Barrier Pipe, 500 ft coil (152.4 m)	500 ft	24.6	54.3	1 coil
136051-000	3/4" RAUPEX O <sub>2</sub> Barrier Pipe, 1000 ft coil (304.8 m)	1000 ft	49.2	108.5	1 coil

3/4" pipe average capacity is 0.0189 US gallons per foot (0.2356 l/m).

## 1" RAUPEX O<sub>2</sub> Barrier Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
136011-100	1" RAUPEX O <sub>2</sub> Barrier Pipe, 100 ft coil (30.5 m)	100 ft	7.9	17.5	1 coil
136011-500	1" RAUPEX O <sub>2</sub> Barrier Pipe, 500 ft coil (152.4 m)	500 ft	39.7	87.5	1 coil

1" pipe average capacity is 0.0316 US gallons per foot (0.3939 l/m).

**1 1/4" RAUPEX O<sub>2</sub> Barrier Pipe**

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
136283-100	1 1/4" RAUPEX O <sub>2</sub> Barrier Pipe, 100 ft coil (30.5 m)	100 ft	11.4	25.0	1 coil

1 1/4" pipe average capacity is 0.0467 US gallons per foot (0.5827 l/m).

**1 1/2" RAUPEX O<sub>2</sub> Barrier Pipe**

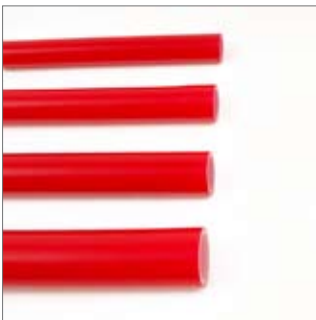
Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
136293-100	1 1/2" RAUPEX O <sub>2</sub> Barrier Pipe, 100 ft coil (30.5 m)	100 ft	16.0	35.0	1 coil

1 1/2" pipe average capacity is 0.0650 US gallons per foot (0.8118 l/m).

**2" RAUPEX O<sub>2</sub> Barrier Pipe**

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
136303-100	2" RAUPEX O <sub>2</sub> Barrier Pipe, 100 ft coil (30.5 m)	100 ft	27.4	60.0	1 coil

2" pipe average capacity is 0.1114 US gallons per foot (1.3906 l/m).

**RAUPEX O<sub>2</sub> Barrier Pipe 20 ft Straight Lengths**

Article No.	Description	Package Quantity Bag	Unit Weight		Minimum Order
			kg	lb	
136051-020	3/4" RAUPEX O <sub>2</sub> Barrier Pipe, 20 ft long (6.1 m)	25 pcs (500 ft)	1.0	2.2	1 bag
136011-020	1" RAUPEX O <sub>2</sub> Barrier Pipe, 20 ft long (6.1 m)	25 pcs (500 ft)	1.6	3.5	1 bag
136283-020	1 1/4" RAUPEX O <sub>2</sub> Barrier Pipe, 20 ft long (6.1 m)	5 pcs (100 ft)	2.3	5.0	1 bag
136293-020	1 1/2" RAUPEX O <sub>2</sub> Barrier Pipe, 20 ft long (6.1 m)	5 pcs (100 ft)	3.2	7.0	1 bag
136303-020	2" RAUPEX O <sub>2</sub> Barrier Pipe, 20 ft long (6.1 m)	5 pcs (100 ft)	5.5	12.0	1 bag

Same capacities as RAUPEX O<sub>2</sub> barrier pipe sold in coils.



## 2.

# GALVANIZED SUPPORT CHANNEL



Article No.	Description	Length		Package Quantity	Unit Weight		Minimum Order
		m	ft		kg	lb	
225527-001	3/4" Steel Support Channel	5.986	19.63	10 pcs	2.14	4.71	1 bundle
225537-001	1" Steel Support Channel	5.956	19.53	10 pcs	3.27	7.19	1 bundle
225547-001	1 1/4" Steel Support Channel	5.942	19.49	8 pcs	3.91	8.60	1 bundle
225557-001	1 1/2" Steel Support Channel	5.926	19.45	6 pcs	5.59	12.30	1 bundle
225567-001	2" Steel Support Channel	5.896	19.33	4 pcs	6.95	15.29	1 bundle

When RAUPEX pipe is snapped into the steel support channel, the result is a rigid pipe that can be supported in overhead applications.

## 3.

# RAUPANEL RADIANT HEATING SYSTEM

REHAU's RAUPANEL radiant heating system is a high-performance alternative to poured concrete and joist installations. This lightweight, low-profile system is well suited for both new construction and retrofit applications. Extruded aluminum RAUPANEL sections conduct heat from 3/8" RAUPEX pipe to provide even floor surface temperatures. Durable machined plywood return bends and furring strips complete the installation.



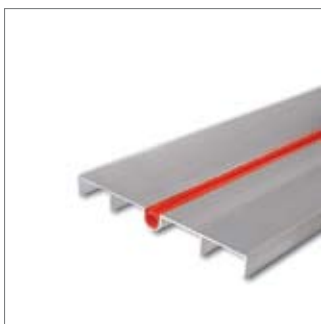
## RAUPANEL System Components

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
235307	RAUPANEL (6 ft lengths)	96ft / 16 pieces	1.73	3.80	1 box
235327-PLY	6" Plywood Return Bend (4 returns)	32 ft / 8 pieces	1.82	4.00	1 box
235337-PLY	8" Plywood Return Bend (3 returns)	32 ft / 8 pieces	2.05	4.50	1 box
235377-PLY	2" Plywood Furring Strip	136 ft / 34 pieces	0.45	1.00	1 box
235387	Deburring Tool	10 pieces	0.09	0.19	1 box

Furring strips are to be used in conjunction with 8" return bends to facilitate proper spacing of the RAUPANELS and to provide a nailing surface for the floor covering. Reference the table below for product dimensions and square footage. Be sure to read the RAUPANEL System Installation Guide 855.625 for instructions on design and use of this product.

## RAUPANEL Dimensions Table

Article No.	Dimensions W x L x H	ft <sup>2</sup> /pc	ft <sup>2</sup> /pkg	m <sup>2</sup> /pc	m <sup>2</sup> /pkg
235307	6" x 72" x 0.625"	3.0	48.0	0.279	4.459
235327-PLY	8" x 48" x 0.625"	2.7	21.3	0.251	1.979
235337-PLY	9" x 48" x 0.625"	3.0	24.0	0.279	2.230
235377-PLY	2" x 48" x 0.625"	0.7	22.7	0.065	2.110



## 4.

# PRO-BALANCE BRASS HEATING MANIFOLD



**PRO-BALANCE Brass Heating Manifold With Gauges**

Article No.	Stations	Manifold Length		Package Quantity	Unit Weight		Minimum Order
		mm	in		kg	lb	
240021-N	2	295	11.8	1	3.9	8.6	1
240031-N	3	350	14.0	1	4.3	9.5	1
240041-N	4	405	16.2	1	4.8	10.5	1
240051-N	5	482	19.3	1	5.2	11.5	1
240061-N	6	500	20.0	1	5.5	12.1	1
240071-N	7	592	23.7	1	5.9	13.0	1
240081-N	8	620	24.8	1	6.2	13.8	1
240091-N	9	675	27.0	1	6.6	14.6	1
240101-N	10	730	29.2	1	7.3	16.0	1
240111-N	11	782	31.3	1	7.6	16.8	1
240121-N	12	838	33.5	1	8.2	18.1	1

Delivered pre-assembled and ready to install. Use with 3/8", 1/2", 5/8" and 3/4" RAUPEX pipe. Compatible with manifold valve actuator Art. 260166 (see PRO-BALANCE Accessories and Replacement Parts section). Order manifold-to-pipe connectors separately (see R-20 compression-style manifold connections in the PRO-BALANCE Accessories and Replacement Parts section).

Each manifold comes complete with:

- Instruction booklet
- 1" NPT supply and return manifold isolation valves with flat gaskets
- Mini thermometers art. 250218 sold separately
- Air vent/boiler drain valves with flat gaskets
- Visual flow gauges (0-2 GPM) on supply side
- Circuit balancing/isolation valves on return side
- Mounting brackets
- Four drywall screws and four self-tapping screws
- Circuit labels
- Vent key
- Manifold circuit chart

Notes:

- Manifold lengths above include the isolation ball valve [3 1/4" (80 mm)] and the air vent / boiler drain valves [1.85" (47 mm)]
- Maximum flow is 2.0 GPM (0.13 l/s) per circuit; 20 GPM (1.01 l/s) total
- Depth of manifold is 3.75" (9.5 cm) with bracket, valve, and mini thermometer installed
- Can be joined to other manifold sections using 1" BSPP unions (Art. 260407) or 1" BSPF x 1" BSPF x 1 1/4" BSPM union tee (Art. 250227-001, see PRO-BALANCE Accessories and Replacement Parts section)

## 5.

# PRO-BALANCE XL BRASS HEATING MANIFOLD



**PRO-BALANCE XL Brass Heating Manifold With Gauges**

Article No.	Stations	Manifold Length		Package Quantity	Unit Weight		Minimum Order
		mm	in		kg	lb	
281841-001	4	398	15.08	1	6.2	13.7	1
281851-001	5	453	17.06	1	6.6	14.6	1
281861-001	6	508	19.02	1	7.1	15.7	1
281871-001	7	563	20.99	1	7.6	16.8	1
281881-001	8	618	22.95	1	8.3	18.3	1
281891-001	9	673	24.92	1	8.9	19.6	1
281801-001	10	728	26.89	1	9.2	20.3	1

Delivered pre-assembled and ready to install. Use with 3/8", 1/2", 5/8" and 3/4" RAUPEX pipe. Compatible with manifold valve actuator Art. 260166 (see PRO-BALANCE Accessories and Replacement Parts section). Order manifold-to-pipe connectors separately (see R-20 compression-style manifold connections in the PRO-BALANCE Accessories and Replacement Parts section).

Each manifold comes complete with:

- Instruction booklet
- 1 1/4" NPT supply and return manifold isolation ball valves with thermometer sockets and flat gaskets
- Mini thermometers art. 250218 sold separately
- Two 1 1/4" BSPP brass end caps with gaskets
- Visual flow gauges (0-4 GPM) on supply side
- Circuit balancing/isolation valves on return side
- Mounting brackets
- Four drywall screws
- Circuit labels
- Vent key
- Manifold circuit chart

Notes:

- Manifold lengths above include the isolation ball valve [3.86" (98mm)]
- Maximum flow is 4.0 GPM (0.25 l/s) per circuit; 40 GPM (2.52 l/s) total
- Depth of manifold is 4.50 in (11.4 cm) with bracket, valve, and mini thermometer installed
- Can be joined to other manifold sections using 1 1/4" BSPP unions (Art. 281971-001) or 1 1/4" BSPF x 1 1/4" BSPF x 1 1/4" BSPM union tee (Art. 250228-001, see PRO-BALANCE Accessories and Replacement Parts section).

## 6.

# HLV BRASS HEATING MANIFOLD (NO BALANCING VALVES)



## HLV Brass Heating Distribution Manifold (No Balancing Valves Included - Valveless Style)

Article No.	Stations	Manifold Length		Package Quantity	Unit Weight		Minimum Order
		mm	in		kg	lb	
250327*	2	285	11.4	1	3.0	6.6	1
250337*	3	340	13.6	1	3.5	7.7	1
250347*	4	395	15.8	1	4.0	8.8	1
250357*	5	448	17.9	1	4.5	9.9	1

\* This item is not stocked. Lead times may vary.

Delivered pre-assembled and ready to install. Use with 3/8", 1/2", 5/8" and 3/4" RAUPEX pipe. Order manifold-to-pipe connectors separately (see PRO-BALANCE RAUPEX Connections for Brass Manifolds in the PRO-BALANCE Accessories and Replacement Parts section).

Each manifold comes complete with:

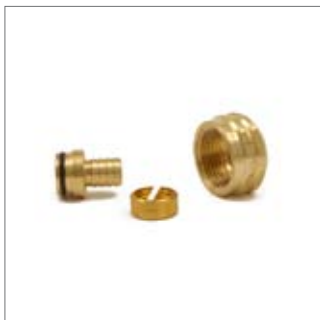
- 1" NPT supply and return manifold isolation valves
- Mounting brackets (Art. 261386)
- Vent elbows

Notes:

- Circuit isolation and balancing valves are not included
- Can fit within a 2" x 4" stud wall, only 3 1/4" deep
- Can be joined to other manifold sections using 1" BSPP unions (Art. 260407) or 1" BSPF x 1" BSPF x 1 1/4" BSPM union tee, (Art. 250227-001, see PRO-BALANCE Accessories and Replacement Parts section).

## 7.

# PRO-BALANCE AND PRO-BALANCE XL ACCESSORIES AND REPLACEMENT PARTS



## PRO-BALANCE and PRO-BALANCE XL RAUPEX Connections for Brass Manifolds

Article No.	Description	Package Quantity			Unit Weight		Minimum Order
		Bag	Box	Ctn	g	lb	
267507	3/8" RAUPEX x R-20 Brass Manifold Outlet	2	50	300	76	0.17	1 bag / 2 connectors
261007	1/2" RAUPEX x R-20 Brass Manifold Outlet	2	50	300	73	0.16	1 bag / 2 connectors
267557	5/8" RAUPEX x R-20 Brass Manifold Outlet	2	50	300	73	0.16	1 bag / 2 connectors
267007	3/4" RAUPEX x R-20 Brass Manifold Outlet	2	24	144	132	0.29	1 bag / 2 connectors
267007-100	Replacement Rubber O-ring for R20 Manifold Outlets	10	500	n/a	0.91	0.002	1 bag

For use with PRO-BALANCE and PRO-BALANCE XL manifolds. 3/8", 1/2" and 5/8" fittings include insert with O-ring, split brass ring and compression nut. 3/4" fitting includes R-20 x 1" bushing, 3/4" insert with O-ring, split brass ring and compression nut.



## PRO-BALANCE and PRO-BALANCE XL 4-Wire Manifold Valve Actuator

Article No.	Description	Package	Unit Weight		Minimum Order
		Quantity	g	lb	
260166	4-Wire Manifold Valve Actuator	1	140	0.30	1

The 4-wire manifold valve actuator is used to open and close circuit valves on the PRO-BALANCE and PRO-BALANCE XL heating manifolds. Use REHAU thermostats to control actuators directly, or connect through REHAU electronic controls.

### Features and Specifications:

- Gray position indicator provides visual verification of the actuator's position. When the actuator is off and closed, the gray indicator is flush with the top of the actuator. When the actuator is on and open, the gray indicator will rise out of the top of the actuator and be visible from the side.
- Red pull-out tab is provided to allow easy installation onto the manifold. After installation remove red tab.
- A dry-contact end switch is built in to the actuator. This end switch can be used to operate 24VAC (2 amps max.) relays for pumps and other devices and can be wired so that pumps turn on only when actuator is fully open.
- If required, connect the green end switch wires to a suitable 24VAC-powered relay to activate a device to be operated by the actuator's end switch or connect these wires directly into an appropriate zone control module.
- 24VAC "thermal motor" heating element melts a wax cartridge, allowing the actuator to open when there is a call for heat (power on). When the power is off, the wax cools and closes the valve (normally closed). Operation takes 3-4 minutes.
- 4 wires: blue/brown – Apply 24VAC power; green (2) – end switch. Length – 40" (100 cm).
- Ambient operating temperature range of 32°F to 140°F (0°C to 60°C).
- Low power draw: approximately 2VA in operation. Maximum 4.5VA when first powered. Ensure transformer has sufficient power (VA) to operate all actuators.



### PRO-BALANCE and PRO-BALANCE XL Replacement Flow Gauge

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
250220	PRO-BALANCE Replacement 0-2 GPM Flow Gauge	1	28	0.06	1
281901-001	PRO-BALANCE XL Replacement 0-4 GPM Flow Gauge	1	28	0.06	1

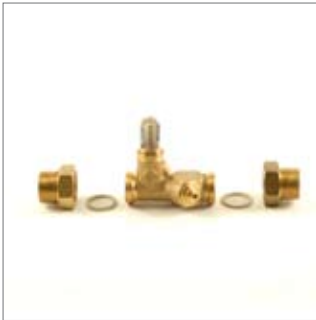
Replacement flow gauge for the PRO-BALANCE and PRO-BALANCE XL manifolds. Install using "pipe dope" thread sealant.



### PRO-BALANCE and PRO-BALANCE XL Circuit Balancing/Isolation Valve

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
250221	PRO-BALANCE Circuit Balancing/Isolation Valve	1	90	0.19	1

Replacement circuit balancing/isolation valve for the return side of the PRO-BALANCE and PRO-BALANCE XL manifold. Install using "pipe dope" thread sealant.



### PRO-BALANCE Flow Setter Valves

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
244807-001	1/2-4 GPM PRO-BALANCE Flow Setter Valve	1	760	1.67	1
244817-001	1-9 GPM PRO-BALANCE Flow Setter Valve	1	760	1.67	1

PRO-BALANCE flow setter valves are used to set flow to PRO-BALANCE manifolds and can be installed in-line into any pipe feeding a manifold. This is ideal when multiple manifolds are fed from a single circulator and flow needs to be set correctly to each. PRO-BALANCE flow setter valves are also used in variable speed injection pump mixing systems to set the flow through the injection loop.

PRO-BALANCE flow setter valves are supplied with two gaskets and adapters converting to 1" MPT.



### PRO-BALANCE and PRO-BALANCE XL Flow-Stop Circuit Valve

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
250224	PRO-BALANCE Flow-Stop Circuit Valve	5	0.12	0.26	1 box

This brass 1/4 turn ball valve attaches to R-20 circuit outlets on the supply side of PRO-BALANCE and PRO-BALANCE XL manifolds to allow for complete shut-off. Standard 1/4" vent key (supplied with each manifold) is used to operate the valve. Install flow-stop valves by hand onto R-20 outlets of the PRO-BALANCE manifold. Do not use pipe dope or thread sealant. Thread the valve clockwise until it stops. If necessary, back the valve off to align the valve stem with the front of the manifold.



### PRO-BALANCE 1" NPT Valve Set with Thermometer Housings

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
250216	1" NPT Valve Set w/ Thermometer Housings	Set of 2	420	0.92	1 set

These valves have integrated thermometer housings on each side of the valve bodies. Mini thermometers (Art. 250218) can be set into these housings to give accurate readings of temperatures on both supply and return sides of any PRO-BALANCE manifold. Includes gaskets. Mini thermometers are sold separately.



### PRO-BALANCE XL 1 1/4" NPT Isolation Ball Valve Set

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
281931-001	1 1/4" NPT Iso. Valve Set w/ Gaskets	1 set of 2	2.1	4.63	1 set

These valves have integrated thermometer housings on each side of the valve bodies. Mini thermometers (Art. 250218) can be set into these housings to give accurate readings of temperatures on both supply and return sides of any PRO-BALANCE XL manifold. Includes gaskets. Mini thermometers are sold separately.



### PRO-BALANCE Mini-Thermometer

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
250218	Mini Thermometer	1	28	0.06	1

Mini thermometers can be set into the housings on 1 1/4" or 1" NPT valves with thermometer housings to give accurate readings of temperatures on both supply and return sides of any PRO-BALANCE manifold (for use only with these valves). Thermometers read from 40°F-200°F and 0°C-100°C. Valves sold separately.



### PRO-BALANCE Air Vent/Boiler Drain Combination Set

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
250226	1" BSPP Air Vent/Boiler Drain Combination Set w/ Gaskets	1 set of 2	310	0.68	1 set

This set includes air vent/boiler drain combination pieces with union nuts and gaskets. Manual air vent opens with 1/4" vent key (supplied with each manifold). Boiler drain ball valve includes female garden hose thread (GHT) for convenient connections. Gasketed caps are also included as shown. For PRO-BALANCE manifolds.



### PRO-BALANCE and PRO-BALANCE XL Air Vent/Fill Port Combination Set

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
250205	1" BSPP Air Vent/Fill Port Combination Set w/ Gaskets	1 set of 2	290	0.64	1 set
281941-001	1 1/4" BSPP Air Vent/Fill Port Combination Set w/ Gaskets	1 set of 2	760	1.67	1 set

This set includes air vent fill port combination pieces with union nuts and gaskets.



### PRO-BALANCE and PRO-BALANCE XL Automatic Air Vent

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
250212	Automatic Air Vent, 3/8" BSPP	1	200	0.44	1

For PRO-BALANCE and PRO-BALANCE XL manifolds. Can be used to replace manual air vent on air vent/boiler drain pieces (Art. 250226) to allow automatic elimination of entrained air in a hydronic system.





### PRO-BALANCE and PRO-BALANCE XL Manifold Union Set

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
260407	1" BSPP Unions for PRO-BALANCE and HLV Manifolds w/ Gaskets	1 set of 2	300	0.65	1
281971-001	1 1/4" BSPP Unions for XL Manifold w/ Gaskets	1 set of 2	220	0.49	1

For use with PRO-BALANCE and PRO-BALANCE XL manifolds to connect two or more manifolds together in series. Includes union nuts and gaskets. May be used to extend an installed manifold.



### PRO-BALANCE and PRO-BALANCE XL Union Tee Set

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
250227-001	1" BSPF Manifold BSPM Union Tee w/ Gaskets	1 set of 2	1.50	3.30	1 set
250228-001	1 1/4" BSPP Manifold Union Tee w/ Gaskets for XL	1 set of 2	1.50	3.30	1 set

Supply side of 250227-001 is 1 1/4" BSPM. Supply side of 250228-001 is 1 1/4" BSPM. Sets are supplied with gaskets.



### PRO-BALANCE and PRO-BALANCE XL Circuit Outlet Cap

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
250209-C	R-20 Brass Circuit Outlet Cap w/ Gasket	1	28	0.07	1

Brass circuit outlet cap is used to cap off un-used outlets on any PRO-BALANCE and PRO-BALANCE XL manifold. Includes gasket.



### PRO-BALANCE and PRO-BALANCE XL Manifold End Cap

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
250213	1" Brass Manifold End Cap w/ Gasket	1	100	0.22	1
281951-001	1 1/4" Manifold End Cap w/ Gasket for XL	1	100	0.22	1

Can be used to cap off end of any manifold header while eliminating usual end pieces. Includes gasket.



### PRO-BALANCE and PRO-BALANCE XL BSPP 90-Degree Angle Piece

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
250214	1" BSPP 90-Degree Angle Piece w/ Gasket	1	600	1.30	1
281981-001	1 1/4" BSPP 90-Degree Angle Piece w/ Gasket for XL	1	221	0.49	1

For PRO-BALANCE and PRO-BALANCE XL manifolds. Includes union nut and gasket. Can be used to install manifold isolation valves at a right angle to manifold.



### PRO-BALANCE and PRO-BALANCE XL Gaskets

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
250203-G	Gasket for 1" Manifold Valve	1	0.91	0.002	1
281811-001	Gasket for 1 1/4" XL Manifold Valve	1	0.91	0.002	1



### PRO-BALANCE and PRO-BALANCE XL Steel Manifold Brackets

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
261386	1 1/4" Steel Manifold Brackets	Set of 2	0.45	1.0	1 set
261396	1 1/2" Steel Manifold Brackets	Set of 2	0.50	1.1	1 set

These sturdy brackets are for use with PRO-BALANCE (Art. 261386) and PRO-BALANCE XL (Art. 261396) manifolds used in supply/return configuration. Flexible liners reduce vibration/noise transfer and permit limited movement.



### PRO-BALANCE Manifold Extension Kit

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
250225	Extension Kit for PRO-BALANCE Manifolds	1	1.0	2.2	1

Used to add a circuit to an existing PRO-BALANCE manifold. The extension kit includes a supply section with a visual flow gauge, a return section with a circuit balancing/isolation valve and two gaskets.



### PRO-BALANCE and PRO-BALANCE XL Heating Manifold Cabinets

Manifold Article No.	PB Stations	PBXL Stations	Dimensions (mm)			Dimensions (in)			Package Quantity	Unit Weight		Minimum Order
			W	H	D	W	H	D		kg	lb	
250437	2 to 3	n/a	400	700	110-160	15.7	27.6	4.3-6.3	1	10.0	22.0	1
250447	2 to 6	4 to 6	550	700	110-160	21.7	27.6	4.3-6.3	1	13.0	28.7	1
250457	3 to 9	3 to 9	750	700	110-160	29.5	27.6	4.3-6.3	1	16.0	35.3	1
250467	4 to 12	4 to 10	950	700	110-160	37.4	27.6	4.3-6.3	1	19.0	41.9	1
250477	5 to 12	n/a	1150	700	110-160	45.3	27.6	4.3-6.3	1	22.0	48.5	1

PRO-BALANCE and PRO-BALANCE XL manifold cabinets are made from galvanized steel with welded seams for strength and durability. Integral brackets allow for easy mounting of any PRO-BALANCE manifold. Cabinets come with adjustable legs to mount the cabinet on the floor; legs can be removed to flush-mount the cabinet inside a wall cavity. Height and depth are adjustable. Cabinets include a steel door and have pipe knockouts on both sides for pipe connections to the manifold.

Dimensions are width x height x depth. Depth is adjustable from 4.3" to 6.3" (110 mm to 160 mm).

## 8.

## COPPER MANIFOLDS



## Pre-Cut Copper Manifolds

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
261326	1" Copper Manifold, 2 1/2" Outlets	1	0.20	0.45	1
261336	1" Copper Manifold, 3 1/2" Outlets	1	0.27	0.60	1
261346	1" Copper Manifold, 4 1/2" Outlets	1	0.34	0.75	1

Manifolds are type L copper with open ends in sizes indicated. One end is copper male while the opposite end is flared to copper female (sweat). Manifold pieces may be combined to make longer manifolds. Copper outlets are high-temperature brazed (lead-free) into headers at 2" on-center so manifolds cannot be cut to length. 1/2" copper outlets are 2" long. Use with REHAU fittings and valves to assemble complete manifolds for heating applications.



## Manifold Header Stock

Article No.	Description	Max GPM	Header Size	Outlet Size	Package Quantity	Unit Weight		Minimum Order
						kg	lb	
250810	1" x 1/2" Copper Manifold	20	1"	1/2"	1	2.7	6.0	1
250817	1" x 3/4" Copper Manifold	20	1"	3/4"	1	3.1	6.8	1
250820	1 1/4" x 1/2" Copper Manifold	32	1 1/4"	1/2"	1	3.4	7.3	1
250827	1 1/4" X 3/4" Copper Manifold	32	1 1/4"	3/4"	1	3.6	7.9	1
250829	1 1/2" x 1/2" Copper Manifold	44	1 1/2"	1/2"	1	4.1	9.0	1
250830	1 1/2" x 3/4" Copper Manifold	44	1 1/2"	3/4"	1	4.3	9.4	1
250839	2" x 1/2" Copper Manifold	75	2"	1/2"	1	5.8	12.8	1
250840	2" x 3/4" Copper Manifold	75	2"	3/4"	1	6.1	13.5	1
250850	2" x 1" Copper Manifold	75	2"	1"	1	6.8	15.0	1

Manifolds are type L copper with open ends in sizes indicated. Copper outlets are high-temperature brazed (lead-free) into headers. Each manifold is 72" (180 cm) long with 24 outlets at 3" on-center, except the 2" x 1" copper manifold (Art. 250850) which has 18 outlets at 4" on-center. Manifolds can easily be cut to length. Do not exceed maximum flow rates listed above. Use with REHAU fittings and valves to assemble complete manifolds for heating applications.



## Plastic Manifold Brackets

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
261266	Plastic Manifold Brackets	Set of 2	0.18	0.40	1 set

Brackets are made of reinforced nylon. A 1.57" (40 mm) offset allows supply/return manifold clearance. These brackets are used with 1" and 1 1/4" diameter copper manifolds using supplied flexible spacers.



## End Cap Vent Drains

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
250810-ECVD	1" End Cap Vent Drain	1	0.16	0.35	1
250820-ECVD	1 1/4" End Cap Vent Drain	1	0.23	0.50	1
250830-ECVD	1 1/2" End Cap Vent Drain	1	0.28	0.61	1
250840-ECVD	2" End Cap Vent Drain	1	0.42	0.93	1

End cap vent drain pieces are for use with copper manifolds for RFH and SIM applications. They allow easy connection of an automatic air vent (1/4" NPT) and a drain valve (1/2" NPT) to the end of the copper manifold. Use standard 1/4" NPT air vent.

Note: The REHAU automatic air vent (Art. 250212) does not work with the end cap vent drains due to different thread sizes. The REHAU automatic air vent is only for use on brass PRO-BALANCE manifolds.

## 9.

## COPPER-EVERLOC MANIFOLDS

**Open End, Cut-To-Length (CTL) Manifolds**

Article No.	Description	Package	Unit Weight		Minimum Order
		Quantity	kg	lb	
266357-001	1" EV CTL Manifold, 24 1/2" EV Out	1	2.41	5.30	1
266397-001	1" EV CTL Manifold, 12 1/2" EV Out	1	1.18	2.60	1
266367-001	1 1/4" EV CTL Manifold, 24 1/2" EV Out	1	3.41	7.50	1

Manifolds are type L copper with open ends in sizes indicated. 1/2" EVERLOC fittings are high temperature brazed (lead-free) into headers at 3" on-center so manifolds can easily be cut to length. 24-outlet manifolds are 72" (180 cm) long. 12-outlet manifold is 36" (90 cm) long. Not certified for potable water.

**EVERLOC Ball Valve Manifolds**

Article No.	Description	Package	Unit Weight		Minimum Order
		Quantity	kg	lb	
234107-101	EV Manifold 1" CM In, 12 1/2" EV Valves	1	3.2	7.0	1
234147-101+	EV Manifold 1 1/4" CM In, 12 5/8" EV Valves	1	4.1	9.1	1

+ This item is not stocked. Lead times may vary.

Manifolds are type L copper with open ends. EVERLOC ball valves in sizes indicated are soldered onto the headers at 3" on-center. Manifolds can easily be cut to length. Not certified for potable water.

Art. 234107-101 includes twelve of 1/2" EV valves Art. 261946-101.

Art. 234147-101 includes twelve of 5/8" EV valves Art. 243667-101.

## 10.

## TWO-WAY ZONE VALVES



## Two-way Zone Valve

Article No.	Description	Cv	Package	Unit Weight		Minimum Order
			Quantity	kg	lb	
260027	3/4" FPT x 3/4" MPT RA Valve	2.7	1	0.44	0.97	1
260037	1" FPT x 1" MPT RA Valve	2.8	1	0.71	1.60	1
260196	RA Valve Manual Balancing Handle	n/a	1	0.15	0.33	1

Build your own balancing manifold with these attachments for copper manifolds. Can be combined with the manifold valve actuator for RA valve (Art. 260167) for electric thermostat control (not the standard manifold valve actuator Art. 260166). 3/4" and 1" RA valve connections are as noted.



## Manifold Valve Actuator for RA Valve

Article No.	Description	Package	Unit Weight		Minimum Order
		Quantity	kg	lb	
260167	Manifold Valve Actuator for RA Valve	1	0.14	0.30	1

The 4-wire manifold valve actuator for RA valves is a special version for use with "RA valves". This includes balancing valves for 3/4" and 1" (Art. 260027 and 260037).

# 11.

# EVERLOC FITTINGS

EVERLOC fittings and sleeves create reliable connections that can be walled-in or embedded directly in a thermal mass (when wrapped in waterproof, adhesive-free tape or RAUCROSS™ (Art. 253415) heat shrink tubing to help reduce corrosion caused by the surrounding environment – check local codes for compliance). Installation is easy with EVERLOC tools.

EVERLOC fittings are produced from solid brass stock. Elbows and tees are hot-forged for superior strength and durability, while straight fittings are machined from solid brass rod. EVERLOC fittings and sleeves meet the performance requirements of ASTM F877 and ASTM F2080.

EVERLOC fittings are not certified for potable water applications.



## EVERLOC Sleeves

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
243507	3/8" EVERLOC Sleeve	150	900	23	0.05	1 box
260077	1/2" EVERLOC Sleeve	150	900	23	0.05	1 box
243607	5/8" EVERLOC Sleeve	40	240	56	0.12	1 box
260577	3/4" EVERLOC Sleeve	80	480	37	0.08	1 box
260877	1" EVERLOC Sleeve	40	240	73	0.16	1 box
235507	1 1/4" EVERLOC Sleeve	25	150	118	0.26	1 box
235707	1 1/2" EVERLOC Sleeve	20	120	132	0.29	1 box
235907	2" EVERLOC Sleeve	10	60	245	0.54	1 box

Sleeves are unplated brass. Tapered end installs toward fitting.



## EVERLOC Couplings

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
243517-101	3/8" x 3/8" EVERLOC Coupling	70	420	36	0.08	1 box
260227-101	1/2" x 1/2" EVERLOC Coupling	60	360	54	0.12	1 box
243627-101	5/8" x 5/8" EVERLOC Coupling	40	240	76	0.17	1 box
260317-101	3/4" x 3/4" EVERLOC Coupling	35	210	82	0.18	1 box
260427-101	1" x 1" EVERLOC Coupling	20	120	136	0.30	1 box
235527-101	1 1/4" x 1 1/4" EVERLOC Coupling	5	30	227	0.50	1 box
235727-101	1 1/2" x 1 1/2" EVERLOC Coupling	5	30	345	0.76	1 box
235927-101	2" x 2" EVERLOC Coupling	3	18	599	1.32	1 box

Order EVERLOC sleeves separately.



## EVERLOC Reducer Couplings

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
260247-101	3/4" x 1/2" EVERLOC Coupling	45	270	68	0.15	1 box
260447-101	1" x 3/4" EVERLOC Coupling	25	150	114	0.25	1 box
235517-101	1 1/4" x 1" EVERLOC Coupling	10	60	195	0.43	1 box
235717-101	1 1/2" x 1 1/4" EVERLOC Coupling	5	30	299	0.66	1 box
235737-101	1 1/2" x 1" EVERLOC Coupling	5	30	277	0.61	1 box
235917-101	2" x 1 1/2" EVERLOC Coupling	3	18	503	1.11	1 box
235937-101	2" x 1 1/4" EVERLOC Coupling	3	18	595	1.31	1 box
235947-101	2" x 1" EVERLOC Coupling	3	18	440	0.97	1 box

Order EVERLOC sleeves separately.



### EVERLOC Plugs

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
260087-101	1/2" EVERLOC Plug	100	600	32	0.07	1 box
260397-101	3/4" EVERLOC Plug	60	360	54	0.12	1 box
260497-101	1" EVERLOC Plug	30	180	91	0.20	1 box
235267-101	1 1/4" EVERLOC Plug	20	120	97	0.22	1 box

Order EVERLOC sleeves separately.

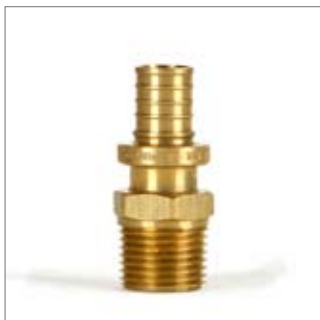


### EVERLOC Copper Adapters

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
260017-101	1/2" EVERLOC x 3/8" C Female (Sweat) or 1/2" C Male (Street)	65	390	41	0.09	1 box
260047-101	1/2" EVERLOC x 1/2" C Female (Sweat)	65	390	45	0.10	1 box
243637-101	5/8" EVERLOC x 1" C Male (Street) or 3/4" C Female (Sweat)	35	210	115	0.25	1 box
260807-101	3/4" EVERLOC x 1" C Female (Sweat)	25	150	114	0.25	1 box
260827-101	3/4" EVERLOC x 3/4" C Male (Street) or 1/2" C Female (Sweat)	35	210	82	0.18	1 box
260837-101	3/4" EVERLOC x 1" C Male (Street) or 3/4" C Female (Sweat)	25	150	118	0.26	1 box
260417-101	1" EVERLOC x 1" C Male (Street) or 3/4" C Female (Sweat)	25	150	136	0.30	1 box
260947-101	1" EVERLOC x 1 1/4" C Male (Street) or 1" C Female (Sweat)	20	120	163	0.36	1 box
235567-101	1 1/4" EVERLOC x 1 1/4" C Male (Street) or 1" C Female (Sweat)	5	30	222	0.49	1 box
235577-101	1 1/4" EVERLOC x 1 1/2" C Male (Street) or 1 1/4" C Female (Sweat)	5	30	249	0.55	1 box
235767-101	1 1/2" EVERLOC x 1 1/2" C Male (Street) or 1 1/4" C Female (Sweat)	5	30	322	0.71	1 box
235777-101	1 1/2" EVERLOC x 2" C Male (Street) or 1 1/2" C Female (Sweat)	5	30	508	1.12	1 box
235967-101	2" EVERLOC x 2" C Male (Street) or 1 1/2" C Female (Sweat)	5	30	644	1.42	1 box
235977-101	2" EVERLOC x 2 1/2" C Male (Street) or 2" C Female (Sweat)	3	18	797	1.76	1 box

Copper adapters connect RAUPEX pipe to copper pipe in sizes indicated. Many of these copper adapters can be used as male (street) or female (sweat) fittings. Make solder connection before connecting to RAUPEX pipe. Order EVERLOC sleeves separately.





### EVERLOC Dual MPT/Copper Adapters

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
243537-101	3/8" EVERLOC x 1/2" MPT or 1/2" C Female (Sweat)	50	300	59	0.13	1 box
260237-101	1/2" EVERLOC x 1/2" MPT or 1/2" C Female (Sweat)	45	210	68	0.15	1 box
243647-101	5/8" EVERLOC x 1/2" MPT or 1/2" C Female (Sweat)	35	210	91	0.20	1 box
260327-101	3/4" EVERLOC x 3/4" MPT or 1/2" C Female (Sweat)	25	150	122	0.27	1 box
260597-101	3/4" EVERLOC x 1" MPT or 3/4" C Female (Sweat)	20	120	109	0.24	1 box
260437-101	1" EVERLOC x 1" MPT or 3/4" C Female (Sweat)	15	90	195	0.43	1 box
235557-101	1 1/4" EVERLOC x 1 1/4" MPT or 1" C Female (Sweat)	5	30	331	0.73	1 box
235757-101	1 1/2" EVERLOC x 1 1/2" MPT or 1 1/4" C Female (Sweat)	5	30	503	1.11	1 box
235957-101	2" EVERLOC x 2" MPT or 1 1/2" C Female (Sweat)	3	18	889	1.96	1 box

Dual adapters connect RAUPEX pipe to either female threaded fittings (first size) or copper pipe (second size) in sizes indicated. Make threaded or solder connections before connecting to RAUPEX pipe. Order EVERLOC sleeves separately.



### EVERLOC Straight Tees

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
260607-101	1/2" x 1/2" x 1/2" EVERLOC Tee	25	150	114	0.25	1 box
260617-101	3/4" x 3/4" x 3/4" EVERLOC Tee	15	90	191	0.42	1 box
260977-101	1" x 1" x 1" EVERLOC Tee	8	48	349	0.77	1 box
235607-101	1 1/4" x 1 1/4" x 1 1/4" EVERLOC Tee	5	30	508	1.12	1 box
235807-101	1 1/2" x 1 1/2" x 1 1/2" EVERLOC Tee	2	12	875	1.93	1 box
236007-101	2" x 2" x 2" EVERLOC Tee	1	6	1397	3.08	1 box

Order EVERLOC sleeves separately.



### EVERLOC Run Reducing Tees

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
260647-101	3/4" x 1/2" x 3/4" EVERLOC Tee	15	90	172	0.38	1 box
260687-101	1" x 3/4" x 1" EVERLOC Tee	10	60	322	0.71	1 box
235637-101	1 1/4" x 1" x 1 1/4" EVERLOC Tee	5	30	381	0.84	1 box
235837-101	1 1/2" x 1 1/4" x 1 1/2" EVERLOC Tee	2	12	798	1.76	1 box
235847-101	1 1/2" x 1" x 1 1/2" EVERLOC Tee	2	12	763	1.68	1 box
236047-101	2" x 1 1/2" x 2" EVERLOC Tee	1	6	929	2.20	1 box
236057-101	2" x 1 1/4" x 2" EVERLOC Tee	1	6	800	1.76	1 box

Order EVERLOC sleeves separately.



### EVERLOC Branch Reducing Tees

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
260627-101	3/4" x 3/4" x 1/2" EVERLOC Tee	20	120	159	0.35	1 box
260707-101	1" x 1" x 3/4" EVERLOC Tee	10	60	295	0.65	1 box
260727-101	1" x 1" x 1/2" EVERLOC Tee	10	60	254	0.56	1 box
235617-101	1 1/4" x 1 1/4" x 1" EVERLOC Tee	5	30	454	1.00	1 box
235627-101	1 1/4" x 1 1/4" x 3/4" EVERLOC Tee	5	30	404	0.89	1 box
235817-101	1 1/2" x 1 1/2" x 1 1/4" EVERLOC Tee	2	12	650	1.43	1 box
235827-101	1 1/2" x 1 1/2" x 1" EVERLOC Tee	2	12	694	1.53	1 box
236017-101	2" x 2" x 1 1/2" EVERLOC Tee	1	6	850	1.87	1 box
236027-101	2" x 2" x 1 1/4" EVERLOC Tee	1	6	800	1.76	1 box
236037-101	2" x 2" x 1" EVERLOC Tee	1	6	1080	2.38	1 box

Order EVERLOC sleeves separately.



### EVERLOC Branch and Run Reducing Tees

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
260637-101	3/4" x 1/2" x 1/2" EVERLOC Tee	20	120	141	0.31	1 box
260697-101	1" x 3/4" x 3/4" EVERLOC Tee	10	60	254	0.56	1 box
235657-101	1 1/4" x 1" x 1" EVERLOC Tee	5	30	422	0.93	1 box
235677-101	1 1/4" x 3/4" x 1" EVERLOC Tee	5	30	353	0.78	1 box
235887-101	1 1/2" x 3/4" x 1" EVERLOC Tee	2	12	481	1.06	1 box
235857-101	1 1/2" x 1 1/4" x 1 1/4" EVERLOC Tee	2	12	685	1.51	1 box
235867-101	1 1/2" x 1 1/4" x 1" EVERLOC Tee	2	12	571	1.27	1 box
235877-101	1 1/2" x 1" x 1" EVERLOC Tee	2	12	590	1.30	1 box
236067-101	2" x 1 1/2" x 1 1/2" EVERLOC Tee	1	6	1161	2.56	1 box
236077-101	2" x 1 1/2" x 1 1/4" EVERLOC Tee	1	6	700	1.54	1 box
236087-101	2" x 1 1/2" x 1" EVERLOC Tee	1	6	957	2.11	1 box
236097-101	2" x 1 1/4" x 1 1/4" EVERLOC Tee	1	6	993	2.19	1 box

Order EVERLOC sleeves separately.



### EVERLOC "Bullhead" Tees

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
260857-101	1/2" x 1/2" x 3/4" EVERLOC Tee	20	120	145	0.32	1 box
260897-101	3/4" x 3/4" x 1" EVERLOC Tee	10	60	240	0.53	1 box

Order EVERLOC sleeves separately.



### 90° Elbows - EVERLOC to EVERLOC

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
260657-101	1/2" x 1/2" EVERLOC Elbow	40	240	77	0.17	1 box
260677-101	3/4" x 3/4" EVERLOC Elbow	25	150	132	0.29	1 box
260717-101	1" x 1" EVERLOC Elbow	10	60	254	0.56	1 box
235597-101	1 1/4" x 1 1/4" EVERLOC Elbow	8	48	372	0.82	1 box
235797-101	1 1/2" x 1 1/2" EVERLOC Elbow	2	12	667	1.47	1 box
235997-101	2" x 2" EVERLOC Elbow	2	12	1080	2.38	1 box

In some situations a 90° bend may be formed without an elbow (refer to REHAU's heating technical manuals); see support bends and PVC bend guides under installation accessories in this catalog. Order EVERLOC sleeves separately.



### 90° Elbows - EVERLOC Dual MPT/Copper

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
260737-101	1/2" EVERLOC x 1/2" MPT or 1/2" C Female (Sweat) Drop Ear Elbow	25	150	118	0.26	1 box
260747-101	3/4" EVERLOC x 3/4" MPT or 1/2" C Female (Sweat) Elbow	15	90	172	0.38	1 box

Dual adapters connect RAUPEX pipe to either female threaded fittings (first size) or copper pipe (second size) in the sizes indicated. Art. 260737-101 has three drop ears with 0.275" diameter holes for increased stability. Art. 260747-101 does not have drop ears. Make threaded or solder connection before connecting to RAUPEX pipe. Order EVERLOC sleeves separately.



### 90° Elbows - EVERLOC to Copper

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
260537-101	1/2" EVERLOC x 1/2" C Male (Street) or 3/8" C Female (Sweat) Elbow	50	300	59	0.13	1 box
260557-101	1/2" EVERLOC x 3/4" C Female (Sweat) Elbow	35	210	86	0.19	1 box
260757-101	1/2" EVERLOC x 3/4" C Male (Street) or 1/2" C Female (Sweat) Elbow	25	150	104	0.23	1 box
243687-101	5/8" EVERLOC x 1" C Male (Street) or 3/4" C Female (Sweat) Elbow	20	120	150	0.34	1 box
243697-101	5/8" EVERLOC x 3/4" C Male (Street) or 1/2" C Female (Sweat) Elbow	20	120	114	0.25	1 box
260767-101	3/4" EVERLOC x 1" C Male (Street) or 3/4" C Female (Sweat) Elbow	20	120	163	0.36	1 box
260817-101	3/4" EVERLOC x 3/4" C Male (Street) or 1/2" C Female (Sweat) Elbow	25	150	127	0.28	1 box

Copper adapters connect RAUPEX pipe to copper pipe in sizes indicated. Make solder connection before connecting to RAUPEX pipe. Order EVERLOC sleeves separately.

# RAUPEX COMPRESSION NUT FITTINGS

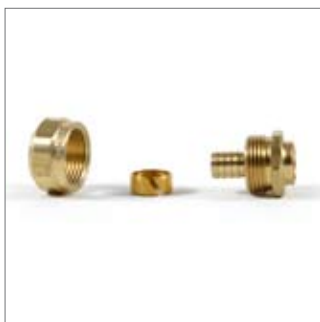
RAUPEX split-ring compression nut brass fittings are machined from solid brass stock. Integral fitting/insert design provides positive clamping and sealing action with split compression ring.



## Dual MPT/Copper Adapters

Article No.	Description	Package Quantity			Unit Weight		Minimum Order
		Bag	Box	Carton	g	lb	
267517	3/8" RAUPEX x 1/2" MPT or 1/2" C Female (Sweat)	5	35	210	130	0.29	1 bag
260987	1/2" RAUPEX x 1/2" MPT or 1/2" C Female (Sweat)	5	25	150	136	0.30	1 bag
267567	5/8" RAUPEX x 1/2" MPT or 1/2" C Female (Sweat)	5	25	150	160	0.34	1 bag
260357	3/4" RAUPEX x 3/4" MPT or 1/2" C Female (Sweat)	1	15	90	229	0.50	1 bag
260477	1" RAUPEX x 1" MPT or 3/4" C Female (Sweat)	1	10	60	305	0.67	1 box

Dual adapter fittings connect RAUPEX pipe to threaded fitting (first size) or copper pipe (second size) in sizes indicated. Make solder or threaded connection before connecting to RAUPEX pipe.



## Copper Adapters

Article No.	Description	Package Quantity			Unit Weight		Minimum Order
		Bag	Box	Carton	g	lb	
260997	1/2" RAUPEX x 1/2" C Female (Sweat)	5	30	180	108	0.24	1 bag
260347	3/4" RAUPEX x 3/4" C Female (Sweat)	1	20	120	166	0.37	1 bag
260467	1" RAUPEX x 1" C Female (Sweat)	1	10	60	274	0.60	1 bag

Copper adapter fittings connect RAUPEX pipe to copper pipe in sizes indicated. Make solder connection before connecting to RAUPEX pipe.

# 13.

# EVERLOC BALL VALVES

REHAU's EVERLOC valves provide the same reliable connections as our other EVERLOC fittings. Easy installation with EVERLOC tools (see Installation Tools section). These ball valves complete your heating installation. Solder valves in open position.



### Straight Ball Valves, EVERLOC to Copper

Article No.	Description	Cv	Package Quantity		Unit Weight		Minimum Order
			Box	Carton	g	lb	
261946-101	1/2" EVERLOC x 1/2" C Female (Sweat) Valve	3.0	24	144	150	0.33	1
243667-101	5/8" EVERLOC x 3/4" C Female (Sweat) Valve	6.2	18	108	320	0.70	1
261376-101	3/4" EVERLOC x 3/4" C Female (Sweat) Valve	6.2	18	108	190	0.43	1

Make solder connection before connecting to RAUPEX pipe. Order EVERLOC sleeves separately.



### Straight Ball Valves, EVERLOC to EVERLOC

Article No.	Description	Cv	Package Quantity		Unit Weight		Minimum Order
			Box	Carton	g	lb	
261906-101	1/2" x 1/2" EVERLOC Valve	3.0	18	108	190	0.42	1
261956-101	3/4" x 3/4" EVERLOC Valve	6.2	12	72	230	0.51	1

Order EVERLOC sleeves separately.



### Balancing Ball Valves, EVERLOC to Copper

Article No.	Description	Cv	Package Quantity		Unit Weight		Minimum Order
			Box	Carton	g	lb	
260797-101	1/2" EVERLOC x 1/2" C Female (Sweat) Balancing Valve	0-3.0	12	72	270	0.60	1
266447-101	3/4" EVERLOC x 3/4" C Female (Sweat) Balancing Valve	0-6.2	6	36	350	0.78	1

Balancing ball valves combine a balancing screw with a ball valve in one unit. To balance flow, use a 1/8" hex key to adjust flow from 0% to 100%. 10 turns open is 100% flow (Cv as shown above), 5 turns open is 50% flow and 1 turn open is 10% flow. (Cv value indicates flow in GPM at 1 psi loss). Integral ball valve allows quick, positive shut off. Make solder connection before connecting to RAUPEX pipe. Order EVERLOC sleeves separately.

## 14.

## COMPRESSION NUT BALL VALVES

REHAU's compression nut valves provide the same reliable connections as our other compression nut fittings. These ball valves complete your heating installation. Solder valves in open position.

**Straight Ball Valves, Compression Nut to Copper**

Article No.	Description	Cv	Package Quantity		Unit Weight		Minimum Order
			Box	Carton	g	lb	
267527	3/8" RAUPEX x 1/2" C Female (Sweat) Valve	3.0	12	72	230	0.51	1 each
260277	1/2" RAUPEX x 1/2" C Female (Sweat) Valve	3.0	12	72	230	0.51	1 each
267587	5/8" RAUPEX x 1/2" C Female (Sweat) Valve	3.0	12	72	220	0.49	1 each
260367	3/4" RAUPEX x 3/4" C Female (Sweat) Valve	6.2	6	36	340	0.75	1 each

Make solder connection before connecting to RAUPEX pipe. Order EVERLOC sleeves separately.

**Straight Ball Valve, Compression Nut to MPT**

Article No.	Description	Cv	Package Quantity		Unit Weight		Minimum Order
			Box	Carton	g	lb	
260377	3/4" RAUPEX x 3/4" MPT Valve	6.2	6	36	350	0.77	1 each

Make threaded connection before connecting to RAUPEX pipe.

**Balancing Ball Valves, Compression Nut to Copper**

Article No.	Description	Cv	Package Quantity		Unit Weight		Minimum Order
			Box	Carton	g	lb	
267537	3/8" RAUPEX x 1/2" C Female (Sweat) Balancing Valve	0 - 3.0	12	72	350	0.78	1 each
260847	1/2" RAUPEX x 1/2" C Female (Sweat) Balancing Valve	0 - 3.0	12	72	350	0.78	1 each
267597	5/8" RAUPEX x 1/2" C Female (Sweat) Balancing Valve	0 - 3.0	6	36	350	0.78	1 each
260297	3/4" RAUPEX x 3/4" C Female (Sweat) Balancing Valve	0 - 6.0	6	36	500	1.10	1 each

Balancing ball valves combine a balancing screw with a ball valve in one unit. To balance flow, use a 1/8" hex key to adjust flow from 0% to 100%. 10 turns open is 100% flow (Cv as shown above), 5 turns open is 50% flow and 1 turn open is 10% flow. (Cv value indicates flow at 1 psi loss). Integral ball valve allows quick positive shut off. Make solder connection before connecting to RAUPEX pipe.

# 15.

# INSTALLATION ACCESSORIES



## Steel Support Bends

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Bag	Carton	g	lb	
258408	3/8" and 1/2" Steel Support Bend	10	50	50	0.10	1 bag
258798	5/8" Steel Support Bend	10	50	90	0.19	1 bag
257249	3/4" Steel Support Bend	10	50	150	0.32	1 bag
261153	1" Steel Support Bend	5	50	380	0.84	1 bag

Create 90° bends without an elbow fitting. 3/8", 1/2", 5/8" and 3/4" steel support bends create a 90° bend by quickly snapping over RAUPEX pipe. 1" steel support bends (not shown) slide onto pipe.



## Polymer Support Bends with Screw Hole

Article No.	Description	Box Quantity	Unit Weight		Minimum Order
			g	lb	
266207	3/8" and 1/2" Polymer Support Bend	50	40	0.08	1 box
266217*	5/8" Polymer Support Bend	50	70	0.16	1 box
266227	3/4" Polymer Support Bend	50	70	0.16	1 box
266237	1" Polymer Support Bend	50	100	0.22	1 box
266727	1 1/4" Polymer Support Bend	50	200	0.44	1 box

\* This item is not stocked. Lead times may vary.

These reinforced polymer bend supports create 90° bends without an elbow, quickly snapping over RAUPEX pipe. 'Ear' on the inside of the bend has a screw hole for secure mounting to a support or stud.



## PVC Bend Guides

Article No.	Description	Box Quantity	Unit Weight		Minimum Order
			g	lb	
266170	3/8" and 1/2" PVC Bend Guide	40	40	0.09	1 box
266175	5/8" and 3/4" PVC Bend Guide	30	50	0.11	1 box
266180	1" PVC Bend Guide	20	270	0.60	1 box

Create 90° bends without an elbow fitting by inserting RAUPEX pipe into these rigid plastic PVC bend guides. PVC bend guides provide protection at slab penetrations and create professional appearance at manifolds.



## PE Protection Sleeves

Article No.	Description	Hole Size*	Package Quantity	Unit Weight		Minimum Order
				kg	lb	
236107	Protection Sleeve for 3/8" and 1/2" Pipe	1"	100 ft (30.4 m)	2.6	5.7	1 coil / case
236117	Protection Sleeve for 5/8" and 3/4" Pipe	1 1/4"	50 ft (15.2 m)	3.1	6.7	1 coil / case
236127	Protection Sleeve for 1" Pipe	1 1/2"	50 ft (15.2 m)	1.7	3.6	1 coil / case
236137	Protection Sleeve for 1 1/4" Pipe	2"	150 ft (45.7 m)	4.2	9.2	1 coil / case
236147	Protection Sleeve for 1 1/2" Pipe	2 1/2"	100 ft (30.4 m)	7.8	17.2	1 coil / case
236157	Protection Sleeve for 2" Pipe	3"	100 ft (30.4 m)	8.7	19.2	1 coil / case

Protects RAUPEX pipe at slab and wall penetrations, expansion and construction joints and abrasive surfaces. Use in joist space heating or other hydronic applications to prevent RAUPEX pipe from rubbing directly against wooden members. Most sizes are slit for easier installation.

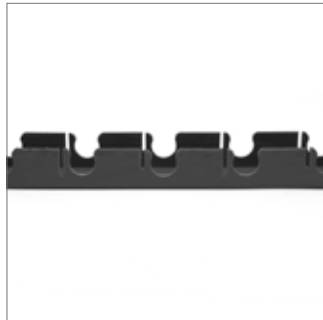
\*Recommended hole size to be drilled for proper installation.



### RAUCROSS™ Heat Shrink

Article No.	Description	Package	Unit Weight		Minimum Order
		Quantity	g	lb	
253615	3/8", 1/2", 5/8" and 3/4" Heat Shrink - 3.3 ft (1 m)	5 m	82	0.18	1
253625	3/4" and 1" Heat Shrink - 3.3 ft (1 m)	5 m	122	0.27	1

RAUCROSS heat shrink tubing is ideal for sealing around EVERLOC brass fittings installed in corrosive environments add or buried in soil, or a thermal mass. Sized to seal tightly around fittings, RAUCROSS will shrink quickly with heat from a hot air gun. Follow installation instructions.



### RAILFIX™ Fixing Rail

Article No.	Description	Package	Unit Weight		Minimum Order
		Quantity	g	lb	
259238-2M	1/2" RAILFIX Fixing Rail - 6.5 ft (2 m)	16 pieces	480	1.06	1 bundle
266247	5/8" RAILFIX Fixing Rail - 6.5 ft (2 m)	16 pieces	510	1.12	1 bundle
266257	3/4" RAILFIX Fixing Rail - 6.5 ft (2 m)	16 pieces	620	1.36	1 bundle
266277-001+	1" RAILFIX Fixing Rail - 6.5 ft (2 m)	12 pieces	1796	3.96	1 bundle

+ This item is not stocked. Lead times may vary.

For rapid installation of RAUPEX pipe in a thermal mass or in a sand bed. Fabricated of durable polymer material and pre-drilled for fastening with plastic holding pins (Art. 259268) or steel screws (not included). Pipe holders are spaced at 2" (5 cm) on-center.



### Universal Fixing Rail 3/8" - 3/4"

Article No.	Description	Package	Unit Weight		Minimum Order
		Quantity	g	lb	
266407	Universal Fixing Rail for 3/8", 1/2", 5/8" and 3/4" RAUPEX - 3.3 ft (1 m)	10 pieces	230	0.51	1 bundle

For rapid installation of RAUPEX pipe in four sizes indicated above. Universal fixing rail is molded with alternating small/large RAUPEX tabs that securely hold the pipe in place: the small tabs hold 3/8" and 1/2" RAUPEX pipes, while the large tabs hold 5/8" and 3/4" RAUPEX pipes. Alternating tabs are spaced at 4" (10 cm) for installed pipe spacing of 4", 8" or 12" (10 cm, 20 cm or 30 cm) on-center. Pieces are 3.3 ft (1 m) long. Flat bottom and pre-drilled holes allow for mounting directly onto insulation with plastic holding pins (Art. 259268), or onto concrete or wood floors with steel screws (not included). Clips at the end allow pieces to be snapped together to make longer lengths.



### Soil Hooks

Article No.	Description	Package	Unit Weight		Minimum Order
		Quantity	g	lb	
260867	Soil Hooks	1000	9	0.02	1 carton

Soil hooks anchor RAUPEX pipe in compacted soil.



### Plastic Holding Pin

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Bag	Box	g	lb	
259268	Plastic Holding Pin	500	5000	1.46	0.003	1 bag

Plastic holding pins are used to secure RAILFIX fixing rail and universal fixing rail (Art. 266407) to rigid insulation.

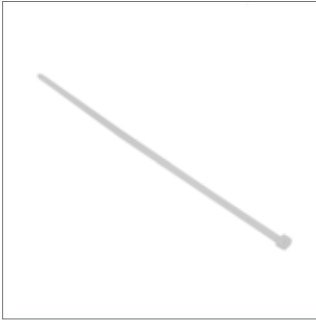




### Insulation Screw Clips

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
260836	Insulation Screw Clips	1000	6	0.01	1 bag

Insulation screw clips secure RAUPEX pipe to rigid insulation such as extruded polystyrene or polyurethane. Not recommended for use with expanded polystyrene foam insulation. Can be used with 1/2", 5/8" and 3/4" RAUPEX pipe. Can be installed with screw clip ratchet tool (Art. 260886). See Installation Tools section.



### Nylon Pipe Ties

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
724448	Nylon Pipe Ties	1000	1.43	0.003	1 bag

Non-abrasive nylon pipe ties safely secure pipe directly to slab reinforcing bars or wire mesh. Ties are 8" long and rated at 50 lbs tensile strength.



### Locking Clips

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
261496 <sup>+</sup>	3/8" Locking Clips	100	4	0.01	1 bag
261556	1/2" Locking Clips	100	5	0.01	1 bag
261506 <sup>+</sup>	5/8" Locking Clips	100	6	0.01	1 bag
261516	3/4" Locking Clips	100	8	0.02	1 bag
261566	1" Locking Clips	50	11	0.03	1 bag
261576	1 1/4" Locking Clips	50	14	0.03	1 bag
261586	1 1/2" Locking Clips	25	21	0.05	1 bag
261596	2" Locking Clips	25	30	0.07	1 bag

<sup>+</sup> This item is not stocked. Lead times may vary.

Locking clips allow for rapid installation of RAUPEX pipe. Larger clips (1" to 2") are for use with RAUPEX pipe or copper manifolds. Locking clips attach to surface with a screw or nail (not included). RAUPEX pipe or manifold snaps in place when pushed into clip and can be removed without damaging clip.



### Talon Drive Hooks and Low Profile Talons

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
260866	Twin Talon Drive Hooks	100	6	0.01	1 bag
260846	Low Profile 3/8" Talons	100	4	0.01	1 bag
261766	Low Profile 1/2" Talons	100	4	0.01	1 bag
261776	Low Profile 5/8" and 3/4" Talons	50	6	0.01	1 bag
261806	Low Profile 1" Talons	50	10	0.02	1 bag

Talon drive hooks safely secure 3/8", 1/2", 5/8", 3/4" or 1" pipe to wood subfloors, joists or in joist cavities. Low profile talons secure pipe in sizes indicated and are ideal for use with wooden "sleeper" RFH installations. Pre-installed barbed nail prevents backout.



### Single Nail Clamps

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Bag	Box	g	lb	
261746+	Single Nail Clamp for 3/8" and 1/2" Pipe	100	1500	4	0.01	1 bag
261756+	Single Nail Clamp for 3/4" Pipe	100	1000	5	0.01	1 bag

+ This item is not stocked. Lead times may vary.  
Completely encircles pipe. Pre-installed barbed nail prevents breakout.



### Plastic Pipe Clamps

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Bag	Box	g	lb	
282401	1 1/4" Plastic Pipe Clamp	50	800	16	0.04	1 bag
282411+	1 1/2" Plastic Pipe Clamp	25	600	20	0.05	1 bag
282421	2" Plastic Pipe Clamp	25	300	32	0.07	1 bag

+ This item is not stocked. Lead times may vary.  
Secures RAUPEX pipe to both wood and metal framework.



### Isolating Suspension Clamps

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Bag	Box	g	lb	
282431+	1 1/4" Isolating Suspension Clamp	50	800	15	0.03	1 bag
282441	1 1/2" Isolating Suspension Clamp	25	600	28	0.04	1 bag
282451	2" Isolating Suspension Clamp	25	300	23	0.05	1 bag

+ This item is not stocked. Lead times may vary.  
Secures RAUPEX pipe to both wood and metal framework.



### Heat Transfer Plates, Heavy Gauge

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
235962	Heat Transfer Plate, Heavy Gauge for 3/8" RAUPEX	20 pcs/carton	495	1.09	1 carton
235972	Heat Transfer Plate, Heavy Gauge for 1/2" RAUPEX	20 pcs/carton	509	1.12	1 carton

These heavy-duty extruded aluminum heat transfer plates are used in joist space installations to maximize heat transfer and improve efficiency. The unique design allows the heat transfer plates to be screwed into the joist space and RAUPEX pipe to snap into the plates for convenient installation. Plates are 3.5" (8.9 cm) wide by 48" (121.9 cm) long. With pre-drilled 1/8" holes for ease of installation.



### Heat Transfer Plates, Light Gauge

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
270700	Heat Transfer Plate, Light Gauge for 3/8" RAUPEX	100 pcs/carton	110	0.25	1 carton
270701	Heat Transfer Plate, Light Gauge for 1/2" RAUPEX	100 pcs/carton	110	0.25	1 carton

Aluminum heat transfer plates are used in joist space installations to enhance heat transfer and improve efficiency. RAUPEX pipes snap into plates for convenient installation. Plates are 5" wide (12.7 cm) by 24" (61 cm) long with roll-formed edges to increase rigidity and safety.

# 16.

# INSTALLATION TOOLS



## EVERLOC Standard Tool Kit

Article No.	Description	Package	Unit Weight		Minimum Order
		Quantity	kg	lb	
261216	EVERLOC Standard Tool Kit	1	7.6	16.7	1

The EVERLOC standard tool kit is specifically designed for assembling 1/2" and 3/4" EVERLOC fittings. With the addition of 3/8", 5/8", 1" and 1 1/4" expander heads (sold separately) and 1" and 1 1/4" VERSALOC® jaws (sold separately) this tool kit can assemble all sizes of EVERLOC 3/8" to 1 1/4". EVERLOC standard tool kit comes complete with the following:

- RAUPEX pipe expander (Art. 139592)
- 1/2" and 3/4" expander heads (Art. 261866 and 261886)
- COMBOLOC® combination expansion/compression tool (Art. 243107)
- VERSALOC manual compression tool (Art. 243737)
- 4-in-1 VERSALOC jaws set (Art. 243767)
- RAUCUTTER (Art. 137495)
- Tool box (Art. 261206)
- Grease and brush pack for expander maintenance



## EVERLOC Deluxe Tool Kit

Article No.	Description	Package	Unit Weight		Minimum Order
		Quantity	kg	lb	
261256	EVERLOC Deluxe Tool Kit	1	10.4	22.9	1

The EVERLOC deluxe tool kit is specifically designed for assembling 1/2", 3/4" and 1" EVERLOC fittings. With the addition of 3/8", 5/8" and 1 1/4" heads (sold separately) and 1 1/4" VERSALOC jaws (sold separately) this tool kit can assemble all sizes of EVERLOC 3/8" to 1 1/4". EVERLOC deluxe tool kit comes complete with the following:

- RAUPEX pipe expander (Art. 139592)
- 1/2", 3/4" and 1" expander heads (Art. 261866, 261886 and 261896)
- COMBOLOC combination expansion/compression tool (Art. 243107)
- VERSALOC manual compression tool (Art. 243737)
- 4-in-1 VERSALOC jaws (set) and 1" VERSALOC jaws (Art. 243767 and 243787)
- RAUCUTTER (Art. 137495)
- Ratchet cutter for 1 1/2" RAUPEX (Art. 138062)
- Tool box (Art. 261206)
- Grease and brush pack for expander maintenance



## VERSALOC Compression Tool

Article No.	Description	Package	Unit Weight		Minimum Order
		Quantity	kg	lb	
243737	VERSALOC Compression Tool	1	1.09	2.4	1

The VERSALOC compression tool easily compresses EVERLOC sleeves onto EVERLOC fittings up to 1 1/4" for a reliable connection. Ideal for all types of installation applications including joist cavities and other tight spaces. The VERSALOC compression tool is used with interchangeable VERSALOC jaws (jaws sold separately).



### VERSALOC Compression Jaws

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
243767	4-in-1 VERSALOC Jaws (Set)	1 set of 2	0.37	0.8	1 set
243787	1" VERSALOC Jaws (Set)	1 set of 2	0.68	1.5	1 set
243797	1 1/4" VERSALOC Jaws (Set)	1 set of 2	0.77	1.6	1 set

4-in-1 VERSALOC compression jaws are used with the VERSALOC compression tool to compress EVERLOC fittings in sizes 3/8", 1/2", 5/8" and 3/4". The lower cavity works with 3/8" and 1/2" EVERLOC fittings while the upper cavity works with 5/8" and 3/4". The 4-in-1 jaws reduce switching of jaws for common fitting sizes.



### Combination Screw Drive Tool, 3/8" through 3/4"

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
261296	3/8"-3/4" EVERLOC Combination Screw Drive Tool	1	1.27	2.79	1

Especially for hydronic baseboard installations this compact tool is ideal for the assembly of the EVERLOC fittings in tight locations, where a flush compression tool is required. This compression tool is an alternative to the VERSALOC compression tool.

This tool uses an 11/16" socket or wrench (not included) to drive the screw-drive threaded mechanism. The combination tool has dual cavities: the upper cavity compresses 5/8" and 3/4" fittings while the lower cavity compresses 3/8" and 1/2" fittings.



### RAUPEX Pipe Expander

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
139592	RAUPEX Pipe Expander	1	1.40	3.2	1

Expands RAUPEX pipe quickly and easily to assemble EVERLOC fittings. Includes grease and brush pack for expander tool maintenance. Expander heads sold separately.



### Expander Heads

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
261856	3/8" Expander Head	1	0.15	0.32	1
261866	1/2" Expander Head	1	0.15	0.32	1
261876	5/8" Expander Head	1	0.16	0.35	1
261886	3/4" Expander Head	1	0.16	0.35	1
261896	1" Expander Head	1	0.18	0.39	1
235417	1 1/4" Expander Head	1	0.20	0.45	1

Expander heads come in six sizes to expand RAUPEX pipe. For use with RAUPEX pipe expander (Art. 139592).



### COMBOLOC Combination Expansion/Compression Tool

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
243107	COMBOLOC Combination Expansion/Compression Tool	1	1.09	2.4	1

The COMBOLOC tool combines both expansion and compression capabilities for 3/8" and 1/2" EVERLOC fittings in one compact tool that fits into tight areas. The COMBOLOC tool will fit flat against a wall or floor. The COMBOLOC tool can expand all sizes of RAUPEX pipe up to 1" and compress EVERLOC fittings sizes 3/8" and 1/2". Expander heads sold separately.



### RAUPEX Cutters

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
137495	RAUCUTTER for up to 1" RAUPEX	1	0.17	0.38	1
138062	Ratchet Cutter for up to 1 1/2" RAUPEX	1	0.41	0.90	1
139092	Large Ratchet Cutter for up to 2" RAUPEX	1	1.18	2.60	1

It is important to use a proper cutter when cutting RAUPEX pipes. RAUPEX cutters provide clean, square and accurate cutting of RAUPEX pipes in sizes indicated.



### EVERLOC H2 Hydraulic Tool Kit

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
235407	EVERLOC H2 Hydraulic Tool Kit	1	33.2	73.1	1

The EVERLOC H2 tool kit is specifically designed for assembling 1 1/2" and 2" EVERLOC fittings onto RAUPEX pipes. This powerful hydraulic tool uses a foot-pump, a 10-foot (3 m) hydraulic hose with quick-release fittings and an actuating head that is used for both expansion and compression steps. Follow all included safety warnings about safe use of this tool. With additional accessories, the H2 hydraulic tool can also be used for assembling metric EVERLOC fittings in sizes 63-110 mm (see REHAU's INSULPEX Program).

The H2 hydraulic tool kit comes complete with the following:

- Aluminum case, hydraulic foot pump and head
- Large ratchet cutter for up to 2" RAUPEX (Art. 139092)
- Pins, 2 short and 2 long (Art. 137914)
- 1 1/2" expander head (Art. 235427)
- 2" expander head (Art. 235437)
- 1 1/2" compression jaws (Art. 137964-002)
- 2" compression jaws (Art. 235497)

\*(Art. 235467-001 and 235477-001 are replacement parts sold separately)



### E/G1 Electric Hydraulic Tool Kit

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
298506-001	EVERLOC E/G1 Electric Hydraulic Tool Kit	1	33.2	73.1	1

This powerful hydraulic tool uses an electric hydraulic pump, a 10-foot (3 m) hydraulic hose with quick-release fittings and an actuating head that is used for both expansion and compression steps. Follow all included safety warnings about safe use of this tool. With additional accessories, the E/G1 electric hydraulic tool can also be used for assembling metric compression-sleeve fittings in sizes 63-110 mm (see REHAU's INSULPEX Program).

The E/G1 tool kit comes complete with the following:

- Aluminum case and head
- Locking pins, 2 short and 2 long (Art. 137914)
- Hydraulic hose and signal cable w/ quick connect fitting and adapter coupling
- Electric hydraulic pump (137924-002)
- 15 amp plug
- 2" Ratchet cutter (Art. 139092)
- Deburring tool (Art. 235387)
- 1 1/2" expander head (Art. 235427)
- 2" expander head (Art. 235437)
- 1 1/2" compression jaws (Art. 137964-002)
- 2" compression jaws (Art. 235497)



### 110V Electric Hydraulic Pump, E/G1

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
137924-002	110V Electric Hydraulic Pump, E/G1	1	8.48	18.7	1

The electric hydraulic pump can be used instead of hydraulic foot pump and includes the following:

- Hydraulic hose with quick connect fitting and adapter coupling (Art. 235477-001)
- Electric hydraulic pump
- Signal cable



### Screw Clip Ratchet Tool

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
260886	Screw Clip Ratchet Tool	1	0.91	2.0	1

Screw clip ratchet tool quickly attaches insulation screw clips from a standing position. (Art. 260836, see Installation Accessories section).



## RAUTACKER

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
266177	RAUTACKER Stapler Tool	1	2.70	6.00	1
266187	RAUTACK Foam Staple (1 1/2" long)	300	0.0012	0.003	1 box
266197	RAUTACK Foam Staple (2 1/4" long)	300	0.0015	0.003	1 box

For use with RAUPEX pipe to install on rigid foam board insulation (extruded polystyrene is recommended). RAUTACK foam staples work with 3/8", 1/2", 5/8" and 3/4" RAUPEX pipes installed in RFH and SIM applications. The 1 1/2" staple is for use with minimum 1" (25 mm) thick insulation. The 2 1/4" staple is for use with minimum 1 1/2" (38 mm) thick insulation. Staples are strong enough so that typically only one staple is required every three feet (90 cm) on straight runs of pipe, with one staple in the middle of bends.

The RAUTACK foam staple is installed from a standing position using RAUTACKER. This lightweight tool can be loaded with 120 staples at a time, minimizing time to reload.



## Hand Power (HP) Stapler

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
266287-001	Hand Power (HP) Stapler Tool	1	2.5	5.5	1
266297	Hand Power (HP) Plastic Staple (1 1/2" long)	500	2.2	4.8	1 box

For use with RAUPEX pipe to install on wooden subfloor systems. The lightweight HP stapler tool installs special plastic staples with integral steel nail without the use of air power or electricity. Strong HP plastic staples work with 3/8", 1/2" and 5/8" RAUPEX pipe installed in RFH applications. HP plastic staples are installed from a standing position by pushing quickly on the handle of the HP stapler tool. The tool can be loaded with 80 staples at a time, minimizing the time required to reload. T-handle reduces effort and increases stability.



## Pneumatic Stapler

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
261016	Pneumatic Stapler	1	5.0	11.0	1
261016-STP	1 1/4" Staples for use with Pneumatic Stapler	10,000	3.2	7.0	1 box

This professional quality air tool quickly and securely fastens RAUPEX pipe to a wooden subfloor. For use with 3/8", 1/2" and 5/8" RAUPEX pipe, it comes complete with pogo stick extension arm so it can be used from a standing position. Special design prevents firing until tool head is securely around pipe. Use only the Senco staples (Art. 261016-STP, P15BAB) listed above or equal; 1" crown, 1 1/4" leg, 16 gauge chisel point. Follow all included safety warnings for safe use.



## Staple Clip Gun

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
266117	Staple Clip Gun	1	0.58	1.30	1
266127	3/8" Flush Mount Staple Clips	100	0.03	0.06	1 bag
266137	1/2" Flush Mount Staple Clips	100	0.03	0.06	1 bag
266147	5/8" Flush Mount Staple Clips	100	0.03	0.06	1 bag
266157	3/4" Flush Mount Staple Clips	100	0.03	0.06	1 bag

For fast installation of RAUPEX pipe onto a wood surface. Hand-powered staple clip gun shoots plastic clips with steel staple inserts. Clips hold the pipe away from the surface. All sizes of clips are installed with the same gun. Follow all included safety warnings for safe use.



### Pressure Tester

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
257334	Air Pressure Tester	1	0.5	1.0	1

Air pressure tester threads into the 1" isolation valve on a PRO-BALANCE or brass HLV manifold and connects to an air hose (Schrader valve included). Tester includes a pressure gauge that reads from 0-200 psi. Follow all published pressure testing instructions for RAUPEX piping systems.



### Infrared Thermometer

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
261696-001+	IR Thermometer	1	27.2	0.06	1

+ This item is not stocked. Lead time approximately 1 week.

Non-contact infrared thermometer can be used to measure temperatures of heated or unheated floors, indoor building surfaces, heating system components (including pipes and manifolds). Includes 2 AAA batteries and provides up to 130 hours of continuous use.



### RAUPEX Uncoiler

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
282191	RAUPEX Uncoiler	1	40.8	90.0	1

Uncoiler dispenses RAUPEX pipe without twists or kinks. Pneumatic tires allow easy transportation over rough terrain. Pipe can be drawn off either vertically (as shown) or horizontally. Capable of holding up to 1,000 feet of 3/4" PEX. Less than 30" wide to get through doorways. Removable spool allows for convenient transportation to job sites.



### RAUPEX Portable Uncoiler

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
282171-001+	RAUPEX Portable Uncoiler	1	22.7	50	1

+ This item is not stocked. Lead time approximately 1 week.

RAUPEX portable uncoiler is used for running RAUPEX piping in radiant applications. The turntable supports a full coil of RAUPEX pipe and eyelet loop opens for easy feeding and removal of piping from uncoiler unit. The included steel reinforced plastic case (measuring 40" x 17" x 5") serves as the unit's base for easy portability. Accommodates 1000 ft coil of 3/8" to 1/2" or 500 ft coil of 5/8" to 1" RAUPEX pipe.





### Dual Sensing Dial Thermostat

Article No.	Description	Package	Unit Weight		Minimum Order
		Quantity	g	lb	
236477-001	Dial Thermostat	1	84	0.185	1
236497-001	10K Floor Sensor (9.8 ft / 3m)	1	58	0.127	1

The display on this 3-wire thermostat is a simple easy-to-use dial with a red LED that is lit when there is a call for heat. With the optional floor sensor, this thermostat can regulate either the floor or the room temperature or both in which case the floor sensor is used as a temperature limiter, either high or low limit. This thermostat also comes with both °F and °C dials.

This thermostat has a 4x DIP switch which allows for limited programming and system configuration. This includes setting high and low floor temperature limits and allowing the thermostat to operate as a simple on/off switch or with PWM anticipation logic.

This thermostat can directly control up to 4 manifold valve actuators (Art. 260166), either independently or when used with REHAU electronic controls. The thermostat may also be used to control relays and other low voltage controls. This thermostat uses silent operation electronic triac output. 18 AWG or similar wire is recommended for all 24VAC wiring.

#### Notes:

- Floor / slab sensor requires 2 additional wires
- Daily programming is not offered on this thermostat



### Dual Sensing Digital Thermostat

Article No.	Description	Package	Unit Weight		Minimum Order
		Quantity	g	lb	
236487-001	Digital Thermostat	1	97	0.213	1

This 3-wire thermostat offers system set-up capabilities with simple, easy-to-use menus. There is a reduced operating mode which may be used for nighttime and vacation periods. With the optional floor sensor this thermostat can regulate either the floor or the room temperature or both. In that case the floor sensor is used as a temperature limiter, either high or low limit. Additional features include pump exercise, °F or °C capabilities and air/floor priority.

This thermostat can directly control up to 4 manifold valve actuators (Art. 260166), either independently or when used with REHAU electronic controls. Thermostat may also be used to control relays and other low voltage controls. This thermostat uses silent operation electronic triac output. 18 AWG or similar wire is recommended for all 24VAC wiring.

#### Notes:

- Floor / slab sensor requires 2 additional wires
- Daily programming is not offered on this thermostat



## Programmable Digital Thermostat

Article No.	Description	Package	Unit Weight		Minimum Order
		Quantity	g	lb	
236467	PD 2 Heat/Cool or Two-Stage Heat Thermostat	1	250	0.54	1

PD2 is a 4-wire 24V programmable digital thermostat intended for either two-stage heating or one-stage heat/cool with auto-changeover applications. This thermostat can be wired to control a relay, manifold valve actuator or other REHAU electronic controls.

In addition to the built-in air sensor, a floor sensor (Art. 236397) can be added for floor warming applications or to help limit (maximum and/or minimum) the floor temperature. This is ideal in tiled areas such as bathrooms, or to protect solid hardwood floors from overheating. (Example: minimum sub-floor temperature of 75°F for a tile floor; maximum sub-floor temperature of 85°F for a solid hardwood floor). With the floor sensor, each thermostat can control the ambient air temperature, the floor temperature, or both. Floor sensor sold separately.

This thermostat allows for up to two external sensors, which could include the floor sensor. Auxiliary universal sensors (Art. 236217) can also be used to measure air temperature in additional locations to get an average temperature for large areas, or an auxiliary outdoor temperature sensor (Art. 236207) can be used to display the outdoor and/or a remote temperature.

4-wire conductor cable should be run to thermostat. 18 AWG or similar wire is recommended for all 24VAC wiring. Sensor wiring should be run separately.

Note: Floor / slab sensor requires additional 2 wires.

Programming features:

- Programmable for 7-day or 24-hour schedules
- Programmable for 2 to 4 temperatures per day
- 3-hour temporary override feature
- "Away" override for periods of extended absence
- Programs do not need to be reset after power outages

Specifications:

Power supply:	24V +/-10%, 60Hz, 3VA
Relays:	24VAC, 2A relay outputs
Inputs:	Two auxiliary sensor inputs (optional)
Ambient conditions:	Indoor use only, 32°F to 122°F (0°C to 50°C)
Enclosure:	White PVC plastic
Dimensions:	2 7/8" H x 2 7/8" W x 13/16" D (7.3 x 7.3 x 2.1 cm)



## Accessories for Digital Thermostats

Article No.	Description	Package	Unit Weight		Minimum Order
		Quantity	g	lb	
236387	Mounting Adapter Plate for PD2	1	60	0.13	1
236397	Floor Sensor for PD2 Thermostat	1	40	0.08	1

The Mounting adapter plate (Art. 236387) allows for installation of PD2 programmable digital thermostats (Art. 236467) onto a standard 2"x 4" electrical box. The Mounting adapter plate can be mounted vertically or horizontally and is designed to allow wiring to feed through in any position. Surface painted (white) screws for mounting to the 2"x 4" electrical box and screws to mount the thermostat to the mounting adapter plate are included.

The floor sensor (Art. 236397) can be used with PD2 programmable digital thermostats (Art. 236467) for floor warming applications and/or to help limit (maximum and/or minimum) floor temperatures. Sensor is completely encased in a protective jacket and can be encased in concrete (it is recommended to slide sensor through a short protective conduit where the wires enter / exit the concrete or gypsum cement). Sensor comes with 10 ft (3 m) of 2-conductor wire.

# 18.

# ELECTRONIC CONTROLS



## Zone Control Module

Article No.	Description	Package	Unit Weight		Minimum Order
		Quantity	kg	lb	
243047-001	Zone Control, 4 Zone Module	1	0.45	1.0	1

The zone control module provides a convenient low-voltage wiring panel for thermostats and manifold valve actuators. The zone control module is for use with REHAU thermostats (Art. 236477-001, 236487-001 and 236467) and manifold valve actuators (Art. 260166, 260167).

The zone control module may control up to four "zones" (thermostats), with up to eight actuators (maximum two per zone). Each zone has a terminal for end switch wires, provided on REHAU manifold valve actuators, to operate circulator pumps, boiler, etc. (through a separate low-voltage relay). For more than four zones (thermostats), additional modules can be connected using standard wire.

Features and specifications:

- LED indicator lights for power and actuation
- Neutral priority
- Screwless, push-button type terminal blocks for thermostat, actuator and power supply
- Overall dimensions approximately 3" H x 6" W x 1 1/2" D (7.6 cm x 15.0 cm x 3.2 cm)
- Plastic enclosure with knock-outs top / bottom
- Power supply: 24VAC
- Power draw: 1.2 VA nominal



## Deluxe Zone Valve Control – Wiring Junction Box with Transformer and Priority

Article No.	Description	Package	Unit Weight		Minimum Order
		Quantity	kg	lb	
281711-001	ZVC-404-EXP	1	0.45	1.0	1

Fully fuse protected and with two 40VA transformers, this junction box is feature rich with a priority switch for 4 zones, two end switches for pumps or boiler operations, a master/slave switch for the ganging together of multiple boxes for up to 20 zones. An extra set of dry contacts is also included. Two power port terminals are available and can be used with add-on power controls, which can add additional features, such as post purge, priority protection and universal timer/pump exercise. Pump relay not included.

Features and specifications:

- External LED indicator lights for power, thermostat and actuator
- Switchable priority
- Simplified wiring
- Add-on power controls
- Works with 2, 3 or 4-wire zone valves
- Fuse protected
- 100% factory tested
- Isolated end switch
- Extra set of dry contacts
- Steel enclosure with knock-outs top / bottom
- UL and CSA listed
- Overall dimensions approximately 12" W x 8" H x 3" D (28 cm x 18 cm x 7 cm)
- Power supply: 120VAC
- Power output: up to 80VAC



## Zone Pump Relay Control – Wiring Junction Box with Transformer and Priority

Article No.	Description	Package	Unit Weight		Minimum
		Quantity	kg	lb	Order
281721-001	SR-504-EXP	1	0.45	1.0	1

Fully fuse protected with 4 standard "ice-cube" snap out relays, this junction box is feature rich with a priority switch for 4 zones. There is a convenient 24VAC terminal available and a master / slave switch for the ganging together of multiple boxes for up to 20 zones. External LED indicator lights indicate system power and zone pump operation. Three power port terminals are available and can receive plug-in cards, which can add additional features, such as post purge, priority protection and universal timer/pump exercise. Controls up to 4 zone pumps.

Features and specifications:

- External LED indicator lights for power, thermostat and actuation
- Switchable priority
- Simplified wiring
- Add-on power controls
- Fuse protected
- 100% factory tested
- Isolated end switch
- UL and CSA listed
- Overall dimensions approximately 10" W x 7" H x 3" D (25 cm x 18 cm x 7 cm)
- Power supply: 120VAC
- Pump relay max. 7.2 amps (1/3 HP) at 120VAC



## Add-on Power Controls

Article No.	Description	Package	Unit Weight		Minimum
		Quantity	kg	lb	Order
281741-001	PC 702 – Outdoor Reset and 2 Stage Boiler	1	0.45	1.0	1
281751-001	PC 705 – Variable Speed Pump Injection Mixing Control	1	0.45	1.0	1

These plug-in controls are intended for use with REHAU ZVC-404-EXP (Art. 281711-001) and SR 504-EXP (Art. 281721-001) electronic controls. They both provide complete system control and monitoring by regulating the supply water temperature to a hydronic system based on outdoor temperature. Wiring is as simple as plugging the interface cable directly into any REHAU expandable (-EXP) control. By either controlling one boiler, two boilers or an injection pump, the PC 702 and 705 controls are an ideal way provide energy savings, system protection and increased comfort control.

PC 702 - Outdoor reset and 2 stage boiler is a microprocessor-based control designed to regulate supply water temperature from a one or two stage boiler system based on the outdoor temperature or domestic hot water requirements. Additional features include adjustable interstage delay setting, boiler staging using proportional-integral-derivative (PID) logic, optional boiler rotation and a domestic hot water demand output. The PC 702 continually adjusts the boiler differential. Standard functions include warm weather shut down, minimum boiler supply temperature setting and starting water temperature setting. The easy to use reset ratio calculation to set the relationship between outdoor temperature and supply water temperature (heating curve) provides optimum control and comfort.

PC 705 – Outdoor reset and variable speed pump injection mixing control is a microprocessor-based control designed to simultaneously control a boiler and the speed of an injection pump. Based on the outdoor temperature, the PC 705 continuously adjusts the boiler differential to optimize the firing cycles of the boiler, preventing large water temperature swings and increase the efficiency of the system. As the heating load increases, the mixing control speeds up the injection circulator as the load decreases it slows down the injection circulator. Standard functions include warm weather shut down, minimum boiler return temperature setting and starting water temperature setting. The easy to use reset ratio calculation to set the relationship between outdoor temperature and supply water temperature (heating curve) provides optimum control and comfort.

**PC 702 Specifications:**

Control:	Microprocessor PI control. This is not a safety (limit) control
Dimension:	4 3/4" H x 2 7/8" W x 1 7/8" D (92 mm x 70 mm x 48 mm)
Approvals:	CSA NRTL/C; meets ICES & FCC regulations for EMI/RFI
Ambient conditions:	Indoor use only
Power supply:	24VAC 3VA (powered by –EXP control)
Relays:	24V (ac) 5A, pilot duty 240VA
Sensors:	1 outdoor air and 1 supply water
Boiler start:	35° to 150°F (2° to 66°C)
Outdoor start:	35° to 85°F (2° to 29°C)
Boiler design:	70° to 220°F (21° to 104°C)
Outdoor design:	-60° to 32°F (-51° to 0°C)
Boiler minimum:	Off, 80° to 180°F (27° to 82°C)
Differential:	Auto, 2° to 42°F (1° to 24°C)
WWSD:	Off, 35° to 100°F (2° to 38°C)
Units:	°F or °C
DHW demand:	20 to 260V (ac) 2VA
Interstage delay:	0:30 to 4:00 minutes

**PC 705 Specifications:**

Control:	Microprocessor PID control. This is not a safety (limit) control
Dimension:	4 3/4" H x 2 7/8" W x 1 7/8" D (92 mm x 70 mm x 48 mm)
Approvals:	CSA CVS; meets ICES & FCC regulations for IMI/RFI
Ambient conditions:	Indoor use only
Power supply:	24VAC 3VA (powered by –EXP control)
Variable pump:	120V (ac) 1.8 A 1/2 hp, fuse 2.5 A 250V
Relays:	24V (ac) 5A, pilot duty 240VA
Sensors:	1 outdoor air and 1 supply water
Mix start:	35° to 150°F (2° to 66°C)
Outdoor start:	35° to 85°F (2° to 29°C)
Mix design:	70° to 220°F (21° to 104°C)
Outdoor design:	-60° to 32°F (-51° to 0°C)
Boiler minimum:	Off, 80° to 180°F (27° to 82°C)
WWSD:	Off, 35° to 100°F (2° to 38°C)
Units:	°F or °C



## Radiant Floor Heating (RFH) Controls

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
236307	Deluxe RFH/SIM Mixing Control	1	1.8	3.9	1
236327	Variable Speed Mixing Control	1	1.4	3.1	1

These microprocessor-based outdoor reset/mixing controls are designed to maximize the comfort and efficiency provided by a radiant floor heating (RFH) or other hydronic heating system.

The deluxe RFH/SIM mixing control is capable of providing both a reset boiler supply temperature and a reset RFH mixed supply temperature based on outdoor air temperature and a system reset curve(s), while also providing boiler protection to help prevent condensation of flue gases (for non-condensing boilers). Either a variable speed injection pump, or a floating action mixing valve can be used with the deluxe RFH/SIM mixing control.

In addition, this control is capable of controlling an indirect domestic hot water (DHW) tank and high temperature heating, such as baseboard or a fan coil. The deluxe RFH/SIM mixing control can operate up to five circulator pumps including: primary boiler loop, secondary (high-temperature) heating loop, secondary RFH (low temperature) heating loop, DHW pump and variable speed injection pump (when not using floating action output).

Deluxe RFH/SIM mixing control specifications:

Power supply:	120V +/- 10%, 50/60 Hz, 1300VA
Relays:	240VAC, 5A, 1/3 hp
Variable pump:	240VAC, 2.4 A, 1/6 hp, fuse T2.5A 250V
Demands:	20 to 260VAC, 2VA
Sensors included:	Outdoor sensor (Art. 236207) and two universal sensors (Art. 236217)
Enclosure:	Black PVC plastic
Dimensions:	6 5/8" H x 7 9/16" W x 2 13/16" D (17.0 x 19.3 x 7.2 cm)

The variable speed mixing control is an outdoor reset control designed to control the mixed supply water temperature to a RFH system. The variable speed mixing control operates a variable speed injection pump to regulate the supply water temperature while still protecting the boiler against flue gas condensation. This control also provides for boiler operation, primary pump operation and secondary pump operation.

Variable speed mixing control specifications:

Power supply:	120V +/- 10%, 50/60 Hz, 1300VA
Relays:	240VAC, 10A, 1/3 hp
Demands:	20 to 260VAC, 2VA
Sensors included:	Outdoor sensor (Art. 236207) and two universal sensors (Art. 236217)
Enclosure:	Black PVC plastic
Dimensions:	6 5/8" H x 7 9/16" W x 2 13/16" D (17.0 cm x 19.3 cm x 7.2 cm)



## Snow and Ice Melt (SIM) Control

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
236337	Automatic SIM Mixing Control	1	1.8	4.0	1

The automatic SIM mixing control is a microprocessor-based control designed to maximize the safety and efficiency provided by a hydronic snow and ice melt (SIM) system.

The automatic SIM mixing control is capable of providing snow and ice melting operation based on a remote start/stop module or an external melt demand signal. When the snow-ice sensor is used, the control can be run automatically, heating the SIM area when moisture is detected during freezing conditions. In typical use, melting operation continues until the sensor no longer detects moisture on its surface.

When the control is not in melting mode, the system can either be automatically shut down or can operate in an idle mode, maintaining the SIM area at a set idle temperature for faster response and improved safety. This saves energy when compared with SIM systems that are always kept at melting temperature.

The automatic SIM mixing control provides slab protection by limiting the maximum fluid temperature that is sent to the SIM area and by limiting the delta T between supply and return fluid temperatures. Both settings are adjustable by the installer. The control also provides boiler protection to help prevent condensation of flue gases (for non-condensing boilers), by controlling the minimum return fluid temperature.

Warm weather shut down turns off the control when the slab temperature and the outdoor air temperature exceed the set melting temperature by more than 2°F (1°C). Cold weather cut-off turns off the control when the outdoor temperature drops below a set temperature, beyond which SIM operation is unnecessary or impractical.

Either a variable speed injection pump or floating action mixing valve can be used with the automatic SIM mixing control, depending on the preferred mixing strategy. The automatic SIM mixing control can also operate a boiler that is dedicated to SIM operation.

Automatic SIM control specifications:

LCD display:	Can be set in °F or °C
Power supply:	115V +/- 10%, 50/60 Hz, 600VA
Relays:	230VAC, 5 A, 1/3 hp, pilot duty 24VA
Variable pump:	230VAC, 2.4A, 1/6 hp, fuse T2.5A 250V
Demands:	20 to 260VAC, 2VA
Enclosure:	Black PVC plastic
Dimensions:	6 5/8" H x 7 9/16" W x 2 13/16" D (17.0 cm x 19.3 cm x 7.2 cm)
For indoor use only:	32°F to 104°F (0°C to 40°C), < 90% RH non-condensing
Sensors included:	Outdoor sensor (Art. 236207); 3 of universal sensor
Sensors required:	Snow/ice sensor & socket kit or slab sensor (Art. 236227 or 236237)



## Electronic Accessories

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
236207	070 Outdoor Sensor	1	0.16	0.35	1
236227	072 Slab Sensor (20 ft / 6 m cable)	1	0.17	0.37	1
236237	073 Slab Sensor (40 ft / 12 m cable)	1	0.32	0.70	1
236297	R003P 24VAC Relay	9	0.13	0.29	1
236357*	090 Snow/Ice Sensor (65 ft / 19.8 m Jacketed Cable)	1	2.00	4.40	1
236367*	091 Snow/Ice Sensor Socket	1	0.82	1.80	1

\* This item is not stocked. Lead times may vary.

Electronic accessories can be used with mixing controls and/or digital thermostats as replacements and/or additional connections.

# 19.

# PRO-BALANCE MODULES



## PRO-BALANCE Mixing Module

Article No.	Description	Package	Unit Weight		Minimum Order
		Quantity	kg	lb	
281501-001	PRO-BALANCE Mixing Module	1	4.10	9	1

The REHAU PRO-BALANCE Mixing Module is intended for relatively small radiant heating applications using a fixed "set point" temperature supply. The module is designed to fit directly to the left or right of the REHAU PRO-BALANCE manifold. The supply temperature to the manifold may be adjusted gradually between 68°F and 158°F (20°C and 70°C), by means of temperature controlled injection valve. The injection valve has features that can limit the manual adjustment of the valve to prevent tampering and/or over-heating. The module pump would be typically energized by the room thermostat via a relay. The relay could be energized by the thermostat or via the end of the actuator of one of the REHAU electronic boxes.

Specifications:

- Max. acceptable working temperature: 176°F / 80°C
- Max. acceptable working pressure: 87 psi / 6 bar
- Pump: Grundfos UP 15-58-130 mm 1" BSPM connections.  
3 Speed-cast iron "SUPERBRUTE"  
Integral check valve  
115VAC, 2 pole, single phase  
Flow range: 0 - 17.5 U.S. GPM  
Head range: 0 - 19 ft

Features:

- Reduce installation complexity and time
- Substantial space savings



## PRO-BALANCE Pressure Differential Bypass Module

Article No.	Description	Package	Unit Weight		Minimum Order
		Quantity	kg	lb	
281541-001	PRO-BALANCE Pressure Differential Bypass Module	1	1.224	2.69	1

This modular accessory connects directly to PRO-BALANCE manifolds. Normally, a constant speed circulator is sized assuming that all circuits in a zone valve system may be open. The pressure differential bypass module provides a means to control the excess flow (velocity) that would otherwise occur when actuators close. Installation of this module onto the 1" PRO-BALANCE manifolds creates an automatically regulated flow path such that operating zone circuits do not see unnecessarily high flow.





## PRO-BALANCE Variable Speed Injection Mixing Module

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
281731-001*	PRO-BALANCE Variable Speed Mixing Module	1	8.4	18.5	1

\* This item is not stocked. Lead times may vary.

Used to supply design temperature water to the PRO-BALANCE or HLV manifolds. Capability up to 120,000 BTU/HR. Included is an electronic variable speed injection mixing control, variable speed pump and system circulator including air elimination valve into a single compact unit. Extremely versatile, the PRO-BALANCE variable speed mixing module is equipped to be set up as an outdoor reset control, a set point control or a delta T limiting control.

### Features:

- All in one injection piping, pumping, air elimination & control package
- Only 4 pipe connections required
- Plug-in low voltage connections
- Solid state microprocessor design
- Reduce installation complexity and time
- Substantial space savings
- Line cord included
- Bronze casing for open or closed systems
- Replaceable cartridge design
- Maintenance free, wet-rotor circulators
- 3 operation modes, outdoor reset, set point or delta T with limit
- Internal check valve
- Automatic pump exercise
- Adjustable reset ratio
- Warm weather shutdown
- Boiler control or enable setting
- Boiler protection sensor
- C° or F° Display
- Outdoor and 2 strap-on sensors included
- 120VAC power supply



### Modulating Mixing Valves

Article No.	Description	Cv	Package	Unit Weight		Minimum
			Quantity	kg	lb	
298006-001*	1/2" 3-way Modulating Mixing Valve	1.5	1	0.57	1.25	1
298016-001*	3/4" 3-way Modulating Mixing Valve	3.3	1	0.60	1.32	1
298026-001*	1 1/4" 4-way Modulating Mixing Valve	17.5	1	1.43	3.15	1

\* This item is not stocked. Lead times may vary.

REHAU modulating mixing valves are a powerful cost effective alternative for zone mixing with such features as outdoor reset, boiler return temperature protection and warm weather shut down (WWSD). An integral microprocessor-based control is built into the valve to which all wiring connections are made. The direct drive actuator modulates the valve to mix different rates of hot (boiler primary) water with the (secondary) return water allowing for virtually any water temperature to be supplied to the heating system. Working with outdoor reset and an adjustable reset ratio, the valve's maximum and minimum system supply temperature can be adjusted to support all types of jobs, including joist space (higher starting temperature) and traditional over-pour thermal mass. Size valve based on Cv rating for required demand. The power to the modulating mixing valve may be switched through an end switch (REHAU electronic controls); a thermostat for intermittent operation or the power source may be connected directly to the modulating mixing valve for continuous operation.

#### Features:

- Operates off constant power or relay end switch
- Simple DIP switch programming
- Ball valve design with high Cv (3-way only)
- Manual operation button
- Solid state microprocessor design
- Compact design
- Easy, one-handed actuator removal
- 125 psi shut-off pressure (3-way only)
- Plug-in low voltage connections
- Multi-status LED indicator lights
- Fail safe mode
- Sensors included

#### Outdoor reset features:

- Selectable maximum supply temperature [110°F, 130°F, 150°F or Off (43°C, 54°C, 66°C or Off)]
- Selectable minimal supply temperature [85°F (29°C), when max. supply temperature is set to 150°F (66°C) or Off]
- Adjustable minimum boiler return temperature [120°F, 135°F or Off (49°C, 57°C or Off)]
- Warm weather shutdown (WWSD) [70°F or Off (21°C or Off)]
- Adjustable heating curve (0.2 to 2.2 reset ratio)

#### Setpoint features:

- Adjustable setpoint dial [80°F to 180°F (27°C to 82°C)]
- Selectable 15°F (-9°C) setback
- Optional boiler protection [set at 135°F (57°C)]

#### Specifications:

Maximum operating pressure: 300 psi (2,100 kPa)  
 Fluid temperature range: 20°F to 240°F (-7°C to 115°C) @ 135°F (57°C) ambient  
 Ambient conditions: Indoor use only, <90% RH non-condensing  
 Service: Closed systems, hot and chill water up to 50% glycol  
 Seat leakage: Drop-tight close off  
 Power supply: 24VAC + 10% 50/60 Hz  
 Power consumption: 7.2 Watts, 0.3 Amps  
 Electrical rating: 24VAC, 60 Hz 0.4Amps.

Do not exceed number of valves per transformer rating.  
 (Example: Do not use more than 4 valves per 40VA transformer).

Sensors: NTC thermistor, 10KΩ @ 77°F (25°C + 2°C) β = 3892



### Thermostatic 3-Way Mixing Valves

Article No.	Size	Cv	Connection	Temperature	Range	Package	Unit Weight		Minimum
						Quantity	kg	lb	Order
234037	3/4"	1.9	NPT	85° to 160°F	(19° to 71°C)	1	0.54	1.2	1
234047*	3/4"	1.8	Compression	95° to 140°F	(35° to 60°C)	1	0.60	1.3	1
260068	1"	3.2	Compression	110° to 140°F	(43° to 60°C)	1	0.91	2.0	1

\* This item is not stocked. Lead times may vary.

Thermostatic mixing valves control supply water temperature for small-sized RFH systems. Sensing element is a wax/copper compound mounted within the valve body. Provides rapid stabilization of supply water temperature. Temperature is adjusted with the knob located at the top of the valve body. For feedback on temperature adjustments place a thermometer (Art. 260957, 260967) downstream of the valve. Compression-type fitting for copper distribution piping or NPT type for threaded pipe. Size valve based on Cv rating (GPM @ 1 psi pressure loss, 2.3 feet headloss).

Specifications:

- Maximum input temperature: 195°F (90°C)
- Regulated output temperature range: as listed
- Maximum working pressure: 145 psi (10 bar; 1 MPa)
- Regulation accuracy: +/- 3.6°F (2°C) at a minimum flow of 0.5 GPM (2 l/m)
- Material: brass body



### Control Motor for Mixing Valves up to 2"

Article No.	Description	Motor Speed	Package	Unit Weight		Minimum
			Quantity	kg	lb	Order
260526	62M Motor with End Switch for Valves up to 2"	100 sec	1	0.45	1.0	1

Use with brass and cast iron mixing valves 2" and smaller for motor operated control. The motor is controlled by REHAU outdoor reset/mixing controls. Operates on 24 Volt AC input provided through these controls. No additional installation kit is required. Built-in end switch is included. Manual override of mixing valve is possible by pressing and turning the knob. Be sure to adjust the motor speed setting on electronic mixing controls to 100 seconds.

Specifications:

- Ambient temperature range: 22°F to 130°F (-5°C to 55°C)
- Torque: 45 in. lbs
- Protection type: NEMA 1 (IP 40)
- Supply voltage: 24VAC, 50 - 60 Hz
- Power consumption: 6.5 VA (watts) when operating

## Brass Mixing Valves

Compact 3- or 4-way brass mixing valves are ideal for reliable control of RFH or SIM supply water temperature. Suitable for motor controlled RFH or SIM applications with series 62M control motor (Art. 260526). When choosing a 3- or 4-way mixing valve, size according to flow (Cv) and not pipe size, for more accurate mixing. This often means using a valve that is one size smaller than supply/return pipes.



### 3-Way Brass Mixing Valves

Article No.	Description	Cv	Package Quantity	Unit Weight		Minimum Order
				kg	lb	
260106	3/4" FPT 3-Way Brass Mixing Valve	7.3	1	0.7	1.5	1
260116	1" FPT 3-Way Brass Mixing Valve	14.0	1	1.0	2.2	1
260136	1 1/4" FPT 3-Way Brass Mixing Valve	21.0	1	1.1	2.4	1

Specifications:

- Maximum static pressure: 250 psi (10 bar)
- Maximum water temperature: 230°F (110°C)
- Maximum differential pressure drop: 25 psi (2 bar)
- Maximum torque: 10 in. lbs
- Material: brass valve body, stem and slider



### 4-Way Brass Mixing Valves

Article No.	Description	Cv	Package Quantity	Unit Weight		Minimum Order
				kg	lb	
260236	3/4" FPT 4-Way Brass Mixing Valve	7.3	1	0.7	1.6	1
260246	1" FPT 4-Way Brass Mixing Valve	14.0	1	1.1	2.4	1
260266	1 1/4" FPT 4-Way Brass Mixing Valve	21.0	1	1.2	2.6	1

Specifications:

- Maximum static pressure: 250 psi (10 bar)
- Maximum water temperature: 230°F (110°C)
- Maximum differential pressure drop: 25 psi (2 bar)
- Maximum torque: 10 in. lbs

## Cast Iron Mixing Valves

Durable 3- or 4-way cast iron mixing valves are ideal for reliable control of RFH or SIM supply water temperature for larger flow requirements. Suitable for motor controlled RFH or SIM applications with series 62M control motor (Art. 260526). When choosing a 3- or 4-way mixing valve, size according to flow (Cv) and not pipe size for more accurate mixing. This often means using a valve that is one size smaller than supply/return pipes. Cast iron valves are not to be used in open systems due to corrosion potential.



### 3-Way Cast Iron Mixing Valve

Article No.	Description	Cv	Package Quantity	Unit Weight		Minimum Order
				kg	lb	
260146*	1 1/2" FPT 3-Way CI Mixing Valve	35.0	1	2.5	5.5	1

\* This item is not stocked. Lead times may vary.

Specifications:

- Maximum static pressure: 125 psi (6 bar)
- Maximum water temperature: 230°F (110°C)
- Maximum differential pressure drop: 5 psi (30 kPa)
- Leakage in % of flow: mixing max. 1%, diverting 0.5%
- Material: cast iron valve body, stainless steel stem, brass slider



## 4-Way Cast Iron Mixing Valve

Article No.	Description	Cv	Package	Unit Weight		Minimum
			Quantity	kg	lb	Order
260276+	1 1/2" FPT 4-Way CI Mixing Valve	35.0	1	3.3	7.3	1

+ This item is not stocked. Lead times may vary.

### Specifications:

- Maximum static pressure: 125 psi (6 bar)
- Maximum water temperature: 230°F (110°C)
- Maximum differential pressure drop: 5 psi (30 kPa)
- Leakage in % of flow: 1.5%
- Material: cast iron valve body, stainless steel stem, brass slider



### Primary / Secondary Closely-Spaced Tee with Isolation Ball Valves

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
281781-001	1 1/4" x 3/4" Closely-Spaced Tee with Isolation Ball Valve	1	1.58	3.49	1
281791-001	1 1/4" x 1" Closely-Spaced Tee with Isolation Ball Valve	1	1.74	3.83	1

These valves are used to connect the secondary loop (mixed temperature side) to the primary (boiler) loop. The integral closely-spaced tee results in eliminating pressure differences in the region of the connections of the primary and secondary piping. This results in the hydraulic isolation (separation) of the primary and secondary systems and is a professional strategy for installation of hydronic systems. The isolation ball valve can be closed for system purging from the primary to the secondary side.



### Pressure Differential Bypass Valves

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
260517	1/2" C Female (Sweat) Pressure Bypass Valve	1	0.68	1.5	1
260527	3/4" C Female (Sweat) Pressure Bypass Valve	1	0.91	2.0	1
267987	1" MPT Pressure Bypass Valve	1	1.40	3.0	1

Pressure differential bypass valves divert excess flow when one circulator pump is used with multiple zones, reducing wear on the pump, avoiding noise problems in the control valves and allowing more stable temperature control. Applications include PRO-BALANCE manifolds using manifold valve actuators. Valves are pressure-adjustable. Connections (union ends) are to copper pipe for 1/2" and 3/4" valves. The 1" valve is supplied with 1" MPT union ends.



### Boiler Bypass Valves

Article No.	Description	Cv	Package Quantity	Unit Weight		Minimum Order
				kg	lb	
267417*	1" FPT Boiler Bypass Valve 140°F	10.5	1	1.5	3.3	1
267427*	1 1/4" FPT Boiler Bypass Valve 140°F	16.4	1	2.0	4.4	1
267437*	1 1/2" FPT Boiler Bypass Valve 140°F	20.0	1	2.4	5.3	1

\* This item is not stocked. Lead times may vary.

Designed to allow non-condensing boilers to reach their minimum operating temperature quickly to prevent cool return water temperatures. Necessary with non-condensing boilers that are supplying RFH or SIM systems through 3-way thermostatic mixing valves with no electric mixing provision for boiler minimum return protection. 140°F boiler bypass valves are to be installed on the boiler return.

Specifications:

- Maximum static pressure: 85 psi (6 bar)
- Maximum operating temperature: 230°F (110°C)
- Material: cast iron



### Thermometers

Thermometers are recommended in RFH/SIM supply and return pipes to monitor fluid temperatures.

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
260957	Thermometer with 1/2" MPT Well Fitting	1	0.09	0.20	1
260967	Thermometer with 3/4" Solder Well Fitting	1	0.11	0.24	1

REHAU immersion well thermometers have a 2 1/2" dial, reading from 50°F to 250°F (10°C to 120°C).



### Combination Temperature/Pressure Gauge

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
266417	Combination Temperature/Pressure Gauge	1	0.08	0.17	1

REHAU's combination temperature / pressure gauge has a 2 1/2" dial reading from 0-100 psi and 30°F to 240°F (-1°C to 115°C). 1/4" NPT back-mounted connection for installation in a pipe tee/fitting. The immersion gauge contacts the water directly to give the highest degree of temperature and pressure accuracy. For use in RFH and SIM applications.



### Heat Exchanger

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
266477	Heat Exchanger, 3/4" MPT Connections (100,000 BTU load)	1	1.50	3.3	1
266487	Heat Exchanger, 3/4" MPT Connections (150,000 BTU load)	1	2.4	5.3	1

Compact stainless steel heat exchanger for use in RFH and SIM projects. Applications include: RFH systems using a domestic hot water tank as the heat source to separate heating water from drinking water (check local codes), SIM systems using concentration of glycol (antifreeze) different than the rest of the hydronic system, pool heating, etc. CSA and UL approved. Can provide more than 100,000 BTU/hr, depending on temperatures and flow rates, has 1/4 - 20 studs for mounting.



# INSULPEX® ENERGY TRANSFER SYSTEMS

PRODUCT CATALOG

EFFECTIVE: JANUARY 1, 2010



# TABLE OF CONTENTS

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1. INSULPEX® O <sub>2</sub> Barrier Pipe .....	2.3
2. EVERLOC® Fittings .....	2.6
3. INSULPEX End Caps .....	2.12
4. Insulation Kits .....	2.14
5. INSULPEX Installation Tools and Accessories .....	2.16



For updates to this publication and the most current technical instructions, safety information and manufacturer's recommendations, visit [na.rehau.com/resourcecenter](http://na.rehau.com/resourcecenter)

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# 1.

# INSULPEX O<sub>2</sub> BARRIER PIPE

INSULPEX O<sub>2</sub> barrier pipe consists of RAUPEX® O<sub>2</sub> barrier PEXa pipe encased in closed-cell polyurethane (PUR) foam insulation, with a protective low-density polyethylene (PE) outer casing. RAUPEX O<sub>2</sub> barrier pipe is made of high-quality crosslinked polyethylene, manufactured using the high-pressure peroxide method (PEXa). RAUPEX O<sub>2</sub> barrier pipe has a co-extruded oxygen diffusion layer that complies with the requirements of DIN 4726. All pipes are produced in REHAU's ISO 9001 manufacturing facility.

Inch-sized carrier pipes (1" to 2") meet the requirements of ASTM F876, F877 and PPI TR-3. The size listed in the description is the nominal diameter according to ASTM F876. Inch-sized pipes are copper tube size SDR 9. Metric pipes (63 mm to 110 mm) meet the requirements of DIN 16892 and 16893. The size listed in the description is the nominal diameter in millimeters, according to DIN 16893. Metric pipes are SDR 11. Approximate dimension listed is the closest equivalent to inch-size pipe. Refer to INSULPEX Technical Manual (Art. 855.630) for pipe dimension details, capacities and temperature/pressure ratings.

Note: Minimum coil length for all diameters is 35 feet (10.7 m).



## One-Pipe System

Article #	Description	Maximum Coil Size		Unit Weight		Minimum Order
		ft	m	kg/m	lb/ft	
221227	1" INSULPEX O <sub>2</sub> Barrier Pipe	1220	371	1.19	0.8	35 ft
221237	1 1/4" INSULPEX O <sub>2</sub> Barrier Pipe	1220	371	1.31	0.9	35 ft
221247	1 1/2" INSULPEX O <sub>2</sub> Barrier Pipe	850	256	1.87	1.3	35 ft
221257	2" INSULPEX O <sub>2</sub> Barrier Pipe	850	256	2.16	1.5	35 ft
221317	63 mm INSULPEX O <sub>2</sub> Barrier Pipe (Approx. 2 1/2")	685	209	2.60	1.8	35 ft
221327	75 mm INSULPEX O <sub>2</sub> Barrier Pipe (Approx. 3")	475	145	3.39	2.3	35 ft
221337	90 mm INSULPEX O <sub>2</sub> Barrier Pipe (Approx. 3 1/2")	290	88	4.56	3.1	35 ft
221347	110 mm INSULPEX O <sub>2</sub> Barrier Pipe (Approx. 4")	290	88	5.69	3.8	35 ft
222677-001*	125 mm INSULPEX O <sub>2</sub> Barrier Pipe (Approx. 5")	130	40	6.20	4.16	39 ft

\* This item is not stocked. Lead times may vary.

One RAUPEX O<sub>2</sub> barrier pipe in the size listed, within PUR insulation and a PE casing.

## One-Pipe System –Straight Lengths

Article #	Description	Package Quantity		Unit Weight		Minimum Order
		ft	m	kg/m	lb/ft	
222687-001*	160 mm INSULPEX O <sub>2</sub> Barrier Pipe (Approx. 6")	39	12	5.66	3.82	39 ft

\* This item is not stocked. Lead times may vary.

One RAUPEX O<sub>2</sub> barrier pipe in the size listed, within PUR insulation and a PE casing.



### Two-Pipe System

Article #	Description	Maximum Coil Size		Unit Weight		Minimum Order
		ft	m	kg/m	lb/ft	
221377-002	(2) 1" INSULPEX O <sub>2</sub> Barrier Pipe	850	194	2.19	1.5	35 ft
221377-002300+	(2) 1" INSULPEX O <sub>2</sub> Barrier Pipe	300	194	2.19	1.5	300 ft
221387-002	(2) 1 1/4" INSULPEX O <sub>2</sub> Barrier Pipe	850	194	2.45	1.7	35 ft
221387-002300+	(2) 1 1/4" INSULPEX O <sub>2</sub> Barrier Pipe	300	194	2.45	1.7	300 ft
221397	(2) 1 1/2" INSULPEX O <sub>2</sub> Barrier Pipe	290	87	3.82	2.6	35 ft
221407	(2) 2" INSULPEX O <sub>2</sub> Barrier Pipe	130	39	5.03	3.4	35 ft
221427	(2) 63 mm INSULPEX O <sub>2</sub> Barrier Pipe (Approx. 2 1/2")	130	39	5.30	3.6	35 ft

+ This item is not stocked. Lead times may vary.

Two RAUPEX O<sub>2</sub> barrier pipes in the size listed, within PUR insulation and a PE casing.



### INSULPEX O<sub>2</sub> Barrier Pipe House Entry Bend One-Pipe System

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
240094-001+	63 mm INSULPEX O <sub>2</sub> Barrier House entry bend	1	6.50	14.3	1 box
240054-001+	75 mm INSULPEX O <sub>2</sub> Barrier House entry bend	1	8.47	18.6	1 box
240114-001+	90 mm INSULPEX O <sub>2</sub> Barrier House entry bend	1	11.40	25.1	1 box
240124-001+	110 mm INSULPEX O <sub>2</sub> Barrier House entry bend	1	14.23	31.4	1 box
222827-001+	125 mm INSULPEX O <sub>2</sub> Barrier House entry bend	1	16.03	35.3	1 box
222837-001+	160 mm INSULPEX O <sub>2</sub> Barrier House entry bend	1	25.37	55.9	1 box

+ This item is not stocked. Lead times may vary.



### INSULPEX O<sub>2</sub> Barrier Pipe House Entry Bend Two-Pipe System

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
243788-001+	(2) 63 mm INSULPEX O <sub>2</sub> Barrier House Entry Bend	1	13.20	29.10	1 box

+ This item is not stocked. Lead times may vary.

## Table of Pipe Diameters

Article #	Description	Casing		RAUPEX	
		Outer Diameter		Inside Pipe Diameter	
		in	mm	in	mm
221227	1" INSULPEX O <sub>2</sub> Barrier Pipe	3.6	91	0.88	22.2
221237	1 1/4" INSULPEX O <sub>2</sub> Barrier Pipe	3.6	91	1.07	27.2
221247	1 1/2" INSULPEX O <sub>2</sub> Barrier Pipe	4.4	111	1.26	32.1
221257	2" INSULPEX O <sub>2</sub> Barrier Pipe	4.4	111	1.65	42.0
221317	63 mm INSULPEX O <sub>2</sub> Barrier Pipe (Approx. 2 1/2")	5.0	126	2.04	51.7
221327	75 mm INSULPEX O <sub>2</sub> Barrier Pipe (Approx. 3")	5.6	162	2.43	61.8
221337	90 mm INSULPEX O <sub>2</sub> Barrier Pipe (Approx. 3 1/2")	6.4	162	2.92	74.1
221347	110 mm INSULPEX O <sub>2</sub> Barrier Pipe (Approx. 4")	6.4	162	3.56	90.5
222677-001	125 mm INSULPEX O <sub>2</sub> Barrier Pipe (Approx. 5")	7.2	182	4.00	102.0
222687-001	160 mm INSULPEX O <sub>2</sub> Barrier Pipe (Approx. 6")	9.8	250	5.20	131.0
221377-002	(2) 1" INSULPEX O <sub>2</sub> Barrier Pipe	4.4	111	0.88	22.2
221387-002	(2) 1 1/4" INSULPEX O <sub>2</sub> Barrier Pipe	4.4	111	1.07	27.2
221397	(2) 1 1/2" INSULPEX O <sub>2</sub> Barrier Pipe	6.4	162	1.26	32.1
221407	(2) 2" INSULPEX O <sub>2</sub> Barrier Pipe	7.2	182	1.65	42.0
221427	(2) 63 mm INSULPEX O <sub>2</sub> Barrier Pipe (Approx. 2 1/2")	7.2	182	2.04	51.7

Casing O.D. is the average outside diameter between the higher and the lower rib profiles.

## 2.

# EVERLOC FITTINGS

The EVERLOC compression-sleeve fitting system is a fast and reliable method of joining RAUPEX pipes as well as connecting RAUPEX to other pipes that are approved for use with EVERLOC with the use of an appropriate transition fitting. EVERLOC fittings and sleeves create dependable connections. These connections can be buried when protected using an appropriate insulation kit. Installation is easy with INSULPEX Installation Tools.

EVERLOC fittings up to 2" diameter meet the performance requirements of ASTM F877 and/or ASTM F2080. EVERLOC fittings are not certified for potable water applications.

### EVERLOC Sleeves

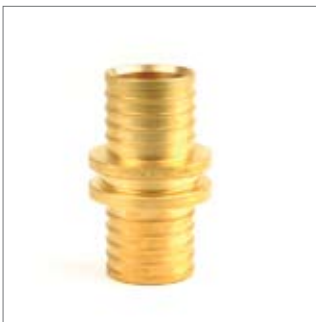


Article #	Description	Package	Unit Weight		Minimum
		Quantity	kg	lb	Order
260877	1" EVERLOC Sleeve	40	0.07	0.16	1 box
235507	1 1/4" EVERLOC Sleeve	25	0.12	0.26	1 box
235707	1 1/2" EVERLOC Sleeve	20	0.13	0.29	1 box
235907	2" EVERLOC Sleeve	10	0.25	0.54	1 box
138703	63 mm EVERLOC Sleeve	1	1.0	0.43	1 box
267671	75 mm EVERLOC Sleeve	1	1.1	0.49	1 box
267681	90 mm EVERLOC Sleeve	1	1.3	0.57	1 box
267691	110 mm EVERLOC Sleeve	1	1.4	0.62	1 box
235229-001*	125 mm EVERLOC Sleeve	1	4.50	9.92	1 box
234324-001*	160 mm EVERLOC Sleeve	1	5.50	12.13	1 box

\* This item is not stocked. Lead times may vary.

Tapered end installs towards EVERLOC fitting. Sizes 1" to 63 mm are brass. Sizes 75 mm to 160 mm are bronze.

### EVERLOC Couplings



Article #	Description	Package	Unit Weight		Minimum
		Quantity	kg	lb	Order
260427-101	1" x 1" EVERLOC Coupling	20	0.14	0.30	1 box
235527-101	1 1/4" x 1 1/4" EVERLOC Coupling	5	0.23	0.50	1 box
235727-101	1 1/2" x 1 1/2" EVERLOC Coupling	5	0.35	0.76	1 box
235927-101	2" x 2" EVERLOC Coupling	3	0.60	1.32	1 box
138843	63 mm x 63 mm EVERLOC Coupling	1	0.93	2.10	1 box
267611	75 mm x 75 mm EVERLOC Coupling	1	1.70	3.70	1 box
267621	90 mm x 90 mm EVERLOC Coupling	1	2.24	4.90	1 box
267631	110 mm x 110 mm EVERLOC Coupling	1	3.58	7.90	1 box
235219-001*	125 mm x 125 mm EVERLOC Coupling	1	9.92	4.50	1 box
234334-001*	160 mm x 160 mm EVERLOC Coupling	1	12.13	5.50	1 box

\* This item is not stocked. Lead times may vary.

EVERLOC couplings connect to RAUPEX pipe using INSULPEX installation tools. Sizes 1" to 63 mm are brass. Sizes 75 mm to 160 mm are bronze. Order EVERLOC sleeves separately. Not certified for potable water.

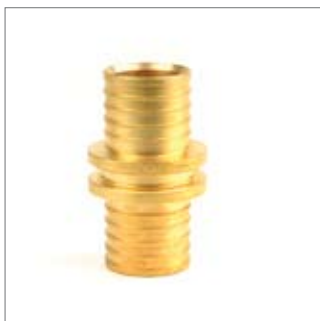


## EVERLOC Reducer Couplings

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
235517-101	1 1/4" EVERLOC x 1"	10	0.29	0.43	1 box
235717-101	1 1/2" EVERLOC x 1 1/4"	5	0.30	0.66	1 box
235737-101	1 1/2" EVERLOC x 1"	5	0.27	0.61	1 box
235917-101	2" EVERLOC x 1 1/2"	3	0.64	1.11	1 box
235937-101	2" EVERLOC x 1 1/4"	3	0.60	1.31	1 box
235947-101	2" EVERLOC x 1"	3	0.43	0.97	1 box
222217+	63 mm EVERLOC x 2"	1	1.00	2.20	1 box
267641	75 mm EVERLOC x 63 mm	1	1.40	3.10	1 box
267651+	90 mm EVERLOC x 75 mm	1	1.70	3.70	1 box
267661	110 mm EVERLOC x 90 mm	1	3.09	6.80	1 box

+ This item is not stocked. Lead times may vary.

EVERLOC couplings connect to RAUPEX pipe using INSULPEX installation tools. Sizes 1" to 63 mm are brass. Sizes 75 mm to 160 mm are bronze. Order EVERLOC sleeves separately.



## EVERLOC Copper Adapters

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
260417-101	1" EVERLOC x 1" C Male (Street) or 3/4" C Female (Sweat)	25	0.04	0.09	1 box
260947-101	1" EVERLOC x 1 1/4" C Male (Street) or 1" C Female (Sweat)	20	0.16	0.36	1 box
235567-101	1 1/4" EVERLOC x 1 1/4" C Male (Street) or 1" C Female (Sweat)	5	0.12	0.25	1 box
235577-101	1 1/4" EVERLOC x 1 1/2" C Male (Street) or 1 1/4" C Female (Sweat)	5	0.26	0.55	1 box
235767-101	1 1/2" EVERLOC x 1 1/2" C Male (street) or 1 1/4" C Female (Sweat)	5	0.30	0.71	1 box
235777-101	1 1/2" EVERLOC x 2" C Male (Street) or 1 1/2" C Female (Sweat)	5	0.51	1.12	1 box
235967-101	2" EVERLOC x 2" C Male (Street) or 1 1/2" C Female (Sweat)	5	0.62	1.42	1 box
235977-101	2" EVERLOC x 2 1/2" C Male (Street) or 2" C Female (Sweat)	3	0.80	1.76	1 box

Copper adapters connect RAUPEX pipe to copper pipe in sizes indicated. All of these copper adapters can be used as male (street) or female (sweat) fittings. Make solder connection before connecting to RAUPEX pipe. Fittings install using INSULPEX installation tools. Order EVERLOC sleeves separately.



## EVERLOC Dual MPT/Copper Adapters

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
260437-101	1" EVERLOC x 1" MPT or 3/4" C Female (Sweat)	15	0.19	0.43	1 box
235557-101	1 1/4" EVERLOC x 1 1/4" MPT or 1" C Female (Sweat)	5	0.25	0.55	1 box
235757-101	1 1/2" EVERLOC x 1 1/2" MPT or 1 1/4" C Female (Sweat)	5	0.53	1.11	1 box
235957-101	2" EVERLOC x 2" MPT or 1 1/2" C Female (Sweat)	3	0.89	1.95	1 box

Dual adapters connect RAUPEX pipe to either female threaded fittings (first size) or copper pipe (second size) in sizes indicated. Make threaded or solder connections before connecting to RAUPEX pipe. Order EVERLOC sleeves separately.



### Copper Adapters

Article No.	Description	Package Quantity			Unit Weight		Minimum Order
		Bag	Box	Carton	g	lb	
260467	1" RAUPEX x 1" C Female (Sweat)	1	10	60	274	0.60	1 bag

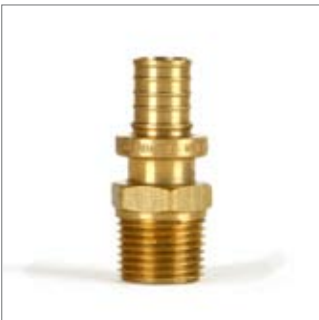
Copper adapter fittings connect RAUPEX pipe to copper pipe in sizes indicated. Make solder connection before connecting to RAUPEX pipe.



### Dual MPT/Copper Adapters

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
260477	1" RAUPEX x 1" MPT or 3/4" C Female (Sweat)	10	0.32	0.71	1 box
235157	63 mm EVERLOC x 2 1/2" MPT or 2" C Female (Sweat)	1	1.51	3.33	1 box

Dual adapter fittings connect RAUPEX pipe to threaded fitting (first size) or copper pipe (second size) in sizes indicated. Make solder or threaded connection before connecting to RAUPEX pipe.



### EVERLOC MPT/Copper Adapters

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
235147	63 mm EVERLOC x 2" MPT Adapter (Not Dual)	1	1.50	3.30	1 box
235167	75 mm EVERLOC x 3" MPT Adapter (Not Dual)	1	2.33	5.14	1 box
235177	90 mm EVERLOC x 3" MPT Adapter (Not Dual)	1	2.10	4.62	1 box
235187	110 mm EVERLOC x 4" MPT Adapter (Not Dual)	1	3.69	8.14	1 box

These adapters connect RAUPEX pipe to either female threaded fittings (first size) or copper pipe (second size) where listed. Sizes 2" to 63 mm are brass. Sizes 75 mm to 110 mm are bronze. Make threaded or solder connection before connecting to RAUPEX pipe. Fittings are installed using INSULPEX installation tools. Order EVERLOC sleeves separately.



### EVERLOC Plugs

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
260497-101	1" EVERLOC Plug	30	0.09	0.20	1 box
235267-101	1 1/4" EVERLOC Plug	20	0.10	0.22	1 box

Order EVERLOC sleeves separately.



### EVERLOC 90° Elbows

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
260717-101	1" EVERLOC x 1" EVERLOC	10	0.25	0.56	1 box
235597-101	1 1/4" EVERLOC x 1 1/4" EVERLOC	8	0.37	0.82	1 box
235797-101	1 1/2" EVERLOC x 1 1/2" EVERLOC	2	0.67	1.47	1 box
235997-101	2" EVERLOC x 2" EVERLOC	2	1.08	2.38	1 box
138943	63 mm EVERLOC x 63 mm EVERLOC	1	1.31	2.88	1 box
267751	75 mm EVERLOC x 75 mm EVERLOC	1	2.62	5.78	1 box
267761	90 mm EVERLOC x 90 mm EVERLOC	1	4.75	10.5	1 box
267771	110 mm EVERLOC x 110 mm EVERLOC	1	7.27	16.0	1 box

EVERLOC elbows connect to RAUPEX pipe using INSULPEX installation tools. Sizes 1" to 63 mm are brass. Sizes 75 mm to 110 mm are bronze. Order EVERLOC sleeves separately.



### EVERLOC Straight Tees

The following EVERLOC tees are hot-forged in brass for superior strength and durability.

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
260977-101	1" x 1" x 1" EVERLOC Tee	8	0.34	0.7	1 box
235607-101	1 1/4" x 1 1/4" X 1 1/4" EVERLOC Tee	5	0.51	1.12	1 box
235807-101	1 1/2" x 1 1/2" X 1 1/2" EVERLOC Tee	2	0.87	1.93	1 box
236007-101	2" x 2" x 2" EVERLOC Tee	1	1.39	3.08	1 box
244382	63 mm x 63 mm x 63 mm EVERLOC Tee	1	1.75	3.86	1 box
221946-001+	75 mm x 75 mm x 75 mm EVERLOC Tee	1	2.70	5.94	1 box
221948-001+	90 mm x 90 mm x 90 mm EVERLOC Tee	1	4.00	8.80	1 box
221953-001+	110 mm x 110 mm x 110 mm EVERLOC Tee	1	6.00	13.2	1 box

+ This item is not stocked. Lead times may vary.

These fittings connect to RAUPEX pipe using INSULPEX installation tools. Order EVERLOC sleeves separately.



### EVERLOC Branch Reducing Tees

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
235617-101	1 1/4" x 1 1/4" x 1" EVERLOC Tee	5	0.45	1.0	1 box
235627-101	1 1/4" x 3/4" x 3/4" EVERLOC Tee	5	0.42	0.9	1 box
235817-101	1 1/2" x 1 1/2" x 1 1/4" EVERLOC Tee	2	0.65	1.43	1 box
235827-101	1 1/2" x 1 1/2" x 1" EVERLOC Tee	2	0.69	1.53	1 box
236017-101	2" x 2" x 1 1/2" EVERLOC Tee	1	0.85	1.87	1 box
236027-101	2" x 2" x 1 1/4" EVERLOC Tee	1	1.18	2.60	1 box
236037-101	2" x 2" x 1" EVERLOC Tee	1	1.08	2.37	1 box
267781-001	63 mm x 63 mm x 75 mm EVERLOC Tee	1	2.70	5.6	1 box
221944-001	75 mm x 75 mm x 63 mm EVERLOC Tee	1	2.50	5.5	1 box
231346	90 mm x 90 mm x 63 mm EVERLOC Tee (Cast Bronze)	1	3.81	8.4	1 box
231366	110 mm x 110 mm x 63 mm EVERLOC Tee (Cast Bronze)	1	5.40	11.9	1 box

These brass fittings connect to RAUPEX pipe using INSULPEX installation tools. Order EVERLOC sleeves separately.





### EVERLOC Run Reducing Tees

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
235637-101	1 1/4" x 1" x 1 1/4" EVERLOC Tee	5	0.38	0.8	1 box
235837-101	1 1/2" x 1 1/4" x 1 1/2" EVERLOC Tee	2	0.79	1.8	1 box
235847-101	1 1/2" x 1" x 1 1/2" EVERLOC Tee	2	0.76	1.7	1 box
236047-101	2" x 1 1/2" x 2" EVERLOC Tee	1	0.93	2.2	1 box
236057-101	2" x 1 1/4" x 2" EVERLOC Tee	1	0.79	1.76	1 box

These fittings connect to RAUPEX pipe using INSULPEX installation tools. Order EVERLOC sleeves separately.



### EVERLOC Branch and Run Reducing Tees

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
235677-101	1 1/4" x 3/4" x 1" EVERLOC Tee	5	0.36	0.8	1 box
235887-101	1 1/2" x 3/4" x 1" EVERLOC Tee	2	0.59	1.3	1 box
235657-101	1 1/4" x 1" x 1" EVERLOC Tee	5	0.36	0.8	1 box
235857-101	1 1/2" x 1 1/4" x 1 1/4" EVERLOC Tee	5	0.69	1.5	1 box
235867-101	1 1/2" x 1 1/4" x 1" EVERLOC Tee	2	0.57	1.3	1 box
235877-101	1 1/2" x 1" x 1" EVERLOC Tee	2	0.59	1.3	1 box
236067-101	2" x 1 1/2" x 1 1/2" EVERLOC Tee	1	1.16	2.56	1 box
236077-101	2" x 1 1/2" x 1 1/4" EVERLOC Tee	1	0.70	1.54	1 box
236087-101	2" x 1 1/2" x 1" EVERLOC Tee	1	0.96	2.11	1 box
236097-101	2" x 1 1/4" x 1 1/4" EVERLOC Tee	1	0.99	2.19	1 box
221943-001+	75 mm x 63 mm x 63 mm EVERLOC Tee	1	2.5	5.5	1 box

+ This item is not stocked. Lead times may vary.

These fittings connect to RAUPEX pipe using INSULPEX installation tools. Order EVERLOC sleeves separately.



## EVERLOC Carbon Steel Welding Ends

EVERLOC steel welding ends can be used with standard steel welding tees to create custom EVERLOC tees. EVERLOC steel welding ends (carbon steel and stainless steel) are not stocked and require about 8 weeks for delivery.

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
221717	1" EVERLOC x NPS 3/4" Schedule 40 Carbon Steel Welding End	1	0.09	0.2	1 box
221727	1 1/4" EVERLOC x NPS 1" Schedule 40 Carbon Steel Welding End	1	0.16	0.4	1 box
221737	1 1/2" EVERLOC x NPS 1 1/4" Schedule 40 Carbon Steel Welding End	1	0.27	0.6	1 box
221747	2" EVERLOC x NPS 1 1/2" Schedule 40 Carbon Steel Welding End	1	0.39	0.9	1 box
221807	63 mm EVERLOC x NPS 2" Schedule 40 Carbon Steel Welding End	1	0.68	1.5	1 box
221817	75 mm EVERLOC x NPS 2 1/2" Schedule 40 Carbon Steel Welding End	1	1.04	2.3	1 box
221827	90 mm EVERLOC x NPS 3" Schedule 40 Carbon Steel Welding End	1	2.63	5.8	1 box
221837	110 mm EVERLOC x NPS 3 1/2" Schedule 40 Carbon Steel Welding End	1	3.86	8.5	1 box

Used for custom tee fabrication on closed systems with air removal devices and INSULPEX with RAUPEX O<sub>2</sub> barrier pipe. Order EVERLOC sleeves separately.



## EVERLOC Stainless Steel Welding Ends

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
221917+	1" EVERLOC x NPS 3/4" Schedule 40 Stainless Steel Welding End	1	0.09	0.2	1 box
221927+	1 1/4" EVERLOC x NPS 1" Schedule 40 Stainless Steel Welding End	1	0.16	0.5	1 box
221937+	1 1/2" EVERLOC x NPS 1 1/4" Schedule 40 Stainless Steel Welding End	1	0.27	0.6	1 box
221947+	2" EVERLOC x NPS 1 1/2" Schedule 40 Stainless Steel Welding End	1	0.39	0.9	1 box
222007+	63 mm EVERLOC x NPS 2" Schedule 40 Stainless Steel Welding End	1	0.68	1.5	1 box
222017+	75 mm EVERLOC x NPS 2 1/2" Schedule 40 Stainless Steel Welding End	1	1.04	2.3	1 box
222027+	90 mm EVERLOC x NPS 3" Schedule 40 Stainless Steel Welding End	1	2.63	5.8	1 box
222037+	110 mm EVERLOC x NPS 3 1/2" Schedule 40 Stainless Steel Welding End	1	3.86	8.5	1 box

+ This item is not stocked. Lead times may vary.

Used for custom tee fabrication on open systems such as continuous fresh or oxygenated water that could corrode ferrous components.

# 3.

# INSULPEX END CAPS

REHAU's installation accessories are designed to save time and enhance craftsmanship.

INSULPEX



## Heat Shrink End Cap, One-Pipe System

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
240263	1" INSULPEX Heat Shrink End Cap	1	0.10	0.22	1 box
240273	1 1/4" INSULPEX Heat Shrink End Cap	1	0.11	0.24	1 box
240273	1 1/2" INSULPEX Heat Shrink End Cap	1	0.11	0.24	1 box
240323	2" INSULPEX Heat Shrink End Cap	1	0.12	0.26	1 box
240323	63 mm INSULPEX Heat Shrink End Cap	1	0.12	0.26	1 box
240323	75 mm INSULPEX Heat Shrink End Cap	1	0.12	0.26	1 box
240283	90 mm INSULPEX Heat Shrink End Cap	1	0.14	0.31	1 box
240293	110 mm INSULPEX Heat Shrink End Cap	1	0.14	0.31	1 box
240293	125 mm INSULPEX Heat Shrink End Cap	1	0.14	0.31	1 box
298821-001*	160 mm INSULPEX Heat Shrink End Cap	1	0.50	1.10	1 box

\* This item is not stocked. Lead times may vary



## Heat Shrink End Cap, Two-Pipe System

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
240333	(2) 1" INSULPEX Heat Shrink End Cap	1	0.11	0.24	1 box
240333	(2) 1 1/4" INSULPEX Heat Shrink End Cap	1	0.11	0.24	1 box
240343	(2) 1 1/2" INSULPEX Heat Shrink End Cap	1	0.14	0.31	1 box
239061	(2) 2" INSULPEX Heat Shrink End Cap	1	0.14	0.31	1 box
239061*	(2) 63 mm INSULPEX Heat Shrink End Cap	1	0.14	0.31	1 box

\* This item is not stocked. Lead times may vary

Heat shrink end caps provide a watertight seal around the end of INSULPEX, sealing onto RAUPEX pipe and the PE casing to protect against water infiltration in buried applications. Heat shrink end caps include sandpaper for "roughing" surfaces of pipes. Follow installation instructions in the INSULPEX Installation Guide (855.631). \* Rubber cap, not shrinking.



## Slip-on End Cap, One-Pipe System

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
246989*	1" INSULPEX Slip-on End Cap	1	0.10	0.22	1 box
246989	1 1/4" INSULPEX Slip-on End Cap	1	0.11	0.24	1 box
242604	1 1/2" INSULPEX Slip-on End Cap	1	0.11	0.24	1 box
242604	2" INSULPEX Slip-on End Cap	1	0.12	0.26	1 box
242624	63 mm INSULPEX Slip-on End Cap	1	0.12	0.26	1 box
242644	75 mm INSULPEX Slip-on End Cap	1	0.12	0.26	1 box
242664	90 mm INSULPEX Slip-on End Cap	1	0.14	0.31	1 box
242674	110 mm INSULPEX Slip-on End Cap	1	0.14	0.31	1 box
288374-001*	125 mm INSULPEX Slip-on End Cap	1	0.50	1.10	1 box

\* This item is not stocked. Lead times may vary



### Slip-on End Cap, Two-Pipe System

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
242724	(2) 1" INSULPEX Slip-on End Cap	1	0.11	0.24	1 box
242724	(2) 1 1/4" INSULPEX Slip-on End Cap	1	0.11	0.24	1 box
242784	(2) 1 1/2" INSULPEX Slip-on End Cap	1	0.14	0.31	1 box
239091	(2) 2" INSULPEX Slip-on End Cap	1	0.14	0.31	1 box
239091	(2) 63 mm INSULPEX Slip-on End Cap	1	0.14	0.31	1 box

Slip-on end caps improve cosmetic appearance at ends of INSULPEX pipes inside a building or chamber. Slip-on end caps are not watertight, and are not certified for underground burial.



### Wall Sealing Rings

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
240363	91 mm I.D. Wall Sealing Ring (5.25" O.D.)	1	0.45	1.0	1 box
240373	111 mm I.D. Wall Sealing Ring (6.00" O.D.)	1	0.50	1.1	1 box
240383	126 mm I.D. Wall Sealing Ring (6.60" O.D.)	1	0.50	1.1	1 box
240403	162 mm I.D. Wall Sealing Ring (8.00" O.D.)	1	0.70	1.5	1 box
239101	182 mm I.D. Wall Sealing Ring (8.60" O.D.)	1	0.50	1.10	1 box
298818+	250 mm I.D. Wall Sealing Ring	1	0.64	1.41	1 box

+ This item is not stocked. Lead times may vary.

Neoprene wall sealing rings fit tightly over the INSULPEX casing, and are meant to be located at wall penetrations. Barbed design prevents pull out. Use the sizing chart in the INSULPEX Technical Manual (855.630) or from the pipe diameters chart located on page 2, to determine the correct wall sealing ring.

# 4.

# INSULATION KITS

Universal tee insulation kits are molded from polyethylene, with staggered ends that can be cut for use with various pipe diameters. Insulation is NOT included with these kits. Follow directions included with kit. Small universal insulation kit is for pipes with casing O.D. up to 126 mm. Large Universal Tee Insulation Kit is for pipes with casing O.D. up to 182 mm.

INSULPEX



### Universal Straight Coupling Insulation Kits – Generation I

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
243828	Small Universal Coupling Insulation Kit, for up to 142 mm O.D. INSULPEX pipe	1	1.60	3.5	1 box
243838	Large Universal Coupling Insulation Kit, for up to 182 mm O.D. INSULPEX pipe	1	3.10	6.8	1 box

Kits include three heat shrink sleeves for sealing around INSULPEX pipes.



### Small Universal Straight Coupling Insulation Kit – Generation II

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
351067-001	Small Universal Straight Coupling Insulation Kit, for up to 126 mm O.D. INSULPEX pipe	1	2.2	4.9	1 box

Order small diameter sealing rings separately per the outer diameter of the INSULPEX pipe.



### Small Universal Elbow Insulation Kits – Generation II

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
351068-001	Small Universal Elbow Coupling Insulation Kit, for up to 126 mm O.D. INSULPEX pipe	1	2.1	4.6	1 box

Order small diameter sealing rings separately per the outer diameter of the INSULPEX pipe.



### Small Universal Tee Insulation Kit – Generation II

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
297932-001	Small Universal Tee Insulation Kit, for up to 126 mm O.D. INSULPEX pipe	1	1.90	4.20	1 box
176282-050	Small Tee Shell Kit Plug (111 mm SR)	1	0.10	0.22	1 box

Order small diameter sealing rings separately per the outer diameter of the INSULPEX pipe.



### Small INSULPEX Sealing Rings, Small Diameter – Generation II

Article #	Description	Package		Unit Weight		Minimum Order
		Quantity		kg	lb	
297924-001	Small Insulation Kit Sealing Ring 91 mm	1	0.32	0.71	1.6	1 box
297927-001	Small Insulation Kit Sealing Ring 111 mm	1	0.22	0.49	1.1	1 box
297930-001	Small Insulation Kit Sealing Ring 126 mm	1	0.14	0.30	0.7	1 box

Order small diameter sealing rings separately per the outer diameter of the INSULPEX pipe.



### Large Universal Straight Coupling Insulation Kit – Generation II

Article #	Description	Package		Unit Weight		Minimum Order
		Quantity		kg	lb	
352038-001	Large Universal Straight Coupling Insulation Kit, for up to 182 mm O.D. INSULPEX pipe	1		4.5	9.9	1 box

Order small diameter sealing rings separately per the outer diameter of the INSULPEX pipe.



### Large Universal Elbow Insulation Kits – Generation II

Article #	Description	Package		Unit Weight		Minimum Order
		Quantity		kg	lb	
352039-001	Large Universal Elbow Coupling Insulation Kit, for up to 182 mm O.D. INSULPEX pipe	1		4.4	9.7	1 box

Order large diameter sealing rings separately per the outer diameter of the INSULPEX pipe.



### Large Universal Tee Insulation Kit – Generation II

Article #	Description	Package		Unit Weight		Minimum Order
		Quantity		kg	lb	
351054-001	Large Universal Tee Insulation Kit, for up to 182 mm O.D. INSULPEX pipe	1		3.60	7.9	1 box
176302-050	Large Tee Shell Kit Plug (162 mm SR)	1		0.27	0.60	1 box

Order large diameter sealing rings separately per the outer diameter of the INSULPEX pipe.



### INSULPEX Sealing Rings, Large Diameter

Article #	Description	Package		Unit Weight		Minimum Order
		Quantity		kg	lb	
351056-001	Large Insulation Kit Sealing Ring 91 mm	1		1.08	2.38	1 box
351057-001	Large Insulation Kit Sealing Ring 111 mm	1		1.03	2.26	1 box
351058-001	Large Insulation Kit Sealing Ring 126 mm	1		0.95	2.09	1 box
351061-001	Large Insulation Kit Sealing Ring 162 mm	1		0.85	1.88	1 box
351062-001	Large Insulation Kit Sealing Ring 182 mm	1		0.68	1.49	1 box

# 5.

# INSTALLATION TOOLS AND ACCESSORIES

Custom tools provide fast, easy, professional installations, and are required to assemble EVERLOC fittings. REHAU tools are made of quality materials and field-tested for long life and reliable performance. Tools are sold as complete kits or as individual components using the article numbers listed below.

INSULPEX



## INSULPEX Repair Tape

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
241002	INSULPEX Repair Tape	1	0.28	0.6	1 box

Waterproof, synthetic rubber adhesive tape can be used to repair the PE casing of INSULPEX pipe if it is damaged. Tape dimensions: 2" wide x 15' long (50 mm x 4.57 m). Do not apply tape to RAUPEX carrier pipe(s).

## INSULPEX Tool Kit, Small Diameter

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
243857	INSULPEX Tool Kit, Small Diameter	1	6.80	15.0	1 box

Specifically designed for assembling 1" and 1 1/4" EVERLOC fittings and is shipped in a plastic tool box. These lightweight, mechanical tools can easily reach into tight spaces. This tool kit includes the following items, which can also be purchased separately:

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
139592	RAUPEX Pipe Expander	1	1.40	3.2	1 box
261896	1" Expander Head	1	0.10	0.4	1 box
235417	1 1/4" Expander Head	1	0.20	0.5	1 box
243737	VERSALOC™ Compression Tool	1	1.09	2.4	1 box
243787	1" VERSALOC Jaws	1	0.68	1.5	1 box
243797	1 1/4" VERSALOC Jaws	1	0.77	1.6	1 box
138062	Ratchet Cutter for up to 1 1/2" RAUPEX	1	0.41	0.9	1 box
261206	Tool Case	1	0.91	2.0	1 box



## INSULPEX H2 Hydraulic Tool Kit

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
235407	EVERLOC H2 Hydraulic Tool Kit	1	33.15	73.1	1 box

Specifically designed for assembling EVERLOC fittings in sizes 1 1/2" to 110 mm. This powerful tool with a manual foot pump and a 10-foot hydraulic hose, can easily reach into tight spaces. Follow instructions and safety warnings included with the tool and in the INSULPEX Installation Guide. This tool kit includes items to assemble 1 1/2" and 2" EVERLOC Fittings. Additional accessories to make an EVERLOC connection for 63 mm to 110 mm are sold separately.

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
138132	Hydraulic Foot Pump	1	4.90	10.8	1 box
139382	Hydraulic Hose	1	1.50	3.3	1 box
137914	Tool Head and Locking Pins	1	3.20	7.0	1 box
235427	1 1/2" Expander Head	1	0.50	1.1	1 box
235437	2" Expander Head	1	0.60	1.3	1 box
137964-002	1 1/2" Compression Jaws	1	2.37	5.2	1 box
235497	2" Compression Jaws	1	2.54	5.6	1 box
139092	Large Ratchet Cutter for up to 63 mm RAUPEX	1	1.19	2.6	1 box
137724	Aluminum Case	1	9.30	20.5	1 box

### Tool Kit Accessories

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			lb	kg	
137434	63 mm Expander Head	1	2.00	4.4	1 box
137584	75 mm Expander Head	1	2.10	4.6	1 box
137604	90 mm Expander Head	1	3.16	7.0	1 box
137614	110 mm Expander Head	1	5.60	12.4	1 box
137634	63 mm Compression Jaws	1	3.50	7.7	1 box
137644	75 mm Compression Jaws	1	3.39	7.5	1 box
137654	90 mm Compression Jaws	1	3.63	8.0	1 box
137664	110 mm Compression Jaws	1	3.72	8.2	1 box
261286	Large Ring Cutter for up to 110 mm RAUPEX	1	1.98	4.4	1 box
137924-002	110V Electric Hydraulic Pump H2	1	8.48	18.7	1 box

The above mentioned tool kit accessories are also included in kit 243877, INSULPEX tool kit, large diameter





# RAUGEO™ GROUND LOOP HEAT EXCHANGE SYSTEMS

PRODUCT CATALOG

EFFECTIVE: JANUARY 1, 2010

# TABLE OF CONTENTS

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1. RAUGEO Ground Loops .....	3.3
2. PRO-BALANCE® XL Brass Manifolds .....	3.5
3. PRO-BALANCE XL Accessories and Replacement Parts ...	3.6
4. EVERLOC® Fittings .....	3.9
5. EVERLOC Installation Tools .....	3.11



For updates to this publication and the most current technical instructions, safety information and manufacturer's recommendations, visit [na.rehau.com/resourcecenter](http://na.rehau.com/resourcecenter)

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# 1.

# RAUGEO GROUND LOOPS

RAUGEO PEXa pipes and compression-sleeve fittings are recognized by the International Ground Source Heat Pump Association's (IGSHPA) "Design and Installation Standards" guide as an accepted piping system for ground loop heat exchangers.

RAUGEO PEXa pipes are manufactured using REHAU's high-pressure peroxide method for crosslinked polyethylene (PEXa). RAUGEO PEXa pipe has a coextruded grey PE UV shield that protects the pipe against ultraviolet light (sunlight) for an extended time. All RAUGEO PEXa pipe meets or exceeds the requirements of ASTM F876, F877, CSA B137.5 and PPI TR-3. RAUGEO PEXa pipe is produced in REHAU's manufacturing facilities with ISO 9001 certified quality assurance programs.

See applicable REHAU technical documents for detailed temperature and pressure ratings.

RAUGEO PEXa pipe is compatible with RAUPEX compression nut fittings and fittings certified to ASTM F2080 and CSA B137.5.



## RAUGEO Double U-bend

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
100016-324	RAUGEO Double U-bend 1" CTS 300 ft Coil (1200 ft)	1	98.9	218.0	1
100016-924	RAUGEO Double U-bend 1" CTS 250 ft Coil (1000 ft)	1	83.5	184.0	1
100016-224	RAUGEO Double U-bend 1" CTS 200 ft Coil (800 ft)	1	67.6	149.0	1

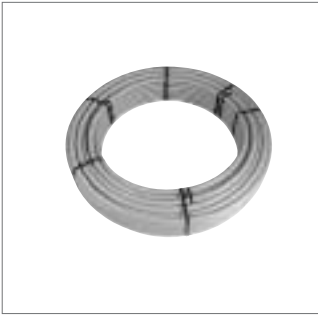
One (1) RAUGEO double U-bend coil comes packaged as two (2) single U-bend coils with attachment hardware. Each RAUGEO single U-bend comprises RAUGEO PEXa UV shield pipe with reinforced resin U-bend tip. Pipe inside diameter is 0.870 inches (22 mm). 1" pipe capacity is 0.0316 US gallons per foot (0.3939 l/m). Custom coil lengths are available upon request, but with an extended lead time.



## RAUGEO Single U-bend

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
630116-324	RAUGEO Single U-bend 1" CTS 300 ft Coil (600 ft)	1	49.9	110.0	1
630116-924	RAUGEO Single U-bend 1" CTS 250 ft Coil (500 ft)	1	41.7	92.0	1
630116-224	RAUGEO Single U-bend 1" CTS 200 ft Coil (400 ft)	1	33.8	74.5	1

Each RAUGEO single U-bend comprises RAUGEO PEXa UV shield pipe with reinforced resin U-bend tip. Pipe inside diameter is 0.870 inches (22 mm). 1" pipe capacity is 0.0316 US gallons per foot (0.3939 l/m). Custom coil lengths are available upon request, but with an extended lead time.



### RAUGEO Collect

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
235371-524	RAUGEO Collect 3/4" CTS (500 ft)	500 ft	24.6	54.3	1 coil
235381-324	RAUGEO Collect 1" CTS (300 ft)	300 ft	23.7	52.2	1 coil
235381-524	RAUGEO Collect 1" CTS (500 ft)	500 ft	39.5	87.0	1 coil
235381-824	RAUGEO Collect 1" CTS (800 ft)	800 ft	63.2	139.2	1 coil
235391-524	RAUGEO Collect 1 1/4" CTS (500 ft)	500 ft	56.9	125.5	1 coil
235391-824*	RAUGEO Collect 1 1/4" CTS (800 ft)	800 ft	87.8	193.69	1 coil

\* This item is not stocked. Lead times may vary.

RAUGEO Collect is RAUGEO PEXa UV shield pipe for horizontal ground loops and sytem distribution piping. 3/4" pipe inside diameter is 0.675 inches (17 mm) and its capacity is 0.0189 US gallons per foot (0.2356 l/m). 1" pipe inside diameter is 0.870 inches (22 mm) and its capacity is 0.0316 US gallons per foot (0.3939 l/m). 1 1/4" pipe inside diameter is 1.069 inches (27 mm) and its capacity is 0.0467 US gallons per foot (0.5827 l/m). Custom coil lengths are available upon request, but with an extended lead time.



### RAUGEO U-bend Vertical Ground Loop Accessories

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
222809-001	RAUGEO U-bend 28 Pound Weight	1	12.7	28.0	1 box
222819-001	RAUGEO U-bend 46 Pound Weight	1	20.9	46.0	1 box
222858-001	RAUGEO U-bend 1" CTS Pipe Spacer	200	0.04	0.10	1 box



### RAUGEO Collect Horizontal Ground Loop Accessories

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
222869-001	Collect Laying Aid (8" Length)	20	0.50	1.10	1 box
246899-001	Energy Pile Grid Tie	100	0.03	0.06	1 box
257304-003	Energy Pile Grid Tie Twisting Tool	1	0.44	0.97	1 box
257249	3/4" Steel Support Bend	10	0.15	0.32	1 bag
261153	1" Steel Support Bend	5	0.38	0.84	1 bag
266727	1 1/4" Polymer Support Bend	50	0.20	0.44	1 box
266180	1" PVC Bend Guide	20	0.30	0.66	1 box
236117	PE Protection Sleeve for 3/4" Pipe	50 ft	3.10	6.70	1 coil
236127	PE Protection Sleeve for 1" Pipe	50 ft	1.34	2.95	1 coil
236137	PE Protection Sleeve for 1 1/4" Pipe	150 ft	4.20	9.20	1 coil
253625	3/4" and 1" Heat Shrink – 3.3 ft (1 m)	5	0.12	0.27	1 box



### RAUGEO Installation Accessories

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
285561-001	Bulk Head Seal I.D. 0.75-1.1"	1	0.60	1.32	1 box
285571-001*	Bulk Head Seal I.D. 1.25-1.56"	1	0.59	1.29	1 box
285581-001*	Bulk Head Seal I.D. 2.0"	1	0.45	1.00	1 box
285591-001*	Bulk Head Seal I.D. 2.5"	1	0.46	1.01	1 box
222929-001*	Warning Strip, 820 ft Roll	1	1.40	3.08	1 box

\* This item is not stocked. Lead times may vary.

## 2.

# PRO-BALANCE XL BRASS MANIFOLDS



### PRO-BALANCE XL Brass Manifold

Article No.	Stations	Manifold Length		Package Quantity	Unit Weight		Minimum Order
		mm	in		kg	lb	
281841-001	4	398	15.08	1	6.2	13.7	1 box
281851-001	5	453	17.06	1	6.6	14.6	1 box
281861-001	6	508	19.02	1	7.1	15.7	1 box
281871-001	7	563	20.99	1	7.6	16.8	1 box
281881-001	8	618	22.95	1	8.3	18.3	1 box
281891-001	9	673	24.92	1	8.9	19.6	1 box
281801-001	10	728	26.89	1	9.2	20.3	1 box

Delivered pre-assembled and ready to install. Use with 3/4" and 1" RAUGEO PEXa pipe. Order manifold-to-pipe connectors separately (RAUGEO manifold adapter assembly in the PRO-BALANCE XL Accessories and Replacement Parts section).

Each manifold comes complete with:

- Instruction booklet
- 1 1/4" NPT supply and return manifold isolation ball valves with thermometer sockets and flat gaskets
- Mini thermometers art. 250218 sold separately
- Two 1 1/4" BSPP brass end caps with gaskets
- Visual flow gauges (0-4 GPM) on supply side
- Circuit balancing/isolation valves on return side
- Mounting brackets
- Four drywall screws and four self-tapping screws
- Circuit labels
- Vent key
- Manifold chart

Notes:

- Manifold lengths above include the isolation ball valve 3.86" (98 mm)
- Maximum flow depends on individual operating conditions, please contact REHAU for details.
- Depth of manifold is 4.50" (11.4 cm) with bracket, valve, and mini-thermometer installed

### 3.

# PRO-BALANCE XL ACCESSORIES AND REPLACEMENT PARTS

For use with PRO- BALANCE XL brass manifolds.

## RAUGEO Manifold Adapter Assembly



Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Quantity		kg	lb	
212104-001	1" x R20 Manifold Adapter Assembly RAUGEO (Set)	1 set		0.36	0.80	1 set

The 1" x R20 manifold adapter assembly - RAUGEO will allow installers to connect 1" RAUGEO PEXa pipes to the PRO-BALANCE XL manifold. Each assembly comes complete with the following articles, and will be partially pre-assembled with the 3/4" EVERLOC connection already made:

- 1 x 267007- 3/4" R-20 adapter
- 1 x 260577- 3/4" EV sleeve
- 1 x 260877- 1" EV sleeve
- 1 x 260447- 1" x 3/4" EV reducer coupling
- 5" piece 3/4" RAUPEX white UV shield pipe

Tools required to make the 1" EVERLOC connection are sold separately.

## PRO-BALANCE XL Brass Manifold Outlet



Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Bag	Box	kg	lb	
267007	3/4" RAUPEX x R20 Brass Manifold Outlet	2	24	0.13	0.29	1 bag

3/4" fitting includes R-20 x 1" bushing, 3/4" insert with O-ring, split brass ring and compression nut.

## PRO-BALANCE XL Flow Gauge



Article No.	Description	Package Quantity	Unit Weight		Minimum Order
		Quantity	kg	lb	
281901-001	0-4 GPM Flow Gauge	1	0.03	0.06	1

Install using "pipe dope" thread sealant. Gauge range is 0-4 GPM.

## PRO-BALANCE XL Manifold End Cap



Article No.	Description	Package Quantity	Unit Weight		Minimum Order
		Quantity	kg	lb	
281951-001	1 1/4" BSPP Manifold End Cap	1	0.1	0.22	1



### PRO-BALANCE XL Manifold Union

Article No.	Description	Package Quantity	Unit Weight		Minimum
		Bag	kg	lb	Order
281971-001	1 1/4" BSPP Manifold Union	2	0.38	0.84	1 bag

For use with PRO-BALANCE XL manifolds to connect two or more manifolds together in series. Includes union nuts and gaskets. May be used to extend an installed manifold.



### PRO-BALANCE XL Steel Manifold Brackets

Article No.	Description	Package	Unit Weight		Minimum
		Quantity	kg	lb	Order
261396	1 1/2" Steel Manifold Brackets	1 set	0.5	1.1	1 set

These sturdy brackets are for use with PRO-BALANCE XL manifolds used in supply/return configuration. Flexible liners inside holders reduce vibration/noise transfer and permit limited movement.



### Air Pressure Tester

Article No.	Description	Package	Unit Weight		Minimum
		Quantity	kg	lb	Order
257334	Air Pressure Tester	1	0.5	1.0	1

With the aid of a 1 1/4" MPT x 1" FPT brass or bronze threaded bushing, the air pressure tester threads into the 1 1/4" isolation valve on a PRO-BALANCE XL manifold, and connects to an air hose (Schrader valve included). Tester includes a pressure gauge that reads from 0-200 psi. Follow all published pressure testing instructions for RAUPEX and RAUGEO PEXa piping systems.

1 1/4" MPT x 1" FPT brass or bronze threaded bushing is not offered by REHAU.



### PRO-BALANCE XL Flow-Stop Circuit Valve

Article No.	Description	Package	Unit Weight		Minimum
		Quantity	kg	lb	Order
250224	PRO-BALANCE Flow-Stop Circuit Valve	1	0.12	0.26	1

This brass 1/4-turn ball valve attaches to R-20 circuit outlets on the supply side of PRO-BALANCE XL manifolds to allow for complete shut-off. Standard 1/4" vent key (supplied with each manifold) is used to operate the valve. Install flow-stop valves by hand onto R-20 outlets of the PRO-BALANCE XL manifold. Do not use pipe dope or thread sealant. Thread the valve clockwise until it stops. If necessary, back the valve off to align the valve stem with the front of the manifold. No tightening with a wrench is necessary, as the integral O-ring makes the seal.



### PRO-BALANCE XL Circuit Balancing/Isolation Valve

Article No.	Description	Package	Unit Weight		Minimum
		Quantity	kg	lb	Order
250221	PRO-BALANCE XL Circuit Balancing / Isolation Valve	1	0.09	0.19	1

Replacement circuit balancing/isolation valve for the return side of the PRO-BALANCE XL manifold. Install using "pipe dope" thread sealant.



### PRO-BALANCE XL NPT Isolation Ball Valve Set

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
281931-001	1 1/4" NPT Isolation Valve Set w/ Thermometer Housings (Set)	1 set	2.1	4.63	1 set

These valves have integrated thermometer housings on each side of the valve bodies. Mini thermometers (Art. 250218) can be set into these housings to give accurate readings of temperatures on both supply and return sides of any PRO-BALANCE XL manifold. Includes gaskets. Mini thermometers are sold separately.



### PRO-BALANCE XL NPT Mini-Thermometer

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
250218	Mini Thermometers for 1" NPT Valves	1	0.03	0.06	1

Mini thermometers can be set into the housings on 1 1/4" or 1" NPT valves with thermometer housings to give accurate readings of temperatures on both supply and return sides of any PRO-BALANCE XL manifold (for use only with these valves). Thermometers read from 40°F-200°F and 0°C-100°C. Valves sold separately.



### PRO-BALANCE XL Air Vent / Boiler Drain Valve Set

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
281941-001	1 1/4" Air Vent / Boiler Drain Valve Set w/ Gaskets	1 set	0.67	1.67	1 set

This set includes air vent/fill port combination pieces with union nuts and gaskets.



### PRO-BALANCE and PRO-BALANCE XL Automatic Air Vent

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
250212	Automatic Air Vent, 3/8" BSPP	1	200	0.44	1

For PRO-BALANCE and PRO-BALANCE XL manifolds. Can be used to replace manual air vent on air vent/boiler drain pieces (Art. 250226) to allow automatic elimination of entrained air in a hydronic system.



# 4.

# EVERLOC FITTINGS

The EVERLOC compression-sleeve fitting system is a fast and reliable method of joining RAUGEO PEXa pipes as well as connecting RAUGEO PEXa pipes to other pipes that are approved for use with EVERLOC using an appropriate transition fitting. EVERLOC fittings and sleeves create dependable connections. These connections can be buried when protected using appropriate heat-shrink sleeving or waterproof silicone tape. Installation is easy with EVERLOC installation tools.

EVERLOC fittings meet the performance requirements of ASTM F877 and/or ASTM F2080, NSF-rfh and the International Ground Source Heat Pump Association's (IGSHPA) "Design and Installation Standards" guide. EVERLOC fittings are not suitable for potable water applications.



## EVERLOC Sleeves

Article No.	Description	Package Quantity		Unit Weight		Minimum
		Box	Carton	kg	lb	Order
260577	3/4" EVERLOC Sleeve	80	480	0.04	0.08	1 box
260877	1" EVERLOC Sleeve	40	240	0.07	0.16	1 box
235507	1 1/4" EVERLOC Sleeve	25	150	0.11	0.24	1 box

Sleeves are unplated brass. Tapered end installs toward fitting.



## EVERLOC Couplings

Article No.	Description	Package Quantity		Unit Weight		Minimum
		Box	Carton	kg	lb	Order
260317-101	3/4" x 3/4" EVERLOC Coupling	35	210	0.08	0.18	1 box
260447-101	1" x 3/4" EVERLOC Reducer Coupling	25	150	0.11	0.25	1 box
260427-101	1" x 1" EVERLOC Coupling	20	120	0.14	0.30	1 box
235517-101	1 1/4" x 1" EVERLOC Reducer Coupling	10	60	0.20	0.43	1 box
235527-101	1 1/4" x 1 1/4" EVERLOC Coupling	5	30	0.23	0.50	1 box

Order EVERLOC sleeves separately.



## EVERLOC Plugs

Article No.	Description	Package Quantity		Unit Weight		Minimum
		Box	Carton	kg	lb	Order
260397-101	3/4" EVERLOC Plug	60	360	0.05	0.12	1 box
260497-101	1" EVERLOC Plug	30	180	0.09	0.20	1 box
235267-101	1 1/4" EVERLOC Plug	20	120	0.10	0.22	1 box

Order EVERLOC sleeves separately.



## EVERLOC Tees

Article No.	Description	Package Quantity		Unit Weight		Minimum
		Box	Carton	kg	lb	Order
260617-101	3/4" x 3/4" x 3/4" EVERLOC Tee	15	90	0.19	0.42	1 box
260707-101	1" x 1" x 3/4" EVERLOC Tee	10	60	0.29	0.65	1 box
260977-101	1" x 1" x 1" EVERLOC Tee	8	48	0.35	0.77	1 box
235657-101	1 1/4" x 1" x 1" EVERLOC Tee	5	30	0.42	0.93	1 box
235617-101	1 1/4" x 1 1/4" x 1" EVERLOC Tee	5	30	0.45	1.00	1 box
235607-101	1 1/4" x 1 1/4" x 1 1/4" EVERLOC Tee	5	30	0.51	1.12	1 box

Order EVERLOC sleeves separately.



### EVERLOC Dual MPT/Copper Adapters

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	kg	lb	
260597-101	3/4" EVERLOC x 1" MPT or 3/4" C Female (Sweat)	20	120	0.11	0.24	1 box
260437-101	1" EVERLOC x 1" MPT or 3/4" C Female (Sweat)	15	90	0.19	0.43	1 box
235557-101	1 1/4" EVERLOC x 1 1/4" MPT or 1" C Female (Sweat)	5	30	0.33	0.73	1 box

Dual adapters connect RAUGEO PEXa pipe to either female threaded fittings (first size) or copper pipe (second size) in sizes indicated. Make threaded or solder connections before connecting to RAUGEO PEXa pipe. Order EVERLOC sleeves separately.



### EVERLOC FPT Adapters

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	kg	lb	
260387-101	3/4" EVERLOC x 3/4" FPT Adapter	25	150	0.13	0.28	1 box
260487-101	1" EVERLOC x 1" FPT Adapter	10	60	0.23	0.51	1 box

FPT adapters connect RAUGEO PEXa pipe to male threaded fittings in sizes indicated. Make threaded connections before connecting to RAUGEO PEXa pipe. Order EVERLOC sleeves separately.



### EVERLOC Elbows

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	kg	lb	
260677-101	3/4" x 3/4" EVERLOC Elbow	25	150	0.13	0.29	1 box
260717-101	1" x 1" EVERLOC Elbow	10	60	0.25	0.56	1 box
235597-101	1 1/4" x 1 1/4" EVERLOC Elbow	8	48	0.37	0.82	1 box

In some situations a 90° bend may be formed without an elbow (refer to REHAU's technical manuals); see support bends and PVC bend guides under RAUGEO Collect Horizontal Ground Loop Accessories in this catalog. Order EVERLOC sleeves separately.

# 5.

# EVERLOC INSTALLATION TOOLS

Custom tools provide fast, easy, professional installations and are required to assemble EVERLOC fittings. REHAU tools are made of quality materials and field-tested for long life and reliable performance. Tools are sold as complete kits or as individual components using the article numbers listed below.



## EVERLOC 3/4" – 1 1/4" Tool Kit

Article No.	Description	Package	Unit Weight		Minimum
		Quantity	kg	lb	Order
281391-001	EVERLOC 3/4" – 1 1/4" Tool kit	1	7.8	17.2	1

The EVERLOC 3/4" – 1 1/4" tool kit is specifically designed for assembling 3/4" to 1 1/4" EVERLOC fittings, covering all geothermal applications supported by the REHAU program.

EVERLOC 3/4" – 1 1/4" tool kit comes complete with the following:

- RAUPEX pipe expander (Art. 139592)
- 3/4", 1" and 1 1/4" expander heads (Art. 261886, 261896 and 235417)
- Grease and brush pack for expander maintenance
- VERSALOC® manual compression tool (243737)
- 4-in-1 VERSALOC jaws (set), 1" and 1 1/4" VERSALOC jaws (Art. 243767, 243787 and 243797)
- RAUCUTTER (Art. 137495)
- Ratchet cutter for up to 1 1/2" RAUPEX (Art. 138062)
- Tool box (Art. 261206)



## VERSALOC Compression Tool

Article No.	Description	Package	Unit Weight		Minimum
		Quantity	kg	lb	Order
243737	VERSALOC Compression Tool	1	1.1	2.4	1

The VERSALOC compression tool easily compresses EVERLOC sleeves onto EVERLOC fittings up to 1 1/4" for a reliable connection. Ideal for all types of installation applications including joist cavities and other tight spaces. The VERSALOC compression tool is used with interchangeable VERSALOC jaws (jaws sold separately).



## VERSALOC Compression Jaws

Article No.	Description	Package	Unit Weight		Minimum
		Quantity	kg	lb	Order
243767	4-in-1 VERSALOC Jaws (Set)	1	0.37	0.8	1
243787	1" VERSALOC Jaws (Set)	1	0.68	1.5	1
243797	1 1/4" VERSALOC Jaws (Set)	1	0.77	1.6	1

4-in-1 VERSALOC compression jaws are used with the VERSALOC compression tool to compress EVERLOC fittings in sizes 3/8", 1/2", 5/8", and 3/4". The lower groove works with 3/8" and 1/2" EVERLOC fittings, while the upper groove works with 5/8" and 3/4". The 4-in-1 jaws reduce switching of jaws for common fitting sizes.

Jaws are sold in sets, so that 1 set includes 2 jaws.



### RAUPEX Pipe Expander

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
139592	RAUPEX Pipe Expander	1	1.4	3.2	1

Expands RAUGEO PEXa pipe quickly and easily to assemble EVERLOC fittings. Includes grease and brush pack for expander tool maintenance. Expander heads sold separately.



### Expander Heads

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
261886	3/4" Expander Head	1	0.16	0.35	1
261896	1" Expander Head	1	0.18	0.39	1
235417	1 1/4" Expander Head	1	0.20	0.45	1

Expander heads come in all sizes to expand RAUGEO PEXa pipe. For use with RAUPEX pipe expander (Art. 139592).



### RAUPEX Pipe Cutters

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
137495	RAUCUTTER (for up to 1" RAUPEX)	1	0.17	0.38	1
138062	Ratchet Cutter (for up to 1 1/2" RAUPEX)	1	0.41	0.90	1

It is important to use a proper cutter when cutting RAUGEO PEXa pipes. RAUPEX cutters provide clean, square and accurate cutting of RAUGEO PEXa pipes in sizes indicated.



# REHAU ECOAIR™ GROUND-AIR HEAT EXCHANGE SYSTEMS

PRODUCT CATALOG

EFFECTIVE JANUARY 1, 2010

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# TABLE OF CONTENTS

---

1. REHAU ECOAIR Pipe .....	4.3
2. REHAU ECOAIR Fittings .....	4.4
3. REHAU ECOAIR Wall Penetration Sleeves .....	4.5
4. REHAU ECOAIR Air Inlet Management .....	4.6
5. REHAU ECOAIR Condensation Management .....	4.7

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For updates to this publication and the most current technical instructions, safety information and manufacturer's recommendations, visit [na.rehau.com/resourcecenter](http://na.rehau.com/resourcecenter)

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# 1.

# REHAU ECOAIR PIPE

REHAU ECOAIR solid-walled PVC pipe is specially engineered to meet the requirements of a ground-air heat exchange system. The pipe has good heat conductivity and sufficient stiffness for reliable condensation discharge and burial under load, such as under a building, road or parking lot. It also features an Agion® Antimicrobial-protected inner surface. Agion is a registered trademark of Agion Technologies.

Manufactured in accordance with ASTM D3034 and CSA B182.2, the pipe is produced with bell and spigot ends for ease of assembly. In conformance to ASTM F477, bells are equipped with metal-reinforced, elastomeric gaskets that resist radon diffusion and ground water permeation. Removable end caps on the pipe keep the interior surface clean during shipping and handling.



## REHAU ECOAIR Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
630216-128	8" Pipe 10 ft (3.05 m) White Gasketed	1	16.41	36.18	1
630216-124	8" Pipe 20 ft (6.10 m) White Gasketed	1	32.70	72.09	1
630226-128	15" Pipe 10 ft (3.05 m) White Gasketed	1	60.09	132.48	1

## REHAU ECOAIR Header Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
212424-002	15" x 8" Header Pipe (2 Outlet)	1	36.96	81.49	1
212424-003	15" x 8" Header Pipe (3 Outlet)	1	54.11	119.30	1
213424-001	15" x 15" Header Pipe (1 Outlet) - nonstandard	1	55.67	122.73	1

Headers have pre-fabricated branch connections for ease of assembly in grid installations.

## 2.

# REHAU ECOAIR FITTINGS

REHAU ECOAIR fittings give engineers flexibility in designing a ground-air heat exchange system based on site-specific parameters. Pipe layout options include grid, serpentine and ring.

Belled fittings are manufactured from REHAU ECOAIR pipe, offering the same antimicrobial protection. In conformance to ASTM F477, bells are equipped with metal-reinforced, elastomeric gaskets that resist radon diffusion and ground water permeation.



### REHAU ECOAIR Elbows

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Carton	Crate	kg	lb	
212324-001	8" x 180° Return Bend S x G	1	10	16.1	35.5	1
212334-001	8" x 45° Elbow S x G	4	30	2.40	5.28	4
212344-001	8" x 90° Elbow S x G	2	22	3.54	7.80	2
212354-001	15" x 45° Elbow S x G	2	4	16.53	36.44	2
212364-001	15" x 90° Elbow S x G	1	3	23.77	52.40	1

Project specific order quantities are available upon request. Contact your local REHAU sales office for specifics and support.



### REHAU ECOAIR Wyes

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Carton	Crate	kg	lb	
212374-001	8" Wye S x G x G	2	12	5.32	11.72	2
212384-001	8" Wye G x G x G	2	12	5.32	11.72	2
212394-001	15" x 8" Wye S x G x G	2	4	18.80	41.45	2

Project specific order quantities are available upon request. Contact your local REHAU sales office for specifics and support.



### REHAU ECOAIR Couplings

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Carton	Crate	kg	lb	
212434-001	8" Stop Coupling G x G	8	50	3.28	7.24	8
212444-001	15" Stop Coupling G x G	1	10	9.66	21.30	1

Project specific order quantities are available upon request. Contact your local REHAU sales office for specifics and support.



### Solvent Weld Caps

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Carton	Crate	kg	lb	
212454-001	8" Solvent Weld Cap	10	100	1.05	2.32	10
212464-001	15" Solvent Weld Cap	4	30	3.40	7.50	4

Project specific order quantities are available upon request. Contact your local REHAU sales office for specifics and support.



### 3.

# REHAU ECOAIR WALL PENETRATION SLEEVES



## Wall Penetration Sleeves

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Carton	Crate	kg	lb	
212524-001	8" Wall Penetration Sleeve	12	60	1.70	3.75	12
212534-001	15" Wall Penetration Sleeve	3	15	5.85	12.90	3

Wall penetration sleeves seal the wall penetration joint while protecting the REHAU ECOAIR pipe and the building structure from damage due to expansion, contraction and building settling. Sleeves are supplied with gaskets conforming to ASTM F477. A sand coating on the sleeve surface aids in adhesion of grout or concrete as the foundation wall is poured and set.

Note: Wall penetration sleeves are not intended for use below the water table or in areas where ground water pressure may exist. Refer to the Installation Guide for further recommendations.

Project specific order quantities are available upon request. Contact your local REHAU sales office for specifics and support.

# 4.

# REHAU ECOAIR AIR INLET MANAGEMENT

REHAU ECOAIR ground-air heat exchange systems admit fresh, preconditioned air into buildings through specially designed air inlet towers and high efficiency filters.



## Air Inlet Towers

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Carton	Crate	kg	lb	
170188-003	DN200 Air Inlet Tower	5	40	10.20	22.49	1
170428-003	DN400 Air Inlet Tower	1	6	21.00	46.30	1
730163-008	8" Air Inlet Tower	1	6	10.20	22.49	1

Air inlet towers are constructed entirely of stainless steel. Column height is approximately 6 ft (2 m). The removable tower cover provides access to the filter for scheduled maintenance. The 8" air inlet tower includes stainless steel mounting hardware. Filters sold separately.



## Filter Sets

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Carton	Crate	kg	lb	
170208-001	Filter Set G2 & F6 for DN200 Air Inlet Tower	3	24	0.80	1.76	3
170548-002	Filter Set G2 & F6 for DN400 Air Inlet Tower	1	6	1.10	2.42	1
170198-001	Filter Set G4 for DN200 Air Inlet Tower	3	24	0.80	1.76	3
170538-002	Filter Set G4 for DN400 Air Inlet Tower	1	6	1.10	2.42	1

Filter sets include one G2-rated coarse filter and one F2-rated fine filter. The G4-rated filter provides medium filtration. Filter ratings are based on European standard BS EN 779:2002. G2 is comparable to MERV 4, G4 is comparable to MERV 8 and F6 is comparable to MERV 12 in the ASHRAE 52.1 standard.

To maintain proper operation, filters should be inspected at least every three months. Refer to the Warranty and Maintenance Guide for further guidance.



## Air Inlet Tower Adapters

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Carton	Crate	kg	lb	
212474-001	8" x DN200 Air Inlet Tower Adapter	5	40	2.55	5.62	5
212484-001	15" x DN400 Air Inlet Tower Adapter	1	6	12.85	28.32	1

Air inlet tower adapters are used to connect the European-sized stainless steel air inlet towers to the North American-sized ground-air heat exchange pipe below ground.

Project specific order quantities are available upon request. Contact your local REHAU sales office for specifics and support.

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# 5.

# REHAU ECOAIR CONDENSATION MANAGEMENT

Condensation management is a critical function in ensuring a hygienic, properly operating ground-air heat exchange system. Condensation can occur when humid summer air is cooled as it travels through the underground pipe. The REHAU ECOAIR ground-air heat exchange system provides two condensation management options – a stand-alone condensate collection shaft and an integrated condensate drain.



## REHAU ECOAIR Condensate Collection Shaft

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
212504-001	15" REHAU ECOAIR Condensate Collection Shaft	1	69.13	152.40	1

Condensate collection shafts are used in buildings where an external drainage solution is preferred. The shaft is manufactured from REHAU ECOAIR pipe, offering the same antimicrobial protection. REHAU does not currently offer the submersible condensate removal pump.



## Condensation Accessories

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
730293-001	Condensate Collection Shaft Manhole Cover	1	30.62	67.50	1
730293-002	Condensate Collection Shaft Cap	25	0.54	1.20	25

Lockable manhole cover permits secure access to the condensate shaft for system maintenance. Vinyl shaft cap provides an airtight seal.

Project specific order quantities are available upon request. Contact your local REHAU sales office for specifics and support.



## Condensate Drain Ball Siphon

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
227795-001	Ball Siphon	1	0.25	0.55	1

A ball siphon is part of the condensate drain solution for buildings with basements. The siphon allows for the disposal of condensate to a gravity drain. An integrated ball check prevents the entry of any unpleasant odors from the drain into the ground-air heat exchange system.

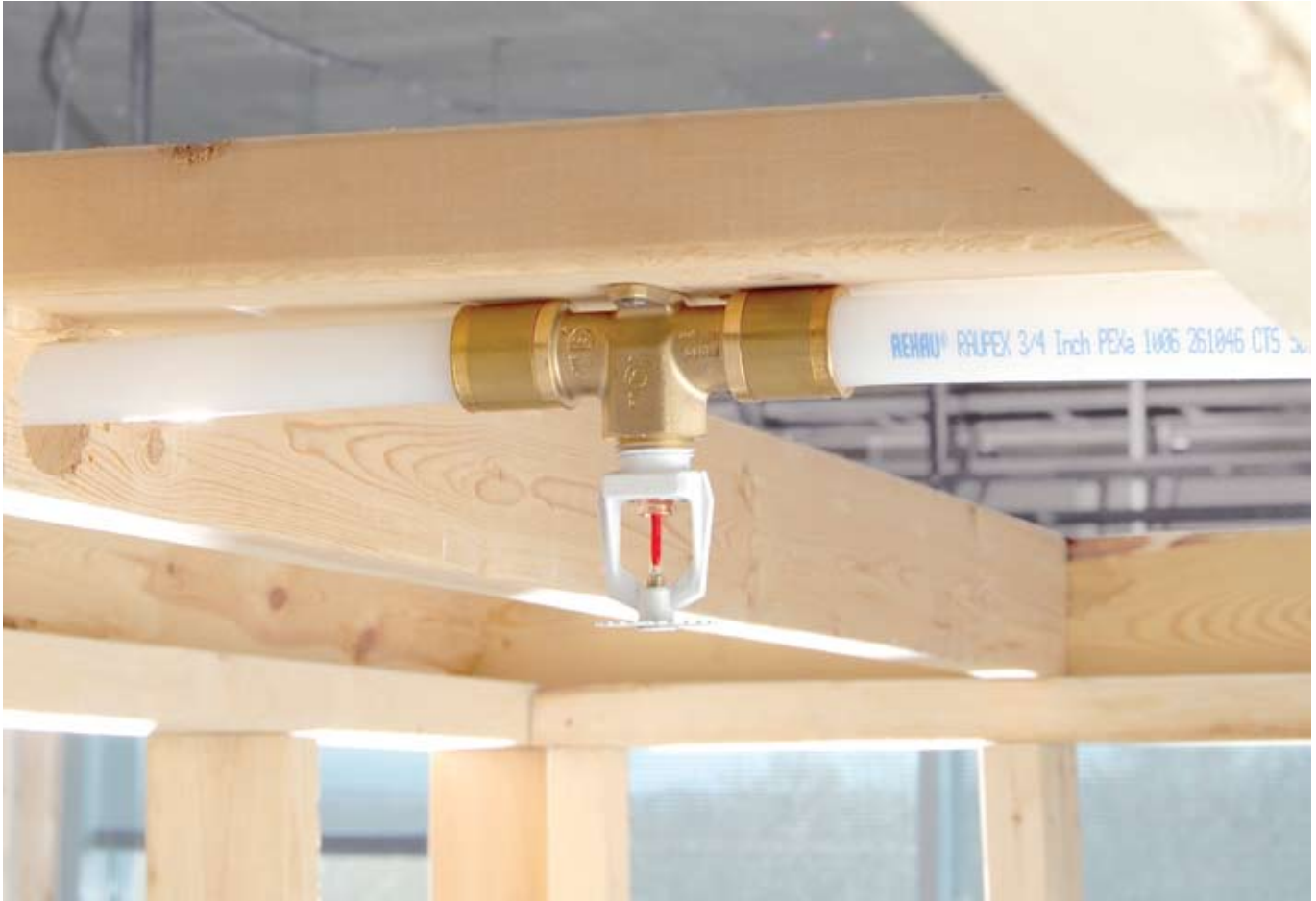


## Condensate Drain Adapter

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Carton	Crate	kg	lb	
212494-001	8" Condensate Drain Adapter	10	50	2.23	4.92	10
730303-001	8" Integrated Condensate Drain Adapter	10	50	2.23	4.92	10

The condensate drain adapter is a reducer that connects the main pipeline to the ball siphon. The integrated condensate drain adapter has an integral water trap and connects the main pipeline to a 3/4" PVC drain pipe. Use of this product eliminates the need for a ball siphon.

Project specific order quantities are available upon request. Contact your local REHAU sales office for specifics and support



# FIREPEX™ RESIDENTIAL FIRE PROTECTION SYSTEMS

PRODUCT CATALOG

EFFECTIVE: JANUARY 1, 2010

# TABLE OF CONTENTS

---

1. RAUPEX® Pipe .....	5.3
2. EVERLOC® Fittings .....	5.5
3. Sprinklers .....	5.8
4. Sprinkler Tools and Accessories .....	5.10
5. Installation Accessories .....	5.11
6. EVERLOC Installation Tools .....	5.13

FIREPEX



For updates to this publication and the most current technical instructions, safety information and manufacturer's recommendations, visit [na.rehau.com/resourcecenter](http://na.rehau.com/resourcecenter)

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# 1.

# RAUPEX PIPE

## RAUPEX Non-Barrier Pipe (UL and C-UL Listed)

RAUPEX Non-Barrier pipe is made of high-quality crosslinked polyethylene, manufactured using the high-pressure peroxide method (PEXa). All RAUPEX Non-Barrier pipe meets the requirements of ASTM F876, F877, CSA B137.5 and PPI TR-3 and is certified to NSF Standards 14/61. RAUPEX Non-Barrier pipe meets the requirements of NSF P171 and ASTM F2023 for chlorine resistance. RAUPEX Non-Barrier pipe is produced in REHAU's ISO 9001 certified manufacturing facility.

RAUPEX Non-Barrier pipes are approved for use in residential fire protection sprinkler systems as defined in the National Fire Protection Association (NFPA) Standard 13D for "Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes." RAUPEX pipes in these sizes are UL Listed to U.S. requirements in accordance with UL Standard 1821, "Thermoplastic Pipe and Fittings for Use in Sprinkler Systems for Fire Protection Service", UL 1821 for "Exposed Installation Under a Smooth, Flat Ceiling", and C-UL listed to Canadian requirements in accordance with other recognized document ULC/ORD-C199P-02, "Combustible Pipe for Sprinkler Systems." RAUPEX pipes are also UL listed in accordance with UL Standard UL 1713, "Pressure Pipe and Couplings for Underground Fire Service." Furthermore, FIREPEX residential fire sprinkler system can be used to satisfy the 2011 International Residential Code (IRC) Code requirements for residential sprinklers in all one- and two-family dwellings.



### 3/4" RAUPEX Non-Barrier Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
261046-100	3/4" RAUPEX Non-Barrier Pipe 100 ft coil (30.5 m)	100 ft	4.9	10.9	1 coil
261046-300	3/4" RAUPEX Non-Barrier Pipe, 300 ft coil (91.4 m)	300 ft	14.7	32.3	1 coil
261046-500	3/4" RAUPEX Non-Barrier Pipe, 500 ft coil (152.4 m)	500 ft	24.6	54.3	1 coil
261046-000	3/4" RAUPEX Non-Barrier Pipe, 1000 ft coil (304.8 m)	1000 ft	49.2	108.5	1 coil
261046-020	3/4" RAUPEX Non-Barrier Pipe, 20 ft long (6.1 m)	25 (500 ft)	1.0	2.2	500 ft

Average 3/4" pipe capacity is 0.0189 US gallons per foot (0.2356 l/m). Straight lengths are packaged in a single outer bag.

### 1" RAUPEX Non-Barrier Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
261066-100	1" RAUPEX Non-Barrier Pipe, 100 ft coil (30.5 m)	100 ft	7.9	17.5	1 coil
261066-300	1" RAUPEX Non-Barrier Pipe, 300 ft coil (91.4 m)	300 ft	23.8	52.4	1 coil
261066-500	1" RAUPEX Non-Barrier Pipe, 500 ft coil (152.4 m)	500 ft	39.7	87.5	1 coil
261066-020	1" RAUPEX Non-Barrier Pipe, 20 ft long (6.1 m)	25 (500 ft)	1.6	3.5	500 ft

Average 1" pipe capacity is 0.0316 US gallons per foot (0.3939 l/m). Straight lengths are packaged in a single outer bag.

### 1 1/4" RAUPEX Non-Barrier Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
261086-100	1 1/4" RAUPEX Non-Barrier Pipe 100 ft coil (30.5 m)	100 ft	11.4	25.0	1 coil
261086-020	1 1/4" RAUPEX Non-Barrier Pipe, 20 ft long (6.1 m)	5 (100 ft)	2.3	5.0	100 ft

Average 1 1/4" pipe capacity is 0.0467 US gallons per foot (0.5827 l/m). Straight lengths are packaged in a single outer bag.

## 1 1/2" RAUPEX Non-Barrier Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
261106-100	1 1/2" RAUPEX Non-Barrier Pipe 100 ft coil (30.5 m)	100 ft	16.0	35.0	1 coil
261106-020	1 1/2" RAUPEX Non-Barrier Pipe, 20 ft long (6.1 m)	5 (100 ft)	3.2	7.0	100 ft

Average 1 1/2" pipe capacity is 0.0650 US gallons per foot (0.8118 l/m). Straight lengths are packaged in a single outer bag.

## 2" RAUPEX Non-Barrier Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
138331-100	2" RAUPEX Non-Barrier Pipe 100 ft coil (30.5 m)	100 ft	27.4	60.0	1 coil
138331-020	2" RAUPEX Non-Barrier Pipe, 20 ft long (6.1 m)	5 (100 ft)	5.5	12.0	100 ft

Average 2" pipe capacity is 0.1114 US gallons per foot (1.3906 l/m). Straight lengths are packaged in a single outer bag.

## 2.

# EVERLOC FITTINGS

EVERLOC fittings are ideal for fire protection applications. EVERLOC fittings and sleeves create reliable connections that can be embedded directly in a thermal mass (when walled-in or wrapped in chloride-free tape or RAUCROSS™ heat shrink tubing to help reduce corrosion caused by the surrounding environment – check local codes for compliance) or walled in. Installation is easy with EVERLOC tools.

EVERLOC fittings are produced from solid brass stock. Elbows and tees are hot-forged for superior strength and durability, while straight fittings are machined from solid brass rod. The EVERLOC fittings and sleeves listed below are produced to ASTM F2080 and meet the performance requirements of NSF 61, ASTM F877, CSA B137.5, UL 1821 and UL 1713.



### EVERLOC Sleeves

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
260577	3/4" EVERLOC Sleeve	80	480	37	0.08	1 box
260877	1" EVERLOC Sleeve	40	240	73	0.16	1 box

Sleeves are unplated brass. Tapered end installs toward fitting.



### EVERLOC Couplings

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
260317	3/4" x 3/4" EVERLOC	35	210	82	0.18	1 box
260427	1" x 1" EVERLOC	20	120	136	0.30	1 box

Order EVERLOC sleeves separately.



### EVERLOC Plugs

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
260397	3/4" EVERLOC Plug	60	360	54	0.12	1 box
260497	1" EVERLOC Plug	30	180	91	0.20	1 box

Order EVERLOC sleeves separately.



### EVERLOC Copper Adapters

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
260837	3/4" EVERLOC x 1" C Male (Street) or 3/4" C Female (Sweat)	25	150	118	0.26	1 box
260947	1" EVERLOC x 1 1/4" C Male (Street) or 1" C Female (Sweat)	20	120	163	0.36	1 box

Copper adapters connect RAUPEX pipe to copper pipe in sizes indicated. Many of these copper adapters can be used as male (street) or female (sweat) fittings. Make solder connection before connecting to RAUPEX pipe. Order EVERLOC sleeves separately.





### EVERLOC Dual MPT/Copper Adapters

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
260327	3/4" EVERLOC x 3/4" MPT or 1/2" C Female (Sweat)	25	150	122	0.27	1 box
260597	3/4" EVERLOC x 1" MPT or 3/4" C Female (Sweat)	20	120	109	0.24	1 box
260437	1" EVERLOC x 1" MPT or 3/4" C Female (Sweat)	15	90	195	0.43	1 box

Dual adapters connect RAUPEX pipe to either female threaded fittings (first size) or copper pipe (second size) in sizes indicated. Make threaded or solder connections before connecting to RAUPEX pipe. Order EVERLOC sleeves separately.



### EVERLOC Straight Tees

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
260617	3/4" x 3/4" x 3/4" EVERLOC Tee	15	90	191	0.42	1 box
260977	1" x 1" x 1" EVERLOC Tee	8	48	349	0.77	1 box

Order EVERLOC sleeves separately.



### EVERLOC Run Reducing Tees

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
260687	1" x 3/4" x 1" EVERLOC Tee	10	60	322	0.71	1 box

Order EVERLOC sleeves separately.



### EVERLOC Branch Reducing Tees

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
260707	1" x 1" x 3/4" EVERLOC Tee	10	60	295	0.65	1 box

Order EVERLOC sleeves separately.



### EVERLOC FPT Tees

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
244077	3/4" x 3/4" EVERLOC x 1/2" FPT Tee	10	60	190	0.42	1 box
244087	1" x 1" EVERLOC x 1/2" FPT Tee	5	30	290	0.63	1 box

These EVERLOC tees are specially designed for installation of the residential sprinklers. Order EVERLOC sleeves separately.



### 90° Elbows – EVERLOC to EVERLOC

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
260677	3/4" x 3/4" EVERLOC Elbow	25	150	132	0.29	1 box
260717	1" x 1" EVERLOC Elbow	10	60	254	0.56	1 box

Order EVERLOC Sleeves separately.



### 90° Elbows – EVERLOC to FPT, Drop Ear

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
244027	3/4" EVERLOC x 1/2" FPT Drop Ear Elbow	15	90	150	0.33	1 box
244057	1" EVERLOC x 1/2" FPT Drop Ear Elbow	10	60	200	0.43	1 box

These EVERLOC elbows are specially designed for installation of the residential sprinklers. Order EVERLOC sleeves separately.



### EVERLOC FPT Side Outlet Elbow

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
244037	3/4" EVERLOC x 3/4" EVERLOC	15	90	220	0.48	1 box
	x 1/2" FPT Side Outlet Elbow					
244067	1" EVERLOC x 1" EVERLOC	10	60	310	0.67	1 box
	x 1/2" FPT Side Outlet Elbow					

These EVERLOC elbows are specially designed for installation of the residential sprinklers. Order EVERLOC sleeves separately.

# 3.

# SPRINKLERS

REHAU offers three types of sprinklers: pendent/recessed pendent, horizontal sidewall, and concealed pendent. Recessed sprinklers are visible in the ceiling and do not have a cover plate. Horizontal sidewall sprinklers protrude out of the wall and do not have a cover plate. Concealed sprinklers are recessed into the ceiling and covered with a small plate that is installed flush for a finished look. The cover plate detaches and falls away prior to sprinkler activation by rising temperature. All sprinklers are activated when heat from the fire causes the heat responsive element in the sprinkler to disengage. Sprinklers are temperature-rated to best suit the desired application. Ordinary temperature-rated sprinklers activate at 155°F. Intermediate temperature-rated sprinklers activate at 175°F.

All sprinklers are UL and C-UL listed to the UL 1626 standard for a minimum density of 0.5 gpm/ft<sup>2</sup>, in accordance with NFPA 13D. Sprinklers are also certified to NSF-61 for use in multipurpose sprinkler system applications.



### Pendent Ordinary (155°F) Sprinkler Heads 4.9 K-factor

Article No.	Description	Package	Unit Weight		Minimum
		Quantity	g	lb	Order
281341-001	Sprinkler, VK468 Pendent (White, Ordinary)	50	80	0.17	1 box
281341-002	Sprinkler, VK468 Pendent (Brass, Ordinary)	50	80	0.17	1 box
281341-003	Sprinkler, VK468 Pendent (Chrome, Ordinary)	50	80	0.17	1 box

- Order matching E-1 recessed escutcheon, sold separately.
- Refer to Viking Technical Data Sheet for complete application criteria.

### Pendent Intermediate (175°F) Sprinkler Heads 4.9 K-factor

Article No.	Description	Package	Unit Weight		Minimum
		Quantity	g	lb	Order
281351-001	Sprinkler, VK468 Pendent (White, Intermediate)	50	80	0.17	1 box
281351-002	Sprinkler, VK468 Pendent (Brass, Intermediate)	50	80	0.17	1 box
281351-003	Sprinkler, VK468 Pendent (Chrome, Intermediate)	50	80	0.17	1 box

- Order matching E-1 recessed escutcheon, sold separately.
- Refer to Viking Technical Data Sheet for complete application criteria.

### Horizontal Sidewall Ordinary (155°F) Sprinklers 4.2 K-factor

Article No.	Description	Package	Unit Weight		Minimum
		Quantity	g	lb	Order
298106-001	Sprinkler, VK450 Sidewall (White, Ordinary)	50	100	0.20	1 box
298106-002	Sprinkler, VK450 Sidewall (Brass, Ordinary)	50	100	0.20	1 box
298106-003	Sprinkler, VK450 Sidewall (Chrome, Ordinary)	50	100	0.20	1 box
281261-001	Sprinkler, VK453 Sidewall (White, Ordinary)	50	100	0.20	1 box
281261-002	Sprinkler, VK453 Sidewall (Brass, Ordinary)	50	100	0.20	1 box
281261-003	Sprinkler, VK453 Sidewall (Chrome, Ordinary)	50	100	0.20	1 box

- Order matching E-1 recessed escutcheon, sold separately.
- Refer to Viking Technical Data Sheet for complete application criteria.





### Horizontal Sidewall Intermediate (175°F) Sprinklers 4.2 K-factor

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
298116-001	Sprinkler, VK450 Sidewall (White, Intermediate)	50	100	0.20	1 box
298116-002	Sprinkler, VK450 Sidewall (Brass, Intermediate)	50	100	0.20	1 box
298116-003	Sprinkler, VK450 Sidewall (Chrome, Intermediate)	50	100	0.20	1 box
281271-001	Sprinkler, VK453 Sidewall (White, Intermediate)	50	100	0.20	1 box
281271-002	Sprinkler, VK453 Sidewall (Brass, Intermediate)	50	100	0.20	1 box
281271-003	Sprinkler, VK453 Sidewall (Chrome, Intermediate)	50	100	0.20	1 box



- Order matching E-1 recessed escutcheon, sold separately.
- Refer to Viking Technical Data Sheet for complete application criteria.



### Concealed Sprinkler

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
281431-001	VK456 Concealed Pendant Sprinkler, 4.9 K-factor (White)	50	100	0.20	1 box
281361-001	VK466 Domed Concealed Pendant Sprinkler, 5.2 K-factor (white)	50	100	0.20	1 box

- Order matching cover plate assembly, sold separately.
- Refer to Viking Technical Data Sheet for complete application criteria.



### Cover Plates and Escutcheons

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
281511	VK466 Domed Cover Plate Assembly (White)	50	45	0.10	1 box
281421-001	VK456 Flat Cover Plate Assembly (White)	50	90	0.18	1 box
281161-W	E-1 Recessed Escutcheon White	50	50	0.09	1 box
281161-B	E-1 Recessed Escutcheon Brass	50	50	0.09	1 box
281161-C	E-1 Recessed Escutcheon Chrome	50	50	0.09	1 box

Cover plate is designed to fall away prior to sprinkler activation.



# 4.

# SPRINKLER TOOLS AND ACCESSORIES



## Sprinkler Tools

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
281601	VK Standard Wrench	1	400	0.73	1
281611-001	VK466 Domed Concealed Wrench	1	300	0.65	1
281441-002	VK456 Flat Concealed Wrench	1	700	0.73	1

Wrenches are specifically designed for use with sprinklers.



## Cabinets and Signs

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
281701	Sprinkler Cabinet – 6 Head Capacity (Pendent)	1	300	0.5	1
281691-001	Sprinkler Cabinet – 5 Head Capacity (Concealed)	1	300	0.5	1
855.200	NFPA 13D Multipurpose System Sign	1	90	0.2	1

# 5.

# INSTALLATION ACCESSORIES



## Polymer Support Bends with Screw Hole

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
266227	3/4" Polymer Support Bend	50	70	0.16	1 box
266237	1" Polymer Support Bend	50	100	0.22	1 box
266727	1 1/4" Polymer Support Bend	50	200	0.44	1 box

+ This item is not stocked. Lead times may vary.

These reinforced polymer bend supports create 90° bends without an elbow, quickly snapping over RAUPEX pipe. 'Ear' on the inside of the bend has a screw hole for secure mounting to a support or stud.



## PVC Bend Guides

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
266175	3/4" PVC Bend Guide	30	50	0.11	1 box
266180	1" PVC Bend Guide	20	270	0.60	1 box

Create 90° bends without fitting an elbow by inserting RAUPEX pipe into these rigid plastic PVC Bend Guides. PVC Bend Guides provide protection at slab penetrations and create professional appearance at manifolds.



## REHAU RAUCROSS™ Heat Shrink

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
253625	3/4" and 1" Heat Shrink - 3.3 ft (1 m)	5 m	122	0.27	1

REHAU's own heat shrink tubing is ideal for sealing around EVERLOC brass fittings installed in corrosive environments or buried in a thermal mass. Sized to seal tightly around fittings, RAUCROSS will shrink quickly with heat from a hot air gun. Follow enclosed installation instructions.



## Talon Drive Hooks

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
261776	Low Profile 3/4" Talons	50	6	0.01	1 bag
261806	Low Profile 1" Talons	50	10	0.2	1 bag

Twin talon drive hooks safely secure 1/2", 3/4" or 1" pipe to wood subfloors, joists or in joist cavities. Low profile talons secure pipe in sizes indicated and are ideal for use with wooden "sleeper" RFH installations. Barbed nails, pre-installed in plastic talon prevent nails from backing out.



### RAUPEX Uncoiler

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
282191	RAUPEX Uncoiler	1	40.8	90.0	1

Uncoiler dispenses RAUPEX pipe without twists or kinks. Greatly reduces installation labor needs. Pneumatic tires allow easy transportation over rough terrain. Pipe can be drawn off either vertically (as shown) or horizontally. Capable of holding up to 1,000 feet of 3/4" PEX. Less than 30" wide to get through doorways. Removable spool allows for convenient transportation to job sites.



### RAUPEX Portable Uncoiler

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
282171-001*	RAUPEX Portable Uncoiler	1	22.7	50	1

\* This item is not stocked. Lead time approximately 1 week.

RAUPEX portable uncoiler is used for running RAUPEX piping in fire protection applications. The turntable supports a full coil of RAUPEX pipe and eyelet loop opens for easy feeding and removal of piping from uncoiler unit. The included steel reinforced plastic case (measuring 40" x 17" x 5") serves as the unit's base for easy portability. Accommodates 1000 ft coil of 3/8" to 1/2" or 500 ft coil of 5/8" to 1" RAUPEX pipe.

# 6.

# EVERLOC INSTALLATION TOOLS

Custom tools provide fast, easy and professional installations and are required to assemble EVERLOC fittings. REHAU tools are made of quality materials and field tested for long life and reliable performance.



## EVERLOC Tool Kit 3/4" – 1 1/4"

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
281391-001	EVERLOC 3/4" – 1 1/4" Tool Kit	1	7.8	17.2	1

The EVERLOC 3/4" – 1 1/4" tool kit is specifically designed for assembling 3/4" to 1" EVERLOC fittings, covering fire protection applications supported by the REHAU program. The EVERLOC 3/4" to 1 1/4" tool kit comes complete with the following:

EVERLOC 3/4" – 1 1/4" tool kit comes complete with the following:

- RAUPEX pipe expander (Art. 139592)
- 3/4", 1" and 1 1/4" expander heads (Art. 261886, 261896 and 235417)
- Grease and brush pack for expander maintenance
- VERSALOC® manual compression tool (243737)
- 4-in-1 VERSALOC jaws (set), 1" and 1 1/4" VERSALOC jaws (Art. 243767, 243787 and 243797)
- RAUCUTTER (Art. 137495)
- Ratchet cutter (for up to 1 1/2" RAUPEX) (Art. 138062)
- Tool box (Art. 261206)



## VERSALOC Compression Tool

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
243737	VERSALOC Compression Tool	1	1.09	2.4	1

The VERSALOC compression tool easily compresses EVERLOC sleeves onto EVERLOC fittings up to 1 1/4" for a reliable connection. Ideal for all types of installation applications including joist cavities and other tight spaces. The VERSALOC compression tool is used with interchangeable VERSALOC jaws (Jaws sold separately).



## VERSALOC Compression Jaws

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
243767	4-in-1 VERSALOC Jaws (Set)	1	0.37	0.8	1
243787	1" VERSALOC Jaws (Set)	1	0.68	1.5	1
243797	1 1/4" VERSALOC Jaws (Set)	1	0.77	1.6	1

VERSALOC compression jaws are used with the VERSALOC compression tool to compress EVERLOC fittings. Jaws are sold in sets, so that 1 set includes 2 jaws.



## RAUPEX Pipe Expander

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
139592	RAUPEX Pipe Expander	1	1.4	3.2	1

Manually expands RAUPEX pipe quickly and easily to assemble EVERLOC fittings. Includes grease and brush pack for expander tool maintenance. Requires expander head(s) below.





### Expander Heads

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
261886	3/4" Expander Head	1	0.16	0.35	1
261896	1" Expander Head	1	0.18	0.39	1
235417	1 1/4" Expander Head	1	0.20	0.45	1

Expander heads come in all sizes to expand RAUPEX pipe. For use with RAUPEX pipe expander (Art. 139592).



### RAUPEX Cutters

Article #	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
138062	Ratchet Cutter for 1 1/2" RAUPEX	1	0.41	0.90	1
137495	RAUCUTTER (for up to 1" RAUPEX)	1	0.38	0.17	1

It is important to use a proper cutter when cutting RAUPEX pipes, and RAUPEX cutters provide clean, square and accurate cutting of RAUPEX pipes in sizes indicated.



# MUNICIPEX® WATER SERVICE LINE

PRODUCT CATALOG

EFFECTIVE: JANUARY 1, 2010

# TABLE OF CONTENTS

---

1. MUNICIPEX® Pipe.....	6.3
2. MUNICIPEX PROTECT Pipe.....	6.5
3. MUNICIPEX Accessories.....	6.6

MUNICIPEX



For updates to this publication and the most current technical instructions, safety information and manufacturer's recommendations, visit [na.rehau.com/resourcecenter](http://na.rehau.com/resourcecenter)

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# 1.

# MUNICIPEX PIPE



MUNICIPEX is manufactured using REHAU's high-pressure peroxide method for crosslinked polyethylene (PEXa). MUNICIPEX has a co-extruded PE shield that protects the pipe against ultraviolet light (sunlight) for an extended time.

MUNICIPEX pipe meets or exceeds the requirements of ASTM F876, F877, CSA B137.5 and PPI TR-3, and is certified to NSF Standards 14/61 and AWWA C904. MUNICIPEX meets the requirements of NSF P 171 and ASTM F2023 for chlorine resistance. MUNICIPEX is produced in REHAU's ISO 9001 certified manufacturing facilities.

See applicable REHAU technical documents for detailed temperature and pressure ratings.

MUNICIPEX is produced in SDR 9 copper tube sizes (CTS) meaning that it connects to standard compression-joint brass valves and fittings using thin stainless steel inserts (required). It is compatible with AWWA C-800 compression nut fittings and axial compression-sleeve fittings certified to ASTM F2080, CSA B137.5 and NSF-pw.

For service line and underground applications, it is the responsibility of the installer to ensure fittings selected meet local jurisdictional codes.

## 3/4" MUNICIPEX Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
261056-100	3/4" MUNICIPEX Pipe, 100 ft coil (30.5 m)	100 ft	4.9	10.9	1 coil
261056-300	3/4" MUNICIPEX Pipe, 300 ft coil (91.4 m)	300 ft	14.7	32.3	1 coil
261056-500	3/4" MUNICIPEX Pipe, 500 ft coil (152.4 m)	500 ft	24.6	54.3	1 coil
261056-000	3/4" MUNICIPEX Pipe, 1000 ft coil (304.8 m)	1000 ft	48.9	108.0	1 coil

Average 3/4" pipe capacity is 0.0189 US gallons per foot (0.2356 l/m).

## 1" MUNICIPEX Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
261076-100	1" MUNICIPEX Pipe, 100 ft coil (30.5 m)	100 ft	7.9	17.5	1 coil
261076-300	1" MUNICIPEX Pipe, 300 ft coil (91.4 m)	300 ft	23.8	52.4	1 coil
261076-500	1" MUNICIPEX Pipe, 500 ft coil (152.4 m)	500 ft	39.7	87.5	1 coil

Average 1" pipe capacity is 0.0316 US gallons per foot (0.3939 l/m).

## 1 1/4" MUNICIPEX Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
261096-100	1 1/4" MUNICIPEX Pipe, 100 ft coil (30.5 m)	100 ft	11.4	25.0	1 coil

Average 1 1/4" pipe capacity is 0.0467 US gallons per foot (0.5827 l/m).

## 1 1/2" MUNICIPEX Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
261116-100	1 1/2" MUNICIPEX Pipe, 100 ft coil (30.5 m)	100 ft	16.0	35.0	1 coil
261116-111	1 1/2" MUNICIPEX Pipe, 1000 ft coil (304.8 m)	1000 ft	160.0	350.0	1 coil

Average 1 1/2" pipe capacity is 0.0650 US gallons per foot (0.8118 l/m).

**2" MUNICIPEX Pipe**

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
261136-100	2" MUNICIPEX Pipe, 100 ft coil (30.5 m)	100 ft	27.4	60.0	1 coil
261136-300	2" MUNICIPEX Pipe, 300 ft coil (91.4 m)	300 ft	85.5	188.4	1 coil
261136-111	2" MUNICIPEX Pipe, 1000 ft coil (304.8 m)	1000 ft	274.0	600.0	1 coil

Average 2" pipe capacity is 0.1114 US gallons per foot (1.3906 l/m).

## 2.

# MUNICIPEX PROTECT PIPE



MUNICIPEX Protect insulated water service line is REHAU's MUNICIPEX pipe fitted with a blue, removable closed-cell insulation foam layer to provide thermal insulation, improved frost resistance and protection against moisture.

MUNICIPEX pipe meets or exceeds the requirements of ASTM F876, F877, CSA B137.5 and PPI TR-3, and is certified to NSF Standards 14/61 and AWWA C904. MUNICIPEX meets the requirements of NSF P 171 and ASTM F2023 for chlorine resistance. MUNICIPEX is produced in REHAU's ISO 9001 certified manufacturing facilities. See applicable REHAU technical documents for detailed temperature and pressure ratings.

MUNICIPEX is produced in SDR 9 copper tube sizes (CTS) meaning that it connects to standard compression-joint brass valves and fittings using thin stainless steel inserts (required). It is compatible with AWWA C-800 compression nut fittings and axial compression-sleeve fittings certified to ASTM F2080, CSA B137.5 and NSF-pw.

For service line and underground applications, it is the responsibility of the installer to ensure fittings selected meet local jurisdictional codes.

### 1 1/2" MUNICIPEX Protect Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
131287-300	1 1/2" MUNICIPEX Protect Pipe, 1000 ft coil (304.8 m)	1000 ft	245.7	541.7	1 Coil

Average 1 1/2" pipe capacity is 0.0650 US gallons per foot (0.8118 l/m). The insulating foam layer for 1 1/2" pipe provides a thermal insulation U-value of 2.066 (R-value of 0.484).

### 2" MUNICIPEX Protect Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
131288-300	2" MUNICIPEX Protect Pipe, 1000 ft coil (304.8 m)	1000 ft	384.0	846.6	1 coil

Average 2" pipe capacity is 0.1114 US gallons per foot (1.3906 l/m). The insulating foam layer for 2" pipe provides a thermal insulation U-value of 2.197 (R-value of 0.455).

### 3.

## MUNICIPEX ACCESSORIES



### MUNICIPEX Stainless Steel Inserts

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
266607	3/4" Stainless Steel Insert	50	0.01	0.03	1 box
266617	1" Stainless Steel Insert	50	0.02	0.04	1 box
266627	1 1/4" Stainless Steel Insert	25	0.03	0.06	1 box
266637	1 1/2" Stainless Steel Insert	25	0.04	0.09	1 box
266647	2" Stainless Steel Insert	25	0.05	0.12	1 box

Stainless steel inserts are required to connect MUNICIPEX pipe to brass compression joint (AWWA C-800) valves or fittings for underground installation. Liners slide into the pipe by hand before pipe is placed into valve or fitting end.



# RAUPEX® PIPE FOR PLUMBING

PRODUCT CATALOG

EFFECTIVE JANUARY 1, 2009



# TABLE OF CONTENTS

---

1. RAUPEX® UV Shield Pipe . . . . .	7.3
2. Installation Accessories . . . . .	7.9
3. Installation Tools . . . . .	7.13



For updates to this publication and the most current technical instructions, safety information and manufacturer's recommendations, visit [na.rehau.com/resourcecenter](http://na.rehau.com/resourcecenter)

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# 1.

# RAUPEX UV SHIELD PIPE

RAUPEX UV shield pipe is manufactured using REHAU's high-pressure peroxide method for crosslinked polyethylene (PEXa). RAUPEX UV shield pipe has a co-extruded PE shield that protects the pipe against ultraviolet light (sunlight) for an extended time. All RAUPEX UV shield pipe meets or exceeds the requirements of ASTM F876, F877, CSA B137.5 and PPI TR-3 and is certified to NSF Standards 14/61. RAUPEX UV shield pipe is produced in REHAU's ISO 9001 certified manufacturing facilities.

RAUPEX UV shield pipe is compatible with fittings certified to ASTM F2080 and CSA B137.5, brass crimp ring fittings certified to ASTM F1807.



## RAUPEX RED UV SHIELD PIPE

### 3/8" RAUPEX Red UV Shield Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
235331-502	3/8" RAUPEX Red UV Shield Pipe 500 ft coil (152.4 m)	500 ft	10.5	23.1	1 coil
235331-002	3/8" RAUPEX Red UV Shield Pipe 1000 ft coil (304.8 m)	1000 ft	21.0	46.2	1 coil

Average 3/8" pipe capacity is 0.0050 US gallons per foot (0.0624 l/m).

### 1/2" RAUPEX Red UV Shield Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
235351-102	1/2" RAUPEX Red UV Shield Pipe 100 ft coil (30.5 m)	100 ft	2.6	5.8	1 coil
235351-302	1/2" RAUPEX Red UV Shield Pipe 300 ft coil (91.4 m)	300 ft	7.8	17.2	1 coil
235351-502	1/2" RAUPEX Red UV Shield Pipe 500 ft coil (152.4 m)	500 ft	13.1	28.9	1 coil
235351-002	1/2" RAUPEX Red UV Shield Pipe 1000 ft coil (304.8 m)	1000 ft	26.3	57.9	1 coil
235351-332*	1/2" RAUPEX Red UV Shield Pipe 6000 ft (1828.8 m)	20 (300 ft) coils	7.8	17.2	20 coils
235351-152	1/2" RAUPEX Red UV Shield Pipe 500 ft (152.4 m)	5 (100 ft) coils	13.1	28.9	5 coils
235351-362	1/2" RAUPEX Red UV Shield MiniReel	24 reels (7200 ft) per pallet	18.6	41.1	7200 ft

Average 1/2" pipe capacity is 0.0098 US gallons per foot (0.1222l/m).

\* There are two boxes per pallet. Each box contains 10 (300 ft) 1/2" pipe coils. One color per pallet order.

### 3/4" RAUPEX Red UV Shield Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
235371-102	3/4" RAUPEX Red UV Shield Pipe, 100 ft coil (30.5 m)	100 ft	4.9	10.9	1 coil
235371-302	3/4" RAUPEX Red UV Shield Pipe, 300 ft coil (91.4 m)	300 ft	14.7	32.3	1 coil
235371-502	3/4" RAUPEX Red UV Shield Pipe, 500 ft coil (152.4 m)	500 ft	24.6	54.3	1 coil
235371-152	3/4" RAUPEX Red UV Shield Pipe, 500 ft (152.4 m)	5 (100 ft) coils	29.5	65	5 coils

Average 3/4" pipe capacity is 0.0189 US gallons per foot (0.2356 l/m).

### 1" RAUPEX Red UV Shield Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
235381-102	1" RAUPEX Red UV Shield Pipe, 100 ft coil (30.5 m)	100 ft	7.9	17.5	1 coil
235381-302	1" RAUPEX Red UV Shield Pipe, 300 ft coil (91.4 m)	300 ft	23.8	52.4	1 coil
235381-502	1" RAUPEX Red UV Shield Pipe, 500 ft coil (152.4 m)	500 ft	39.7	87.5	1 coil

Average 1" pipe capacity is 0.0316 US gallons per foot (0.3939 l/m).



### RAUPEX Red UV Shield Pipe 20' Straight Lengths

Article No.	Description	Package Quantity Outer Bag	Unit Weight		Minimum Order
			kg	lb	
235351-022	1/2" RAUPEX Red UV Shield pipe, 20 ft long (6.1 m)	50 (1000 ft)	0.5	1.2	1000 ft
235371-022	3/4" RAUPEX Red UV Shield pipe, 20 ft long (6.1 m)	25 (500 ft)	1.0	2.2	500 ft
235381-022	1" RAUPEX Red UV Shield Pipe, 20 ft long (6.1 m)	25 (500 ft)	1.6	3.5	500 ft

Same average capacities as RAUPEX UV Shield Pipe sold in coils. Straight lengths are packaged in a single outer bag.



### RAUPEX BLUE UV SHIELD PIPE

#### 3/8" RAUPEX Blue UV Shield Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
235331-501	3/8" RAUPEX Blue UV Shield Pipe 500 ft coil (152.4 m)	500 ft	10.5	23.1	1 coil
235331-001	3/8" RAUPEX Blue UV Shield Pipe 1000 ft coil (304.8 m)	1000 ft	21.0	46.2	1 coil

Average 3/8" Pipe capacity is 0.0050 US gallons per foot (0.0624 l/m).

### 1/2" RAUPEX Blue UV Shield Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
235351-101	1/2" RAUPEX Blue UV Shield Pipe 100 ft coil (30.5 m)	100 ft	2.6	5.8	1 coil
235351-301	1/2" RAUPEX Blue UV Shield Pipe 300 ft coil (91.4 m)	300 ft	7.8	17.2	1 coil
235351-501	1/2" RAUPEX Blue UV Shield Pipe 500 ft coil (152.4 m)	500 ft	13.1	28.9	1 coil
235351-001	1/2" RAUPEX Blue UV Shield Pipe 1000 ft coil (304.8 m)	1000 ft	26.3	57.9	1 coil
235351-331*	1/2" RAUPEX Blue UV Shield Pipe 6000 ft (1828.8 m)	20 (300 ft) coils	7.8	17.2	20 coils
235351-151	1/2" RAUPEX Blue UV Shield Pipe 500 ft (152.4 m)	5 (100 ft) coils	13.1	28.9	5 coils
235351-361	1/2" RAUPEX Blue UV Shield	24 reels (7200 ft) Per pallet	18.6	41.1	7200 ft

Average 1/2" pipe capacity is 0.0098 US gallons per foot (0.1222l/m).

\* There are two boxes per pallet. Each box contains 10 (300 ft) 1/2" pipe coils. One color per pallet order.

### 3/4" RAUPEX Blue UV Shield Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
235371-101	3/4" RAUPEX Blue UV Shield Pipe, 100 ft coil (30.5 m)	100 ft	4.9	10.9	1 coil
235371-301	3/4" RAUPEX Blue UV Shield Pipe, 300 ft coil ( 91.4 m)	300 ft	14.7	32.3	1 coil
235371-501	3/4" RAUPEX Blue UV Shield Pipe, 500 ft coil (152.4 m)	500 ft	24.6	54.3	1 coil
235371-151	3/4" RAUPEX Blue UV Shield Pipe, 500 ft (152.4 m)	5 (100 ft) coils	24.6	54.3	5 coils

Average 3/4" pipe capacity is 0.0189 US gallons per foot (0.2356 l/m).

### 1" RAUPEX Blue UV Shield Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
235381-101	1" RAUPEX Blue UV Shield Pipe, 100 ft coil (30.5 m)	100 ft	7.9	17.5	1 coil
235381-301	1" RAUPEX Blue UV Shield Pipe, 300 ft coil (91.4 m)	300 ft	23.8	52.4	1 coil
235381-501	1" RAUPEX Blue UV Shield Pipe, 500 ft coil (152.4 m)	500 ft	39.7	87.5	1 coil

Average 1" pipe capacity is 0.0316 US gallons per foot (0.3939 l/m).



## RAUPEX Blue UV Shield Pipe 20' Straight Lengths

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
		Outer Bag	kg	lb	
235351-021	1/2" RAUPEX Blue UV Shield pipe, 20 ft long (6.1 m)	50 (1000 ft)	0.50	1.2	1000 ft
235371-021	3/4" RAUPEX Blue UV Shield pipe, 20 ft long (6.1 m)	25 (500 ft)	1.0	2.2	500 ft
235381-021	1" RAUPEX Blue UV Shield pipe, 20 ft long (6.1 m)	25 (500 ft)	1.6	3.5	500 ft

Same average capacities as RAUPEX UV shield pipe sold in coils. Straight lengths are packaged in a single outer bag.

## RAUPEX WHITE UV SHIELD PIPE



### 1/2" RAUPEX White UV Shield Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
235351-113	1/2" RAUPEX White UV Shield Pipe 100 ft coil (30.5 m)	100 ft	2.6	5.8	1 coil
235351-313	1/2" RAUPEX White UV Shield Pipe 300 ft coil (91.4 m)	300 ft	7.8	17.2	1 coil
235351-513	1/2" RAUPEX White UV Shield Pipe 500 ft coil (152.4 m)	500 ft	13.1	28.9	1 coil
235351-013	1/2" RAUPEX White UV Shield Pipe 1000 ft coil	1000 ft	26.3	57.9	1 coil
235351-153	1/2" RAUPEX White UV Shield Pipe, 500 ft (152.4 m)	5 (100 ft) coils	13.1	28.9	500 ft

Average 1/2" pipe capacity is 0.0098 US gallons per foot (0.1222 l/m).

### 3/4" RAUPEX White UV Shield Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
235371-113	3/4" RAUPEX White UV Shield Pipe, 100 ft coil (30.5 m)	100 ft	4.9	10.9	1 coil
235371-313	3/4" RAUPEX White UV Shield Pipe, 300 ft coil (91.4 m)	300 ft	14.7	32.3	1 coil
235371-513	3/4" RAUPEX White UV Shield Pipe, 500 ft coil (152.4 m)	500 ft	24.6	54.3	1 cil
235371-013	3/4" RAUPEX White UV Shield Pipe, 1000 ft (304.8 m)	1000 ft	48.9	108.0	1 coil
235371-153	3/4" RAUPEX White UV Shield Pipe, 500 ft (152.4 m)	5 (100 ft) coils	24.6	54.3	500 ft

Average 3/4" pipe capacity is 0.0189 US gallons per foot (0.2356 l/m).

## 1" RAUPEX White UV Shield Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
235381-113	1" RAUPEX White UV Shield Pipe, 100 ft coil (30.5 m)	100 ft	7.9	17.5	1 coil
235381-313	1" RAUPEX White UV Shield Pipe, 300 ft coil (91.4 m)	300 ft	23.8	52.4	1 coil
235381-513	1" RAUPEX White UV Shield Pipe, 500 ft coil (152.4 m)	500 ft	39.7	87.5	1 coil

Average 1" pipe capacity is 0.0316 US gallons per foot (0.3939 l/m).

## 1 1/4" RAUPEX White UV Shield Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
132571-113	1 1/4" RAUPEX White UV Shield Pipe, 100 ft coil (30.5 m)	100 ft	11.4	25.0	1 coil

Average 1 1/4" pipe capacity is 0.0467 US gallons per foot (0.5827 l/m).

## 1 1/2" RAUPEX White UV Shield Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
132581-113	1 1/2" RAUPEX White UV Shield Pipe,100 ft coil (30.5 m)	100 ft	16.0	35.0	1 coil

Average 1 1/2" pipe capacity is 0.0650 US gallons per foot (0.8118 l/m).

## 2" RAUPEX White UV Shield Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
132591-113	2" RAUPEX White UV Shield Pipe, 100 ft coil (30.5 m)	100 ft	27.4	60.0	1 coil

Average 2" pipe capacity is 0.1114 US gallons per foot (1.3906 l/m).



## RAUPEX White UV Shield Pipe 20' Straight Lengths

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
		Outer Bag	kg	lb	
235351-023	1/2" RAUPEX White UV Shield Pipe, 20 ft long (6.1 m)	50 (1000 ft)	0.50	1.2	1000 ft
235371-023	3/4" RAUPEX White UV Shield Pipe, 20 ft long (6.1 m)	25 (500 ft)	1.0	2.2	500 ft
235381-023	1" RAUPEX White UV Shield Pipe, 20 ft long (6.1 m)	5 (100 ft)	1.6	3.5	500 ft
132571-023	1 1/4" RAUPEX White UV Shield Pipe, 20 ft long (6.1 m)	5 (100 ft)	2.3	5.0	500 ft
132581-023	1 1/2" RAUPEX White UV Shield Pipe, 20 ft long (6.1 m)	5 (100 ft)	3.2	7.0	500 ft
132591-023	2" RAUPEX White UV Shield Pipe, 20 ft long (6.1 m)	5 (100 ft)	5.5	12.0	500 ft

Same dimensions and capacities as RAUPEX UV shield pipe sold in coils. Straight lengths are packaged in a single outer bag.

## RAUPEX NON-BARRIER PRE-SLEEVED PIPE

RAUPEX non-barrier pipe is now offered with a red or blue corrugated PE sleeve, where jurisdictional requirements for plumbing pipe are to be sleeved when buried in concrete or other substrate.

RAUPEX non-barrier pre-sleeved pipe is manufactured using REHAU's high-pressure peroxide method for crosslinked polyethylene (PEXa) and is produced in REHAU's ISO 9001 certified manufacturing facilities. All RAUPEX Non-barrier pre-sleeved pipe meets or exceeds the requirements of ASTM F876, F877, CSA B137.5 and PPI TR-3 and is certified to NSF Standards 14/61.

RAUPEX non-barrier pre-sleeved pipe is compatible with fittings certified to ASTM F2080 and CSA B137.5, brass crimp ring fittings certified to ASTM F1807.



## 1/2" RAUPEX Non-Barrier Pre-Sleeved Pipe

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			kg	lb	
202046-777	1/2" RAUPEX NB Pre-Sleeved Red, 8316 ft (2534.7 m)	36 (231 ft) coils	11.1	24.5	8316 ft
202046-888	1/2" RAUPEX NB Pre-Sleeved Blue, 8316 ft (2534.7 m)	36 (231 ft) coils	11.1	24.5	8316 ft

## 2.

# INSTALLATION ACCESSORIES



### Steel Support Bends

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Box	Carton	g	lb	
258408	3/8" and 1/2" Steel Support Bend	10	50	50	0.10	1 box
257249	3/4" Steel Support Bend	10	50	150	0.32	1 box
261153	1" Steel Support Bend	5	50	380	0.84	1 box

Create 90° bends without fitting an elbow. 3/8", 1/2", 5/8" and 3/4" steel support bends create a 90° bend by quickly snapping over RAUPEX pipe. 1" steel support bends (not shown) slide onto pipe.



### Steel Support Bend with Mounting Plate

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
266597	1/2" Steel Support Bend w/ Mounting Plate	25	78	0.17	1 box

This support bend with mounting plate is ideal for attaching RAUPEX pipe at wall penetrations where the pipe must be fastened securely to install a plumbing valve on the end. The mounting plate is 18 gauge steel, zinc-plated and fits flush behind drywall. The open end allows easy installation of 3/8" or 1/2" RAUPEX pipe. Mounting holes are 1/8" diameter.

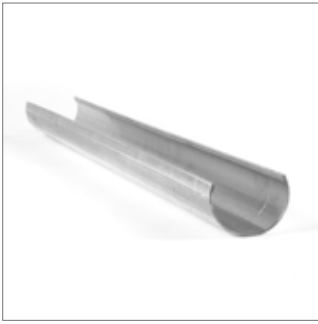


### Polymer Support Bends with Screw Hole

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
266207	3/8" and 1/2" Polymer Support Bend	50	40	0.08	1 box
266227	3/4" Polymer Support Bend	50	70	0.16	1 box
266237	1" Polymer Support Bend	50	100	0.22	1 box
266727	1 1/4" Polymer Support Bend	50	200	0.44	1 box

These reinforced polymer bend supports create 90° bends without an elbow, quickly snapping over RAUPEX pipe. 'Ear' on the inside of the bend has a screw hole for secure mounting to a support or stud.





## Galvanized Support Channel

Article No.	Description	Length		Package Quantity	Unit Weight		Minimum Order
		m	ft		kg	lb	
225527-001	3/4" Steel Support Channel	5.986	19.63	10 pcs	2.14	4.71	1 bundle
225537-001	1" Steel Support Channel	5.956	19.53	10 pcs	3.27	7.19	1 bundle
225547-001	1 1/4" Steel Support Channel	5.942	19.49	8 pcs	3.91	8.60	1 bundle
225557-001	1 1/2" Steel Support Channel	5.926	19.45	6 pcs	5.59	12.30	1 bundle
225567-001	2" Steel Support Channel	5.896	19.33	4 pcs	6.95	15.29	1 bundle

When the RAUPEX pipe is snapped into the steel support channel, the result is a rigid pipe matrix that can be supported in overhead applications.



## PVC Bend Guides

Article No.	Description	Package Quantity	Unit Weight		Minimum Order
			g	lb	
266170	3/8" and 1/2" PVC Bend Guide	40	40	0.09	1 box
266175	5/8" and 3/4" PVC Bend Guide	30	50	0.11	1 box
266180	1" PVC Bend Guide	20	270	0.60	1 box

Create 90° bends without fitting an elbow by inserting RAUPEX pipe into these rigid plastic PVC Bend Guides. PVC Bend Guides provide protection at slab penetrations and create professional appearance at manifolds.



## PE Protection Sleeve

Article No.	Description	Hole Size*	Package Quantity	Unit Weight		Minimum Order
				kg	lb	
236107	Protection Sleeve for 3/8" and 1/2" Pipe	1"	100 ft (30.4 m)	2.6	5.7	1 coil / case
236117	Protection Sleeve for 5/8" and 3/4" Pipe	1 1/4"	50 ft (15.2 m)	3.1	6.7	1 coil / case
236127	Protection Sleeve for 1" Pipe	1 1/2"	50 ft (15.2 m)	1.7	3.6	1 coil / case
236137	Protection Sleeve for 1 1/4" Pipe	2"	150 ft (45.7 m)	4.2	9.2	1 coil / case
236147	Protection Sleeve for 1 1/2" Pipe	2 1/2"	100 ft (30.4 m)	7.8	17.2	1 coil / case
236157	Protection Sleeve for 2" Pipe	3"	100 ft (30.4 m)	8.7	19.2	1 coil / case

Protects RAUPEX pipe at slab and wall penetrations, expansion and construction joints, abrasive surfaces, and ultraviolet light (sunlight). Most sizes are slit for easier installation.

\*This is the recommended hole size to be drilled for proper installation.



## Locking Clips

Article No.	Description	Package		Unit Weight		Minimum Order
		Quantity		g	lb	
261496+	3/8" Locking Clips	100		4	0.01	1 bag
261556	1/2" Locking Clips	100		5	0.01	1 bag
261516	3/4" Locking Clips	100		8	0.02	1 bag
261566	1" Locking Clips	50		11	0.03	1 bag
261576	1 1/4" Locking Clips	50		14	0.03	1 bag
261586	1 1/2" Locking Clips	25		21	0.05	1 bag
261596	2" Locking Clips	25		30	0.07	1 bag

+ This item is not stocked. Lead times may vary. Minimum order quantities may vary.

Locking clips allow for rapid installation of RAUPEX pipe. Larger clips (1" to 2") are for use with RAUPEX pipe or copper manifolds. Locking clips attach to surface with a screw or nail (not included). RAUPEX pipe or manifold snaps in place when pushed into clip, and can be removed without damaging clip.



## Talon Drive Hooks

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
				g	lb	
260866	Twin Talon Drive Hooks	1000		6	0.01	1 box
260846	Low Profile 3/8" Talons	1000		4	0.01	1 box
261766	Low Profile 1/2" Talons	5000		4	0.01	1 box
261776	Low Profile 5/8" and 3/4" Talons	1000		6	0.01	1 box
261806	Low Profile 1" Talons	500		10	0.02	1 box

Talon drive hooks safely secure 3/8", 1/2", 5/8", 3/4" or 1" pipe to wood subfloors, joists or in joist cavities. Low profile talons secure pipe in sizes indicated and are ideal for use with wooden "sleeper" RFH installations. Barbed nails, pre-installed in plastic talon prevent nails from backing out.



## Single Nail Clamps

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Bag	Box	g	lb	
261746	Single Nail Clamp for 3/8" and 1/2" Pipe	100	1500	4	0.01	1 bag
261756	Single Nail Clamp for 3/4" Pipe	100	1000	5	0.01	1 bag

Completely encircles pipe. Pre-installed barbed nail prevents backout. Fast and easy to use.



## Plastic Pipe Clamps

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Bag	Box	g	lb	
282401	1 1/4" Plastic Pipe Clamp	50	800	16	0.04	1 bag
282411+	1 1/2" Plastic Pipe Clamp	25	600	20	0.05	1 bag
282421	2" Plastic Pipe Clamp	25	300	32	0.07	1 bag

+ This item is not stocked. Lead times may vary. Minimum order quantities may vary.

Secures RAUPEX pipe to both wood and metal framework. Used in residential & commercial construction.



## Isolating Suspension Clamps

Article No.	Description	Package Quantity		Unit Weight		Minimum Order
		Bag	Box	g	lb	
282431+	1 1/4" Isolating Suspension Clamp	50	800	15	0.03	1 bag
282441	1 1/2" Isolating Suspension Clamp	25	600	28	0.04	1 bag
282451	2" Isolating Suspension Clamp	25	300	23	0.05	1 bag

+ This item is not stocked. Lead times may vary. Minimum order quantities may vary.

Secures RAUPEX pipe to both wood and metal framework. Used in residential & commercial construction.

### 3.

## INSTALLATION TOOLS



### RAUPEX Portable Plastic Reel

Article No.	Description	Package	Unit Weight		Minimum Order
		Quantity	kg	lb	
282091-001	RAUPEX Portable Plastic Reel	1	0.91	2.01	4

Used with RAUPEX pipe coils article 235381-362 and 235381-361.



### RAUPEX Uncoiler

Article No.	Description	Package	Unit Weight		Minimum Order
		Quantity	kg	lb	
282191	RAUPEX Uncoiler	1	40.8	90.0	1

Uncoiler dispenses RAUPEX pipe without twists or kinks. Pneumatic tires allow easy transportation over rough terrain. Pipe can be drawn off either vertically (as shown) or horizontally. Capable of holding up to 1,000 feet of 3/4" PEX. Less than 30" wide to get through doorways. Removable spool allows for convenient transportation to job sites.



### RAUPEX Portable Uncoiler

Article No.	Description	Package	Unit Weight		Minimum Order
		Quantity	kg	lb	
282171-001+	RAUPEX Portable Uncoiler	1	22.7	50	1

+ This item is not stocked. Lead time approximately 1 week.

RAUPEX portable uncoiler is used for running RAUPEX piping in plumbing applications. The turntable supports a full coil of RAUPEX pipe and eyelet loop opens for easy feeding and removal of piping from uncoiler unit. The included steel reinforced plastic case (measuring 40" x 17" x 5") serves as the unit's base for easy portability. Accommodates 1000 ft coil of 3/8" to 1/2" or 500 ft coil of 5/8" to 1" RAUPEX pipe.



### RAUPEX Cutters

Article No.	Description	Package	Unit Weight		Minimum Order
		Quantity	kg	lb	
137495	RAUCUTTER for up to 1" RAUPEX	1	0.17	0.38	1
138062	Ratchet Cutter for up to 1 1/2" RAUPEX	1	0.41	0.90	1
139092	Large Ratchet Cutter for up to 2" RAUPEX	1	1.18	2.60	1

It is important to use a proper cutter when cutting RAUPEX pipes. RAUPEX cutters provide clean, square and accurate cutting of RAUPEX pipes in sizes indicated.

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## Return Policy

Each return will be reviewed individually. No material may be returned without our written permission and return authorization number. Only catalogued and resalable items may be returned. The minimum return value will be \$100. Product and packaging has to be in resalable condition, all products returned to the distribution center are subject to quality inspection. Materials have to be in original clean and closed packaging (where applicable), boxes must have original labels, customer label must be removed prior to return. Any material which is authorized to be returned will be subject to a minimum twenty-five (25) percent restocking fee.

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