

# 2014 - 2015 SOLUTIONS GUIDE

For total efficiency



**COMAP**  
SOLUTIONS FOR EFFICIENCY

# BETAPEX PIPE

Produced in conformance with EN ISO 15875, BetaPEX is the connection solution for PEX installations.



## APPLICATIONS

BetaPEX is suitable for heating and sanitary applications. It can be used in new installations as well as for renovations.

EN ISO 15875 classification	Service conditions		Peak conditions			Maximum temperature (malfunction) conditions	
Hot water supply (Class 2)	70°C		49 years	80°C	1 year	95°C	100 hours
Underfloor heating and low temperature radiator (Class 4) (a)	20°C		20 years				
	40°C	plus cumulative	25 years	70°C	plus cumulative	2.5 years	100°C
	60°C		25 years				
High temperature radiator (Class 5) (a)	20°C		14 years				
	60°C	plus cumulative	25 years	90°C	plus cumulative	1 year	100°C
	80°C		10 years				



EUROPEAN PRODUCTION

## BENEFITS

- Corrosion resistant.
- Flexible and light to handle.
- Smooth surface ensuring low pressure loss.
- Less waste due to a wide range of packaging options.

## FEATURES

- Available in sizes 12 to 32mm.
- PE-Xb – the cross-linking ensures resistance to high temperatures and pressures.
- Available with anti-oxygen barrier (EVOH) ensuring a long service life for heating installations.

	12x1.1	16x1.5	16x2	16x2.2	17x2	18x2	20x1.9	20x2	25x2.3	32x2.9
ATEC	○	○					○		○	○
SKZ	○	○	○	○	○	○	○	○	○	○

Certifications:



## BETAPEX NAKED

### BLUE ROLL

9001



Size	ITEM No	Qty (pcs)	Qty (m)
12x1,1 - 60m	B611005003	10	600
12x1,1 - 120m	B611005001	10	1200
12x1,1 - 200m	B611005002	10	2000
16x1,5 - 80m	B611001006	10	800
16x1,5 - 100m	B611001001	10	1000
16x1,5 - 120m	B611001002	10	1200
16x1,5 - 200m	B611001003	6	1200
16x1,5 - 240m	B611001004	6	1440
16x1,5 - 800m	B611001005	4	3200
16x1,8 - 100m	B611002001	10	1000
20x1,9 - 80m	B611003006	10	800
20x1,9 - 120m	B611003002	6	720
20x1,9 - 200m	B611003003	4	800
25x2,3 - 100m	B611004001	5	500

### NATURAL ROLL

9002



Size	ITEM No	Qty (pcs)	Qty (m)
16x2 - 100m	B614002001	1	100
16x2,2 - 100m	B614003001	1	100
16x2,2 - 200m	B614003002	1	200
20x2 - 100m	B614006001	1	100
32x2,9 - 50m	B614007001	1	50

### RED ROLL

9006



Size	ITEM No	Qty (pcs)	Qty (m)
12x1,1 - 60m	B612009003	10	600
12x1,1 - 120m	B612009001	10	1200
12x1,1 - 200m	B612009002	10	2000
16x1,5 - 80m	B612001006	10	800
16x1,5 - 100m	B612001001	10	1000
16x1,5 - 120m	B612001002	10	1200
16x1,5 - 200m	B612001003	6	1200
16x1,5 - 240m	B612001004	6	1440
16x1,5 - 800m	B612001005	4	3200
16x1,8 - 100m	B612002001	10	1000
20x1,9 - 80m	B612003006	10	800
20x1,9 - 120m	B612003002	6	720
20x1,9 - 200m	B612003003	4	800
20x1,9 - 240m	B612003004	4	960
20x1,9 - 600m	B612003005	4	2400
25x2,3 - 100m	B612004001	5	500
32x2,9 - 50m	B612005001	6	300

### BLACK ROLL

9007



Size	ITEM No	Qty (pcs)	Qty (m)
15x2,5 - 100m	B614008001	1	100
16x2 - 150m	B614009002	1	150
18x2 - 150m	B614010002	1	150
18x2,5 - 100m	B614011001	1	100
20x2 - 150m	B614012002	1	150
22x3 - 100m	B614013001	1	100
28x3 - 50m	B614014001	1	50
32x3 - 50m	B614015001	1	50

## BETAPEX NAKED WITH EVOH

### NATURAL ROLL EVOH

9003



Size	ITEM No	Qty (pcs)	Qty (m)
16x2 - 100m	B613005001	1	100
16x2 - 200m	B613005002	1	200
16x2 - 600m	B613005003	1	600
17x2 - 200m	B613008001	1	200
18x2 - 200m	B613006002	1	200
20x2 - 100m	B613007001	1	100
20x2 - 200m	B613007002	1	200

### BLUE ROLL EVOH

9004



Size	ITEM No	Qty (pcs)	Qty (m)
12x1,1 - 200m	B613020001	10	2000
16x1,5 - 200m	B613021001	6	1200

### RED ROLL EVOH

9005



Size	ITEM No	Qty (pcs)	Qty (m)
12x1,1 - 200m	B613004001	10	2000
16x1,5 - 120m	B613001002	10	1200
16x1,5 - 200m	B613001003	6	1200
16x1,5 - 240m	B613001004	6	1440
16x1,5 - 800m	B613001005	4	3200
18x2 100m	B613011006	10	1000
20x1,9 - 120m	B613002002	6	720
20x1,9 - 200m	B613002003	4	800

## BETAPEX CORRUGATED

### BLUE PIPE CORRUGATED BLUE

9001G



Size	ITEM No	Qty (pcs)	Qty (m)
12x1,1 - 60m	B621004002	12	720
12x1,1 - 100m	B621004001	6	600
16x1,5 - 60m	B621001002	6	360
16x1,5 - 100m	B621001001	5	500
20x1,9 - 50m	B621002001	6	300
25x2,3 - 50m	B621003001	4	200

### RED PIPE CORRUGATED RED

9006G



Size	ITEM No	Qty (pcs)	Qty (m)
12x1,1 - 60m	B622004002	12	720
12x1,1 - 100m	B622004001	6	600
16x1,5 - 60m	B622001001	6	360
16x1,5 - 100m	B622001002	5	500
20x1,9 - 50m	B622002001	6	300
25x2,3 - 50m	B622003001	4	200

### BLACK PIPE CORRUGATED BLUE

9007GB



Size	ITEM No	Qty (pcs)	Qty (m)
15x2,5 - 50m	B621007001	1	50
16x2 - 50m	B621005001	1	50
18x2 - 50m	B621006001	1	50
18x2,5 - 50m	B621008001	1	50

## BLACK PIPE CORRUGATED RED

9007GR



Size	ITEM No	Qty (pcs)	Qty (m)
15x2,5 - 50m	B622007001	1	50
16x2 - 50m	B622005001	1	50
18x2 - 50m	B622006001	1	50
18x2,5 - 50m	B622008001	1	50

## BLUE AND RED TWIN CORRUGATED

9000G



Size	ITEM No	Qty (pcs)	Qty (m)
12x1,1 - 50m	B631001001	6	300
16x1,5 - 50m	B631002002	5	250

## EMPTY BLUE CONDUIT

9008B



Size	ITEM No	Qty (pcs)	Qty (m)
22x2,75 - 100m	C290005001	12	1200
26x3 - 100m	C290007001	10	1000

## EMPTY RED CONDUIT

9008R



Size	ITEM No	Qty (pcs)	Qty (m)
22x2,75 - 100m	C290006001	12	1200
26X3 - 100m	C290008001	10	1000

## BETAPEX CORRUGATED AND INSULATED

## BLUE PIPE CORRUGATED AND INSULATED

9009B



Size	ITEM No	Qty (pcs)	Qty (m)
12x1,1 - 100m	B642008001	3	300
16x1,5 - 50m	B642001001	5	250
20x1,9 - 50m	B642002001	3	150
25x2,3 - 50m	B642003001	3	150

## RED PIPE CORRUGATED AND INSULATED

9009R



Size	ITEM No	Qty (pcs)	Qty (m)
12x1,1 - 100m	B642004001	3	300
16x1,5 - 50m	B642005001	5	250
20x1,9 - 50m	B642006001	3	150
25x2,3 - 50m	B642007001	3	150



# PLASTIC PIPES

## MULTISKIN: 5 LAYERS



1 PE-Xc

2 Adhesive

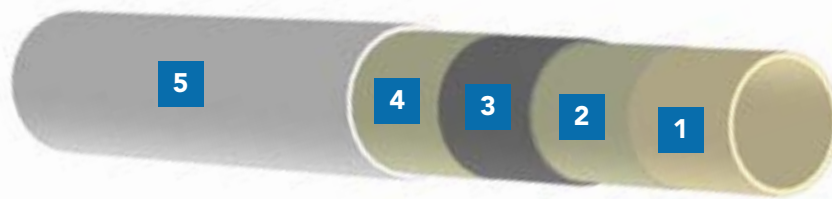
3 Aluminium: 0.4mm

4 Adhesive

5 PE-Xc

Pipe diameter (mm)	14	16	18	20	26	32	40	50	63
Inner diameter (mm)	10.0	12.0	14.0	16.0	20.0	26.0	33.0	42.0	54.0
Wall thickness (mm)	2.0	2.0	2.0	2.0	3.0	3.0	3.5	4.0	4.5
Thickness of the aluminium	0.4	0.4	0.4	0.4	0.5	0.7	0.7	0.9	1.2
Minimum manual bending radius / outer spring (mm)	≥ 5xDu	≥ 5xDu	≥ 5xDu	≥ 5xDu	≥ 5xDu	-	-	-	-
Minimum manual bending radius / inner spring (mm)	≥ 3xDu	≥ 3xDu	≥ 3xDu	≥ 3xDu	≥ 3xDu	-	-	-	-
Weight (g/m)	108	125	132	147	252	39	528	766	1.155
Content (l/m)	0.072	0.113	0.154	0.201	0.314	0.53	0.803	1.32	2.042

## BETASKIN: 5 LAYERS



1 PE-RT

2 Adhesive

3 Aluminium: 0.2mm

4 Adhesive

5 PE-RT

Pipe diameter (mm)	14	16	18	20	26	32
Inner diameter (mm)	10.0	12.0	14.0	16.0	20.0	26.0
Wall thickness (mm)	2.0	2.0	2.0	2.0	3.0	3.0
Minimum manual bending radius / outer spring (mm)	5 x D	5 x D	5 x D	5 x D	10 x D	-
Minimum manual bending radius / inner spring (mm)	2 x D	2 x D	2 x D	2 x D	5 x D	5 x D
Weight (g/m)	920	105	125	140	260	350
Content (l/m)	0.079	0.113	0.154	0.201	0.314	0.531

## BETAPEX: 3 LAYERS



1 PE-X

2 Adhesive

3 Anti-oxygen barrier (EVOH)

	12	16	20	25
Pipe diameter (mm)	12	16	20	25
Inner diameter (mm)	9.8	13	16.2	20.4
Wall thickness (mm)	1.1	1.5	1.9	2.3
Weight (g/m)	42	73	112	170
Content (l/m)	0.07	0.13	0.2	0.32

## BETAPEX: 1 LAYER

1 PE-X



	12	16	20	25	32
Pipe diameter (mm)	12	16	20	25	32
Inner diameter (mm)	9.8	13	16.2	20.4	26.2
Wall thickness (mm)	1.1	1.5	1.9	2.3	2.9
Weight (g/m)	42	73	112	170	270
Content (l/m)	0.07	0.13	0.2	0.32	0.52

## PROTECTION FOR PLASTIC PIPES



### Corrugated pipe

Pipes running through floors, walls or ceilings should be protected with a sleeve. After assembly, it is also advisable to protect the pipes against damage caused by other work being done on the site. The corrugated protector is made of polyethylene. It is fully impermeable and can withstand temperatures from -5°C to 80°C as well as a standard load of 450 Newtons.



### Insulated pipe

Comap provides pipes with a round thermal insulating material. The extruded polyethylene foam protects the pipe against condensation, heat loss, expansion and noise transmission. Pipes should also be protected where they are grouped at high temperatures (floor heating effect).

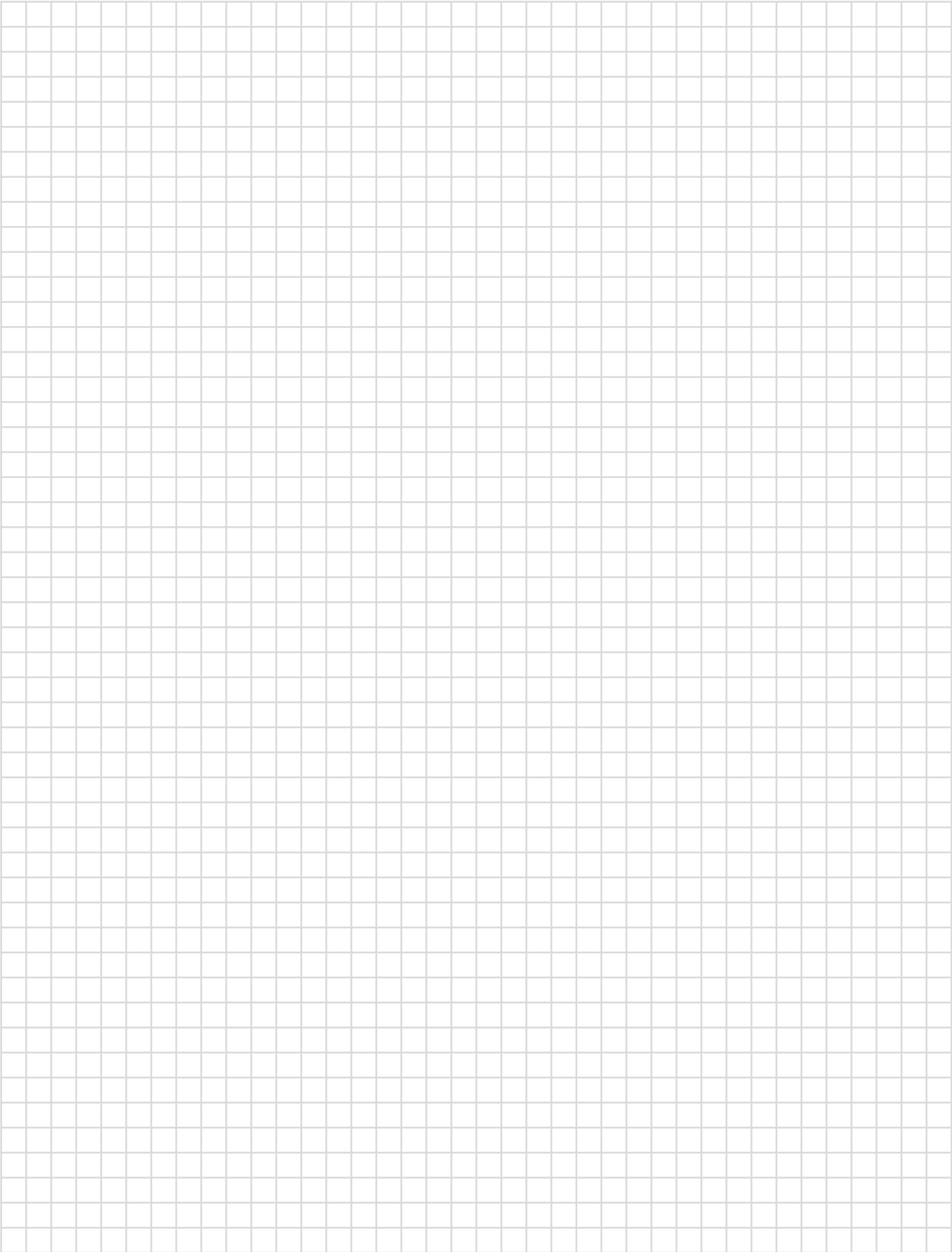
Quality standard: UNI and ISO 9002-94

Lambda value: 0.040W/mK at 40°C

Fire classification: 1-UNI 9177 and UNI 8457

Temperature range: -35°C to 95°C

# NOTES





# Contact

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