Edoburg®

International Organization for Standardization ISO 9001

PEX-a Expansion Piping System

EXPANSION AND CONDUIT

PRODUCT CATALOGUE

Edoburg®
PIPING SYSTEMS

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About Edoburg

Edoburg, an ISO 9001 certifies company, specialises in supplying high-quality piping systems that consistently meet stringent international standards, ensuring unparalleled performance of the piping systems. Our experienced team, equipped with extensive technical knowledge, coupled with our efficient operations and fast turnaround time, enables us to provide top-tier supply of piping products tailored to your needs.

Our Mission

Edoburg's mission is to supply high-quality piping systems worldwide, offering a complete solution that meets international standards to ensure superior performance in every project.

Product Range

Our stellar lineup of pipes, ready for every project:

- PEX Pipe: PEX-A, PEX-B, PEX-A EVOH, PEX-B EVOH
- PPR Pipe
- PERT Pipe
- HDPE Pipe
- MDPE Pipe
- PVC-C Pipe: Portable water, Reclaim water, Industrial
- PVC-U Pipe: Drainage, Portable water, Reclaim water, Industrial
- PVC-O
- Composite Pipe: PEX-AL-PEX, HDPE-AL-HDPE
- PVC Electrical Conduit
- PVC Hose

Complete Solution Concept

Our wide range of products represent our complete solution concept.

With our products intended for diverse sectors, we offer individual and comprehensive system solutions. Focusing on the needs of projects and entire system.

We provide high standards of products in the market at all times. We always stand by our piping systems and reliable service network.

As a global pipe supplying company that stands out with successful operations ever since our incorporation, we act as a solution point to meet all your needs based on our technical knowledge, specialization and reliability.

Quality Assurance

We are committed to excellence in every aspect of our operations. The products we supply comply with the international standards and certifications, ensuring reliability, durability, and safety in every application. With Edoburg, you can trust that you're receiving top-notch piping solutions that meet your specifications and exceed your expectations.

Our Presence in the World

Our warehousing are strategically located in various places in **India**, **Vietnam** and **China**, to ensures efficient distribution of the products. We ensure fast deliveries with our modern logistics partners deployed at our local distribution hubs which are strategically located near the ports to ease the export of products. Edoburg Piping Systems exports its products all over the world.

Our Market Segments

Based on our experience and high-quality standard of products in the sector, Edoburg Piping Systems supports its clients with a complete piping solutions for every project requirement.

- Chemical and Petrochemical
- Water and Wastewater
- Mining and Mineral Processing
- Power Generation
- Marine and Offshore
- Building and Construction
- Manufacturing Industries
- Agriculture
- Pharmaceuticals
- Infrastructure

About Plastics

Plastics are polymers created by the chemical conversion of natural products or synthesized from organic materials. The primary components that make up the building blocks of plastics are long chains of carbon (C) and hydrogen (H) known as monomers.

The raw materials used for the production of plastics are natural compounds such as cellulose, coal, oil and natural gas. In the plastics industry, around 6 % of the petroleum products that come out from refineries is used.

Plastics fall into three main categories on the basis of their internal structure and the resulting mechanical characteristics: thermoplastics, thermosetting plastics and elastomers.

Advantages of Plastics

Thermoplastics obviously demonstrate different characteristics than those of the metals traditionally used for piping.

Metal	Plastic
High density • Crane is needed for transport. • Requires wide spacing for fixings. • High anchoring forces, fixing required.	Low density • Can be carried by hand up to d110. • Requires minimal spacing for fixings. • Simple and economical.
Thermal conductivity • Insulation is needed to limit heat loss. • Formation may result in corrosion.	Low thermal conductivity • Limited heat loss. • Low levels of condensation and resistance to corrosion.
Corrosion Behaviors • Galvanic corrosion can occur. • Corrosion reduces internal diameter. • Reduced diameter causes pressure losses.	High Corrosion Resistance • Galvanic Corrosion Free. • Prevents corrosion and diameter reduction. • No pressure losses.
Chemical resistance • Low Resistance to Acids. • Damage from Incrustation.	High chemical resistance • A minimum of 25-years of life with correct jointing methods. • Incrustation free.

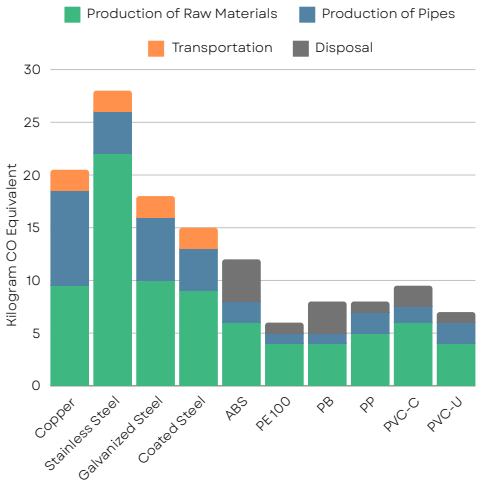
Thermoplastics in turn can be split into two main categories as partially-regulated (semi-crystalline) and iregular (amorphous) molecular structures.

- Semicrystalline thermoplastics, which have a partially ordered molecular structure: this category includes the polyolefins (polypropylene, polyethylene, polybutylene) and fluoropolymers (PP, PE, etc.)
- Amorphous thermoplastics, which have no crystalline regions and no packed molecular structure: this category includes the vinyl chlorides (PVC-U, PVC-C, etc.) and styrenes (ABS, polystyrene, etc.]

Semicrystalline materials are more suitable for hot welding, while amorphous thermoplastics are ideal for cementing or cold welding (solvent cementing).

Carbon Footprint of Plastics Vs Metal

It is the total of all greenhouse gases emitted to the atmosphere during the entire lifetime including the processes for extracting a product having carbon footprint from under the ground, refining, producing, using and disposing of that product.



PEX-a Expansion Piping System

Discover unparalleled reliability and flexibility with our advanced PEX Piping System, engineered to meet the diverse needs of modern plumbing applications. Crafted from high-quality cross-linked polyethylene, our PEX pipes offer exceptional durability, ensuring longevity and peace of mind for residential, commercial, and industrial projects alike.

- Versatile Application: Suitable for hot and cold water, adapts to varying temperatures and pressures.
- Durable Construction: Strong, corrosion-resistant material minimizes maintenance needs.
- Flexible Design: Easily installs around obstacles, reduces fittings and potential leaks.
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- Safety Assured: Non-toxic, BPA-free, meets ASTM and NSF standards for drinking water.
- Cost-Effective: Excellent thermal efficiency lowers energy costs over time.
- Easy Installation: Multiple connection options streamline setup, saving on labor and expenses.

Fields of Application

- Residential plumbing systems
- Commercial buildings
- Hydronic heating systems
- Radiant floor heating
- Potable water distribution

Certifications

Technical data

Working Temperature

- 73.4°F at 160 psi
- 180°F at 100psi

(Suitable for a wide range of diverse climatic conditions.)

Pipe Standard

- ISO 15875-1
- ISO 15875-2

PEX-a Pipe Range

PEX-a Pipes (Coil)

Size (mm)	Length (meter)	Product Code	Color	Pkg.
16 x 1.8	100	PEXATB161810A	White	100m
20 x 1.9	100	PEXATB201910A	White	100m
25 x 2.3	50	PEXATB252350A	White	50m
32 x 2.9	50	PEXATB322950A	White	50m

PEX-a Pipes (Straight Length)

Size (mm)	Length (meter)	Product Code	Color	Pkg.
16 x 1.8	5	PEXATB161805A	White	50
20 x 1.9	5	PEXATB201905A	White	40
25 x 2.3	5	PEXATB252305A	White	25
32 x 2.9	5	PEXATB322905A	White	15

PEX-a Pipes (Blue Conduit) (Coil)

Size (mm)	Length (meter)	Product Code	Color	Pkg.
16 x 1.8	100	PEXATGA16181A	Blue	100m
20 x 1.9	50	PEXATGA20195A	Blue	50m

PEX-a Pipes (Red Conduit) (Coil)

Size (mm)	Length (meter)	Product Code	Color	Pkg.
16 x 1.8	100	PEXATGR16181A	Red	100m
20 x 1.9	50	PEXATGR20195A	Red	50m

PEX Fittings Range

Fittings

EXPANSION RING - RED

Size (mm)	Product Code	Pkg.
16	RPERALACA16R	300
20	RPERALACA20R	150
25	RPERALACA25R	75

EXPANSION RING - BLUE

Size (mm)	Product Code	Pkg.
16	RPERALACA16A	300
20	RPERALACA20A	150
25	RPERALACA25A	75

EXPANSION RING - WHITE

Size (mm)	Product Code	Pkg.
32	RPERALACA32B	50

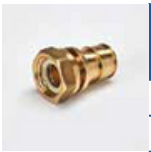
FEMALE ADAPTOR

Size (cm x inch)	Product Code	Pkg.
1.6 x ½	RPERALARH1612	150
2.0 x ½	RPERALARH2012	125
2.0 x ¾	RPERALARH2034	100
2.5 x ½	RPERALARH2512	75
2.5 x ¾	RPERALARH2534	75
2.5 x 1	RPERALARH251	50
3.2 x ¾	RPERALARH3234	40
3.2 x 1	RPERALARH321	35
3.2 x 1¼	RPERALARH32114	24

MALE ADAPTOR

Size (cm x inch)	Product Code	Pkg.
1.6 x ½	RPERALARC1612	150
1.6 x ¾	RPERALARC1634	125
2.0 x ½	RPERALARC2012	125
2.0 x ¾	RPERALARC2034	100
2.0 x 1	RPERALARC201	100
2.5 x ½	RPERALARC2512	75
2.5 x ¾	RPERALARC2534	75
2.5 x 1	RPERALARC251	75
2.5x 1¼	RPERALARC25114	35
3.2 x ¾	RPERALARC3234	40
3.2 x 1	RPERALARC321	40
3.2 X 1¼	RPERALARC32114	24

FEMALE LOOSE FITTING



Size (cm x inch)	Product Code	Pkg.
1.6 x ½	RPERALARM1612	75
2.0 x ½	RPERALARM2012	100
2.5 x ¾	RPERALARM2534	60

REDUCER COUPLER

Size (cm x inch)	Product Code	Pkg.
2.0 x 1.6	RPERALAMR2016	150
2.5 x 2.0	RPERALAMR2520	100
3.2 x 2.5	RPERALAMR3225	25

COUPLER

Size (cm)	Product Code	Pkg.
1.6	RPERALAMU16	175
2.0	RPERALAMU20	150
2.5	RPERALAMU25	75
3.2	RPERALAMU32	25

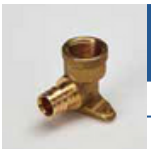
ELBOW WITH MALE THREADED END

Size (cm x inch)	Product Code	Pkg.
1.6 x ½	RPERALATCM1612	01
2.0 x ½	RPERALATCM2012	01

EXTRACTABLE ELBOW

Size (cm x inch)	Product Code	Pkg.
1.6 x ½	M432007101	64
2.0 x ½	M432007102	48

ELBOW WITH FIXING BASE



Size (cm x inch)	Product Code	Pkg.
1.6 x ½	RPERALACBF162	75
2.0 x ½	RPERALACBF202	50

REDUCER TEE

Size (cm x cm x cm)	Product Code	Pkg.
2.0 x 1.6 x 1.6	RPERALAT20166	50
2.0 x 1.6 x 2.0	RPERALAT20160	50
2.0 x 2.0 x 1.6	RPERALAT20206	50
2.5 x 1.6 x 2.5	RPERALAT25165	30
2.5 x 2.0 x 2.0	RPERALAT25200	30
2.5 x 2.0 x 2.5	RPERALAT25205	30
2.5 x 2.5 x 2.0	RPERALAT25250	30

END CAP (FEMALE)

Size (cm)	Product Code	Pkg.
1.6	RPERALAEH16	50
2.0	RPERALAEH20	50
2.5	RPERALAEH25#	50
3.2	RPERALAEH32	01

ELBOW

Size (cm)	Product Code	Pkg.
1.6	RPERALAC16	100
2.0	RPERALAC20	75
2.5	RPERALAC25	50
3.2	RPERALAC32	24

TEE

Size (cm)	Product Code	Pkg.
1.6	RPERPLAT16	75
2.0	RPERPLAT20	50
2.5	RPERPLAT25	30
3.2	RPERPLAT32	15

ELBOW WITH FEMALE THREADED END

Size (cm x inch)	Product Code	Pkg.
1.6 x ½	RPERALATC1612	100
2.0 x ½	RPERALATC2012	75
2.0 x ¾	RPERALATC2034	60
2.5 x ¾	RPERALATC2534	50

TEE WITH FEMALE THREADED END

Size (cm x inch)	Product Code	Pkg.
1.6 x ½	RPERALASH1612	75
2.0 x ½	RPERALASH2012	50

SHUT-OFF BALL VALVE STRAIGHT

Size (cm)	Product Code	Pkg.
1.6	RPERALCUVAB16	20
2.0	RPERALCUVAB20	20
2.5	RPERALCUVAB25	20

MANIFOLD - NORMAL

Size (inch - nobs)	Product Code	Pkg.
¾ - 2	PRETALCOL234	30
¾ - 3	PRETALCOL334	20

CEILING MANIFOLD

Size (cm)	Product Code	Pkg.
2.0-2.0-1.6-1.6	RPERALKZ20066	25
2.0-2.0-1.6-1.6-1.6	RPERALKBD3	25

MANIFOLD WITH THROTTLING VALVE

Size (inch - nobs)	Product Code	Pkg.
¾ - 2	C522N00TV	30
¾ - 3	C523N00TV	20
¾ - 4	C524N00TV	15

PPSU Fittings

COUPLER IN PPSU

Size (cm)	Product Code	Pkg.
1.6	RPERPLAMU16	175
2.0	RPERPLAMU20	150
2.5	RPERPLAMU25	75
3.2	RPERPLAMU32	25

TEE IN PPSU

Size (cm)	Product Code	Pkg.
1.6	RPERPLAT16	75
2.0	RPERPLAT20	50
2.5	RPERPLAT25	30
3.2	RPERPLAT32	15

REDUCER TEE IN PPSU

Size (cm x cm x cm)	Product Code	Pkg.
2.0 x 1.6 x 1.6	RPERPLAT20166	50
2.0 x 1.6 x 2.0	RPERPLAT20160	50
2.0 x 2.0 x 1.6	RPERPLAT20206	50
2.5 x 1.6 x 2.5	RPERPLAT25165	30
2.5 x 2.0 x 2.0	RPERPLAT25200	30
2.5 x 2.0 x 2.5	RPERPLAT25205	30
2.5 x 2.5 x 2.0	RPERPLAT25250	30

REDUCER COUPLER IN PPSU

Size (cm x cm)	Product Code	Pkg.
2.0 x 1.6	RPERPLAMR2016	150
2.5 x 2.0	RPERPLAMR2520	100
3.2 x 2.5	RPERPLAMR3225	100

ELBOW IN PPSU

Size (cm)	Product Code	Pkg.
1.6	RPERPLAC16	100
2.0	RPERPLAC20	75
2.5	RPERPLAC25	50
3.2	RPERPLAC32	20

CEILING MANIFOLD IN PPSU

Size (cm)	Product Code	Pkg.
2.0-2.0-1.6-1.6	RPERPLAZ20066	25

CEILING MANIFOLD IN PPSU

Size (cm)	Product Code	Pkg.
2.0-2.0-1.6-1.6 -1.6	RPERPLABD3	25

Technical Properties

NOMINAL SIZE (cm)	NOMINAL SIZE (mm)	OUTER DIAMETER (mm)	TOLERANCE FOR OD (mm)	MINIMUM WALL THICKNESS (mm)
1.6	16	16	+0.3	1.8
2.0	20	20	+0.3	1.9
2.5	25	25	+0.3	2.3
3.2	32	32	+0.3	2.9

TECHNICAL CHARACTERISTICS

PROPERTIES	ABBREVIATION	VALUE	UNITS
Linear expansion	l	$1.4x10^{-4}$	K^{-1}
Thermal conductivity	Rl	0.38	W/mK
Maximum working temperature	T	95	°C
Maximum temperature point	T	110	°C
Maximum working pressure at 95°C	P	6	Bar
Roughness	E	0,007	mm
Density	r	0.945	gm/cm^3

PRESSURE LOSSES

OD (mm)	VELOCITY (mtr/sec)	FLOW (ltr/sec)	PRESSURE LOSS (bar)	PRESSURE LOSS (psi)
16	0.4	0.05	0.0023	0.0339
20	0.4	0.08	0.0017	0.0239
25	0.4	0.13	0.0012	0.0177
32	0.4	0.22	0.0009	0.0128

Flowrate (L/min) vs Head Loss (kPa) - Per Metre of Pipe

Pipe Size	4L/min	8L/min	12L/min	16L/min	20L/min	24L/min	28L/min	32L/min
16mm	0.59	1.75	3.71	6.33	9.57			
20mm	0.14	0.52	1.09	1.86	2.82	3.95	5.25	6.72

Example 1: At 8L/min flowrate, the head loss is 1.75kPa for every metre of 16mm pipe run.

Example 2: At 8L/min flowrate, the total head loss of a pipeline using two 16mm elbow, one 16mm coupling together with 20M of 16mm pipe is equivalent to (12.5 + 20) x 1.75 = 56.9kPa.

Pressure or head loss

This table below shows pressure loss through PEX Pipe at various flow rates per metre of pipe.
In order to determine the pressure loss through the pipe, the given flow rate for a particular portion of tube must be established, along with the required pipe length used.

The pressure loss can then be read off from the table directly.

It is important to understand the information provided here is theoretical and based on new clean pipe. No allowance has been made for age or any abnormal conditions of the interior surface of the pipe.

Minimum Cold Bending Radii

Bending of the pipe for change of direction is preferable to elbows however fittings will be required where sharp bends are necessary. Tighter bends can be achieved using a bend support.

Do not use pipes that have; kinks, cuts, deep scratches, squashed ends, imperfections or have been in contact with grease or tar substances. Any of the above should be cut out and replaced as these conditions may affect the integrity of the system.

UV Resistance

PEX pipe and fittings should not be installed in direct or reflected sunlight as the material may degrade with extended UV exposure. Where external installation is required, install the pre-conduited PEX product or provide other similar UV protection.

Thermal Properties

PEX pipe will not melt. This is due to the irreversible cross linking process which has changed the chemical structure of the base polyethylene.

Property	Value
Ignition Temperature °C	380
Specific Heat (J/kg/K)	2300
Density (g/cm³)	0.94
Thermal Expansion Coefficient (x10-6/K)	14.22

Thermal Linear Expansion

The table below represents expansion and contraction of PEX pipe in millimeters, resulting from a given change in temperature.

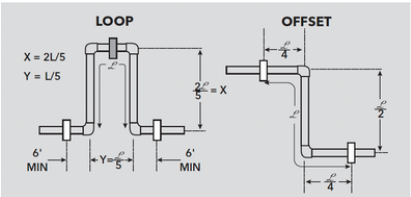
The table is calculated using the following equation: Change in pipe length = 0.1422 x Pipe length x Change in temperature.

Change in temperature °C

Length of pipe in metres	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
1	1.4	1.7	2.0	2.3	2.6	2.8	3.1	3.4	3.7	4.0	4.3	4.6	4.8	5.1	5.4	5.7
2	2.8	3.4	4.0	4.6	5.1	5.7	6.3	6.8	7.4	8.0	8.5	9.1	9.7	10.2	10.8	11.4
4	5.7	6.8	8.0	9.1	10.2	11.4	12.5	13.7	14.8	15.9	17.1	18.2	19.3	20.5	21.6	22.8
6	8.5	10.2	11.9	13.7	15.4	17.1	18.8	20.5	22.2	23.9	25.6	27.3	29.0	30.7	32.4	34.1
8	11.4	13.7	15.9	18.2	20.5	22.8	25.0	27.3	29.6	31.9	34.1	36.4	38.7	41.0	43.2	45.5
10	14.2	17.1	19.9	22.8	25.6	28.4	31.3	34.1	37.0	39.8	42.7	45.5	48.3	51.2	54.0	56.9
12	17.1	20.5	23.9	27.3	30.7	34.1	37.5	41.0	44.4	47.8	51.2	54.6	58.0	61.4	64.8	68.3
14	19.9	23.9	27.9	31.9	35.8	39.8	43.8	47.8	51.8	55.7	59.7	63.7	67.7	71.7	75.7	79.6
16	22.8	27.3	31.9	36.4	41.0	45.5	50.1	54.6	59.2	63.7	68.3	72.8	77.4	81.9	86.5	91.0
18	25.6	30.7	35.8	41.0	46.1	51.2	56.3	61.4	66.5	71.7	76.8	81.9	87.0	92.1	97.3	102.4
20	28.4	34.1	39.8	45.5	51.2	56.9	62.6	68.3	73.9	79.6	85.3	91.0	96.7	102.4	108.1	113.8
22	31.3	37.5	43.8	50.1	56.3	62.6	68.8	75.1	81.3	87.6	93.9	100.1	106.4	112.6	118.9	125.1
24	34.1	41.0	47.8	54.6	61.4	68.3	75.1	81.9	88.7	95.6	102.4	109.2	116.0	122.9	129.7	136.5
26	37.0	44.4	51.8	59.2	66.5	73.9	81.3	88.7	96.1	103.5	110.9	118.3	125.7	133.1	140.5	147.9
28	39.8	47.8	55.7	63.7	71.7	79.6	87.6	95.6	103.5	111.5	119.4	127.4	135.4	143.3	151.3	159.3
30	42.7	51.2	59.7	68.3	76.8	85.3	93.9	102.4	110.9	119.4	128.0	136.5	145.0	153.6	162.1	170.6
32	45.5	54.6	63.7	72.8	81.9	91.0	100.1	109.2	118.3	127.4	136.5	145.6	154.7	163.8	172.9	182.0
34	48.3	58.0	67.7	77.4	87.0	96.7	106.4	116.0	125.7	135.4	145.0	154.7	164.4	174.1	183.7	193.4
36	51.2	61.4	71.7	81.9	92.1	102.4	112.6	122.9	133.1	143.3	153.6	163.8	174.1	184.3	194.5	204.8
38	54.0	64.8	75.7	86.5	97.3	108.1	118.9	129.7	140.5	151.3	162.1	172.9	183.7	194.5	205.3	216.1
40	56.9	68.3	79.6	91.0	102.4	113.8	125.1	136.5	147.9	159.3	170.6	182.0	193.4	204.8	216.1	227.5

Calculation of Expansion

A single properly sized expansion loop suffices for each individual straight run, irrespective of its overall length. Alternatively, multiple smaller expansion loops, suitably sized, can be employed within a single pipe run for thermal movement accommodation. It's crucial to suspend the pipe using smooth straps that do not impede movement.



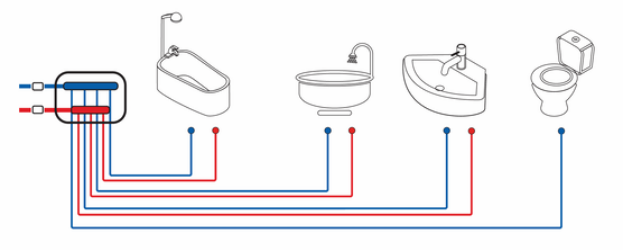
Thermal expansion compensator loop/ offset

$\mathcal{L}$ = expansion loop value

Installation

TYPES OF INSTALLATION

PEX flexible plumbing systems, offer versatility in design and installation, accommodating conventional T-fitting, serial, or manifold installation methods. The user has the discretion to select the preferred system and design. Regardless of the chosen installation method, Edoburg provides an extensive range of products and fittings to optimize installation efficiency and cost-effectiveness, ensuring the provision of optimal solutions.



Pex piping system features single piping connections with a manifold for both hot and cold water distribution, facilitating water flow exclusively through individual pipes to the draw-off points.

On the other hand, the PEX system offers double hot water terminals with dual pipe connections, designed to accommodate large water flow demands while minimizing pressure loss.

These systems offer several advantages including decreased circuit length, enhanced comfort through faster hot water availability, and the ease of intercepting draw-off points on the manifold.

Timber Frames

Drill holes through studs, plates etc. large enough so that the pipe can move freely through the holes to allow for expansion and contraction and pressure surges.

To avoid noises where pipes pass through studs, plates etc. that have large holes, gromment or sleeve hould be given in the annular space in the stud or plate. Ensure that pipe is protected when bending against frames etc.

Steel Frames

Ensure that where a pipe passes through a steel frame a suitable sleeve or gromment is used to protect the pipe against raw edges so it can still move through.

Precautions

Electrical

It is of the utmost importance that if a metallic pipe is being replaced or installed in part of its entirety by a plastic pipe or other non-metallic fittings or couplings, no work should be carried out until the earth requirements have been checked by an electrical contractor and modified if necessary.

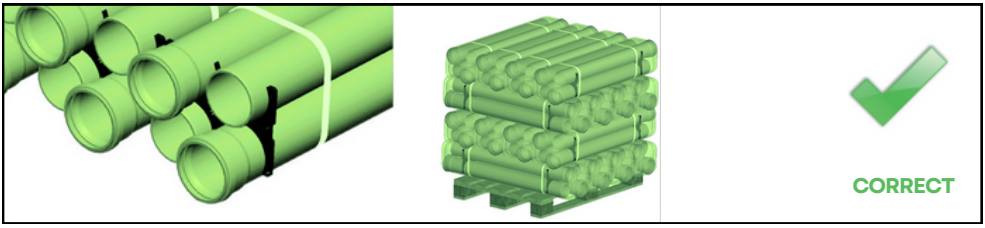
Chemicals

Drinking water provides life therefore any chemical exposure to pipes and fittings not only could contaminate the quality of our drinking water. So, during installation, any chemical based products such as primers, solvent cement, expansion foams, marking paints must not be used within a 1m proximity of drinking water pipes and fittings.

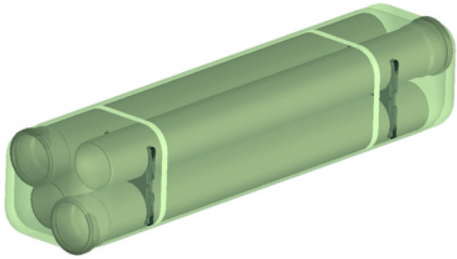
Packaging, Storage and Transportation

Packaging

Our pipes and fittings are packed as ready for transport in a customer-friendly way. Packing ensures safety, efficient storage and easy transport.

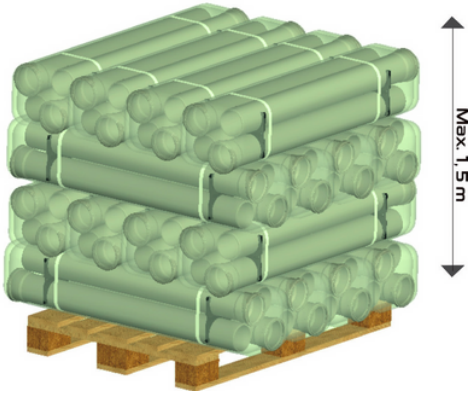


Short parts with the length of 150, 250 and 500 mm are packed in carton boxes like connection parts.



Pipes are packed by plastic clamps to hold them together. Stretch film is applied to protect pipes from pipes dust and stains.

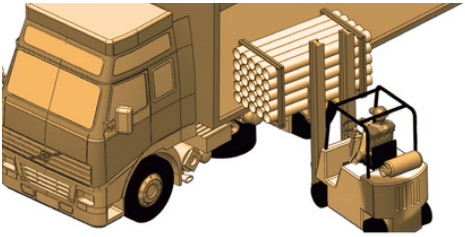
Storage

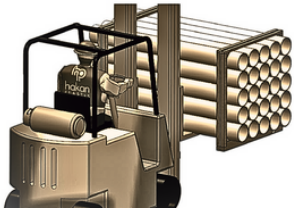


Method of storage should not cause any outflow and should not damage the pipes. As long as they are stored properly, no permanent deformations or damages will occur on the pipes and fittings. Pipes should not be stacked above 1,5 m. Pipes should be safe against sliding.

Pipes and fittings packed in carton boxes should be protected against moisture. Carton boxes should be sealed and stored in a dry area.

Transportation





Pipes should be carefully transported to prevent any damages. Avoid sudden and hard pressures on pipes and fittings that might cause freezing in cold weather conditions. Ensure that pipes are not slided and dropped on the floor. Loading and unloading and packing of pipes in a block should be carried out by means of forklifts having flat threads and extensions.

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