

## CERTIFICATES



## ABOUT SANT - RIFENG

Established in 1996, the factory has been committed to developing high-quality and environmental-friendly piping products that cover the plumbing, indoor climate, drainage, and gas applications etc. The company has upgraded its product range from multilayer pipes to PEX, PP-R, PVC and brass hardware and strives to provide professional systematic solutions.



Management System  
ISO 9001:2015  
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ID 110009308

**SANT INTERNATIONAL PVT. LTD.**

**SOLE MARKETING REPRESENTATIVE**

Opp. S.S. Forgings, G.T. Road Bye Pass, Near Pathankot Chowk,  
Jalandhar – 144012, Punjab, India

T: +91-181-2709100

E: santrifeng@gmail.com

F: +91-181-2603308

W: www.santrifeng.com



# RIFENG MULTILAYER PIPES

## External and internal layers

They are made of cross-linked polyethylene that is extensively used in distribution of potable water. The silane cross-linking provides superior chemical and mechanical properties.



## Intermediate layer

An aluminium alloy with overlapped welding that guarantees a total barrier to the passage of oxygen and light and provides excellent mechanical and chemical properties.

## Bonding layers

They are made of a powerful adhesive that bonds the intermediate aluminium layer with the internal and external layers.

## Advantages of Multilayer Pipes

- Corrosion-resistant
- Barrier to the permeation of oxygen and light
- Guaranteed lifetime up to 50 years
- Light in weight and flexible
- Smooth inner wall ensures low pressure loss
- Ideal for plumbing solutions

## Technical Data

Diameter(mm)	14	16	18	20	25	32	40	50		
Inner diameter(mm)	10	12	14	16	20	26	32	41		
Material	HDPE-AL-HDPE, PERT-AL-PERT, PEX-AL-PEX									
Wall thickness(mm)	2	2	2	2	2.5	3	4	4.5		
Roughness(mm)	0.0007									
Thermal conduction (w/mk)	0.45									
Thermal coefficient of expansion mm/mxK	0.025									
Maximum operating temperature(°C)	80°C for HDPE-AL-HDPE pipes, 95°C for PERT-AL-PERT and PEX-AL-PEX pipes									
Maximum operating pressure(bar)	10 bar									
Minimal manual bending radius(mm)	70	80	90	100	125	160	6			
Coil length(m)	200	200	200	200	200	100	25	6	6	6
Weight per coil(kg/m)		18.6±2	22.0±2	26.0±2	29.2±2	21.5±2				

# RANGE OF MULTILAYER PIPES

## PEX-AL-PEX Multilayer Pipes

Specifications	Length per coil (m)	Color(outer/inner)	Application
B1-1216	100/200	White/Transparent Yellow/Transparent Black/Transparent Orange/Transparent Green/Transparent Red/Transparent Purple/Transparent	Supply of cold and hot water, Underfloor heating and cooling
B1-1620	100/200		
B1-2025	50/100		
B1-2632	50/100		
B1-3240	25/6m stick		
B1-4150	6m stick only		

## HDPE-AL-HDPE Gas Pipes

Specifications	Length per coil (m)	Color (outer/inner)	Application
C-1216	100/200	Yellow/Black	Application of gas supply
C-1620	100/200		
C-2025	50/100		
C-2632	50/100		

## HDPE-AL-HDPE Multilayer Pipes

Specifications	Length per coil (m)	Color (outer/inner)	Application
A-1216	100/200	White/White	Supply of cold water
A-1620	100/200		
A-2025	50/100		
A-2632	50/100		
A-3240	25/6m stick		
A-4150	6m stick only		

# FITTINGS AND MANIFOLDS FOR MULTILAYER PIPES

## F1

### Compression Fittings

- Removable and reusable
- Quick and simple installation
- Excellent sealing performance
- Suitable for distribution of potable water



## F5

### Press Fittings

- U pressing profile
- Cost-effective
- Ease of installation



## FS4

### Brass Manifolds with Stop Valves

- High compactness and less risk of leakage
- With stop valves to control each branch
- Free to joint with others to realize customized design

