



## QUAL-PEX PLUS+ 'EASY-LAY' PIPE IN PIPE



### Product Description:

The pipe used in our Pipe-in-Pipe product is Qual-PEX Plus+ 'Easy-Lay' pipe which is Irish IAB Approved & Manufactured to ISEN 21003 & under ISO 9001:2015 Quality Management System.

The Qual-PEX Pipe-in-Pipe system makes use of an outer protective conduit pipe into which, the Qual-PEX plumbing/heating pipe is pre-installed. The Qual-PEX Pipe-in-Pipe system is developed for concealed installations within the structures of either the floor screed, or the walls. The Qual-PEX Pipe-in -Pipe system eliminates joints within structural elements of the building.

### Benefits:

- Pipe in Pipe range comes pre-insulated with conduit to save time, money and energy costs for Domestic, Commercial and Industrial applications.
- Available in imperial sizes of 1/2" & 3/4".
- Coils which are approved for use with Qual-Pex Plus+ 'Easy-Crimp', Tectite and compression fittings.
- Manufactured in Ireland.
- 50 Year guarantee.
- Available through all leading merchants.

### The Conduit:

## CORRUGATED DUCTING SPECIFICATIONS

### PRODUCT DESCRIPTION: BLACK HDPE CORRUGATED DUCTING

		NW19	<b>Comments:</b> <ul style="list-style-type: none"> <li>• Black high density polyethylene raw material</li> <li>• ID – internal diameter (ducting bore) and OD – outer diameter</li> <li>• Description / length supplied – NW19 - 50M &amp; 100M</li> <li>• (NW19 – 100M) Qual-PB ducting suitable for 15mm</li> <li>• (NW19 – 50M) Qual-PB ducting suitable for 15mm</li> </ul>
<b>OD</b>	<b>min</b>	23.80	
	<b>max</b>	24.80	
<b>ID</b>	<b>min</b>	19.00	
	<b>max</b>	19.80	
<b>WT/100M</b>			
(kg)		5.5	

### Guarantee:

The Qual-PEX Pipe in Pipe system is guaranteed against any material or manufacturing defect for a period of 50 years under normal service conditions.

# QUAL-PEX BARRIER PIPE IN PIPE – METRIC



## Product Description:

The pipe used in Qual-PEX Metric Pipe-in-Pipe products is Qual-PEX Barrier Pipe which is certified to BS 7291 Class “S”.

The Qual-PEX Pipe-in-Pipe system makes use of an outer protective conduit pipe into which, the Qual-PEX plumbing/heating pipe is pre-installed. The Qual-PEX Pipe-in-Pipe system is developed for concealed installations within the structures of either the floor screed, or the walls. The Qual-PEX Pipe-in -Pipe system eliminates joints within structural elements of the building.

## Benefits:

- Pipe in Pipe range comes pre-insulated with conduit to save time, money and energy costs for Domestic, Commercial and Industrial applications.
- Available in metric sizes of 10mm, 15mm, 22mm & 28mm.
- Manufactured in Ireland.
- 50 Year guarantee.
- Available through all leading merchants.

## The Conduit:

# CORRUGATED DUCTING SPECIFICATIONS

## PRODUCT DESCRIPTION: BLACK HDPE CORRUGATED DUCTING

		NW19	Comments:
OD	min	23.80	
	max	24.80	
ID	min	19.00	
	max	19.80	
WT/100M			
(kg)		5.5	

## Guarantee:

The Qual-PEX Pipe in Pipe system is guaranteed against any material or manufacturing defect for a period of 50 years under normal service conditions.

# EASY-LAY PB BARRIER PIPE

## Product Description:

Qual-PB barrier pipe is a 5-layer barrier (EVOH) pipe manufactured from polybutylene. Polybutylene is a high molecular weight polymer, manufactured by polymerizing butane-1 and is primarily used in hot water piping applications worldwide. Qual-PB pipe has many advantages over metal and other plastic piping systems; corrosion, scale and electrolysis resistance; freezing tolerance, high temperature pressure carrying capabilities and ease of installation due to its flexibility. Polybutylene pipe thermally expands and allowances of 1% need to be taken into consideration during installations.



## Pipe Dimensions:

Pipe description	Outer diameter	Wall thickness
10mm Qua-PB	9.9 – 10.1	1.5 – 1.8
15mm Qual-PB	14.9 – 15.1	1.6 – 1.9
22mm Qual-PB	21.9 – 22.1	2.0 – 2.3
28mm Qual-PB	27.9 – 28.1	2.6 – 2.9

## PB Pipe Layering – technical information:

1. Polybutylene inner pipe layer (PB).
2. An adhesive layer bonding the inner pipe layer to the oxygen barrier.
3. Ethylene vinyl alcohol copolymer (EVOH) oxygen barrier layer.
4. An adhesive layer bonding the outer pipe layer to the oxygen barrier.
5. Polybutylene outer pipe layer (PB).

## EVOH - oxygen barrier layer:

Qual-PB barrier pipe incorporates an EVOH oxygen diffusion barrier layer sandwiched within the wall of the pipe which protects the layer from physical and UV damage. The EVOH layer which complies with DIN 4726 and ISO 17455 renders the pipe virtually impervious to gases.

## Certification:

Qual-PB barrier pipe is both BS 7291-1&2:2010 Class S and WRAS approved.

## Key Technical / Performance data:

Max operating temperatures / pressures: as per table above.

Thermal conductivity W/m K: 0.45.

Density, tensile and elongation: 0.935 g/cm<sup>3</sup>, >15 MPa and > 125%.

Oxygen diffusion DIN 4726 (g O<sub>2</sub> / m<sup>3</sup> / d) compliant: < 0.1.

Capacity (litre's / meter): 15 x 1.75 = 0.103.

## Qual-PB Product Guarantee:

Qual-PB barrier pipe (white and grey) is guaranteed for a period of: 50 years

Provided Qual-PB installation guidelines are adhered to, the pipe is guaranteed against any manufacturing defects for a period of 50 years.

## The Conduit:

# CORRUGATED DUCTING SPECIFICATIONS

## PRODUCT DESCRIPTION: BLACK HDPE CORRUGATED DUCTING

		NW19	Comments:
OD	min	23.80	
	max	24.80	
ID	min	19.00	
	max	19.80	
WT/100M			
(kg)		5.5	

- Black high density polyethylene raw material
- ID – internal diameter (ducting bore) and OD – outer diameter
- Description / length supplied – NW19 - 50M & 100M
- (NW19 – 100M) Qual-PB ducting suitable for 15mm
- (NW19 – 50M) Qual-PB ducting suitable for 15mm