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مصنع المنتجات الجديدة للبلاستيك - نيوبرو ذ.م.م
NEW PRODUCTS PLASTIC FACTORY-NEWPRO W.L.L.

NEWPRO 

ABOUT US

The advances made in the plastic industry during the past decades are reflected by the present existence of advanced products and sophisticated processes. Plastic products continued to grow with increasing importance in the wide spectrum of today's industries. As a potent approach, a competent team of business developers and researchers of New Products Plastic Factory (NEWPRO), explore the potential of plastic pipe manufacturing industry in Qatar.

New Products Plastic Factory (NEWPRO) in Qatar was formed with the strategy of being not only the Profitable leader in the industry, but also reliable partner of Qatar Government in fulfilling it's social obligations and achieving Qatar vision 2030. It is mandate of the company to continuously generate employment for the Qatari workforce. The factory aims to be responsive and reliable producers of plastic pipe products, perfect to specific needs and provide specialized systems.

Just like any other plastic pipe manufacturing factories, our equipment and raw material are produced from internationally recognized manufacturers and suppliers. Similarly, our wide range of plastic pipes products is manufactured and quality tested in accordance with the international standard such as BS,BS-EN, DIN, NEMA, ASTM and ISO. We treat our customers and suppliers as partners, we recognized our clients long term value and we are driving that value to its limit by providing excellent products services and advices our customer deserve.

Excellence and quality products is our business.



VISION

Our vision is to be a pioneer world class player adding new values to plastic industry world.

NEWPRO, CREATING NEW VALUES !



MISSION

Our mission is to provide a quality products in accordance with the international standards, while keeping the highest value for our stakeholders.



FOUNDATION

New Products Plastic Factory (NEWPRO) was founded in 2008 against the Ministerial decree No. 2377 Dated: 05/02/2008. In 2011 almost 6,000 sq.mtr. of land has obtained from the Ministry of Energy and Industries. The construction of company started and completed by the end of 2016. The other necessary licences and certificate was completely obtained early 2017 as the production started on the spot.

NEWPRO is specialized factory for producing HDPE, PVC, & HDPE Corrugated Pipes & Fittings in various dimensions and local and international standards. NEWPRO is pioneer of producing HDPE Double Wall Corrugated Pipes in Qatar.

HDPE PIPES SYSTEM

HIGH DENSITY POLYETHYLENE are non-toxic, flexible, highly resistant to UV radiation, lightweight, impact resistant and has a design life of 50 years at a specified design temperature and pressure rating of the medium. Abrasion resistance is better than any other rigid thermoplastics and considerably better than steel and other metal pipes, concrete and asbestos cement. Corrosion resistance of PE pipes is excellent and extremely resistant to chemicals, solvents and radioactive waste water. HDPE pipe is strong, durable, flexible and lightweight. It is the best choice with its high quality, cost and performance in terms of concrete and steel pipes.

High Density Polyethylene Pipes, popularly known as HDPE Pipes is a commonly used plastic pipes for varieties of applications such as water mains, gas mains, sewer mains, slurry transfer lines, rural irrigation, fire system supply lines, electrical and communications conduit, and storm water and drainage pipes.

HDPE pipe are produced from 100% high density polyethylene raw material, its high level of impermeability and strong molecular bond make it suitable for high pressure pipelines.

ADVANTAGES OF HDPE PIPES

There are lots of advantages in using HDPE pipes as compared to other pipes.

- › Safety of potable water and long-term reliability.
- › Strong and durable.
- › Resistant to abrasion.
- › Low thermal & electrical conductivity.
- › Low cost of installation and maintenance.
- › Better flow characteristics.
- › Smooth internal and external surface.
- › No corrosion & abrasion, no scale formation.
- › Excellent chemical resistance.
- › Heat-fused joints: Leak free joints, no repairs needed.
- › Long lasting life of minimum 50 years.
- › Zero Maintenance



HDPE PE 100 PIPE - ACCORDING TO EN 1519-1				
Pipes for Soil and Waste discharge system				
Series	S 12.5		S 16	
DN/ OD (mm)	Wall thickness, e (mm)	Min. inside Diameter (Mm)	Wall thickness, e (mm)	Min. inside Diameter (Mm)
110	4.20	101.60	3.40	103.20
125	4.80	115.40	3.90	117.20
160	6.20	147.60	4.90	150.20
200	7.70	184.60	6.20	187.60
250	9.60	230.80	7.70	234.60
315	12.10	290.80	9.70	295.60

HDPE PE 100 PIPE - ACCORDING TO BS EN 12666						
Pipes for Non-pressure Underground Drainage and Sewerage						
SN	4		8		16	
SDR	26		21		17	
Series	S 12.5		S 10		S 8	
DN/ OD (mm)	Wall thickness, e (mm)	Min. inside Diameter (Mm)	Wall thickness, e (mm)	Min. inside Diameter (Mm)	Wall thickness, e (mm)	Min. inside Diameter (Mm)
110	4.20	101.60	5.30	99.40	6.60	96.80
125	4.80	115.40	6.00	113.00	7.40	110.20
160	6.20	147.60	7.70	144.60	9.50	141.00
200	7.70	184.60	9.60	180.80	11.90	176.20
250	9.60	230.80	11.90	226.20	14.80	220.40
315	12.10	290.80	15.00	285.00	18.70	277.60
355	13.60	327.80	16.90	321.20	21.10	312.80
400	15.30	369.40	19.10	361.80	23.70	352.60

SDR : Standard Dimension ratio : DN/ e

DN : Nominal diameter or Outside diameter

e : Wall thickness

SN : Nominal stiffness

Colour of the pipe : Black

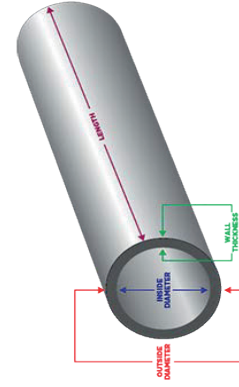
Length : 12 Mtr or as per customer requirements

HDPE PE100 PIPE – ACCORDING TO QCS & ISO 4427 EN 1519-1 BSEN 12666 ISO 4437

Size	PN 6 SDR 26			PN 8 SDR 21			PN 10 SDR 17			PN 16 SDR 11			PN 20 SDR 9		
	Wall Thickness Diameter (mm)	Min. Inside Diameter (mm)	Max Weight/Mtr	Wall Thickness Diameter (mm)	Min. Inside Diameter (mm)	Max Weight/Mtr	Wall Thickness Diameter (mm)	Min. Inside Diameter (mm)	Max Weight/Mtr	Wall Thickness Diameter (mm)	Min. Inside Diameter (mm)	Max Weight/Mtr	Wall Thickness Diameter (mm)	Min. Inside Diameter (mm)	Max Weight/Mtr
23	--	--	--	--	--	--	--	--	--	2	16	0.118	2.3	15.40	0.134
25	--	--	--	--	--	--	--	--	--	2.3	20.4	0.173	3	19.00	0.202
32	--	--	--	--	--	--	2	28.00	0.198	3	26	0.282	3.6	24.80	0.331
40	1.8	36.40	0.229	2	36	0.251	2.4	35.20	0.299	3.7	32.6	0.434	4.5	31.00	0.514
50	2	46.00	0.317	2.4	45.2	0.378	3.00	44.00	0.458	4.6	40.8	0.573	5.60	38.80	0.798
63	2.50	58.00	0.50	3	57	0.586	3.80	55.40	0.73	5.8	51.4	1.08	7.10	48.80	1.27
75	2.90	69.20	0.68	3.6	67.8	0.836	4.50	66.00	1.03	6.8	61.4	1.48	8.40	58.20	1.78
90	3.50	83.00	0.99	4.3	81.4	1.2	5.40	79.20	1.47	8.20	73.6	2.14	10.10	69.80	2.57
110	4.20	101.60	1.45	5.3	99.4	1.79	6.60	96.80	2.19	10.00	90	3.18	12.30	85.40	3.82
125	4.80	115.40	1.86	6	113	2.29	7.40	110.20	2.79	11.40	102.2	4.12	14.00	97.00	4.92
140	5.40	129.20	2.35	6.7	126.6	2.86	8.30	123.40	3.50	12.70	114.6	5.13	15.70	108.60	6.18
160	6.20	147.60	3.08	7.70	144.6	3.75	9.50	141.00	4.57	14.60	130.8	6.74	17.90	124.20	8.04
180	6.90	166.20	3.83	8.60	162.8	4.71	10.70	158.60	5.77	16.40	147.2	8.51	20.10	139.80	10.20
200	7.70	184.60	4.74	9.6	180.8	5.84	11.90	176.20	7.12	18.20	163.6	10.50	22.40	155.20	12.60
225	8.60	207.80	5.96	10.8	203.4	7.37	13.40	198.20	9.03	20.50	184	13.30	25.20	174.60	15.90
250	9.60	230.80	7.38	11.9	226.2	9.02	14.80	220.40	11.10	22.70	204.6	16.30	27.90	194.20	19.60
280	10.70	258.60	9.20	13.4	253.2	11.4	18.60	242.80	13.90	25.40	229.2	20.50	31.30	217.40	24.60

HDPE PE100 PIPE - ACCORDING TO QCS & ISO 4427 EN 1519-1 BSEN 12666 ISO 4437

Size	PN 6 SDR 26			PN 8 SDR 21			PN 10 SDR 17			PN 16 SDR 11			PN 20 SDR 9		
	Wall Thickness Diameter (mm)	Min. Inside Diameter (mm)	Max Weight/Mtr	Wall Thickness Diameter (mm)	Min. Inside Diameter (mm)	Max Weight/Mtr	Wall Thickness Diameter (mm)	Min. Inside Diameter (mm)	Max Weight/Mtr	Wall Thickness Diameter (mm)	Min. Inside Diameter (mm)	Max Weight/Mtr	Wall Thickness Diameter (mm)	Min. Inside Diameter (mm)	Max Weight/Mtr
315	12.10	290.80	11.70	15.00	285	14.30	18.70	277.60	17.60	28.60	257.8	25.90	35.20	244.60	31.10
355	13.60	327.80	14.80	16.90	321.2	18.20	21.10	312.80	22.40	32.20	290.6	32.90	39.70	275.60	39.50
400	15.30	369.40	18.80	19.10	361.8	23.10	23.70	352.60	28.30	36.30	327.4	41.70	44.70	310.60	50.10
450	17.20	415.60	28.70	21.50	407	29.30	26.70	396.60	35.80	40.90	368.2	52.80	50.30	349.40	63.40
500	19.10	461.80	29.20	23.90	452.2	36.10	29.70	440.60	44.20	45.40	409.2	65.20	55.80	388.40	78.10
560	21.40	517.20	36.80	26.70	506.6	45.20	33.20	493.60	55.40	50.80	458.4	81.70	62.50	435.00	98.00
630	24.10	581.80	46.4	30.00	570	57.00	37.40	555.20	70.20	57.20	515.6	103.00	--	--	--
710	27.2	655.60	58	33.90	642.2	72.80	42.10	625.80	89.00	64.5	581	131	--	--	--
800	30.6	738.80	74.7	38.10.	723.8	92.00	47.40	705.20	113.00	--	--	--	--	--	--



- SDR : Standard Dimension ratio : DN/ e
- DN : Nominal diameter or Outside diameter
- e : Wall thickness
- PN : Nominal pressure or working pressure in bar
- pipe : Black or Black with blue stripes
- Length : 12 Mtr or as per customer requirements

METHODS OF HDPE PIPES JOINTING/WELDING

High Density Polyethylene pipes and fittings are connected to each other by ButtWelding, Electrofusion Welding or mechanical fittings. Pipes made from materials other than polyethylene can be connected by compression fittings, flanges or other suitable adapters made for the purpose.

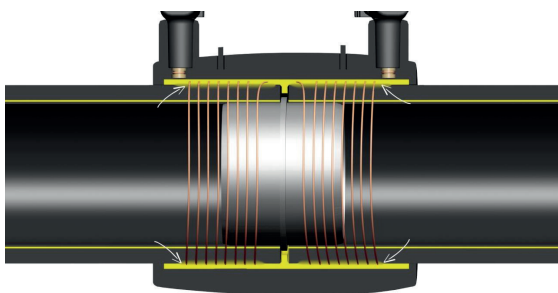
Currently, two methods are used in joining HDPE pipes:

- » Electrofusion (EF) welding
- » Butt Welding



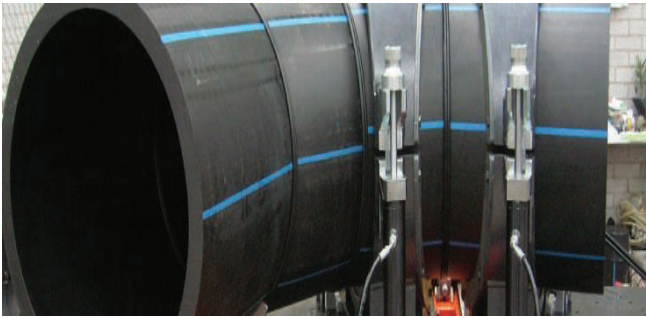
ELECTROFUSION WELDING

In the electrofusion welding process, welding is done with heating resistors inside the fusion fitting. Once the pipes are placed in the electro fusion fittings, the ends of the welding machine are connected to the resistors of the electro fusion fitting and heating them. So, HDPE pipe will be connected with the electrofusion fitting. Electrofusion welding is more advantageous when it is necessary to weld in where welding machine can not fit.



BUTT WELDING

The Butt welding method is the most common welding method currently used for joining HDPE pipes and fittings. The pipe joining method is a process in which the two ends of the pipes to be heated and welded by using a butt welding machine and the both ends are pushed toward each other by pressure under a certain temperature. In terms of welding cost, the butt welding is cheaper than the electrofusion welding.



HDPE PERFORATED PIPES

A perforated pipe is designed with small slots or holes to allow water to exit or enter easily. This type of pipe is frequently used for underground drainage systems and other uses due to its ability to absorb and drain water.

WE ARE PRODUCING 3 TYPE OF PERFORATED PIPES ACCORDING TO QCS 2014

- » Half perforated
- » $\frac{3}{4}$ perforated
- » Fully perforated

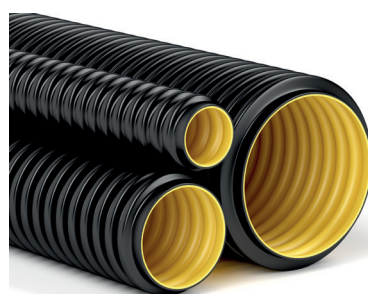


HDPE DOUBLE WALL CORRUGATED PIPES

High-density polyethylene (HDPE) is a versatile material and has some ideal characteristics for use in underground structures. HDPE pipe is relatively lightweight allowing for easier and less costly transportation and installation costs. It is not brittle and therefore not susceptible to cracking during pipe handling and installation activities. Once formed into a pipe, HDPE has a smooth surface, which is resistant to abrasion, corrosion and chemical scouring. The smooth surface provides excellent pipeline flow characteristics. HDPE pipe is structurally strong and has the ability to support large loads. HDPE has the ability to relax under stress. This characteristic provides advantages for underground structures and also helps define limitations of use. As HDPE pipe is loaded, the pipe relaxes immediately, and over time, allows the load to be transferred to the adjacent soil. This characteristic allows the pipe to off-load points of local stress. Stress relaxation may result in slight pipe reformation over time to accommodate in place loading conditions. Such re-formations are believed to cause long-term structural stability. New products plastic factory - Nepro manufacturing HDPE Double Wall Corrugated pipes sizes from 110mm to 500mm as per EN 13476. HDPE Corrugated Double Wall Pipes are produced as SN 4 and SN 8 with smooth inner surface and profile/corrugation on outer surface. The product supplied is flexible double wall corrugated PE pipe manufactured in the continuous co extrusion process.

Double Wall Corrugated Pipes used in sewerage projects, industrial waste transportation, storm water drainage and drainage waters transportation project. Corrugated Pipe thanks to its flexible structure demonstrate compliance with the underground motion. Corrugated Pipes provide many years of trouble-free operation in infrastructure projects. Corrugated pipes ensures a longer life of the filling being laid solid ground.

Corrugated Pipes have superior corrosion resistance, provide ease transportation because of lightness. By combining the floor seals are completed quickly. Due to the sealing properties do not spread sewage into the groundwater. Corrugated Pipes are usually produced in 6 m lengths



ADVANTAGES OF HDPE DOUBLE WALL CORRUGATED PIPES:

Newpro Corrugated Drainage Pipe is high-strength due to high rib strength, corrosion resistance due to polyethylene, full sealing feature, 50 years life, corrosion-resistant organic compound, smooth inner surface, Light weight, easy to transport, economical and saved time to laying of pipes. With its more economical, stronger and more reliable structure. It would not be broken by being affected situations such as impact, traffic load, earthquake, landslides. Pipes made from Polyethylene material has high resistance to corrosion.

HDPE DOUBLE WALL CORRUGATED PIPES ARE MAINLY USED IN:

- » Drainage projects
- » Sewage pipeline projects
- » Storm water discharge projects
- » Sub-roadway waste water carriage projects
- » Power cable protection projects
- » Waste water discharge pipeline projects and storm water discharge projects as perforated pipe - slotted pipe

HDPE DOUBLE WALL CORRUGATED PIPES ACCORDING TO BS EN 13476				
Size DN/ OD (mm)	SN 4		SN 8	
	Inside diameter (mm)	Weight/ Mtr (Kg)	Inside diameter (mm)	Weight/ Mtr (Kg)
110	94.00	0.75	94.00	1.02
160	138.00	1.60	138.00	2.10
200	174.00	2.00	174.00	2.43
250	215.00	3.00	215.00	4.05
315	273.00	5.20	273.00	5.54
400	342.00	6.00	342.00	10.01
500	428.00	13.00	428.00	15.10

Length : 6 mtr or 50/ 100 mtr roll.

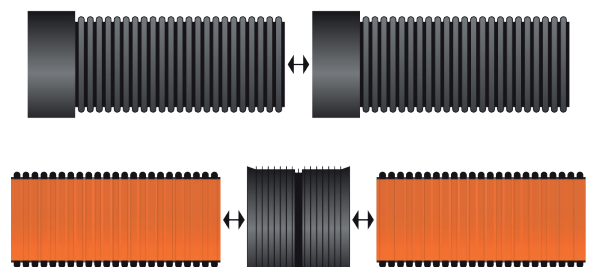
Colour of pipe : As per customer requirements.

METHODS OF HDPE CORRUGATED PIPES JOINTING

NEWPRO HDPE corrugated pipes have one side socket (Female) and other side pipe end (male). For connection, the pipe end and the inside socket (female) must be cleaned and then the appropriate gasket should be placed on the pipe end and then lubricated with soap or other materials.

It is imperative that the joint be assembled properly to ensure that the product performs to expectations. The steps that must be followed to obtain a quality joint are provided below.

- » Lower pipe into trench by hand, or use nylon straps and excavating equipment.
- » Begin by inspecting the socket and remove any foreign matter.
- » Use a clean rag or brush to lubricate bell of pipe lubricant.
- » Clean spigot end of pipe.
- » Remove protective wrap from gasket.
- » Using clean rag or brush, lubricate exposed gasket with pipe lubricant.
- » Do not allow lubricated section to touch dirt or backfill. Foreign matter could adhere to surface and compromise joint integrity.
- » Place spigot into bell and align.
- » Note: Always push spigot end into bell, not bell end onto spigot.
- » Assemble joint using one of the following methods. For smaller diameters, pipe may be joined manually.
- » For all methods, ensure bell and spigot are adequately "homed" for proper installation and tight joining seal. If no homing mark is present, measure the depth of the socket and use a crayon or other material to place a homing mark on appropriate corrugation of the spigot end.



BAR & BLOCK METHOD

- » Place installation stub into socket end of pipe.
- » Place wooden block horizontally across end of installation stub.
- » With a bar, push against wooden block until pipe is fully inserted into bell.

BACKHOE METHOD

- » Place installation stub into bell end of pipe.
- » Place wooden block horizontally across installation stub.
- » Carefully push back of backhoe bucket against block until pipe is fully inserted into bell.

BACKHOE AND SLING METHOD

- » Wrap nylon sling around pipe. Pipe 36" (900mm) or larger should be picked up at two points approximately 10' (3m) apart.
- » Hook other end of nylon sling to backhoe bucket.
- » Operator should carefully push strap tight toward bell of downstream pipe until spigot is fully inserted into bell.
- » Ensure pipe slides squarely into bell to avoid misalignment.
- » Keep pipe level.



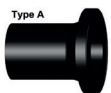
NEWPRO®

TAKAB

INJECTION MOULDED FITTING

Flanged Adaptor (Type A)

SDR 17 PN 10
SDR 11, PN 16



Nominal Size (mm)

63	225
75	250
90	280
110	315
125	355
140	400
160	450
180	500
200	

Elbow 90°

SDR 17 PN 10
SDR 11, PN 16



Nominal Size (mm)

32	180
40	200
50	225
63	250
75	280
90	315
110	355
125	400
140	450
160	500

Elbow 45°

SDR 17 PN 10
SDR 11, PN 16



Nominal Size (mm)

40	180
50	200
63	225
75	250
90	280
110	315
125	400
160	

Elbow 11.5° · 22.5° · 30°

SDR 17 PN 10
SDR 11, PN 16



Nominal Size (mm)

40	180
50	200
63	225
75	250
90	280
110	315
125	400
160	

Equal Tee 90°

SDR 17 PN 10
SDR 11, PN 16

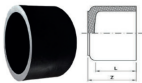


Nominal Size (mm)

32	160
40	180
50	200
63	225
75	250
90	280
110	315
125	355
140	

End Cap

SDR 17 PN 10
SDR 11, PN 16



Nominal Size (mm)

32	160
40	200
50	225
63	250
75	280
90	315
110	355
125	400

Cross

SDR 17 PN 10
SDR 11, PN 16

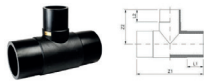


Nominal Size (mm)

63	200
75	250
90	315
110	355
160	400

Reduced Tee 90°

SDR 17 PN 10
SDR 11, PN 16



Nominal Size (mm)

63X32	180X160
63X40	200X63
63X50	200X75
75X40	200X90
75X50	200X110
75X63	200X160
90X50	225X63
90X63	225X75
90X75	225X90
110X50	225X110
110X63	225X160
110X75	250X110
110X90	250X160
125X50	315X160
125X63	315X200
125X75	355X160
125X90	355X225
160X125	400X200
180X63	400X315
180X90	500X200
180X110	500X315

Flanged Adaptor (Type B)

SDR 17 PN 10
SDR 11, PN 16

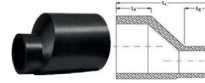


Nominal Size (mm)

63	225
75	250
90	280
110	315
125	355
140	400
160	450
180	500
200	

Eccentric Reducer

SDR 17 PN 10
SDR 11, PN 16

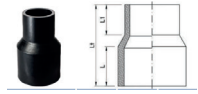


Nominal Size (mm)

90X50	225X160
90X63	225X180
90X75	225X200
110X50	250X140
110X63	250X160
110X75	250X180
110X90	250X200
125X63	250X225
125X75	315X225
125X90	315X250
125X110	355X200
160X90	355X225
160X110	355X250
160X125	355X315
160X140	400X200
180X90	400X225
180X110	400X250
225X110	400X315
225X125	400X355
225X140	

Concentric Reducer Long Spigot

SDR 17 PN 10
SDR 11, PN 16



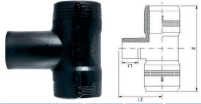
Nominal Size (mm)

32X20	125X63
32X25	125X90
40X25	200X75
40X32	200X90
50X25	225X200
90X50	250X90
90X63	250X110
90X75	250X160
110X50	250X180
110X63	250X200
50X32	315X160
50X40	315X200
63X25	315X250
63X40	355X250
75X50	355X315
75X63	400X160
90X63	400X200
90X75	400X250
110X75	400X315
110X90	



ELECTROFUSION FITTINGS

Electrofusion Reduced Tee 90°
SDR 17 PN 10
SDR 11, PN 16



Nominal Size (mm)	
75X63	160X75
90X63	160X90
90X75	160X110
110X63	200X63
110X75	200X75
110X90	200X90
160X63	

Electrofusion Flange
SDR 17 PN 10
SDR 11, PN 16



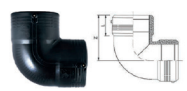
Nominal Size (mm)	
63	200
75	225
90	250
110	315
125	355
160	400

Electrofusion Cup
SDR 17 PN 10
SDR 11, PN 16



Nominal Size (mm)	
40	160
50	200
63	225
75	250
90	315
110	355
125	400

Electrofusion Elbow 90°
SDR 17 PN 10
SDR 11, PN 16



Nominal Size (mm)	
63	
75	
90	
110	
125	
160	
200	

Electrofusion Equal Tee 90°
SDR 17 PN 10
SDR 11, PN 16



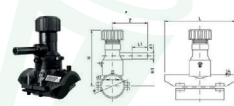
Nominal Size (mm)	
63X63	
75X75	
90X90	
160X160	
200x200	

Electrofusion Coupler
SDR 17 PN 10
SDR 11, PN 16



Nominal Size (mm)	
20	125
25	160
32	180
40	200
50	225
63	250
75	315
90	355
110	400

Tapping Tee With Rotatable
SDR 17 PN 10
SDR 11, PN 16



Nominal Size (mm)	
63X25	110X40
63X32	110X50
63X40	160X32
63X63	160X40
90X25	160X50
90X32	160X63
90X50	200X32
90X63	200X40
110X32	200X63



FABRICATED FITTING

Fabricated Equal Tee 90°
SDR 17 PN 10
SDR 11, PN 16



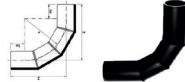
Nominal Size (mm)	
90	250
110	280
125	315
140	355
160	400
180	450
200	500
225	

Fabricated Equal Tee 45°, 60°
SDR 17 PN 10
SDR 11, PN 16



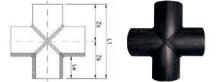
Nominal Size (mm)	
90	250
110	280
125	315
140	355
160	400
180	450
200	500
225	

Fabricated Elbow 90°
SDR 17 PN 10
SDR 11, PN 16



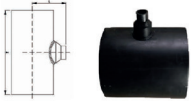
Nominal Size (mm)	
90	250
110	280
125	315
140	355
160	400
180	450
200	500
225	

Fabricated Cross 90°
SDR 17 PN 10
SDR 11, PN 16



Nominal Size (mm)	
90	250
110	280
125	315
140	355
160	400
180	450
200	500
225	

Fabricated Equal Tee 45°, 60°
SDR 17 PN 10
SDR 11, PN 16



Nominal Size (mm)	
315X125	560X200
315X110	560X110
315X63	560X90
355X160	630X250
355X90	630X200
355X75	630X180
400X160	630X160
400X110	710X280
400X90	710X225
450X200	710X180
450X180	710X90
450X125	800X315
450X110	800X280
500X180	800X225
500X160	800X160
500X125	900X400
500X63	900X250
560X225	900X160

Fabricated Elbow 45°, 60°
SDR 17 PN 10
SDR 11, PN 16



Nominal Size (mm)	
90	250
110	280
125	315
140	355
160	400
180	450
200	500
225	



UNPLASTICIZED POLYVINYL CHLORIDE PIPES (uPVC)

NEWPRO uPVC pipes are manufactured in accordance to the international standards for different types of usage mainly British and European standards (BS EN 1401, BS EN 1329, DIN 8062, BS 3505/3506, BS 6099, QCS 2010, QCS 2014). In some cases NEWPRO are manufacturing pipes that are in accordance to the standard of telecommunication companies and contractors in the state of Qatar.

TECHNICAL DATA OF NEW PRODUCT PLASTIC FACTORY

FACTORY UPVC Pipes

PHYSICAL PROPERTIES

	Properties at 20_C	Unit	Values	Method of Evaluation
1	Specific Gravity at 23_C		Values	ASTM D 792
2	Flammability	not support	1.43	ASTM D 635
3	Resistance of burning	Sec.	< 30	BS 4607 PART 2:70
4	Softening PT. (VSP 5kgf)	_C	82	BS 2782 - 1976
5	Shore Hardness		81	ASTM D 2240-75
6	Thermal Conductivity	W/m-k	0.17	BS 874-1973
7	Specific Heat	Cal/g_C	0.25	

MECHANICAL PROPERTIES

	Properties at 20_C	Unit	Values	Method of Evaluation
1	Tensile Strength 20_C	Kg/cm ²	481-550	AISO R 257
2	Modulus of Elasticity	MN/m	3000	ASTM - 1784
3	Compressive Strength	Kp/cm	668	BS 4607 PART 2:70
4	Flexural Strength	Kp/cm	950	ASTM D 790
5	Elongation at Break	%	> 80	ISO R 527
6	Yield Stress	Kp/cm	> 400	ISO R 527
7	Resistance to Heat	mm	<2	BS 4607 PART 2:7073

CHEMICAL PROPERTIES

	Properties at 20_C	Unit	Values	Method of Evaluation
1	TResist to Sulphuric Acid	g/45cm	-0.13 +3.19	
2	Resist to Methylene Chloride	%	<3	ISO 2508/81
3	Resist. Water Absortion	.mg/cm	<2.0	ISO 2508/81 & DIN 8061

TOXICITY PROPERTIES

	Properties at 20_C	Unit	Values	Method of Evaluation
1	Pb Toxicity	.mg/L	<0.3	
2	Sn Toxicity	=	<0.02	
3	Zn Toxicity	=	<0.01	

MECHANICAL PROPERTIES

	Properties at 20_C	Unit	Values	Method of Evaluation
1	Volume Resistively	.mg/L	1014	
2	Surface Resistance	.ohm	1012	DIN 53482
3	Power Factor at 10 HERTZ		3	
4	Dielectric strength	V/mil	1400	BS 4607
5	Insulation Resistance	M. ohm	1.1x10 ⁵	BS 4607

SEWERAGE/DRAINAGE NON-PRESSURE UPVC PIPES

Due to in demand of supply for the sewerage/drainage non-pressure uPVC pipes in Qatar, we manufacture now this type of pipes in accordance to both British, Dutch & American standards as follows.

BS EN 1329 (Formerly BS 5255) Soil & Waste (Above Ground Drainage)				
Nominal Size		Mean Outside Diameter		Wall Thickness
INCH	mm	mm		mm
1 1/4	32	36.15		2.0
1 1/2	40	42.75		2.0
2	50	55.75		2.0
The Standard Length		4.0 Meters		
The Standard Color		Light Gray in Color.		
The Socket Type		Solvent Weld Socket Type		

BS EN 1329 (Formerly BS 5255) Soil & Waste (Above Ground Drainage)				
Nominal Size		Mean Outside Diameter		Wall Thickness
INCH	mm	mm		mm
3	82	82.4		3.2
4	110	110.0		3.2
6	160	160.0		3.2
The Standard Length		3">4.0 Meters, 4 & 6"->5.8 Meters.		
The Standard Color		Light Gray in Color.		
The Socket Type		Solvent Weld Socket Type		

BS EN 1401-1 (Formerly BS 4660) Sewer & Drainage (Underground)							
Nominal Size DN/OD	Nominal Outside Dia.	SN2 SDR 51 ^b		SN4 SDR 41		SN8 SDR 34	
		°min	°m.max	°min	°m.max	°min	°m.max
110	110	-	-	3.2	3.8	3.2	3.8
125	125	-	-	3.2	3.8	3.7	4.3
160	160	3.2	3.8	4.0	4.6	4.7	5.4
200	200	3.9	4.5	4.9	5.6	5.9	6.7
250	250	4.9	5.6	6.2	7.1	7.3	8.3
315	315	6.2	7.1	7.7	8.7	9.2	10.4
(355)	355	7.0	7.9	8.7	9.8	10.4	11.7
400	400	7.9	8.9	9.8	11.0	11.7	13.1
(450)	450	8.8	9.9	11.0	12.3	13.2	14.8
500	500	9.8	11.0	12.3	13.8	14.6	16.3
630	630	12.3	13.8	15.4	17.2	18.4	20.5
Color golden brown or red							
Length 5.8 and 6 Meter							
Socket Rubber Ring Seal							
Solvent or plain ends							

BS 5481 Gravity Sewerage uPVC Pipes

Nominal Size	Mean Outside Diameter	Wall Thickness
mm	mm	mm
200	200.00	4.9
250	250.00	6.1
The Standard Length	5.8 & 6.0 Meters.	
The Standard Color	Red (Golden Brown)	
The Socket Type	Solvent Weld & Rubber Ring Seal Socket Type	

NEWPRO Pressure uPVC Pipes

NEWPRO manufactures this pressure pipes for the wide used in the plumped water supply system, irrigation and industrial purposes. These pipes are manufactured in accordance to the following:

1. British Standards:

BS EN 1401-1 (Formerly BS 4660) Sewer & Drainage (Underground)

Nominal Size (inch)	Outside Diameter (mm)	Wall Thickness (mm)			
		Class B (6 Bar)	Class C (9 Bar)	Class D (12 Bar)	Class E (15 Bar)
1/2"	21.1				1.7
3/4"	26.6				1.9
1"	33.4				2.2
1 1/4"	42.1			2.2	2.7
1 1/2"	48.1			2.5	3.1
2"	60.2		2.5	3.1	3.9
2 1/2"	75.0		3.0	3.9	4.8
3"	88.7	2.9	3.5	4.6	5.7
4"	114.1	3.4	4.5	6.0	7.3
6"	168.0	4.5	6.6	8.8	10.8
8"	218.8	5.3	7.8	10.3	12.6
10"	272.6		9.7	12.8	15.7
12"	323.4		11.5	15.2	18.7
14"	355.0		12.6	16.7	20.5
16"	405.9		14.5	19.0	23.4
18"	456.7		16.3	21.4	
20"	507.5		18.1		
24"	609.1		21.7		
The Standard Length	5.0, & 6.0 Meters				
The Standard Color	Dark Gray				
The Socket Type	Solvent Weld Socket Type				
	Rubber ring socket for sizes 4", 6" & 8" Class D & E.				

2. German DIN Standards:

DIN 8062/63 NEWPRO Pressure uPVC Pipes					
Nominal Size (mm)	Outside Diameter (mm)	Wall Thickness (mm)			
		Class 2 (4 Bar)	Class 3 (6 Bar)	Class 4 (10 Bar)	Class 5 (16 Bar)
40	40		1.8	1.8	3.0
50	50		1.8	1.8	3.7
63	63		1.9	1.9	4.7
75	75	1.8	2.2	2.2	5.6
90	90	1.8	2.7	2.7	6.7
110	110	2.2	3.2	3.2	8.2
160	160	3.2	4.7	4.7	11.9
200	200	4.0	5.9	5.9	14.9
225	225	4.5	6.6	6.6	16.7
250	250	4.9	7.3	7.3	18.6
280	280	5.5	8.2	8.2	20.8
315	315	6.2	9.2	9.2	23.4
355		7.0	10.4	10.4	26.3
400		7.9	11.7	11.7	29.7
450		8.9	13.2	13.2	
500		9.8	14.6	14.6	
560		11.0	16.4	16.4	
630		12.4	18.4	18.4	
710		14.0	20.7	20.7	
800		15.7	23.3	23.3	
The Standard Length	5.0, & 6.0 Meters				
The Standard Color	Dark Gray				
The Socket Type	Solvent Weld Socket Type				

3. ASTN Standards:

ASTM D 1785 (Schedule Series) Pressure uPVC Pipes			
Nominal Size (inch)	Outside Diameter (mm)	Wall Thickness (mm)	
		Schedule 40	Schedule 60
1/2"	21.24	2.77	3.73
3/4"	26.57	2.87	3.91
1"	33.27	3.38	4.55
1 1/4"	42.03	3.56	4.85
1 1/2"	48.11	3.68	5.08
2"	60.17	3.91	5.54
3"	88.70	5.49	7.62
4"	114.07	6.02	8.56
6"	168.00	7.11	10.97
8"	218.70	8.18	12.70
The Standard Length	4.0, 5.8 & 6.0 Meters.		
The Standard Color	For SCH. 40 = White & for SCH 80 Dark Gray.		
The Socket Type	Solvent Weld		

ASTM D 2241 (SDR - Series) Pressure uPVC Pipes

Nominal Size (mm)	Outside Diameter (mm)	Wall Thickness (mm)					
		SDR 41	SDR 32.5	SDR 26	SDR 21	SDR 17	SDR 13.5
1/2"	21.24						1.57
3/4"	26.57				1.52	1.57	1.98
1"	33.27			1.52	1.60	1.96	2.46
1 1/4"	42.03		1.52	1.63	2.01	2.49	3.12
1 1/2"	48.11		1.52	1.85	2.29	2.84	3.58
2"	60.17		1.85	2.31	2.87	3.56	4.47
3"	88.70	2.16	2.74	3.43	4.24	5.23	6.58
4"	114.07	2.80	3.51	4.39	5.44	6.73	8.46
6"	168.00	4.11	5.18	6.48	8.03	9.91	12.47
8"	218.70	5.33	6.73	8.43	10.41	12.90	
$SDR = \frac{\text{Outside Diameter}}{\text{Wall Thickness}}$		The Standard Length		5.8 or 6.0 Meters.			
		The Standard Color		White			
		The Socket Type		Solvent Weld Socket			

ASTM 2279 (PVC) SEWER PIPES

Nominal Size	Outside Diameter(mm)	Wall Thickness(mm)
mm	mm	mm
2"	57.15	1.80
3"	72.55	1.80
4"	107.6	1.90
6"	159.39	2.60
The Standard Length	5.8 Meters.	
The Standard Color	Grey	
The Socket Type	Solvent Weld	



NEWPRO uPVC Electrical Conduit & Cable Ducts

NEWPRO has a variety of electrical conduits and cable ducts which are manufactured in accordance to British Standards, European Standards, Qatar Telecommunication (QTEL), Electricity (Kahrama) and Water Service Company.

BS EN 561386 / BS EN 50086 / Formely BS 6099

Nominal Size (mm)	Inside Diameter			Wall Thickness (mm)		
	Light	Medium	Heavy	Light	Medium	Heavy
20	17.4	16.9	15.8	1.4	1.6	1.8
25	22.1	21.9	20.6	1.6	1.8	1.9
32	28.6	27.8	26.6	1.7	2.1	2.5
40	36.6	35.8	35.0	1.7	2.1	2.5
50	45.1	44.3	43.2	2.45	2.85	3.2
The Standard Length	All conduits are 2.9 meters in Length					
The Standard Color	All conduits are White or Black in color.					

NEWPRO uPVC Electrical Cable Duct Pipes

Newpro manufacturing uPVC electrical cable duct pipes as per KAHRAMAA and QCS specification

Size (mm)	Outside Diameter (mm)	Wall Thickness (mm)
110	110.00 - 110.30	2.40
160	160.00 - 160.40	3.60
The Standard Length	As per customer requirements	
The Standard Color	Black	

NEWPRO uPVC Cable Duct Nema TC-2 Pipes

Newpro manufacturing uPVC high voltage cable duct pipes as per NEMA TC-2 specification

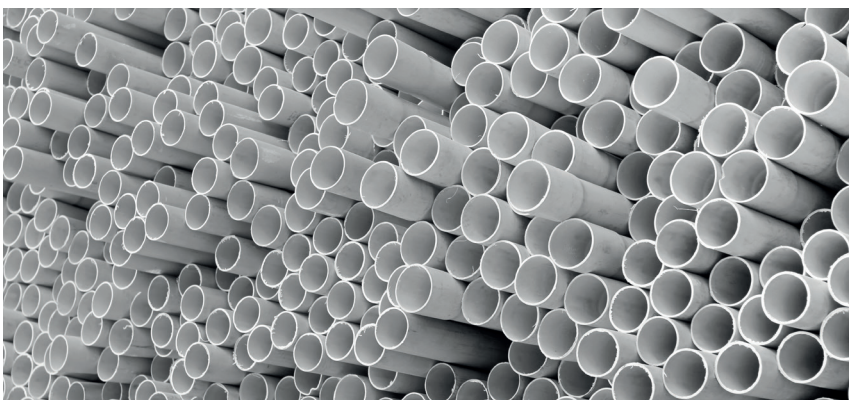
Size (Inch)	DN (mm)	Outside Diameter (mm)	Wall Thickness	
			EPC - 40	EPC - 80
1/2"	16.00	21.34	2.77	3.73
3/4"	21.00	26.67	2.87	3.91
1"	27.0000	33.4 as	3.38	4.55
1 1/4"	31.00	42.16	3.56	4.85
1 1/2"	45.00	48.26	3.68	5.08
2"	53.00	60.32	3.91	5.54
3"	78.00	88.9	5.49	7.62
4"	103.00	114.3	6.02	8.56
6"	155.00	168.28	7.11	10.97
The Standard Length	As per customer requirements			
The Standard Color	Grey / Blue			

Qatar Telecommunication (Ooredoo) Standard

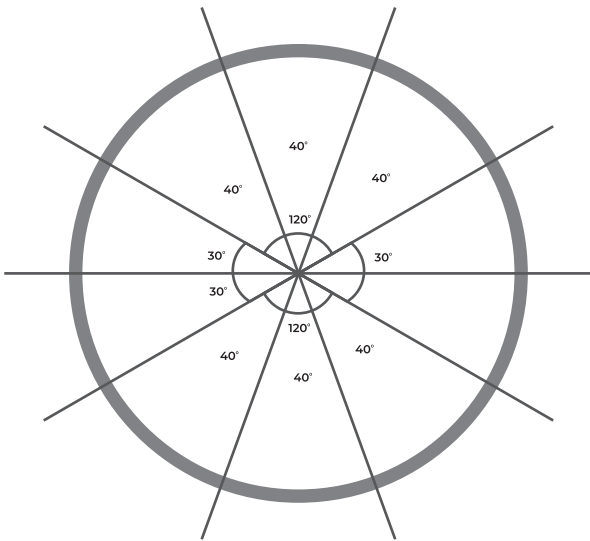
Duct No	Outside Diameter (mm)	Inside Diameter (mm)	Socket Length (mm)	Duck Length	Wall Thickness
54D	96.5	90.0	100.0	5.9	3.25
56D	56.5	50.0	70.0	3.90	3.25
Standard Color		All ducts & bends are black			
Socket Type		All ducts & bends are solvent weld type			

NEWPRO DUCTS (According to QCS 2010 and 2014)

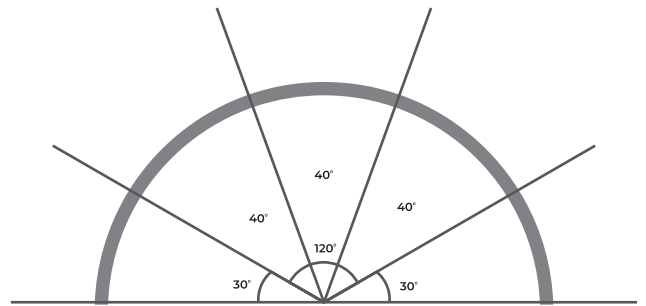
Nominal Size (Inch)	Outside Diameter (mm)	Wall Thickness(mm)	Standard Length (meters)
2"	55.75	2.0	4.0
3"	82.4	2.2	4.0
4"	110.0	2.4	5.8
6"	160.0	2.6	5.8
4"	110.0	3.2	5.8
6"	160.0	4.7	5.8
6"	160.0	3.6	5.8
8"	200.0	4.0	5.8
8"	200.0	4.9	5.8
10"	250.0	4.9	5.8
10"	250.0	6.1	5.8
12"	315.0	7.7	5.8
12"	315.0	9.2	5.8
Standard Color		Red, Grey and Black	
Socket Type		All pipes are solvent or rubber socket.	



Perforated Piping System



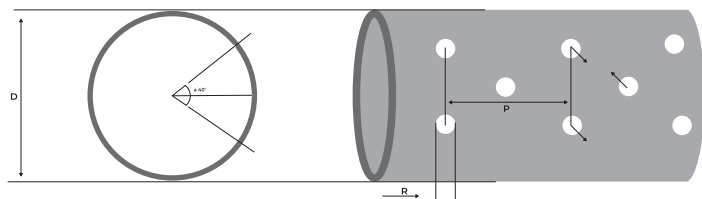
Fully Perforated Pipe



Half Perforated Pipe

Outside Diameter (mm)	Wall Thickness (mm)	Joint Type
110	3.2	SCI
160	4.1	SCI
200	4.9	SCJ or RS
250	6.1	SCJ or RS
315	7.7	SCJ or RS

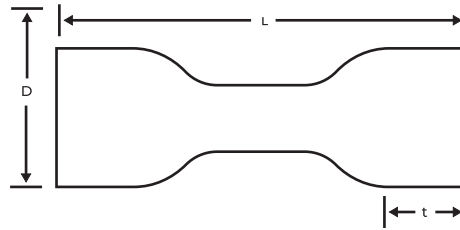
Perforated Pipe Data	
Hole Size (R)	8mm or as required
Hole Spacing (P)	200mm or 250mm along piping axis drawing
Number of Raws	1 to 4 as
Raw Spacing	mentioned in the
	40° separation between adjacent rows 1200 between outside raw if all four rows are used
Color	Red or grey



Double Coupling

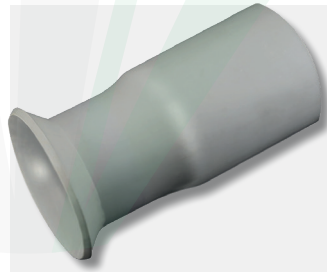
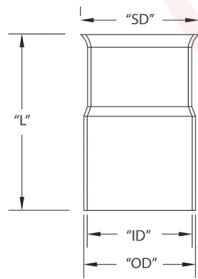
Size	Length	"ID"
90	190 mm	90mm
110	1 mtr	110mm
160	1 mtr	168mm

It is used to connect two spigot ended ducts straight through



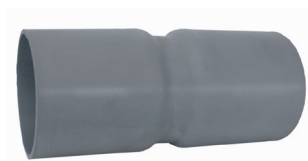
Bell Mouth Fabricated

Trade Size	Length	"OD"	Thickness
2	340mm	50mm	2.5mm
4	340mm	110mm	2.4mm
6	340mm	160mm	3.6mm
8	340mm	200mm	4.0mm
10	340mm	250mm	4.9mm



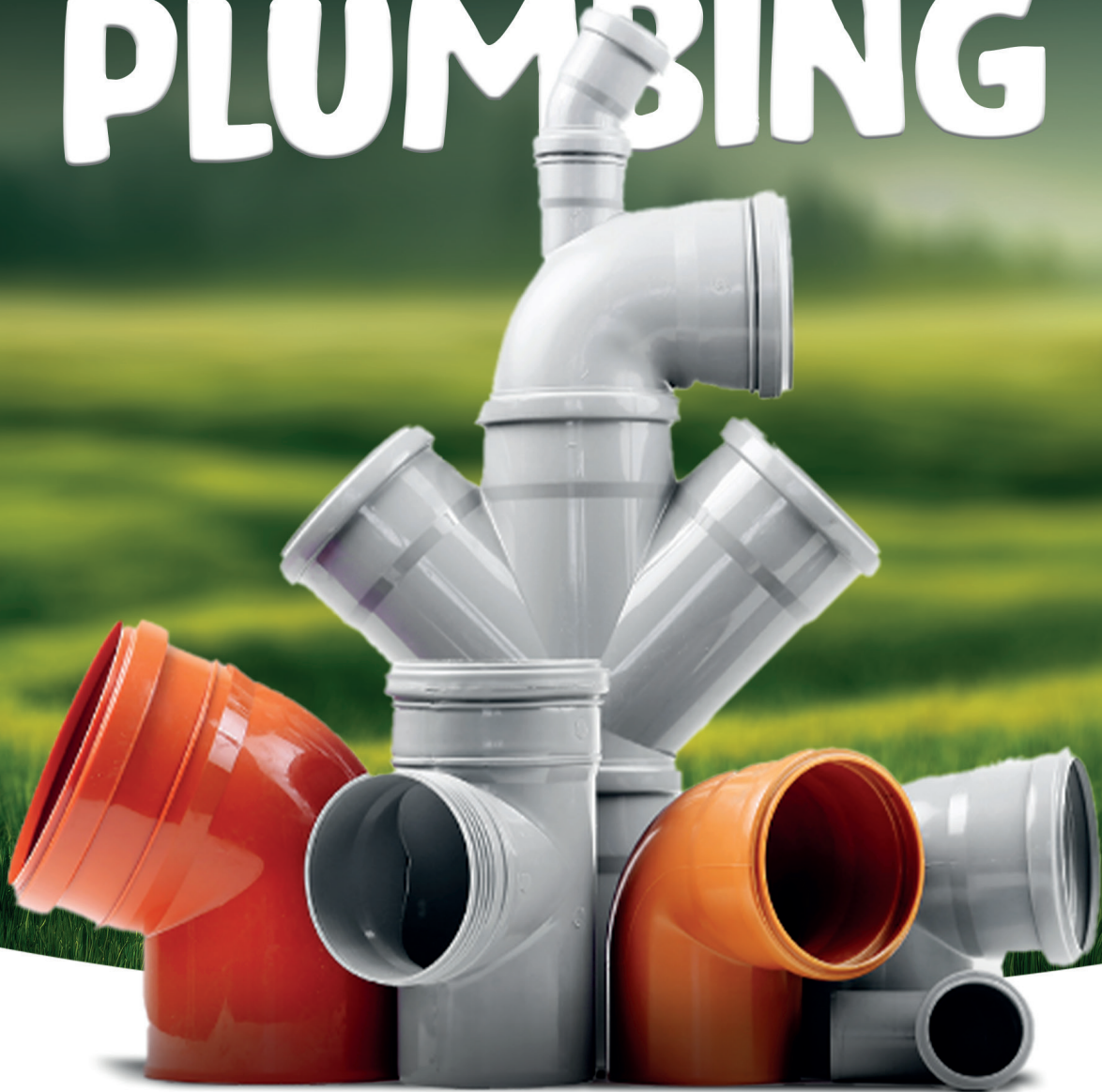
Bell To Bell End Fabricated

Trade Size	Length	"OD"	Thickness
2	340mm	50mm	2.5mm
4	340mm	110mm	2.4mm
6	340mm	160mm	3.6mm
8	340mm	200mm	4.0mm
10	340mm	250mm	4.9mm



Note: Also available with various sizes in case of request by contractor.

PIONEERING THE FUTURE OF PLUMBING



NEWPRO 
TAKAB

NEWPRO uPVC Bends and Collars



Bend 30°



Bend 45°



Bend 90°



Collar

DIA	Wall Thickness	Bend 30°	Bend 45°	Bend 90°	Collar
55 mm	2.2 mm	✓	✓	✓	✓
82 mm	2.2 mm	✓	✓	✓	✓
110 mm	2.4 mm	✓	✓	✓	✓
160 mm	2.6 mm	✓	✓	✓	✓
160 mm	3.6 mm	✓	✓	✓	✓
56.5 mm	3.25 mm	✓	✓	✓	✓
96.5 mm	3.25 mm	✓	✓	✓	✓

Technical Specifications and installation instructions

NEWPRO Conduit and trunkings are light weight, user friendly, easy to handle and does not call for on- site handling equipment due to its versatile design and features. NEWPRO cable management products are non- conductive, non-corrosive, complies with relevant specifications, codes of practice and regulations for Electrical Equipment Buildings (IEE publication).

Installation should be undertaken by proficient personnel with due for safety and environment interests to achieve optimum benefits of cable management. Following instructions are intended to be a guide for the installation of NEWPRO products.

Conduit Systems

Choice of Conduits and Installation	Joint and Couplers
<p>The choice of conduit and fittings is subject to kind of work being executed and the specifications required.</p> <p>Appropriate gauge conduit is selected for surface fixing and suitable conduit is chosen for concealed installations. Conduit used in surface installations should be secured using saddles/spacer bar saddles. Distancing between supports shall be 1.5 meters for horizontal run and 1.75 meters for vertical run for the conduit sizes of 20 and 25mm diameter. For 32 and 38mm diameter conduits, saddle support shall be 1.75 horizontal and 2.0 meter vertical is recommended. 2.0 meter horizontal and vertical distancing is suggested for 50mm diameter conduit. In surface fixing, whenever mounting boxes/bends are used, conduit shall be secured with spacer bar saddle within 20cms on either side of fitting to give a firm support for installation. Where conduits are to be embedded in concrete, securing of conduits with reinforcing/formwork is desired to avert displacing of conduits while read-mix concrete pouring and subsequent vibrating of concrete mix.</p>	<p>Conduits have a tendency for expansion/contraction at changing ambient temperature. For facilitating this phenomenon, recommended for it's using expansion couplers for every 6- meter run avert conduit kinking and buckling. Expansion couplers are installed with the solvent cement applied on short spout of expansion coupler and pushing conduit firmly into notching. Use appropriate water resistant lubricating sealant on the other end and position conduit at midpoint of long spout for aiding expansion and contraction in the saddles.</p> <p>Joining of conduit into various fittings viz., couplings, adaptors, junction boxes, bends and mounting boxes are easily joined by using Comat solvent welding cement. Due care need to be taken for proper surface preparation of components. Cut conduit to required length using fine toothed hacksaw or pipe cutter and remove all burrs and loose dust. Apply evenly a layer of solvent cement to the pipe and fitting with a quarter turn to evenly spread the solvent. cement wiping off any excess. cement from the components</p>
Method of Bending	Cable Carrying Capacity
<p>All NEWPRO conduits of different gauges under 25mm OD size can be easily bent cold by using designated bending spring. Ensure using of correct size and gauge. Insert the spring into desired position, grip the conduit on either sides and exert force by hand. or place the conduit across the knee and continue bending slowly but progressively until bend is slightly beyond the angle required. Now, allow the conduit to recover back to the desired position. To remove the spring from conduit, twist it in anti-clockwise direction while rotating the conduit clockwise simultaneously pulling them slowly apart. Bending of conduits above 25mm size shall be carried out with hot bending technique. Insert proper size of spring into the conduit as explained above and immerse bending portion in boiling water or use a radiant heat source. When the conduit softens, used a suitable former and continue holding until bend is set to required angle.</p>	<p>Size of the conduit is explicitly governed by IEE publication to ensure accommodating maximum number of cables of the same size, or different sizes for complying with the requirement of regulations. This is necessitated to make certain the number of cables drawn into conduit or a wiring system shall be such that no damages caused to the cables and conduits while carrying out the installation</p>

uPVC Piping System

Flange
Light Gray: EN1329
Orange: EN1401



Nominal Size (mm)	
90	160
110	200
110	250
125	315
160	

Y Tripple Socket 45°
Light Gray: EN1329
Orange: EN1401



Nominal Size (mm)	
75X50	125X90
90X63	125X110
110X63	160X110
110X75	160X125
110X90	

Coupling
Light Gray: EN1329
Orange: EN1401



Nominal Size (mm)	
50	125
63	160
75	200
90	250
110	315

Cap
Light Gray: EN1329
Orange: EN1401



Nominal Size (mm)	
40	110
50	125
63	160
75	200
90	

Tee 45°
Light Gray: EN1329
Orange: EN1401



Nominal Size (mm)	
63	125
75	160
90	200
110	250

Reducing Tee 45°
Light Gray: EN1329
Orange: EN1401



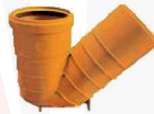
Nominal Size (mm)	
90X63	125X110
110X63	160X110
110X90	200X110

Reducing Tee 90°
Light Gray: EN1329
Orange: EN1401



Nominal Size (mm)	
90X63	
110X63	
160X110	

U Trap
Light Gray: EN1329
Orange: EN1401



Nominal Size (mm)	
63	110X110
90	125X110
110	125

Cross 45°
Light Gray: EN1329
Orange: EN1401



Nominal Size (mm)	
110X110X110X110	
110X90X90X110	
110X63X63X110	

Elbow Double Soket 45°
Light Gray: EN1329
Orange: EN1401



Nominal Size (mm)	
63	160
75	200
90	250
110	315

Reducer
Light Gray: EN1329
Orange: EN1401



Nominal Size (mm)	
63X25	110X90
63X32	125X63
63X40	125X110
63X50	160X110
75X63	160X125
90X63	200X160
90X75	250X200
110X63	315X250
110X75	

Light Gray: EN1329
Orange: EN1401



Nominal Size (mm)	
20	90
25	110
32	125
40	160
50	200
63	250
75	315

Elbow 45°
Light Gray: EN1329
Orange: EN1401



Nominal Size (mm)	
25	110
32	125
45	160
50	200
63	250
75	315
90	400

Tee 90°
Light Gray: EN1329
Orange: EN1401



Nominal Size (mm)	
20	90
25	110
32	125
40	160
50	200
63	250
75	315

Above Ground Drainage Waste BS 5255 Fittings

Elbow 90°		Elbow 45°		Branch 90°		Branch 45°		Socket	
									
Size (inch)		Size (inch)		Size (inch)		Size (inch)		Size (inch)	
1 1/2"	2"	1 1/2"	2"	1 1/2"	2"	1 1/2"	2"	1 1/2"	2"

Above Ground Drainage Soil BS 4514 Fittings

Elbow 90°			Elbow 45°			Branch 90°			Branch 45°			Socket		
														
Size (inch)			Size (inch)			Size (inch)			Size (inch)			Size (inch)		
3"	4"	6"	3"	4"	6"	3"	4"	6"	3"	4"	6"	3"	4"	6"

Trapped Floor Gully


Size (inch)
4"

End Cap


Size (inch)
4" 6"



Underground Drainage System BS 4660 Fittings

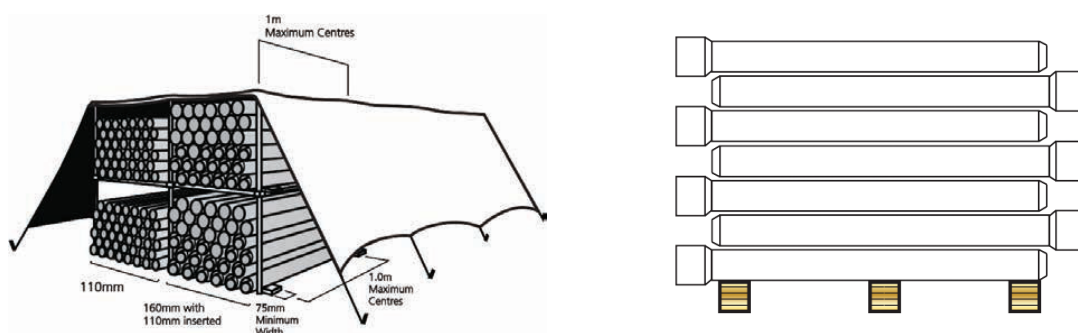
Elbow 90°		Branch 90°		Branch 45°		Elbow 45°		P Trapped Gully		End Cap	
											
Size (inch)		Size (inch)		Size (inch)		Size (inch)		Size (inch)		Size (inch)	
4"	6"	4"	6"	4"	6"	4"	6"	4"	4"	4"	4"

NEWPRO Factory U P.V.C Pipes Transport Handling and Storage

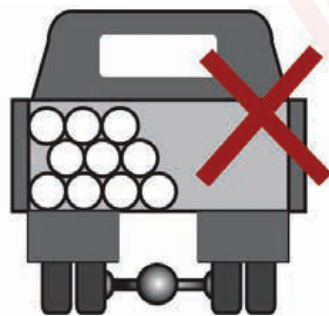
Our factory shown that:

1. Un plasticized u P.V.C pipes are strong but light,
2. Its specific gravity being approximately one- fifth that cast iron.
3. As a result, these pipes are more easily handled than their metal counterparts.
4. Reasonable care, however should be exercised at all times, and when of loading, pipes should be lowered, not dropped to the ground.
5. Pipe should be given adequate support at all times.
6. Pipes should not be stacked in large piles especially in warm temperature conditions, as the lower layers may distort: resulting in difficulties when joining and for pipe alignment.
7. Any pipe with ends prepared for joining (socket and spigot joints, RR joints, etc.) should be stacked in layers with the socket, placed at alternate ends of the stack and with sockets protruding to avoid lop-sided stacks and the Imparting of permanent set to pipes.
8. Particularly in the case of Ring pipe, rubber rings should not be exposed to solar radiation for any length of time if they are not coated.
9. It is recommended to stock them in a cool and shady place.
10. Rubber rings should not come in touch with chemicals, grease, oil and to be stored for too long a time.
11. For long-term storage, pipe racks should provide continuous support, but if this is not possible, timber of at least 75 mm bearing width at spacing not greater than 1 m centers for pipe sizes 150 mm and above, should be placed beneath the pipes and at 2 m centers at the side, if the stacks are rectangular.
12. These spacing apply to pipe size 160 mm and above.
13. Closer supports will be required for sizes below 160 mm.
14. In such pipe racks, pipes may be stored not more than seven layers or 1.5 m high, whichever is the lesser, but if different classes of pipe are kept in the same racks, then the thickest classes must always be at the bottom.

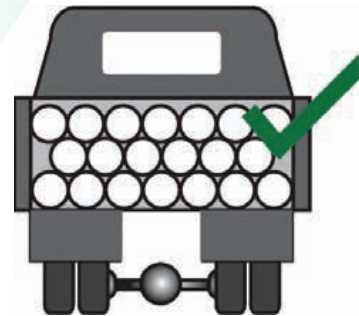
Non-Exposure To Direct Sunlight



15. For temporary storage in the field, where racks are not provided, the ground should be level and free from coarse stones.
16. Pipes stored thus should not exceed three layers high and should be staked to prevent movement.
17. Stack heights should be reduced if pipes are nested; i. e. pipes stored inside pipes of larger diameters.
18. Reductions in height should be proportional to the weight of the nested pipe compared to the weight of the pipes normally contained in such storage's.
19. Since the soundness of any joint depends on the condition of the spigot and the socket, special care must be taken in transit, handling and storage to avoid damage to the ends.
20. When loading pipes on the vehicles, care must be taken to avoid their coming into contact with any sharp corners such as cope irons, loose nail-heads, etc., as pipes may be damaged by being rubbed against these during transit whilst in transit pipes shall be well secured over their entire length and not allowed to project unsecured over the tailboard of the lorry.
21. Pipes may be off loaded from lorries and or by rolling them gently down timbers, care being taken to ensure that pipes do not fall one upon another nor on any hard or uneven surfaces.
22. Fork-lift trucks will have to be used for bundles and large unit loads.



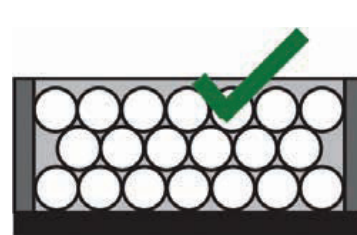
NOT Recommended Handling



Recommended Handling



NOT Recommended Handling



Recommended Storage

EXCAVATION

1. The width of the trench excavation should be kept to a minimum, allowing just sufficient working area for jointing and initial compaction around the pipe. For most purposes, a trench 300mm wider than the diameter of the pipe allows enough room for jointing.
2. It is important that the trench is not excavated too far in advance of the pipe laying operation, especially in situations where the trench walls are unstable

BEDDING

1. The quality of the bedding material and its compaction, together with the nature of the undisturbed material of the trench walls are all relevant to the ultimate performance of Duroflo and Ultraflo pressure pipes once installed.
2. The trench bed must be free from all stones or sharp projections which are likely to cause damage to the pipe.
3. The bottom of the trench should be backslid to a depth of 100mm, with selected bedding material such as free draining coarse sand, gravel or soil of a friable nature.
4. The size of soil particles in the bedding material should not exceed 20mm.
5. The bedding, onto which the pipe is laid, should be thoroughly compacted to the specified density.
6. Reference should be made to SANS 2001 for bedding specifications

ANCHORING

1. When an internal hydrostatic pressure is applied to the pipe, unbalanced forces develop at all changes of size and direction in a pipeline.
2. Thrust blocks prevent the movement of fittings and must be placed at all changes of direction, valves, stop ends and reducers. Concrete thrust blocks are most commonly used at all anchor points.
3. The dimensions of the thrust blocks must be calculated to suit the pipe diameter, pressure and the load bearing capacity of the soil.

METHODS OF UPVC PIPES JOINTING

SOLVENT CEMENT/GLUE JOINTING SYSTEM

This method, otherwise known as a Solvent Weld, is the most popular and requires a low skill capability.

PVC 'solvent cement' or 'glue' is in essence the chemical mixture that when applied to the mating surfaces of the PVC pipe, fitting or valve connections, welds them together by means of a chemical reaction creating what is technically known as an 'homogenous bond' i.e. the two separate surfaces are now chemically fused to become one.

CORRECT JOINING PROCEDURE:

- » Cut the pipe square and deburr the spigot.
- » Mark the socket depth to the spigot end.
- » Clean dry and degrease the two jointing surfaces.
- » Check the fit before making any cuts or applying any glue.
- » Apply priming fluid to the socket and the spigot ends.
- » Apply an even coat of solvent cement to both the socket and spigot ends.
- » Insert the spigot the full market depth of the socket and HOLD for a minimum of 30 seconds.
- » Clean off any surplus solvent cement.



RUBBER RING JOINING

Rubber ring joints provide a fluid seal by compressing a rubber ring housed in the socket of a pipe or fitting when the spigot is passed into the socket. The correct jointing rings are supplied with the pipe or fitting.

APPROVALS

COMMERCIAL REGISTRATION

وزارة التجارة والصناعة
Ministry of Commerce and Industry
دولة قطر - State of Qatar

إدارة التسجيل
والتراخيص التجارية

مستخرج بعض بيانات السجل التجاري

تاريخ الطباعة: 2023/08/06

رقم السجل التجاري: 71786
رقم التسجيل الضريبي: 5000261784
اسم التجاري: مصنع المنتجات الجيدة البلاستيك-نيو/
مرفوع اصالح بنك قطر للتصنيع
تاريخ انشاء السجل: 29/03/2015
الشكل القانوني: شركة ذات مسؤولية محدودة
نشاط: 0
عدد الشروع: 0
صندوق البريد: 3375
أرقام الاتصال: +97466445791

الشركاء

الاسم	رقم الأليات	رقم السجل	النسبة	الصفة
عدالة حسن احمد الخلف	25563400302	قطر	5	نشط
عائش حسن احمد الخلف	24763400209	قطر	95	نشط

المدرء (الممولون بالتوقيع)

الاسم	رقم الأليات	رقم السجل	النسبة	الصفة
عدالة حسن احمد الخلف	25563400302	قطر		شريك - طابقت كامله ومطلقة (مدرء)

Page 1 of 2
رقم السجل: 71786
QATAR CHAMBER

تشهد غرفة تجارة وصناعة قطر بان المنشأة المذكورة اعلاه سجلت لديها
Qatar Chamber certifies that the above mentioned establishment has been registered

وزارة التجارة والصناعة
Ministry of Commerce and Industry
دولة قطر - State of Qatar

إدارة التسجيل
والتراخيص التجارية

مستخرج بعض بيانات السجل التجاري

عائش حسن احمد الخلف 24763400209 قطر شريك - طابقت كامله ومطلقة (مدرء)

الأشطة التجارية

الاسم	رقم	اسم النشاط
4449935	4449935	السيارات المصنوعة بالمشكلة البلاستيك
2220027	2220027	انجاز لياحيب الوابى اياها على الكافة - اياحيب الوابى يوظف طوبى الاياحيب

Page 2 of 2
رقم السجل: 71786
QATAR CHAMBER

تشهد غرفة تجارة وصناعة قطر بان المنشأة المذكورة اعلاه سجلت لديها
Qatar Chamber certifies that the above mentioned establishment has been registered

OPERATION PERMIT

وزارة التجارة والصناعة
Ministry of Commerce and Industry
دولة قطر - State of Qatar

إدارة التنمية
الصناعية

ترخيص تشغيل صناعي (شهادة قيد)

تاريخ الطباعة: 5/7/2023

بيانات السجل التجاري

الاسم التجاري: مصنع المنتجات الجيدة البلاستيك-نيو مرفوع
النشاط القانوني: المصالح بنك قطر للتصنيع
رقم السجل التجاري: 71786
تاريخ بدء الانتاج: 01/06/2017

بيانات ترخيص التشغيل

رقم ترخيص التشغيل: 881
تاريخ إصدار الترخيص: 22/01/2018
تاريخ انتهاء الترخيص: 20/01/2024

معلومات التواصل

رقم الهاتف: 44813130
رقم الموبايل: 55509083
صندوق البريد: 23783
البريد الإلكتروني: pro@newproco.com

بيانات موقع المصنع

منطقة الصناعات الصغيرة والمتوسطة - 81
رقم و اسم المنطقة: 2
رقم الشارع: 283
الرقم المساحي: 81040375

الإشطة الصناعية

Activity	وصف النشاط	رقم التصنيف Ilic Code
Manufacture of pipes, hoses, plastic pipes, fittings and fittings	صناعة مواسير وخراطيم وأحذية بلاستيكية ووصلاتها وإزاحتها	222020 1

المنتجات

الرمز المسجل HS Code	المنتج Product	الوحدة Unit	القدرة التصميمية Design Capacity	القدرة الانتاجية Production Capacity
39172200 1	أحذية ومواسير وخراطيم مصنوعة من بوليإيثيلين البروفين	طن متري	2,800	1,190
39172100 2	أحذية ومواسير وخراطيم مصنوعة من بوليإيثيلين الأيثيلين	طن متري	19,000	8,075
39172300 3	أحذية ومواسير وخراطيم مصنوعة من بوليإيثيلين تيراديال	طن متري	5,801	4,930

يجب على صاحب المشروع الصناعي تقديم طلب إلى الإدارة لتحويل البيانات المبينة في المادتين (18) و (19) من اللائحة التنفيذية لأي بيانات أخرى للشروع الصناعي وذلك خلال سبعة أسابيع على الأقل من تاريخ حدوث أي تغيير في هذه البيانات علماً بأن قانون رقم (20) لسنة 2006م بإصدار لقانون (نظام) التنظيم الصناعي الموحد لأول مجلس التعاون دول الخليج العربية

Page 1 of 1
رقم ترخيص التشغيل الصناعي: 881



Certificate of Registration
This is to certify that

NEW PRODUCTS PLASTIC FACTORY-NEPRO

AT
BUILDING 283, STREET 2, NEW INDUSTRIAL AREA,
ZONE 81, DOHA, QATAR

has been assessed and certified by Vatsin Certification as meeting the requirements of



ISO 14001:2015
(Environmental Management System)

For the following activities

MANUFACTURE AND SUPPLY OF HDPE, HDPE CORRUGATED AND uPVC PIPES, FITTINGS AND ACCESSORIES

IAF CODE - 14
Certificate No : VC23021579

To verify this certificate please visit at www.vatsincertification.com

Date of Initial Registration : 09-05-2023	Revision No. : 00
Re-Certification Due : 08-05-2026	1st Surveillance : 08-05-2024
2nd Surveillance : 08-05-2025	Certificate Expiry : 08-05-2026






VATSIN CERTIFICATION PRIVATE LIMITED
Accredited by IAS (International Accreditation Services, Inc.)
13969 Saturn Street, Suite 100, Brea, California 92821 United States of America

* Validity of the Certificate is subject to successful completion of surveillance audits on or before of due date. (in case Surveillance audit is not allowed to be conducted, this certificate shall be suspended/revoked)
* Certificate is the Property of VATSIN CERTIFICATION and shall be returned immediately when demanded.
* E-mail : info@vatsincertification.com Website : www.vatsincertification.com



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ZONE 81, DOHA, QATAR

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ISO 45001:2018
(Occupational Health & Safety Management System)

For the following activities

MANUFACTURE AND SUPPLY OF HDPE, HDPE CORRUGATED AND uPVC PIPES, FITTINGS AND ACCESSORIES

IAF CODE - 14
Certificate No : VC23038489

To verify this certificate please visit at www.vatsincertification.com

Date of Initial Registration : 09-05-2023	Revision No. : 00
Re-Certification Due : 08-05-2026	1st Surveillance : 08-05-2024
2nd Surveillance : 08-05-2025	Certificate Expiry : 08-05-2026






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* E-mail : info@vatsincertification.com Website : www.vatsincertification.com

KAHRA MAA APPROVAL



رقم الإشراف: DW/854/2021
التاريخ: 05/10/2021

To: Mr. Basem Samara
Managing Partner
Company Name: NEW PRODUCTS PLASTIC FACTORY- Nepro
Doha, Qatar
Tel.: +974 4481 7793
Fax.: +974 4481 6991
E-Mail: Info@newproco.com

Subject: Request for Pre-Qualification of Products
uPVC Duct Pipe, New Product Plastic
Factory - Nepro, Qatar

With reference to the above mentioned subject and further to your letter Ref. No. NPPF/KH/UPVC/220920/R.0/01 dated 15th Dec 2020. Please note that after carefully reviewing the submitted documents, the below materials manufactured by M/s. New Product Plastic Factory (Nepro) – Qatar are approved for use in the KAHRAMAA water projects in the State of Qatar:

Descriptions of Proposed Material	Wall Thickness (e, min) – (e, max)	Nominal Size DN/OD
uPVC Duct Pipe for Road Crossing, SN4, SDR 41(Non-Pressure)	3.2mm-3.8mm	110mm
	4.0mm-4.6mm	160mm

This approval is valid up to 03/10/2026

General Notes:

- Please note that this approval shall not relieve the supplier /manufacturer from their obligations to ensure that all materials meet the requirements of Kahramaa specifications and are suitable for the purpose intended for utilize in Potable Water Networks and are delivered according to the latest Standards and Regulations.



إلى: السيد باسم سمارة
الشريك الإداري
اسم الشركة: مصنع المنتجات الجديدة للبلاستيك - نبرو
الوحدة: قطر
ت: +974 4431 7793
ف: +974 4481 6991
البريد الإلكتروني: Info@newproco.com

الموضوع: طلب تأهيل منتجات يو بي في سي، التيوب القنوات البلاطية
للخدمات، مصنع المنتجات الجديدة للبلاستيك - نبرو، قطر


بالإشارة إلى الموضوع أعلاه ورسالتكم مرجع رقم NPPF/KH/UPVC/220920/R.0/01 تاريخ ١٥ ديسمبر ٢٠٢٠، يرجى ملاحظة أنه بعد مراجعة الوثائق المقدمة بعناية، فإن المواد المندرجة والمصنعة من قبل الشركة مصنع المنتجات الجديدة للبلاستيك (نبرو) - قطر - معتمدة لاستخدامها في مشاريع مياه كهرمساء في دولة قطر:

41 +974 44846929 +974 44845999



41 +974 44846929 +974 44845999





رقم الإشراف: DW/854/2021
التاريخ: 05/10/2021

To: Mr. Basem Samara
Managing Partner
Company Name: NEW PRODUCTS PLASTIC FACTORY- Nepro
Doha, Qatar
Tel.: +974 4481 7793
Fax.: +974 4481 6991
E-Mail: Info@newproco.com

Subject: Request for Pre-Qualification of Products
uPVC Duct Pipe, New Product Plastic
Factory - Nepro, Qatar


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إلى: السيد باسم سمارة
الشريك الإداري
اسم الشركة: مصنع المنتجات الجديدة للبلاستيك - نبرو
الوحدة: قطر
ت: +974 4431 7793
ف: +974 4481 6991
البريد الإلكتروني: Info@newproco.com


الموضوع: طلب تأهيل منتجات يو بي في سي، التيوب القنوات البلاطية
للخدمات، مصنع المنتجات الجديدة للبلاستيك - نبرو، قطر

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41 +974 44846929 +974 44845999



41 +974 44846929 +974 44845999



WATER REGULATION APPROVAL

Approval Number 2111535
Test Report: J-0039566

31st October 2022
New Products Plastic Factory - NEWPRO
New Industrial Area, Zone 81,
Street No.2, Building No.283,
PO Box: 3375,
Doha,
Qatar

WATER REGULATIONS APPROVAL SCHEME LTD. (WRAS)
MATERIAL APPROVAL

The material referred to in this letter is suitable for contact with wholesome water for domestic purposes having met the requirements of BS6920-1:2000 and/or 2014 'Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water'.
The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

POLYETHYLENE - COMPONENTS. 5240


'NEWPRO HDPE Pipe', Black coloured, extruded HDPE pipe. For use with water up to 65°C.


APPROVAL NUMBER: 2111535
APPROVAL HOLDER: NEW PRODUCTS PLASTIC FACTORY - NEWPRO

The Scheme reserves the right to review approval.
Approval 2111535 is valid between November 2021 and November 2026

An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, 'Materials which have passed full tests of effect on water quality'.
The Directory may be found at: www.wrasapprovals.co.uk/approvals-directory/

Yours Faithfully


Ian Hughes
WRAS Approvals Manager



Water Regulations Approval Scheme Ltd.
Unit 13,
Willow Road,
Pen y Fan Industrial Estate,
Crumlin,
NP11 4EG

ASHGHAL APPROVAL

Approval Number 2111535
Test Report: J-0039566

31st October 2022
New Products Plastic Factory - NEWPRO
New Industrial Area, Zone 81,
Street No.2, Building No.283,
PO Box: 3375,
Doha,
Qatar

WATER REGULATIONS APPROVAL SCHEME LTD. (WRAS)
MATERIAL APPROVAL

The material referred to in this letter is suitable for contact with wholesome water for domestic purposes having met the requirements of BS6920-1:2000 and/or 2014 'Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water'.
The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

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