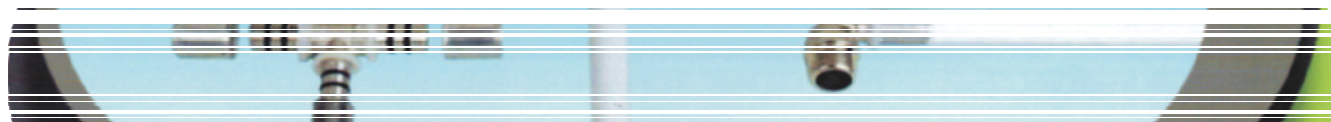




**Liquid Recovery
Solutions**

LINEA
PIPE INDUSTRIES



**SUPPLIERS OF MULTILAYER PEX/AL/PEX PIPE TO
THE CONSTRUCTION & PLUMBING INDUSTRIES**

**ENERGY SAVING COST EFFECTIVE PIPING
SYSTEM THAT REPLACES COPPER
INSTALLATIONS WITH NO THEFT VALUE**

**WATER SERVICES-SOLAR-HEAT PUMPS-
CHILLED WATER- UNDERFLOOR HEATING-
COMPRESSED AIR.**

**LIQUID RECOVERY SOLUTIONS:
DISTRIBUTORS OF LINEA PIPING SYSTEMS
INFO@LIQUIDRECOVERY.CO.ZA**

MARK: 071 536 9204

GLEN: 082 258 7060

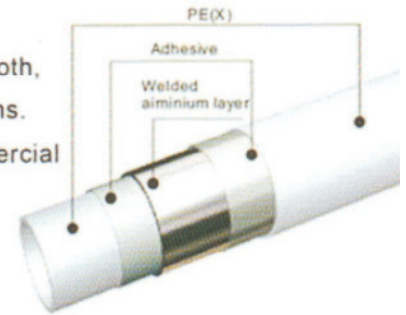
SEBASTION: 076 116 9590



THE BENEFITS OF MULTILAYER PIPE

APPLICATIONS

Combining the benefits of metal and plastic material, but avoiding the drawbacks of both, PEX/AL/PEX multilayer pipes are an ideal choice for potable water distribution systems. PEX/AL/PEX multilayer pipe and fittings are compatible with all residential and commercial applications, including **Water Services, Solar Panels & Geysers, Heat Pumps, Air-conditioning (Chilled Water), Under Floor Heating, domestic gas, and Compressed Air applications.**



This pipe is made up of a longitudinal butt welded aluminium layer that is surrounded on the inside and outside by layers of cross-linked polyethylene. The aluminium provides excellent resistance to **pressure and temperature**. The inner and outer PEX layers inhibit scaling and corrosion whilst the addition of aluminium gives the pipe its strength that makes it the **best alternative to copper**.

ENVIRONMENT

LINEA pipe systems are **air impermeable**, preventing contamination of the medium contained within its system, making it compliant with stringent food regulations. The choice of resin (PEX) is a key factor in the construction of our pipe enhancing its performance of **high pressures and temperatures**.

Worldwide there is a concern over the safety of drinking water. The decline in water quality has been attributed to **corrosion, and scale buildup of old pipe systems**. Hygiene, no scale build-up, and zero-corrosion of PEX/AL/PEX multilayer pipes provide a clear advantage in water delivery systems.

SIMPLICITY

LINEA PEX/AL/PEX multilayer pipes systems are lightweight and easy to handle, and have coil lengths of up to 200m to allow longer runs, less connections reducing potential leak points. It's fast and easy to join in four simple steps (**Cut, Bevel, Insert and Crimp**). Any bend of any angle can be made effortlessly by tool or hand for easy installation.

SUMMATION OF ADVANTAGES

- PEX/AL/PEX multilayer pipes have been designed to offer the end user the advantages of both metallic and polymer piping systems
- Price competitive
- Quick and easy to install
- No theft value
- 3 Times the life of metal pipes – no corrosion
- Guaranteed leak free joints
- Safe to use – no sharp edges, no naked flames, or gas required
- Hygienic non toxic – no micro organism growth
- 30% better flow rate than metal pipes
- Expansion rate, same as metal pipes
- Easy to handle – 200 metres of pipe weighs 24kgs
- 50-80 years working life
- Guaranteed for 20 years

ENERGY SAVING COST EFFECTIVE PIPING SYSTEM THAT REPLACES COPPER INSTALLATIONS WITH NO THEFT VALUE



SPECIFICATION	PACKAGING SPECIFICATIONS(M)
1216	200
1620	200
2025	100
2632	50

EXAMPLE OF INCREASE IN LENGTH OF A 10M LENGTH OF PIPE WITH A 70° C TEMPERATURE RISE

Physics principle: All materials expand as temperature increases.
If temperature falls, the material contracts.

Comparison to other pipe materials expansion coefficients

← 10 m →

LINEA	0.0238	16mm
PVC-C	0.08	56mm
PB	0.13	91mm
PP	0.15	105mm
PPR	0.18	126mm
PE-X	0.20	140mm
Copper	0.017	12mm

RULE OF THUMB:

Cold water:

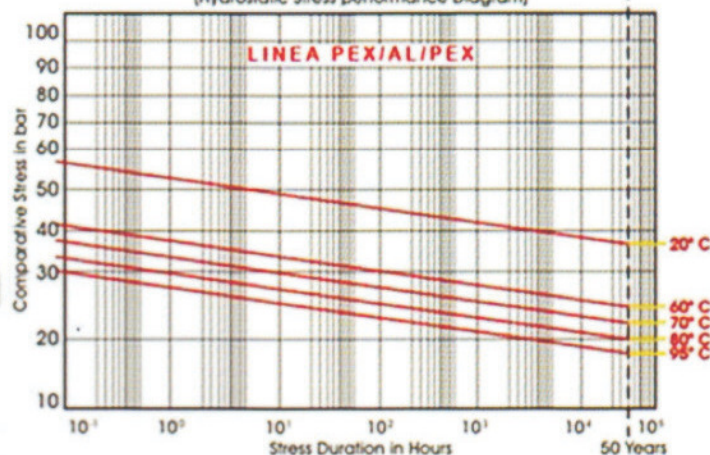
• No particular measures are necessary.

Hot water:

• No particular measures are necessary for straight LINEA pipe sections of less than 12m.

• An anchor point is necessary for straight LINEA pipe sections of more than 12m.

Internal Pressure - Rupture Strength (Hydrostatic Stress performance Diagram)



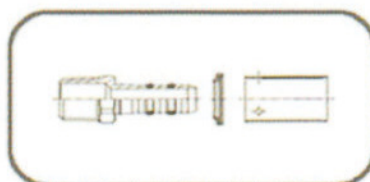
Equal Straight - Specifications

S1216 x 1216	S2632 x 2632
S1620 x 1620	
S2025 x 2025	



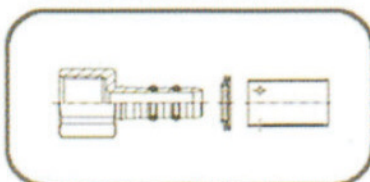
Male Straight - Specifications

S1216 x 1/2	S1620 x 3/4	S2632 x 1
S1216 x 3/4	S2025 x 1/2	S2632 x 3/4
S1620 x 1/2	S2025 x 3/4	



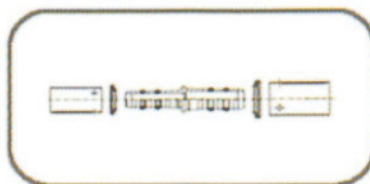
Female Straight - Specifications

S1216 x 1/2F	S1620 x 3/4F	S2632 x 1F
S1216 x 3/4F	S2025 x 1/2F	S2632 x 3/4F
S1620 x 1/2F	S2025 x 3/4F	



Reducing Straight - Specifications

S1620 x 1216	S2632 x 1216
S2025 x 1216	S2632 x 1620
S2025 x 1620	S2632 x 2025



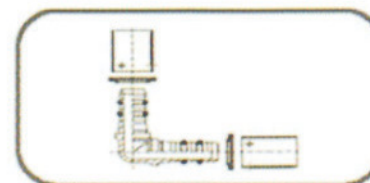
Demountable Straight - Specifications

S1216 x 1/2F(H)	S2632 x 1 F(H)
S1620 x 3/4 F(H)	
S2025 x 3/4 F(H)	



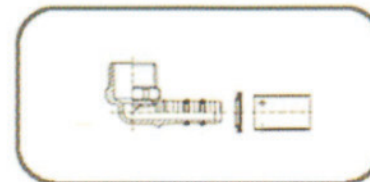
Equal Elbow - Specifications

L1216 x 1216	L2632 x 2632
L1620 x 1620	
L2025 x 2025	



Male Elbow - Specifications

L1216 x 1/2	L1620 x 3/4	L2632 x 1
L1216 x 3/4	L2025 x 1/2	
L1620 x 1/2	L2025 x 3/4	





Female Elbow – Specifications

L1216 x 1/2F	L1620 x 3/4F	L2632 x 1F
L1216 x 3/4F	L2025 x 1/2F	
L1620 x 1/2F	L2025 x 3/4F	



Reducing Elbow – Specifications

L1620 x 1216	L2632 x 1620
L2025 x 1216	
L2025 x 1620	



Wall Plated Elbow – Specifications

L1216 x 1/2 F(Z)	L2025 x 3/4 F(Z)
L1620 x 1/2 F(Z)	
L1620 x 3/4 F(Z)	



Equal Tee – Specifications

T1216 x 1216 x 1216	T2632 x 2632 x 2632
T1620 x 1620 x 1520	
T2025 x 2025 x 2025	



Male Tee – Specifications

T1216 x 1/2 x 1216	
T1620 x 1/2 x 1620	



Female Tee – Specifications

T1216 x 1/2F x 1216	T2025 x 3/4F x 2025	
T1620 x 1/2F x 1620	T2632 x 3/4F x 2632	
T2025 x 1/2F x 2025	T2632 x 1F x 2632	



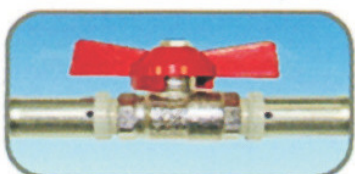
Reducing Tee – Specifications

T1620 x 1216 x 1620	T2025 x 1620 x 2025	T2632 x 1620 x 2632
T1620 x 2025 x 1620	T2025 x 2632 x 2025	T2632 x 2025 x 2632
T2025 x 1216 x 2025	T2632 x 1216 x 2632	



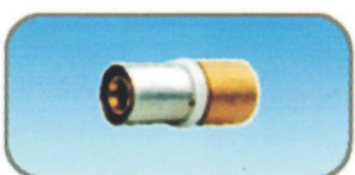
Compression Adaptor – Specifications

S1216 x 15CU2	
S1620 x 22CU2	
S2025 x 22CU2	



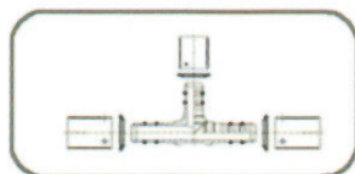
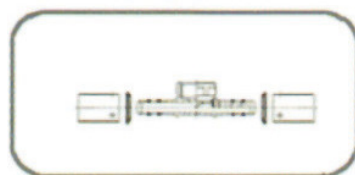
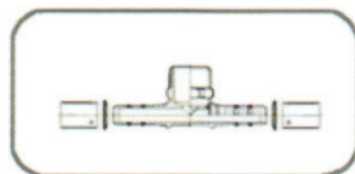
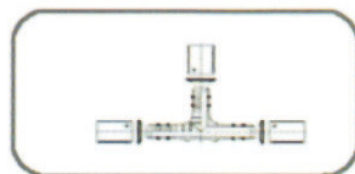
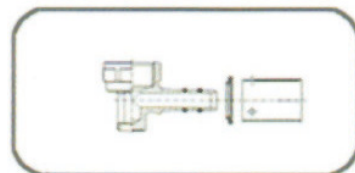
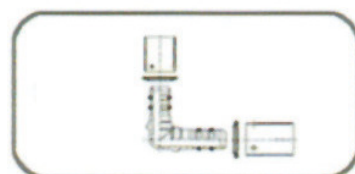
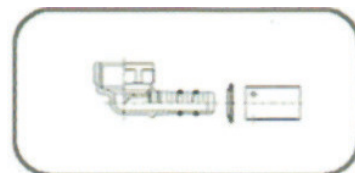
Butterfly Ball Valve – Specifications

V1216 x 1216	
V1620 x 1620	
V2025 x 2025	



Multi-Welded Straight – Specifications

S1216 x 1/2CUF	
S1620 x 3/4CUF	
S2025 x 3/4CUF	



Product Features

- Cost Effective
- Easy and Quick Installation
- Hot and Cold Water
- No Corrosion
- High Form Stability
- No Theft Value
- Wide Range of Sizes
- 50 Year Life Span



Pressing Clamp



Reamer



T-Reamer



Pipe Cutter

SABS

Permit to Apply Certification Mark

Subject to the provisions of the Standards Act, 2008
(Act 8 of 2008), the relevant regulations made thereunder and the permit
conditions contained in the under mentioned schedules, this permit authorizes

LINEA PIPE INDUSTRIES (PTY) LTD (TRADING AS LINEA PIPE) ZHEJIANG, CHINA

to apply the certification mark



in respect of the mark specification:

**SANS 21003-2, 3 & 5:2008/ISO 21003-2, 3 & 5:2008
MULTILAYER PIPING SYSTEMS FOR HOT AND
COLD WATER INSTALLATIONS INSIDE BUILDING
PART 2: PIPES
PART 3: FITTINGS
PART 5: FITNESS FOR PURPOSE OF THE SYSTEM**

- This permit, including schedules 1 to 3 which form an integral part thereof,
- is issued without alteration;
 - is identified by the applicable permit number;
 - is subject to any condition or limitation contained therein;
 - is valid subject to ongoing compliance with permit conditions;
 - bears the embossed SABS Commercial seal. In the absence of the seal, the Permit and the schedules shall be invalid, and the permit may be authenticated by referring to the register of 'Certified Clients' on the SABS Commercial website (www.sabs.co.za).

Permit Number	9457/14993
Effective Date	29 June 2011
Expiry Date	29 June 2014
Date of Original Registration	29 June 2011

Director

B. Mchlo makulu



SABS COMMERCIAL (Pty) Ltd
1st Floor, 105, Greenleaf, Pretoria
P.O. Box 105, 001
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