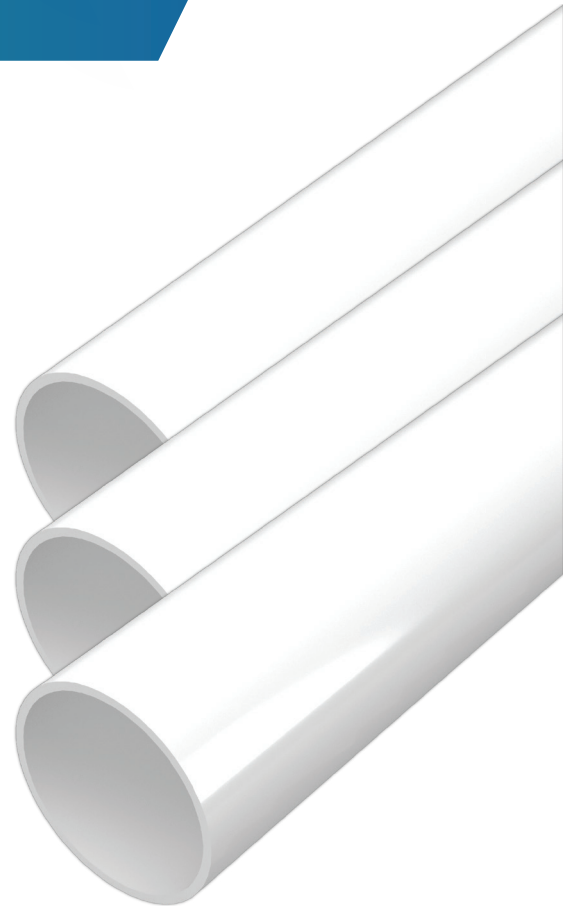


مصنع عمود البناء للمنتجات البلاستيكية
AMUD ALBINAA PLASTIC PROUDCTS FACTORY

مصنع عمود البناء للمنتجات البلاستيكية



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مقدمة

تأسست شركة **مصنع عمود البناء للمنتجات البلاستيكية** (مصنع محمد أبوبكر العمودي للمنتجات البلاستيكية سابقاً) عام ٢٠١١م ويقع المصنع بالمدينة الصناعية الثانية الجديدة بطريق الخرج مدينه الرياض حيث يقوم المصنع بإنتاج أنابيب مصنوعة من خام uPVC, وذلك طبقاً للمواصفات الرئيسية القياسية السعودية (١٩٩٨/١٤١٥) والمواصفات الألمانية DIN ١٩٥٣٢/٨٠٦٢ والمواصفات البريطانية بي اس ٣٥٠٠, والمواصفات الأمريكية ASTM ١٧٨٥ بجميع الأقطار من ٢٠ حتى ٥٠٠ ملم من ١/٢ بوصة حتى ٨ بوصة بسمكات مختلفة لإستخدامات الضغوط من المياه والصرف الصحي والتمديدات الكهربائية والزراعية والإتصالات والصناعات الأخرى, وينتج المصنع ليات البولي إثيلين المنخفض الكثافة LDPE قطر داخلي ١٦ ملم إلي ٢٣ ملم للتمديدات الكهربائية ويتم تسويق منتجات المصنع داخل المملكة وخارج المملكة في دول الخليج العربية ويتطلع المصنع ليكون أحد المصانع الرائدة في المملكة العربية السعودية ويكون له دور مهم في الصناعة الوطنية و الإهتمام بالجودة وزيادة الطاقة الإنتاجية في المستقبل .

Introduction

COMPANY PROFILE (INTRODUCTION)

AMUD ALBINNA FACTORY CO. FOR PLASTIC PRODUCTS (FORMERLY: MOHAMMED ABU BAKR AL AMOUDI FACTORY FOR PLASTIC PRODUCTS) WAS ESTABLISHED IN 2011 AD. THE FACTORY AMUD AL BINNA PLASTIC PRODUCTS IS LOCATED IN THE THIRD INDUSTRIAL CITY ON RIYADH-ALKHARJ ROAD, RIYADH.

AMUD ALBINAA FACTORY CO. FOR PLASTIC PRODUCTS IS MANUFACTURING OF HIGH QUALITY AND HIGH PERFORMING UPVC/PVC PIPES IN ACCORDANCE WITH THE SASO SPECIFICATIONS SASO 14-15/ 1998, DIN STANDARDS DIN -8062/19532, BS STANDARD BS-3505, AND ASTM STANDARDS ASTM D-1784/1785, FROM SIZES: 20MM TO 500 MM AND SIZES FROM 1/2" INCH TO 8" INCH IN DIFFERENT CLASSES AND THICKNESSES, FOR PRESSURE/NON-PRESSURE WATER LINES, SEWERAGE, ELECTRICAL NEMA TC-2, AGRICULTURE, COMMUNICATIONS, INDUSTRIAL USE AND HOME APPLICATIONS.

OUR AIM IS TO BECOME A ONE OF THE LEADING UPVC/PVC PIPE MANUFACTURER IN THE KINGDOM OF SAUDI-ARABIA AND MEETING OUR CUSTOMERS DEMAND AND OFFERING THEM BEST SERVICE AND BEST QUALITY PIPES BY INCREASING PRODUCTION CAPABILITY IN THE FUTURE.

General Advantages of uPVC Pipes

The principal reason for the great economy of AMP pipes is not so much their cost per meter as delivered to site but rather the dramatic reduction in installation costs which can be achieved by intelligent exploitation of their light weight, availability in longer lengths, ease of joining and their immunity from corrosion. These characteristics are of even greater importance to engineers now that the need to carry out water supply and sewerage schemes, industrial plant installations, etc at minimum cost and maximum reliability.

Non-Corrosive:

AMP uPVC pipes resist corrosion caused by acid, alkalis, oils, salts, moisture and the media inside and outside the pipe. It is particularly reliable for resistance to the severe climatic and soil conditions in Saudi Arabia.

Sanitary:

AMP uPVC pipes are entirely non-toxic. It will not affect the taste, smell or colour of water or liquid and will not react with any liquid to cause a precipitant.

Low Flow Loss:

AMP uPVC pipes have a mirror-smooth surface which minimize resistance and impede the build-up of deposits and corrosive scales.

Mechanical Strength:

AMP uPVC pipes have great tensile strength yet they are flexible enough to withstand displacement in the pipe line. They will not dent or flatten under pressure.

Light Weight:

AMP uPVC pipes are incredibly light. Their specific weight is one fifth of steel pipe. This cuts down transportation costs and facilitates the installation of pipes and reduces its cost.

Ease of Installation:

AMP uPVC pipes are quick and easy to install, with a complete range of fittings, using solvent cement or rubber joints. Joints are leakproof. uPVC pipes can be cut easily for installation.

Ease of Maintenance:

AMP uPVC pipes can be quickly repaired with a minimum of complication or cost.

Fire Resistance:

AMP uPVC pipes will not support combustion. In the event of fire, flames are unable to travel along the pipe. It is self-extinguishing.

Insulator:

AMP uPVC pipes are ideal for electric conduits. Because uPVC in itself is an integral insulator, it eliminates the possibility of electrolytic corrosion which so often destroys underground piping.

Application of AMP uPVC Pipes

Water supplies:

Non-toxic uPVC pipes will not affect the taste, color, or smell of drinking water. They will never corrode and are therefore extremely sanitary. Deposits and scales will not build up inside as in the case for conventional steel pipes. Their strength is greater than that of asbestos pipes.

Irrigation Systems:

AMP uPVC pipes are ideal for agricultural irrigation and sprinkler systems. Non-corrosive AMP uPVC pipes are perfect for carrying water which contains chemical fertilizers and insect inhibitors. In thick wall and large diameter AMP uPVC pipes liquids can be transported under high pressure which is convenient for the management of large farms.

AMP uPVC pipes for Casing and Screen:

Engineering difficulties and the probability of adverse chemical reactions make it impractical to overcome corrosion and encrustation through the use of protective coating, chemical treatment or cathodic protection. Thus AMP non-corrosion PVC for water well casing and screens rapidly received approval by the appropriate ministry consultants and engineers.

Industry:

Resistant to most chemicals, AMP uPVC pipes have an important role to play in industrial plants. Light, non-corrosive and easy to assemble they allow more complex piping work than with steel or cast-iron pipes.

Solid, Waste & Drainage System:

Waste line for corrosive gases, ventilation for office buildings and factories; drainage systems for private homes and elevated highways - these are a few of the many possibilities for AMP uPVC pipes. A full line of uPVC fittings is available to assure easy installation.

Mining:

AMP uPVC pipes particularly are well-suited for draining corrosive liquids found in mines. They make an ideal vent line for pits because they are easily installed in hard to reach places.

Electrical & Telecommunications Cables:

AMP uPVC pipes form an integral insulator, hence there is an ever-increasing demand for them as electrical conduit. To facilitate work, a full line of fittings is available and fabricated from the same material as the pipes.



Manufacturing Standards

1. Saudi Arabian Standards (SASO) 14 -15/1988
2. German Standard (DIN) 8062
3. American Society for Testing & Material (ASTM) ASTM 1784/1785
4. British Standard (BS) BS - 3505
5. National Electrical Manufacturing Association (NEMA)
6. European Standard (EN)

Range of Production:

Pipes from AMP are manufactured according to SASO and or DIN Standards from 20mm, up to 500mm outside diameter in various pressure classes.

SASO uPVC pipes are available with solvent weld Socket joints for diameters less than 63mm. Sizes of outside diameter 63mm and larger are available with both mechanical rubber ring joints or solvent weld Socket joints.

Pipes manufactured in accordance with ASTM are ranging from 1/2 inch up to 8 inches in various pressure (SCH 40, SCH 80) with white and gray colour.

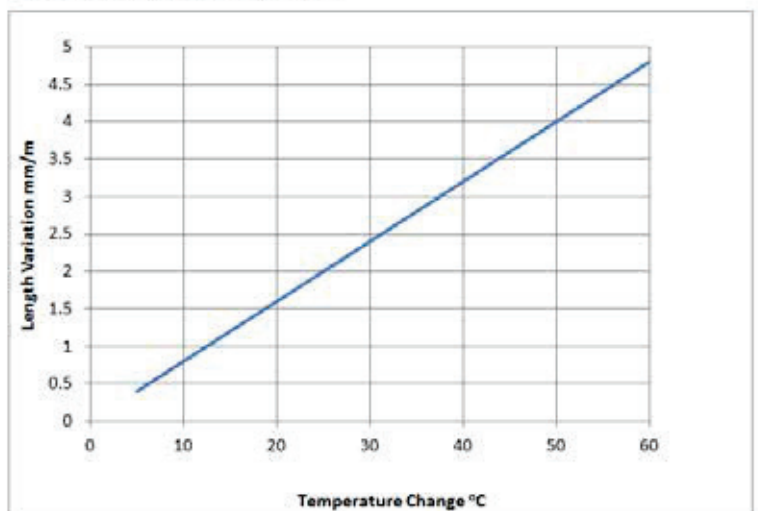
ASTM Pipes are available with plain spigot and Socket joints only.

AMPF pipes are produced in 6 meters standard length (other lengths are available on request), standard colours are grey, white and black (other colours are available on request).

Pvc pipe length variation due to temperature change (°C)

Temperature Change (°C)	Length Variation mm/meter
5	0.4
10	0.8
15	1.2
20	1.6
25	2.0
30	2.4
35	2.8
40	3.2
45	3.6
50	4.0
55	4.4
60	4.8

Coefficient of thermal expansion = 0.08 mm/m/°C



Allowable working pressure for pipes made of UPVC, conveying water

Safety factor $C = 2.5$

Temperature °C	Years of Service	Pipe Series S			
		25	16.7	10	6.3
		Standard dimension ratio SDR			
		51	34.4	21	13.6
		Allowable working pressure bar			
10	5	5.2	7.8	13	20.9
	10	5.1	7.6	12.7	20.4
	25	4.9	7.4	12.3	19.7
	50	4.8	7.2	12.0	19.3
	100	4.7	7.1	11.8	18.8
20	5	4.4	6.6	11.0	17.5
	10	4.3	6.4	10.7	17.1
	25	4.1	6.2	10.3	16.4
	50	4.0	6.0	10.0	16.0
	100	3.9	5.8	9.7	15.6
30	5	3.5	5.3	8.8	14.1
	10	3.4	5.1	8.6	13.7
	25	3.3	4.9	8.2	13.2
	50	3.2	4.8	8.0	12.7
40	5	2.7	4.1	6.8	10.8
	10	2.6	3.9	6.5	10.4
	25	2.5	3.7	6.2	9.9
	50	2.4	3.6	6.0	9.6
50	5	1.9	2.9	4.8	7.6
	10	1.8	2.7	4.6	7.3
	25	1.7	2.6	4.3	6.9
60	5	1.2	1.8	3.0	4.8
	10	1.1	1.7	2.8	5.4
	25	1.1	1.6	2.6	4.2

Reference DIN 8062: 2009-10

MINIMUM UPVC PIPE STIFFNESS at 5% deflection

SDR	Pipe stiffness (psi)	Pipe stiffness (kg/cm ²)
51	14	0.96
34.4	46	3.15
21	224	15.34
13.6	916	62.74



A- AMPF uPVC Pressure Pipes

UPVC pipes according to (SASO 14, DIN 8062, DIN 19532, ISO 161)

Class		Class1		Class2		Class3		Class4		Class5	
Nominal Pressure in Bars		2 BAR		4 BAR		6 BAR		10 BAR		16 BAR	
Nom-OD mm	Tolerance on Nom-OD mm		Nom-wt. kg/m	Nom thick of wall mm	Nom-wt. kg/m	Nom thick of wall mm	Nom-wt. kg/m	Nom thick of wall mm	Nom-wt. kg/m	Nom thick of wall mm	Nom-wt. kg/m
20	+0.2									1.5	0.137
25	+0.2							1.5	0.174	1.9	0.212
32	+0.2							1.8	0.264	2.4	0.342
40	+0.2					1.8	0.334	1.9	0.35	3	0.525
50	+0.2					1.8	0.422	2.4	0.552	3.7	0.809
63	+0.2					1.9	0.562	3	0.854	4.7	1.28
75	+0.3			1.8	0.642	2.2	0.782	3.6	1.22	5.6	1.82
90	+0.3			1.9	0.774	2.7	1.13	4.3	1.75	6.7	2.61
110	+0.3	1.8	0.95	2.2	1.16	3.2	1.64	5.3	2.61	8.2	3.9
125	+0.3	1.8	1.08	2.5	1.48	3.7	2.13	6	3.64	9.3	5.01
140	+0.4	1.8	1.21	2.8	1.84	4.1	2.65	6.7	4.18	10.4	6.27
160	+0.4	1.8	1.39	3.2	2.41	4.7	3.44	7.7	5.47	11.9	8.17
180	+0.4	1.8	1.57	3.6	3.02	5.3	4.37	8.6	6.88	13.4	10.4
200	+0.4	1.8	1.74	4	3.7	5.9	5.37	9.6	8.51	14.9	12.8
225	+0.5	1.8	1.96	4.5	4.7	6.6	6.76	10.8	10.8	16.7	16.1
250	+0.5	2	2.4	4.9	5.65	7.3	8.31	11.9	13.2	18.6	19.9
280	+0.6	2.3	3.11	5.5	7.11	8.2	10.4	13.4	16.6	20.8	24.9
315	+0.6	2.5	3.78	6.2	9.02	9.2	13.2	15	20.9	23.4	31.5
355	+0.7	2.9	4.88	7	11.4	10.4	16.7	16.9	26.5	26.3	39.9
400	+0.7	3.2	6.1	7.9	14.5	11.7	21.1	19.1	33.7	33.1	50.8
450	+0.8	3.6	7.65	8.9	18.3	13.2	26.8	21.5	42.7	29.7	
500	+0.9	4.0	9.38	9.8	22.4	14.6	32.9	23.9	52.6	36.8	

Length : 6 meters (Other Lengths are available on request.)

Colour : As Per Customer Request .

Socket Type: Rubber joint (R/J) type supplied from sizes 63 mm up to 500mm.

Solvent Cement (SC/J) type supplied from sizes 20mm up to 500mm.

A-2 uPVC Pipes According to ASTM D - 1785, Schedule 40 & Schedule 80

Applications: Water distribution and irrigation systems.

Nominal Size Inch.	O.D. (mm)		Schedule 40				Schedule 80			
	min	max	Wall Thickness (mm)		Nominal Weight (kg/M)	PSI	Wall Thickness (mm)		Nominal Weight	PSI
			min	max			min	max		
1/2	21.24	21.44	2.77	3.28	0.24	600	3.73	4.24	0.3	850
3/4	26.57	26.77	2.87	3.38	0.33	480	3.91	4.42	0.43	690
1	33.27	33.53	3.38	3.89	0.48	450	4.55	5.08	0.61	630
1 1/4	42.03	42.29	3.56	4.07	0.65	370	4.85	5.44	0.87	520
1 1/2	48.11	48.41	3.68	4.19	0.77	330	5.08	5.69	1.03	470
2	60.17	60.47	3.91	4.42	1.04	280	5.54	6.2	1.43	400
2 1/2	72.84	73.2	5.16	5.77	1.57	300	7.01	7.85	2.2	420
3	88.7	89.1	5.49	6.15	2.14	260	7.62	8.53	2.91	370
4	114.1	114.5	6.02	6.73	3.05	220	8.56	9.58	4.26	320
5	141.05	141.55	6.22	7.347	4.18	190	9.52	10.67	6.42	290
6	168	168.56	7.11	7.98	5.37	180	10.97	12.29	8.13	280
8	218.7	219.46	8.18	9.17	8.11	160	12.7	14.22	10.1	250

Length: 4,5,8, 6,0 meters | Colour : Schedule 40- White, Schedule 80 - Dark Grey
Socket Type: Plain, solvent cement (SC/J) Non standard lengths and colours are available on request.

A-3 uPVC based on ASTM D 2241

Applications: Pressured rated pipes.

Nominal Size Inch.	O.D. (mm)		Wall Thickness (mm)											
	min	max	Standard Diameter Ratio (SDR)											
			41		32.5		26		21		17		13.5	
			W.P: 6.9 Bar		W.P: 8.6 Bar		W.P: 11 Bar		W.P: 13.8 Bar		W.P: 17.2 Bar		W.P: 21.7 Bar	
			min	max	min	max	min	max	min	max	min	max	min	max
1/2	21.24	21.44											1.57	2.08
3/4	26.57	26.77							1.52	2.03	1.57	2.08	1.98	2.49
1	33.27	33.53					1.52	2.03	1.60	2.11	1.96	2.46	2.46	2.97
1 1/4	42.03	42.29			1.52	2.03	1.63	2.13	2.01	2.52	2.49	3.00	3.12	3.63
1 1/2	48.11	48.41			1.52	2.03	1.85	2.36	2.29	2.80	2.84	3.35	3.58	4.09
2	60.17	60.47			1.85	2.36	2.31	2.82	2.87	3.38	3.56	4.06	4.47	4.98
3	88.70	89.10	2.16	2.67	2.74	3.25	3.43	3.94	4.24	4.75	5.23	5.87	6.58	7.37
4	114.07	114.53	2.80	3.30	3.51	4.01	4.39	4.90	5.44	6.10	6.73	7.54	8.46	9.47
6	168.00	168.56	4.11	4.62	5.18	5.79	6.48	7.26	8.03	9.00	9.91	11.10	12.47	13.97
8	218.70	219.46	5.33	5.97	6.73	7.54	8.43	9.45	10.41	11.66	12.90	14.45		

Note: the maximum pressure rating given above is based on water at 73 °F /23 °C and for unthreaded pipes.
Length: 5,8, 6 meters | Colour: White
Socket Type: Plain, solvent cement (SC/J) Non standard lengths and colours are available on request.

B - uPVC Sewer & Drain Pipes

B-1 uPVC Sewer Pipes (Gravity) According to DIN 19534

Applications: Sewer pipe gravity.

Nominal Size mm	Outside Diameter mm		Wall Thickness mm		Insertion Depth	Weight kg/m
	(D)	Tolerance	(S)	Tolerance		
110	110	0.3	3.0	+0.5	115	1.63
125	125	0.3	3.0	+0.5	120	1.870
160	160	0.4	3.6	+0.6	132	2.650
200	200	0.4	4.5	+0.7	145	4.120

Length: 5.8 and 6 meters | Colour: Golden Brown.

Socket Type: Solvent cement (SC/J) type, Rubber joint (R/J) type. ⓓNon standard lengths and colours are available on request.

B-2 uPVC Sewer Pipes (Gravity) According to DIN 8061 / DIN 8062

Applications: Sewer pipe gravity.

Nominal Size mm	Outside Diameter mm		Wall Thickness mm		Weight kg/m
	(D)	Tolerance	(S)	Tolerance	
110	110	0.3	3.2	+0.6	1.64
125	125	0.3	3.7	+0.6	2.130
160	160	0.4	4.7	+0.7	3.440
200	200	0.4	5.9	+0.8	5.370
250	250	0.5	7.3	+1.0	8.310
315	315	0.6	9.2	+1.2	13.2

Length: 5.8 and 6 meters | Colour: Golden Brown.

Socket Type: Solvent cement (SC/J) type, Rubber joint (R/J) type. ⓓNon standard lengths and colours are available on request.



B-3 uPVC Drain Pipes According to DIN 19531

Applications: Drainage above ground.

Nominal Size mm	Outside Diameter mm		Wall Thickness mm		Weight kg/m
	min	max	min	max	
40	40.0	40.2	1.8	2.2	0.381
50	50.0	50.2	1.8	2.2	0.481
75	75.0	75.3	1.8	2.2	0.642
110	110.0	110.3	2.2	2.7	1.160
125	125.0	125.3	2.5	3.0	1.480
160	160.0	160.4	3.2	3.8	2.410

Length: 4, 5.8 and 6 meters | Colour: Grey.

Socket Type: Solvent cement (SC/J) type, Rubber joint (R/J) type. ⌀Non standard lengths and colours are available on request.

B-4 uPVC Underground Sewer Pipes (Gravity) According to BS 5481

Applications: Sewer pipe gravity.

Nominal Size mm	Outside Diameter mm		Wall Thickness mm		Weight kg/m
	min	max	min	max	
200	200.0	200.6	4.9	5.6	4.50
250	250.0	250.7	6.1	7.0	7.01
315	315.0	315.9	7.7	8.7	11.07

B-5 uPVC Underground Drainage & Sewer Pipes (Gravity) According to BS 4660

Applications: Drainage under gardens, Fields, Driveways and Roads.

Nominal Size mm	Outside Diameter mm		Wall Thickness mm		Weight kg/m
	min	max	min	max	
110 (4")	110.0	110.4	3.2	3.8	1.64
160 (6")	160.0	160.6	4.1	4.8	3.04

Length: 5.8 and 6 meters | Colour: Golden Brown.

Socket Type: Solvent cement (SC/J) type, Rubber joint (R/J) type. ⌀Non standard lengths and colours are available on request.

B-6 uPVC Aboveground Soil Pipes According to BS 4514

Applications: Soil aboveground.

Nominal Size mm	Outside Diameter mm		Wall Thickness mm		Weight kg/m
	min	max	min	max	
82 (3")	82.4	82.8	3.2	3.8	1.21
110 (4")	110.0	110.4	3.2	3.8	1.64
160 (6")	160.0	160.6	3.3	3.9	2.47

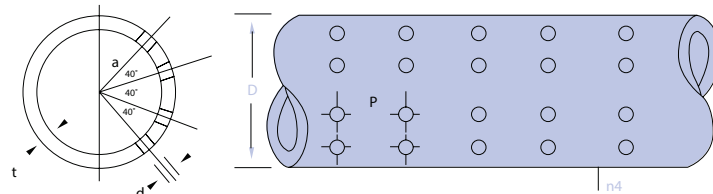
Length: 4.0, 5.8 and 6 meters | Colour: Grey.

Socket Type: Solvent cement (SC/J) type, Rubber joint (R/J) type. ⌀Non standard lengths and colours are available on request.

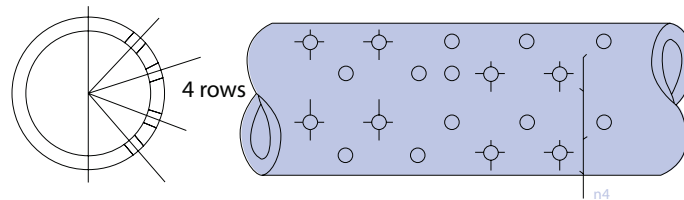
B-9 Perforated uPVC Pipes

AMP Perforated uPVC pipes are manufactured upon request depending on the size and class of the pipes, below figures given a general configuration which may vary for each clients requirements.

(Straight rows)



(Staggered rows)



Range of sizes:	75mm to 500mm
Longitude Pitch of wholes (LP):	30mm to 200mm
Hole Diameter:	05mm to 13mm
Number of rows:	1 to 6
Angular Pitch of holes:	40 degree for 3 to 4 rows. 40, 80 or 120 degree for 2 rows.



C-4 PVC Electrical Conduits & Tubing according to NEMA TC-2

Applications: EPT Electrical plastic tubing for encasement in concrete, EPC 40 Electrical plastic conduit for direct burial underground, EPC 80 Electrical plastic conduit for heavy duty.

Nominal Size inch	Outside diameter (mm)		Wall Thickness (mm)						Weight kg/m		
			EPT		EPC 40		EPC 80		EPT	EPC 40	EPC 80
	min	max	min	max	min	max	min	max			
1/2	21.24	21.44	1.52	2.03	2.77	3.28	3.73	4.24	0.155	0.24	0.3
3/4	26.57	26.77	1.52	2.03	2.87	3.38	3.91	4.24	0.197	0.33	0.43
1	33.27	33.53	1.52	2.03	3.38	3.89	4.55	5.08	0.25	0.48	0.61
1 1/4	42.03	42.29	1.78	2.29	3.56	4.07	4.85	5.44	0.365	0.65	0.87
1 1/2	48.11	48.41	2.03	2.54	3.68	4.19	5.08	5.69	0.47	0.77	1.03
2	60.17	60.47	2.54	3.05	3.91	4.42	5.54	6.2	0.717	1.04	1.43
2 1/2	72.84	73.2	2.79	5.16		5.77	7.01	7.85	0.952	1.57	2.2
3	88.70	89.1	3.18	3.68	5.49	6.15	7.62	8.53	1.31	2.14	2.91
4	114.1	114.5	3.81	4.32	6.02	6.73	8.56	9.58	2.0	3.05	4.26
5	141.05	141.55	-	-	6.22	7.347	9.52	10.67	-	4.18	6.42
6	168.0	168.56	-	-	7.11	7.98	10.97	12.29	-	5.37	8.13

C-5 PVC Utilities Duct according to NEMA TC-6 & ASTM F 512

Applications: Type EB for encased burial in concrete, Type DB for direct burial without concrete.

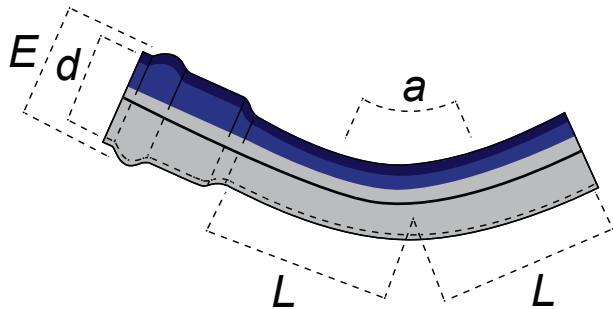
Nominal Size mm	Outside Diameter mm	PVC type EB 20		PVC type DB 60	
		Wall Thickness (mm)	Weight kg/m	Wall Thickness (mm)	Weight kg/m
2	60.17	1.52	0.465	1.52	0.465
3	88.7	1.55	0.703	2.34	1.000
4	114.1	2.08	1.170	3.07	1.650
5	141.05	2.62	1.170	3.86	2.50
6	168.0	3.18	2.530	4.62	3.570

C-6 PVC Utilities Duct according to NEMA TC-8 & ASTM F 512

Applications: Type EB for encased burial in concrete, Type DB for direct burial without concrete.

Nominal Size mm	Outside Diameter mm	PVC type EB 135		PVC type DB 120	
		Wall Thickness (mm)	Weight kg/m	Wall Thickness (mm)	Weight kg/m
1	33.27	-	-	1.52	0.251
1 1/2	48.11	-	-	1.52	0.369
2	60.17	1.52	0.465	1.96	0.576
3	88.7	1.93	0.847	3.00	1.250
4	114.1	2.54	1.390	3.91	2.050
5	141.05	3.2	2.09	4.85	3.12
6	168.0	3.86	3.020	5.77	4.420

Length: 5.8 & 6 meters | Colour: Grey.
Socket Type: Solvent cement (SC/J) type D Non standard lengths and colours are available on request.



45° Long Bend

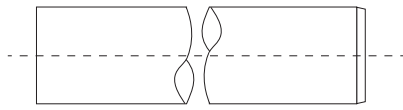
d mm	L mm	angle	E mm
63	235	45°	86
75	260	45°	102
90	292	45°	120
110	384	45°	144
125	413	45°	161
140	430	45°	178
160	464	45°	202



INSTALLATION

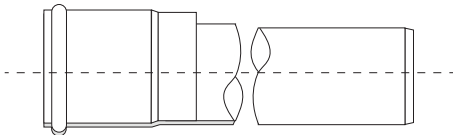
Pipes are available in nominal standard lengths of six (6) meters. Other length can be supplied in arrangement with customer requirements, AMOUD ALBINAA Pipes supply Plain End (P/E), Plain socket (P/S), and Rubber Ring Joints (R/J). Depending on the client, we can supply with chamfered (D/C) on the non socketed end in whichever length required.

Plain socket (P/S) solvent weld joint pipes are supplied with an integral plain socket preformed in our factory. They are joint using the recommended solvent adhesive supplied by AMOUD ALBINAA FACTORY



Plain End/Chamfered End

Rubber ring joints (R/J) pipes are supplied with integral grooves socket. At one end, elastomeric seal ring is provided. This is used for the anger joint system that recognized world wide, Amoud Albinaa are also capable of producing the A-joint system. The A-joint socket uses a reinforcing sleeve and keeps the internal pressure in the pipeline stable.



Anger - joint (R/J)

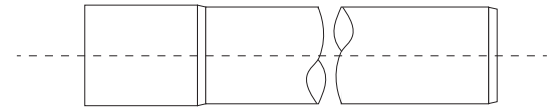
طريقة التركيب

متوفرة بأطوال قياسية محددة بطول ٦ أمتار
يُمكن توفير LONGHTS أخرى من خلال REQUOMT
ترتيب CASTOMER

الأنابيب المشتركة - يتم تزويد أنابيب مصنع عمود البناء مع نظام مشترك مختلف.

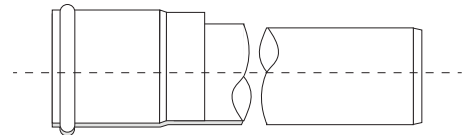
, أنبوب عادي (P/E) للإستخدام مع وصلات منفصلة , خاتم الختم المذيب (لاصق) اللحام أو الت زات الخاصة. ويمكن أيضاً أن يتم توفير اتباع طرفي النهايات (D/C) عند الطلب , بأطوا من أشكال ال ٥ أمتار يمكن توفير ملحقات أخرى.

مقبس عادي (P/S) المذيبات اللحام المذيبات . يتم تزويد الأنابيب بمقبس عادي متكامل موجود في المصنع , يتم توصيلها بإستخدام لاصق المذيب المعاد تزويده من قبل مصنع عمود البناء.



Plain Socket Solvent Weld Joint

المفاصل حلقة مطاطية (I/R). يتم تزويد المواسير بمقبس محرز متكامل في أحد طرفيه يتضمن حلقة مانعة للتسرب من اللدائن المرنة. يقوم عمود البناء بتصنيع نظام مشترك للغضب في جميع أنحاء العالم , ويتم صنع مآخذ أنجر المشتركة مع أنابيب سميكة محلية الجدار . يقوم عمود البناء أيضاً بإنتاج نظام (A) المشترك الذي يستخدم جلبة تقوية لصنع المقبس (A) في الضغط الداخلي الداخلي في خط الأنابيب.



A - joint (R/J)

HANDLING & STORAGE

Upvc Pipes should be handled with care to avoid mechanical damages before installation. Due to the extreme temperatures in the Kingdom, the pipes should not be stacked on top of each other because the bottom line may be begin to distort. If socketed pipes must be stacked in layers then the sockets must be place at alternate ends. By doing so, you will avoid lop sided stacks and imperfection. For long term storage, the pipes must be stored on flat level floors or in rack that provide continuous support. In racks, the pipes should not have more seven layers high or maximum 1.75 meters. Note, that the thickest classes must always be at the bottom because they can withstand more weight. Field storage

التحميل والتخزين

مواسير عمود البناء بي في سي يجب نقلها وتحميلها وتنزيلها بكل عناية واهتمام لتجنب حدوث أية أضرار ميكانيكية أثناء ذلك ، ويجب تكديسها على شكل طبقات وبحيث تكون المواسير بعكس بعضها وكما هو موضح بالصور ولا يجب تكديسها بكميات كبيرة خاصة عند درجات حرارة مرتفعة حتى لا يؤدي ذلك إلى اية انبعاجات أو تلف في الوصلات. وفي حال تخزينها في مستودعات ولمدة طويلة يجب وضعها على أرضية مستقيمة أو عوارض أو دعائم مستقيمة لا يقل عرضها عن ٧٠ ملم وأن لا تزيد المسافات بين الدعائم عن متر واحد ويجب أيضاً أن لا يزيد ارتفاع الرصة عن ٧ أمتار أو ١,٧٠ متر أيها أقل ، وفي حال تكديس أصناف مختلفة يجب أن تكون الأصناف من النوع الواحد في نفس الصف و الأصناف ذات السماكة الأعلى في الأسفل.

FIELD STORAGE

If racks are not provided at the field or site, then for temporary storage the pipes should be handled with care and stored on ground level away from loose stones. Pipes stored in the field should not exceed three (3) layers and should be either stored in the shade or be covered. The u-pvc pipes that are under direct sunlight can reach 70-60 Celsius during the summer months.

التخزين في الموقع

يجب الاهتمام في تخزين المواسير في مواقع العمل والتنفيذ بحيث يتم وضع المواسير على أرضية مستقيمة خالية من الأحجار ولا يجب أن يزيد تكديسها عن ثلاث طبقات ويجب ان تكون المواسير في جميع الأحوال محمية من أشعة الشمس المباشرة ومن درجات الحرارة العالية خاصة في فصل الصيف.



Material Properties of U-PVC Pipes

Material: Unplasticized Poly vinyl Chloride UPVC

Color: Gray

General Properties: All values at 20°C

Specific Gravity: 1.42 + 0.02

Flamability: will not supports combustion.

خواص مواد أنابيب اليو بي في سي

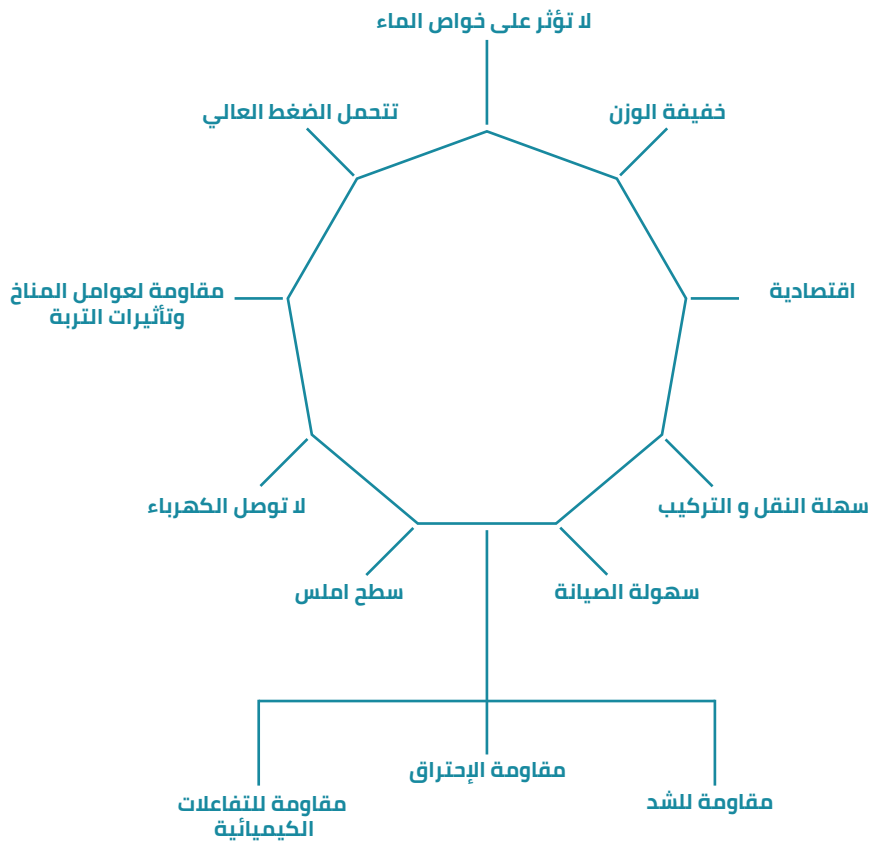
المواد : عديد كلوريد الفينيل القاسي (يو بي في سي)

اللون : رمادي غامق

شروط عامة : جميع القيم مقاسة عند ٢٠ درجة مئوية

الثقل النوعي : ١,٤٢ + ٠,٠٢

امكانية الاحتراق - قابلية الاشتعال : لا تساعد على الاشتعال.



General Advantages U-PVC Pipes

MANUFACTURING STANDARDS

SASO 14

DIN 8062, 19531, 19532, 19534

ASTM 1785, D-2241, F-512

BS 3505, 3506, 5481, 4660, 4514, 5255, 2665, 6099

EN 1452

NEMA TC-2, TC-6, TC-8V

UL

SASO - ISO - 4435

SASO - ISO - 1452-2

UPVC Drain Pipes According to DIN 19531.

Applications: Waste & Soil discharge systems inside buildings

Nominal size (mm)	Outside Diameter (mm)		Wall Thickness (mm)		Weight kg/m
	Min	Max	Min	Max	
40	40	40.2	1.8	2.2	0.381
50	50	50.2	1.8	2.2	0.481
75	75	75.3	1.8	2.2	0.642
110	110	110.3	2.2	2.7	1.160
125	125	125.3	2.5	3	1.480
160	160	160.4	3.2	3.8	2.410

Length : 6 meters (Other Lengths are available on request.)

Colour : Gray.

Socket Type: Solvent cement (SC/I) type, Rubber Joint (R/I) type.

UPVC pipes according to BS 3505 / 3506

Applications: Water supply, irrigation systems, industrial use.

Nominal size (inch)	O.D (mm)		Wall Thickness (mm)													
	Min	Max	Class B		Class C		Class D		Class E		Class O		Class 6		Class 7	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
3/8	17.0	17.3							1.5	1.9			2.3	2.8	3.2	3.8
1/2	21.2	21.5							1.7	2.1			2.8	3.3	3.7	4.3
3/4	26.6	26.9							1.9	2.5			2.9	3.4	3.9	4.5
1	33.4	33.7							2.2	2.7			3.4	4.0	4.5	5.2
1 1/4	42.1	42.4					2.2	2.7	2.7	3.2			3.6	4.2	4.8	5.5
1 1/2	48.1	48.4					2.5	3.0	3.1	3.7	1.8	2.2	3.7	4.3	5.1	5.9
2	60.2	60.5			2.5	3	3.1	3.7	3.9	4.5	1.8	2.2			5.5	6.3
2 1/2	75	75.3			3	3.5	3.9	4.5	4.8	5.5	1.8	2.2				
3	88.7	89.1	2.9	3.4	3.5	4.1	4.6	5.3	5.7	6.6	1.8	2.2				
4	114.1	114.5	3.4	4	4.5	5.2	6	6.9	7.3	8.4	2.3	2.8				
5	140	140.4	3.8	4.4	5.5	6.4	7.3	8.4	9	10.4	2.6	3.1				
6	168.0	168.5	4.5	5.2	6.6	7.6	8.8	10.2	10.8	12.5	3.1	3.7				
8	218.8	219.4	5.3	6.1	7.8	9	10.3	11.9	12.6	14.5	3.1	3.7				

Note :Classes B,C,D and E are to BS 3505/3506. Classes O,6 and 7 are to BS 3506/1969. Classes 6 and 7 equivalent to ASTM D-1785, SCH 40 and SCH 80 respectively.

Length : 6 meters (Other Lengths are available on request.)

Colour : Dark Grey except class O which is grey.

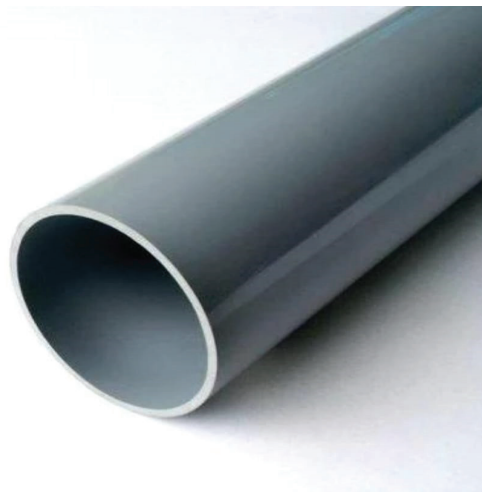
Socket Type: Plain, solvent cement (SC/I)

Pressure ratings for working pressure at 20°C

Class	
B	6.0 bar
C	9.0 bar
D	12.0 bar
E	15.0 bar

SASO - ISO - 1452
Table1 Nominal outside diameters and tolerances
 Dimensions in millimeters

Nominal outside diameter ^a n	Tolerance for mean outside diameter, ^d em ^a X	Tolerance for out-of-roundness ^b	
		S 20 to 5 16 ^c	S 12,5 to 55 ^c
12	0.2		0.5
16	0.2		0.5
20	0.2		0.5
25	0.2		0.5
32	0.2		0.5
40	0.2	1.4	0.5
50	0.2	1.4	0.6
63	0.3	1.5	0.8
75	0.3	1.6	0.9
90	0.3	1.8	1.1
110	0.4	2.2	1.4
125	0.4	2.5	1.5
140	0.5	2.8	1.7
160	0.5	3.2	2
180	0.6	8.6	2.2
200,	0.6	4	2.4
225	0.7	4.5	2.7
250	0.8	5	3
280	0.9	6.8	3.4
315	1	7.6	3.8
355	1.1	8.6	4.3
400	1.2	9.6	4.8
450	1.4	1.08	5.4
500	1.5	12	6









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location