REINFORCED PIPING SYSTEMS

Extra Features,
Extra Performance
& Less Wall Thickness



New Generation

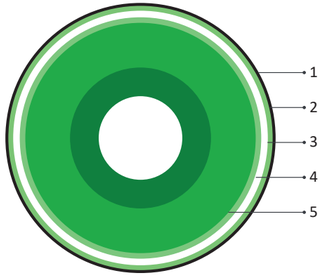
New technology and new challenges has passed, with over 60 years of ex- pertise we have mastered the piping networks through comprehensive research and development to bring innovative solutions for diverse applica- tion.s Being the pioneer and ultimate provider of piping systems, we are committed to deliver Value-added products with the highest standard of services.

INTEGRATED WITH WIDE RANGE OF FITTING AND ACCESSORIES.

Engineered piping solutions!
REINFORCED PIPING SYSTEMS

RAKtherm's REINFORCED PIPING SYSTEMS has been developed and engineered to intensify efficiency of piping networks and to serve new applicatons with new mission to achieve proving that Raktherm is leader in industry.

RRF SYSTEM A UNIQUE 5 LAYERS PIPE WITH GLASS FIBER MID-LAYER, AND UV BLOCK OUTER LAYER.



01 Outer layer made of PPR & Ultra-violet Treatment. Result in longer life pipe with outdoor usage application.

02 EVOH layer Developed by Raktherm for zero oxidation and longer network life.

03 Layer of aluminum or compos-ite material polypropylene PPR,and special compounded com-bination.

04 Adhesive compound that increas-L es bonding structure of PPR with aluminium layer, significantly in- creasing pip structural integrity.

05 Inner layer is made of PPR, for hot / cold temperature and pressure re-sistibility, with guarantees to compli- ance with the sanitary norms.

APPLICATIONS

- Suitable for portable hot and cold water piping network installations in residential, hotels,hospitals, shipbuilding, offices, school buildings and other establishments.
- Applicable for swimming pool facilities.
  Piping networks for solar plants.
- Excellent piping network for transport of aggressive type of fluids.

Water treatment plants & distribution network, Solar water heating systems, Water treatment plants & distribution network.

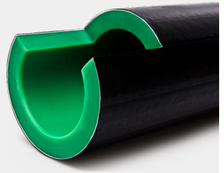
Industries such as Chemical plants, Petroleum & Gas plants, Oil plants, Mineral water plants, water treatment plants, Sugar Manufacturing plants etc.

GLOBALY CERTIFIED & RECOGNISED

TÜV SÜD · DVGW · SKZ · HY · GROUPE CARSO · CSTB le futur en construction · QB · NSF · WRAS APPROVED PRODUCT

REINFORCED STABI

75% decresed linear expansion compared with normal PP- pipes.



RAKtherm Reinforced Stabi (R.R.S System)

RAKtherm system has proven its high resillence even at the most extreme conditions. These fac- tors and more, make RAKtherm the ideal system for the delivery of potable hot and cold water in your home, office or factory. Raktherm pipes and fittings are extensively used in food and medical industries owing to their harmless and safe properties.

RAKtherm Reinforce Stabi with U.V Protection (R.R.S.V System)

With new feature of exposed and open air installations under direct sunlight or UV radiation,

R.R.S.V system remains physically stable through a specially developed external black layer for UIV block.

Covered with Aluminum, its inner part's system for water

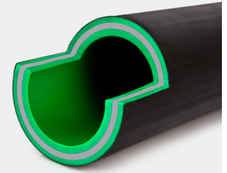
Outer layer is coated with an Anti-creep layer; the outer layer is coated with PP-R as mechanical protection, and combined with hot-melt glue between layers. All gives better Anti-creep proper- ty, same strength as metal pipe, shock resistance, and good stability. As well as easy detection by metal de- tector when buried.

FEATURES

- 75% decresed linear expansion compared with normal PP-pipes.
- 20% incresed higher flow rate for extra performance.
- Superior performance even at extreme application.
- Ultimate impact strength for all installation conditions.
- Exceptional UV resistance for diverse applications.
- Zero oxygen infiltration.

REINFORCED Fiber

70% decresed linear expansion compared with normal pipes.



RAKtherm Reinforced Fiber (R.R.F. System)

Unique recipe of glass fiber layer. One of the hindrances in using plastic material including PP-R
is the possibility to expand drastically when exposed to heat. We have developed RAKtherm Fiber
Pipes with xxxxxx innovative component of PPR and glass fiber to decrease linear expansion up to
70 %. Welding process is easier which requires lower supports. With No pilling feature that save
installation time and effort, to be one more additive to our portfolio to the reinforced system.

RAKtherm Reinforce Fiber with U.V Protection (R.R.F.V system)

A unique 4 layers pipe with glass fiber core layer and UV treatment skin outer layer for premium
UV protection.

Easy Installation, Less Energy,
High Reliable and Save Money

FEATURES

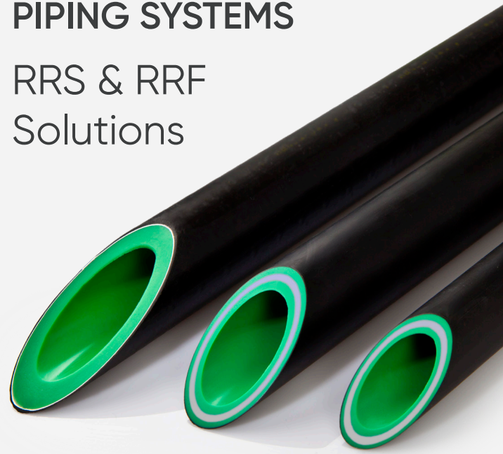
- 70% decreased linear expansion compared to normal pipe
- 20% increased higher flow rate for extra performance.
- Superior performance even at extreme application
- Enhanced impact strength for all installation conditions.
- Easy installation no peeling to be used
- Exceptional UV resistance for diverse applications.
- Zero oxygen infiltration

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RAKtherm® GLOBAL

REINFORCED PIPING SYSTEMS

RRS & RRF Solutions



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sales@raktherm.com
www.raktherm.com

Download Mobile App

REINFORCED Stabi

RRS system

Reduce your Linear Expansion by 75%



PPR PN 20 with Aluminum Thickness 0.2 mm According to DIN 8077/88.

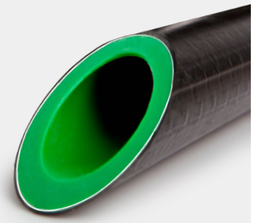
Art.-No	Dimension	Packing Unit	Outer Diameter (OD)mm	Wall Thickness (S)	Intrernal Diam-eter(ID)mm	Water content l/mt	Kg / mt
PPS20-20	20 mm	100 mts	20	2.8	14.4	0.163	0.220
PPS20-25	25 mm	100 mts	25	3.5	18	0.254	0.320
PPS20-32	32 mm	40 mts	32	4.4	23.2	0.415	0.470
PPS20-40	40 mm	40 mts	40	5.5	29	0.651	0.720
PPS20-50	50 mm	20 mts	50	6.9	36.2	1.029	1.060
PPS20-63	63 mm	20 mts	63	8.6	45.8	1.633	1.650
PPS20-75	75 mm	20 mts	75	10.3	54.4	2.307	2.280
PPS20-90	90 mm	12 mts	90	12.3	65.4	3.318	3.200
PPS20-110	110 mm	8 mts	110	15.1	79.8	5.674	4.600

PPR PN 25 with Aluminum Thickness 0.2 mm According to DIN 8077/88.

Art.-No	Dimension	Packing Unit	Outer Diameter (OD)mm	Wall Thickness (S)	Intrernal Diam-eter(ID)mm	Water content l/mt	Kg / mt
PPS25-20	20 mm	100 mts	20	3.4	13.2	0.137	0.241
PPS25-25	25 mm	100 mts	25	4.2	16.6	0.216	0.350
PPS25-32	32 mm	40 mts	32	5.4	21.2	0.353	0.542
PPS25-40	40 mm	40 mts	40	6.7	26.6	0.556	0.805
PPS25-50	50 mm	20 mts	50	8.3	33.4	0.866	1.217
PPS25-63	63 mm	20 mts	63	10.5	42	1.385	1.860
PPS25-75	75 mm	20 mts	75	12.5	50	1.963	2.586
PPS25-90	90 mm	12 mts	90	15	60	2.827	3.656
PPS25-110	110 mm	8 mts	110	18.3	73.4	4.208	5.372

REINFORCED Stabi-UV

RRSV system



Special technology with black layer UV resistant for outdoor and external installations under direct sunlight.

PPR PN 20 with Aluminum Thickness 0.2 mm According to DIN 8077/88

Art.-No	Dimension mm	Packing Unit	Outer Diameter (OD)mm	Wall Thickness (S)	Intrernal Diam-eter(ID)mm	Water content l/mt	Kg / mt
PPSUV20-20	20	100 mts	20	2.8	14.4	0.163	0.220
PPSUV20-25	25	100 mts	25	3.5	18	0.254	0.320
PPSUV20-32	32	40 mts	32	4.4	23.2	0.415	0.470
PPSUV20-40	40	40 mts	40	5.5	29	0.651	0.720
PPSUV20-50	50	20 mts	50	6.9	36.2	1.029	1.060
PPSUV20-63	63	20 mts	63	8.6	45.8	1.633	1.650
PPSUV20-75	75	20 mts	75	10.3	54.4	2.307	2.280
PPSUV20-90	90	12 mts	90	12.3	65.4	3.318	3.200
PPSUV20-110	110	8 mts	110	15.1	79.8	5.674	4.600

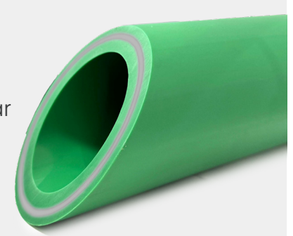
PPR PN 25 with Aluminum Thickness 0.2 mm According to DIN 8077/88

Art.-No	Dimension mm	Packing Unit	Outer Diameter (OD)mm	Wall Thickness (S)	Intrernal Diam-eter(ID)mm	Water content l/mt	Kg / mt
PPSUV25-20	20	100 mts	20	3.4	13.2	0.137	0.241
PPSUV25-25	25	100 mts	25	4.2	16.6	0.216	0.350
PPSUV25-32	32	40 mts	32	5.4	21.2	0.353	0.542
PPSUV25-40	40	40 mts	40	6.7	26.6	0.556	0.805
PPSUV25-50	50	20 mts	50	8.3	33.4	0.866	1.217
PPSUV25-63	63	20 mts	63	10.5	42	1.385	1.860
PPSUV25-75	75	20 mts	75	12.5	50	1.963	2.586
PPSUV25-90	90	12 mts	90	15	60	2.827	3.656
PPSUV25-110	110	8 mts	110	18.3	73.4	4.208	5.372

REINFORCED Fiber

RRF system

Reduce your Linear Expansion by 70%



PPR PN 20 (SDR 7.4) enhanced with fiber According to DIN 8077/88

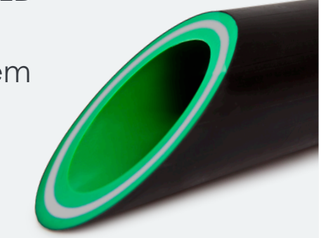
Art.-No	Dimension mm	Packing Unit	Outer Diameter (OD)mm	Wall Thickness (S)	Intrernal Diam-eter(ID)mm	Water content l/mt	Kg / mt
PF20-20	20	100 mts	20	2.8	14.4	0.163	0.160
PF20-25	25	100 mts	25	3.5	18	0.254	0.245
PF20-32	32	40 mts	32	4.4	23.2	0.423	0.391
PF20-40	40	40 mts	40	5.5	29	0.66	0.608
PF20-50	50	20 mts	50	6.9	36.2	1.029	0.948
PF20-63	63	20 mts	63	8.6	45.8	1.647	1.490
PF20-75	75	16 mts	75	10.3	54.4	2.323	2.120
PF20-90	90	12 mts	90	12.3	65.4	3.358	3.037
PF20-110	110	8 mts	110	15.1	79.8	5.99	4.546
PF20-125	125	4 mts	125	17.1	90.8		5.850
PF20-160	160	4 mts	160	21.9	116.2		9.559

PPR PN 25 (SDR 6) enhanced with fiber According to DIN 8077/88.

Art.-No	Dimension mm	Packing Unit	Outer Diameter (OD)mm	Wall Thickness (S)	Intrernal Diam-eter(ID)mm	Water content l/mt	Kg / mt
PF25-20	20	100 mts	20	3.4	13.2	0.197	0.195
PF25-25	25	100 mts	25	4.2	16.6	0.304	0.280
PF25-32	32	40 mts	32	5.4	21.2	0.519	0.440
PF25-40	40	40 mts	40	6.7	26.6	0.804	0.690
PF25-50	50	20 mts	50	8.3	33.4	1.237	1.070
PF25-63	63	20 mts	63	10.5	42	2.010	1.690
PF25-75	75	16 mts	75	12.5	50	2.819	2.400
PF25-90	90	12 mts	90	15	60	4.095	3.500
PF25-110	110	8 mts	110	18.3	73.4	7.259	5.100
PF25-125	125	4 mts	125	20.8	83.4		6.810
PF25-160	160	4 mts	160	26.6	106.8		10.870

REINFORCED Fiber-UV

RRFV system



PPR PN 20 (SDR 7.4) enhanced with latest generation of fiber with UV resistant According to DIN 8077/88.

Art.-No	Dimension mm	Packing Unit	Outer Diameter (OD)mm	Wall Thickness (S)	Intrernal Diam-eter(ID)mm	Water content l/mt	Kg / mt
PFUV20-20	20	100 mts	20	2.8	14.4	0.163	0.160
PFUV20-25	25	100 mts	25	3.5	18	0.254	0.245
PFUV20-32	32	40 mts	32	4.4	23.2	0.415	0.391
PFUV0-40	40	40 mts	40	5.5	29	0.651	0.608
PFUV20-50	50	20 mts	50	6.9	36.2	1.029	0.948
PFUV20-63	63	20 mts	63	8.6	45.8	1.633	1.490
PFUV20-75	75	16 mts	75	10.3	54.4	2.307	2.120
PFUV20-90	90	12 mts	90	12.3	65.4	3.318	3.037
PFUV20-110	110	8 mts	110	15.1	79.8	5.674	4.546
PFUV20-125	125	4 mts	125	17.1	90.8		5.850
PFUV20-160	160	4 mts	160	21.9	116.2		9.559

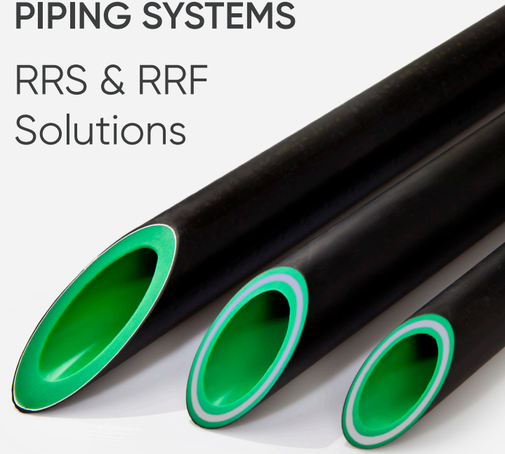
PPR PN 25 (SDR 6) enhanced with fiber According to DIN 8077/88.

Art.-No	Dimension mm	Packing Unit	Outer Diameter (OD)mm	Wall Thickness (S)	Intrernal Diam-eter(ID)mm	Water content l/mt	Kg / mt
PFUV25-20	20	100 mts	20	3.4	13.2	0.197	0.195
PFUV25-25	25	100 mts	25	4.2	16.6	0.304	0.280
PFUV25-32	32	40 mts	32	5.4	21.2	0.519	0.440
PFUV25-40	40	40 mts	40	6.7	26.6	0.804	0.690
PFUV25-50	50	20 mts	50	8.3	33.4	1.237	1.070
PFUV25-63	63	20 mts	63	10.5	42	2.010	1.690
PFUV25-75	75	16 mts	75	12.5	50	2.819	2.400
PFUV25-90	90	12 mts	90	15	60	4.095	3.500
PFUV25-110	110	8 mts	110	18.3	73.4	7.259	5.100
PFUV25-125	125	4 mts	125	20.8	83.4		6.810
PFUV25-160	160	4 mts	160	26.6	106.8		10.870

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RRS & RRF Solutions



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