

## FIVE-LAYER PIPES AND FITTINGS

| YAZD PIPE Consolidated pipes |



## Why YAZD-PIPE's Five-layer Pex/PERT pipes?

YAZD-PIPE five-layer pipe, has many advantages such as flexibility, high heat resistance, and low linear expansion coefficient. These Products have many applications in sanitary piping systems for hot and cold water, air conditioning and heating systems, Radiant In-Floor heating systems and...

Five-layer pipe is formed of two layers of polymer, two adhesive layers and a layer of aluminum. The outer layer and inner layer are made of polymer based on polyethylene that is attached with two layers of glue to the middle layer which made of aluminum. In the manufacturing of five-layer pipes, Yazd Pipe uses the best raw materials and manufacturing processes to provide products with the highest standards and qualities.

### YAZDPIPE's Five-layer pipe consist of 5 layers:



- 1. Outer Layer:** PERT with all properties. Protects aluminum layer against outer influences
- 2. Middle Layer:** Aluminum Foil is impermeable to oxygen
- 3. Inner Layer:** PERT with all properties. Providing the advantages and benefits of PERT.
- 4. Adhesive Layers:** Special glue which binds the

aluminum with PERT layers.

### Benefits of YAZD-PIPE five-layer pipe:

- Persistent heat resistance.
- High-pressure resistance.
- High resistance to rust, rot and acidic and alkaline environments.
- Prevent the accumulation of sediment and pressure drop.
- Low coefficient of linear expansion.
- The impenetrability of oxygen and ultraviolet radiation.
- Flexibility and speedy installation.





## Press Fittings:

YazdPipe Press fittings, made of brass and nickel are manufactured with up to date technology to prevent corrosion, erosion, and decay.

Precision in design, constant quality control and using High-grade raw materials in accordance with international standards makes this type of products more durable and better sealed and guarantees a better outcome and easier installation compared to other types of fittings.

Interchangeable stainless sleeves connections in YAZD PIPE Fittings neutralizes the necessity to replace the entire piece.

1. **Stainless sleeve:** is interchangeable, and connects the piping to the pipe after pressing.
2. **Main Part:** can be any type of fittings (Elbow, Tee & ...).
3. **Plastic ring:** holds the steel Tube in place before pressing.
4. **Plastic O-Ring:** to better seals the pipe & fittings.

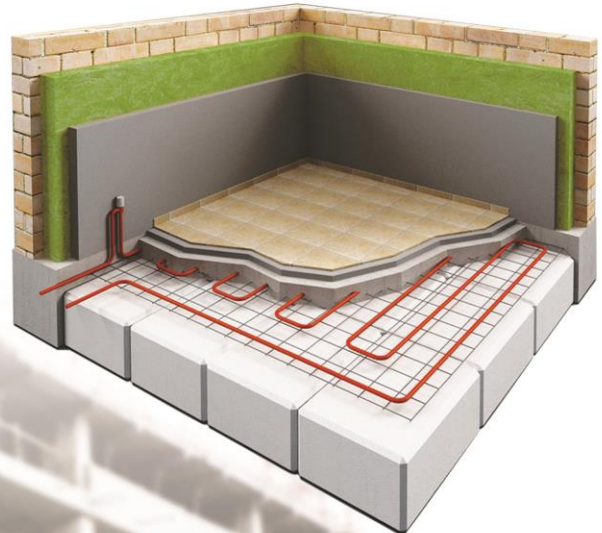


## Radiant In-Floor heating systems:

Radiant heating systems supply heat directly to the floor or to panels in the wall or ceiling of a house. The systems depend largely on radiant heat transfer - the delivery of heat directly from the hot surface to the people and objects in the room via infrared radiation.

Radiant heating has a number of advantages. It is more efficient than baseboard heating and usually more efficient than forced-air heating because it eliminates duct losses.

Hydronic (liquid) systems are the most popular and cost-effective radiant heating systems for heating-dominated climates. Hydronic radiant floor systems pump heated water from a boiler through Five-layer pipes laid in a pattern under the floor.



Installation Bracket

Single  
Double  
280  
500



Straight / Reducing Nipple

1/2  
3/4  
1"



Five-Layer Pipes

16  
20  
25  
32



Collector Cap

"1



Reduce Union Connector

20x 16  
25 x 16  
25 x 20  
32 x 16  
32 x 20  
32 x 25



Female Adaptor

16 x 1/2  
20 x 1/2  
20 x 3/4  
25 x 3/4  
25 x 1  
32 x 1



Stainless sleeve

16  
20  
25  
32



Collector

2b, 3b  
4b, 5b  
6b, 7b  
8b



Wallplate Press Elbow

16x1/2  
20x1/2



Press Male Union

16 x 1/2  
20 x 1/2  
20 x 3/4  
25 x 3/4  
25 x 1  
32 x 1



Press Equal Socket

16  
20  
25  
32



Press Tee

16  
20  
25  
32



Collector Box

45 x 45  
45 x 65  
45 x 95



Wallplate 90° Press Tee

16 x 1/2 x 16  
20 x 1/2 x 20



Collector Valve

16x1/2



Reducing Press Tee

16x20x16  
16x16x20  
20x16x20  
16x20x20  
16x16x25  
20x16x25  
25x16x25  
20x20x25  
25x20x25  
32x16x32



Press Female Elbow

16 x 1/2  
20 x 1/2  
20 x 3/4  
25 x 3/4  
25 x 1  
32 x 1



Press Male Elbow

16  
20  
25  
32

