Pipes Manufacturing Factories (Formerly NPBF)



مجمع مصانع الأنابيب (سابقا NPBF)



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Highest Possible Quality

Continuing Development

Latest Technologies

Excellent Customer Service





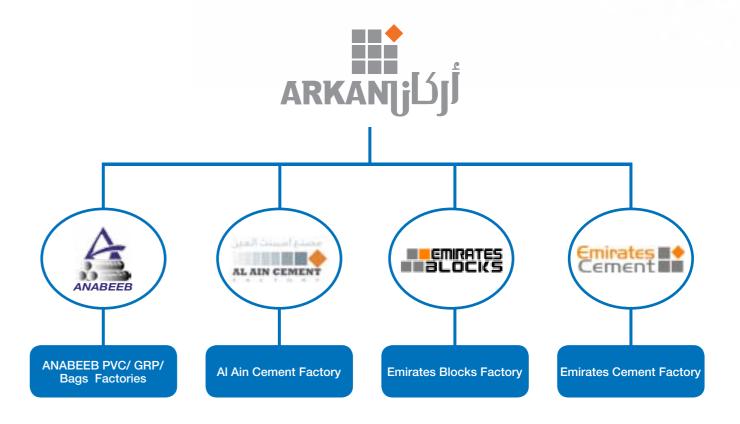






Introduction to ANABEEB

ANABEEB Pipes Manufacturing Factories are fully owned by Arkan Building Materials Company PJSC, a public joint stock company specializing in the manufacturing of building and construction products in the UAE. Arkan is majority-owned by General Holding Corporation (GHC), the UAE's largest industrial investment conglomerate backed by the Government of Abu Dhabi. Arkan's portfolio companies include Emirates Blocks Factory, Emirates Cement Factory and Al Ain Cement Factory, two of the UAE's largest producers of high quality cement, and ANABEEB, a leading manufacturer of plastic pipes (GRP & PVC) and bags.







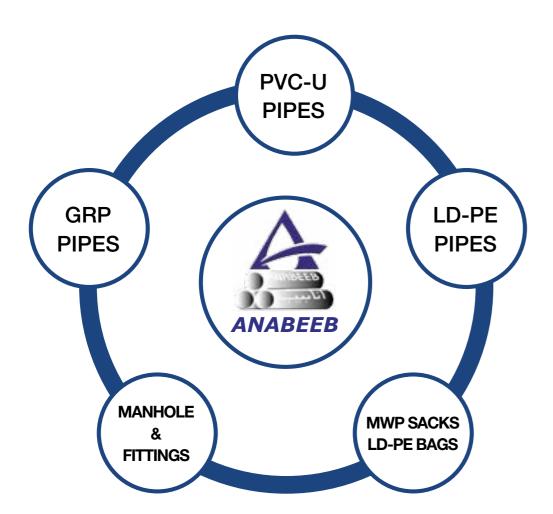


Corporate Profile



ANABEEB has emerged as the dominant PVC-U Pipe supplier for a number of landmark projects in the U.A.E. This continuing development together with the introduction of the latest techniques and equipment ensures that ANABEEB products are of highest possible quality. Strict quality control through all stages of production is maintained by ANABEEB's dedicated in house Quality control laboratory. The production facility is certified to ISO 9001-2008.

ANABEEB manufactures PVC-U Pipes, LD-PE for drip irrigation pipes, CC-GRP Pipes & Fittings, GRP Manholes, fittings & Multi-Wall Paper sacks for the past 33 years.



Applications

- Water mains & potable water service
- Cold water plumbing service
- Fire ring mains
- Sewerage main-pumped & gravity feed
- Drainage installations- domestic & industrial
- Factory supply lines
- Slurry lines, effluent lines & corrosive fluid pipe lines
- Handling of non-explosive materials handlings-sand, cement, rock salt plastics compounds
- Pulverized fuel ash (PFA) LINES
- Power station screening plant pipelines & power station chlorination plant fume extraction ducts
- Chilled waterlines for refrigeration and air conditioning planet
- Salt water pipes for small boat engines cooling and ballast tanks
- Emergency repairs to damaged pipes lines
- Down pipe for large rain water systems & storm water culverts
- Surface water drainage
- Sewerage farm stand pipes
- Ducting for power and communication cables
- Irrigation farm and range of sprinkler systems
- Pressure test balls





Advantages of ANABEEB Pipes

- Lightweight & Easy installation
- Durable & high impact strength
- Suitable for potable water
- Corrosions, biological, abrasion & chemical resistant
- Easy to handle, store & transport
- Low friction loss & transport
- Recyclable & cost effective
- Long term performance & low maintenance
- Non-toxic







Manufacturing Range

PVC-U Pipes are available in metric dimensions that are produced according to international standards. Pipe size ranging from 20 mm to 500 mm with different nominal pressures (PN) are available in a standard length of 6 meters; However, other lengths & Wall Thickness can be produced upon request. PVC-U pipes are suitable for pressure pipeline systems for cold water services, Non-pressure applications, telecommunications ducts, cable conduits, etc. They are available in solvent weld socket joints as well as rubber ring socket joints. Slotted pipes, bends & couplers can be manufactured.



PVC-U Pressure Pipe in accodance With ISO 4422-2:2000

ISO 4422-2:2000				
	P	N 6	PN 10	PN 16
Nominal Outside Diameter(mm)	SDR 33	SDR 34.4	SDR 21	SDR 13.6
	Mir	nimum Wal	l Thicknes	s (mm)
20	-	-	-	1.50
25	-	-	-	1.90
32	-	-	1.60	2.40
40	1.50	-	1.90	3.00
50	1.60	1.50	2.40	3.70
63	2.00	1.90	3.00	4.70
75	2.30	2.20	3.60	5.60
90	2.80	2.70	4.30	6.70
	SDR 41		SDR 26	SDR 17
110	2.70		4.20	6.60
125	3.10		4.80	7.40
140	3.50		5.40	8.30
160	4.00		6.20	9.50
180	4.40		6.90	10.70
200	4.90		7.70	11.90
225	5.50		8.60	13.40
250	6.20		9.60	14.80
280	6.90		10.70	16.60
315	7.70		12.10	18.70
355	8.70		13.60	21.10
400	9.80		15.30	23.70
450	11.00		17.20	26.70
500	12.30		19.10	29.70

ISO 4422-2:2000







PVC-U Pressure Pipe in accordance With BS EN ISO 1452:2009



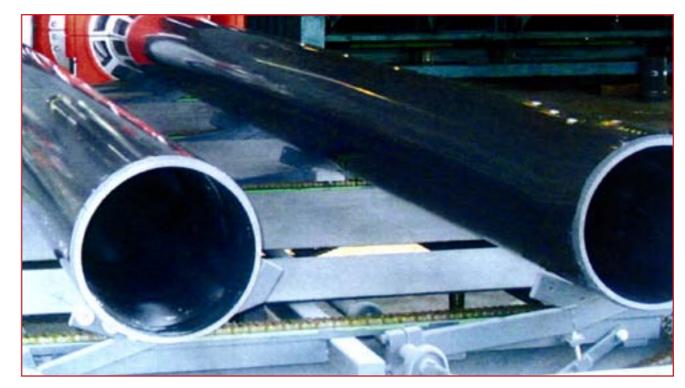
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Nominal Outside	Pipe series S			
Diameter(mm)	Nominal (minimum) wall thickness			ness
	PN 6	PN 10	PN 12,5	PN 16
Nominal pressure PN	based on	design coef	ficient C=2,	5
20				1.50
25				1.90
32		1.60		2.40
40	1.50	1.90		3.00
50	1.60	2.40		3.70
63	2.00	3.00		4.70
75	2.30	3.60		5.60
90	2.80	4.30		6.70
Nominal pressure PN	based on	design coef	ficient C=2,	0a
110	2.70	4.20	5.30	6.60
125	3.10	4.80	6.00	7.40
140	3.50	5.40	6.70	8.30
160	4.00	6.20	7.70	9.50
180	4.40	6.90	8.60	10.70
200	4.90	7.70	9.60	11.90
225	5.50	8.60	10.80	13.40
250	6.20	9.60	11.90	14.80
280	6.90	10.70	13.40	16.60
315	7.70	12.10	15.00	18.70
355	8.70	13.60	16.90	21.10
400	9.80	15.30	19.10	23.70
450	11.00	17.20	21.50	26.70
500	12.30	19.10	23.90	29.70

BS EN ISO 1452 : 2009

The nominal wall thicknesses conform to ISO 406	$5^{[4]}$
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		ISO 4422:1990		
Nominal Outside Diameter(mm)	S 16.7 PN 6	S 16 PN 6.3	S 10 PN 10	S 6.3 PN 16
20	-	-	-	1.50
25	-	-	-	1.90
32	-	-	1.60	2.40
40	-	1.50	1.90	3.00
50	-	1.60	2.40	3.70
63	1.90	2.00	3.00	4.70
75	2.20	2.30	3.60	5.50
90	2.70	2.80	4.30	6.60
110	3.20	3.40	5.30	8.10
140	4.10	4.30	6.70	10.30
160	4.70	4.90	7.70	11.80
200	5.90	6.20	9.60	14.70
225	6.60	6.90	10.80	16.60
280	8.20	8.60	13.40	20.60
315	9.20	9.70	15.00	23.20
355	10.40	10.90	16.90	26.10
400	11.70	12.30	19.10	29.40
450	13.20	13.80	21.50	-
500	14.60	15.30	23.90	-





7.9

500



DIN 8062				
Outside	Wall Thickness			
Diameter <i>mm</i>	DIN 8062, Series 2 4 Bar Rating (PN4) <i>mm</i>	DIN 8062, Series 3 6 Bar Rating (PN6) <i>mm</i>	DIN 8062, Series 4 10 Bar Rating (PN10) <i>mm</i>	DIN 8062, Series 4 16 Bar Rating (PN16) <i>mm</i>
20		-	-	1.5
25		-	1.5	1.9
32		-	1.8	2.4
40		1.8	1.9	3.0
50		1.8	2.4	3.7
63		1.9	3.0	4.7
75	1.8	2.2	3.6	5.6
90	1.8	2.7	4.3	6.7
110	2.2	3.2	5.3	8.2
125	2.5	3.7	6.0	9.3
140	2.8	4.1	6.7	10.4
160	3.2	4.7	7.7	11.9
200	4.0	5.9	9.6	14.9
225	4.5	6.6	10.8	16.7
250	4.9	7.3	11.9	18.6
280	5.5	8.2	13.4	20.8
315	6.2	9.2	15.0	23.4



11.7

19.10

29.7

Telephone Duct				
Size	Mini	mum	Overall	Effective
Size	OD	Wall	Length	Length
(mm)	(mm)	(mm)	(m)	(m)
Duct 50	50	1.6	6.07	6.00
Duct 54D	96.50	3.25	6.10	6.00

Electrical Conduit Equivalent to NEMA TC-2		
Nominal Outside Diameter (mm)	Minimum Wall Thickness (mm)	
20	1.8	
25	1.9	
32	2.5	
40	2.5	
50	3.2	
63	4.7	
110	6.0	
160	7.1	
200	8.2	











ISO 161/1						
Outside	Wall Thickness			Wall Thickness		
Diameter	S 20 SDR 41 PN 6.3	S 12.5, SDR26 PN 10	S 8 SDR 17 PN16			
mm	mm	mm	mm			
20	-	-	1.2			
25	-	-	1.5			
32	-	-	1.9			
40	-	1.6	2.4			
50	1.3	2.0	3.0			
63	1.6	2.9	3.8			
75	1.9	2.5	4.5			
90	2.2	3.5	5.4			
110	2.7	4.2	6.6			
125	3.1	4.8	7.4			
160	4.0	6.2	9.5			
200	4.9	7.7	11.9			
225	5.5	8.6	13.4			
250	6.2	9.6	14.8			
280	6.9	10.7	16.6			
315	7.7	12.1	18.7			



400

9.8



23.7

15.3

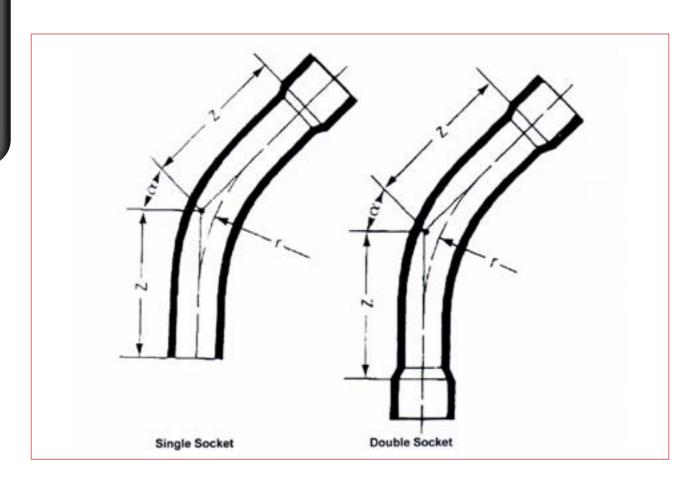
uPVC Pressure Fittings		
	DIN 8063 / ISO 727	
Descri	ption	Range
	Elbow 90º	20mm ~ 315mm
	Elbow 45°	20mm ~ 315mm
	Tee 90⁰	20mm ~ 315mm
	Socket Union	12mm ~ 110mm
	Double Socket	20mm ~ 315mm
0	Reducing Bush	16 x 12 ~ 160 x 140
	End Cap	12mm ~ 225mm
0	Backing Ring	63mm ~ 110mm
0	Flat Stub	63mm ~ 110mm
9	Reinforced Elbow 90º	16x¾ ~110 x 4





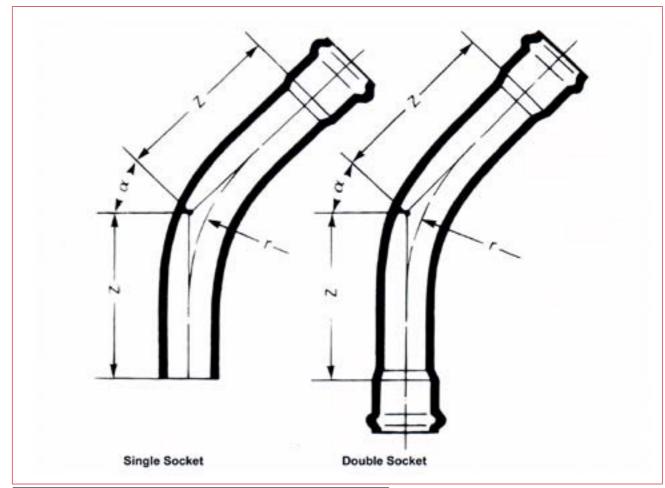
Solvent V	Veld (S/W) Socket Bend (Fabricated)
_	Z (Minimum)
R (*****)	α

Outside	_		Z (Min	imum)	
Diameter	R (mm)		(χ	
(mm)	, ,	11 1/2º	22 1/2 ⁰	45°	90º
315	1103	398	509	746	1392
280	980	365	463	674	1248
225	788	313	392	562	1023
200	700	280	360	510	920
160	560	252	308	428	756
140	560	252	308	428	756
110	385	204	243	326	551
90	315	185	217	285	469
75	263	176	198	254	408
63	221	169	182	230	359
50	221	169	230	230	359
D-54	385	204	326	326	551



Note: Other fabrications are also available upon request

	Rubber R	ing (R/R) Sea	iling Bend (F	abricated)		
Outside Diameter	R		`	imum)		
(mm)	(mm)	11 1/2°	221/20	45°	900	
315	1103	523	624	846	1442	
280	980	490	578	774	1298	
225	788	413	507	662	1073	
200	700	332	437	576	1015	
160	560	327	383	528	806	
140	560	294	378	495	785	
110	385	279	318	401	601	
90	315	260	273	373	576	
75	263	248	264	321	509	
63	221	218	227	259	468	



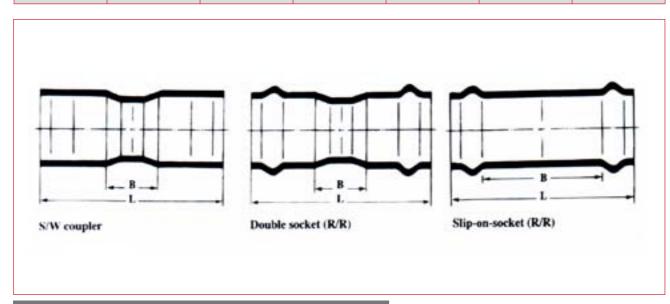
Note: Other fabrications are also available upon request







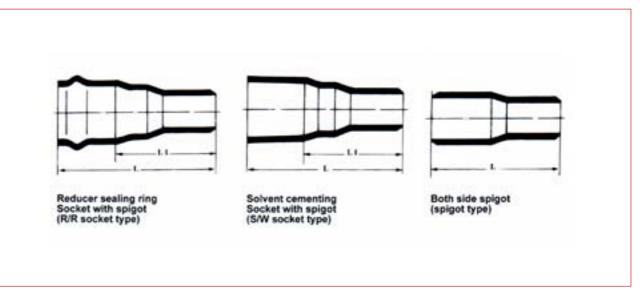
		Coup	oler (Fabric	ated)		
Outside	S/W C	oupler	DS (R/R)	sos	(R/R)
Diameter(mm)	L	В	L	В	L	В
500	-	-	-	-	560	300
450	-	-	-	-	560	300
400	-	-	-	-	550	320
355	-	-	-	-	550	320
315	670	-	570	210	540	300
280	580	270	475	135	470	290
225	485	220	440	106	405	235
200	400	180	400	120	390	190
160	340	140	335	71	330	160
140	290	118	330	80	300	155
110	250	85	320	90	270	130
90	220	80	290	72	250	120
75	200	80	240	32	230	120
63	190	70	230	30	230	110
50	150	60	-	-	-	-
40	120	50	-	-	-	-
32	100	45	-	-	-	-
25	100	40	-	-	-	-
20	100	35	-	-	-	-



Note: Other fabrications are also available upon request

Reducers (Fabricated)

	R/R Soc	ket Type	S/W Soc	ket Type	Spigot Type
Size(mm)	Spigot Size	Reducer Lenght (mm)	Spigot Size	Reducer Lenght (mm)	Reducer Lenght (mm)
	L1	L	L1	L	L
315X280	580	750	436	650	600
280X225	548	700	357	550	500
225X200	510	650	340	500	460
225X160	468	600	390	550	460
200X160	368	500	355	500	450
160X140	325	450	329	450	350
110X90	291	400	259	350	270
90X63	250	350	221	300	250



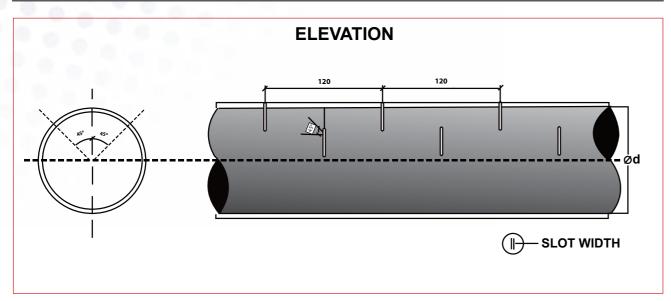


Note: Other fabrications are also available upon request





Slotted Pipes



S#	PIPE Ød(mm)	SLOT WIDTH (mm)	SLOT LENGTH (mm)	No. OF ROWS
1	110	4.5	55-65	2
2	160	4.5	80-90	2
3	200	4.5	90-100	2
4	225	4.5	100-110	2
5	250	4.5	130-140	2
6	280	4.5	130-140	2
7	315	4.5	150-160	2
8	400	4.5	150-160	3
9	450	4.5	150-160	3
10	500	4.5	150-160	3



U PVC DRAINGE PIPE SYSTEMS

		BS EN 132	29-1: 2000		
Nominal Size DN/OD	Nominal OD	Mean Out (dem, min)	side Diam (dem, max)	Wall Thickness (e, min)	Application Area B (e, max)
32*	32	36.2	36.5	3.0	3.5
40*	40	42.8	43.1	3.0	3.5
50*	50	55.8	56.1	3.0	3.5
75*	75	82.0	82.3	3.0	3.5
110 (4")*	110	110.0	110.30	3.2	3.8
160 (6")*	160	160.0	160.40	3.2	3.8
200 (8")*	200	200.0	200.5	3.9	4.5
250 (10")*	250	250.0	250.5	4.9	5.6
315 (12")*	315	315.0	315.6	6.2	7.1

BS EN 1401-1: 1998

Nominal Size DN/OD	Nominal OD	Mean Out	tside Diam (dem, max)		ss SN2, SDR 1 (e, max)	Wall Thickne 4 (e, min)	ess SN4, SDR 1 (e, max)
110 (4")*	110	110.0	110.3			3.2	3.8
160 (6")*	160	160.0	160.4	3.2	3.8	4.0	4.6
200 (8")*	200	200.0	200.5	3.9	4.5	4.9	5.6
250 (10")*	250	250.0	250.5	4.9	5.6	6.2	7.1
315 (12")*	315	315.0	315.6	6.2	7.1	7.7	8.7
400(16")*	400	400.0	400.7	7.9	8.9	9.8	11.0





*Available upon request





U PVC DRAINGE PIPE SYSTEMS

Length

fit inside containers.

length with plain ends.

Characteristics of Pipes

Raw Material

The raw material is 100% virgin PVC-U

Colour

BS EN 1329-1:2000 > Light Grey

BS EN 1401-1:2000 > Orange Brown

Chamfering

A 150 chamfer is applied to all spigot ends





Pipes are normally supplied in 6m overall length.

Pipes can also be supplied in 5.8m overall length to

Sizes 32, 40 and 50mm are supplied in 4m overall



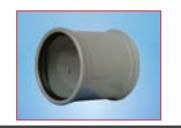








Drainage Fitting (Low Pressure)



DOUBLE COUPLER
32 mm to 315 mm



WYE TEE
40 mm to 315 mm



EQUAL TEE 40 mm to 315 mm



REDUCER TEE
40 mm to 315 mm
(different sizes)



REDUCER BUSH 32 mm to 315 mm (different sizes)



40 mm to 315 mm



SCREW END CAP
50 mm to 200 mm



50 mm to 315 mm

* Drainage fitting rubber rings (Low Pressure) are available
Dia from 160mm - 315 mm

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Quality - Assurance & Control

The ANABEEB has quality systems, which are, designed to satisfy the exacting requirements of the ISO 9001/9002 Standard. Each pipe manufactured by computer controlled production process is marked with unique number that permits complete traceability of the product with respect to the origin and quality of the raw materials, the manufacturing conditions and conformance test results, Even before the pipe is produced, QA approved raw materials are tested in the laboratory in order to insure that they meet the standards.

Production processes

Suitable working environment.

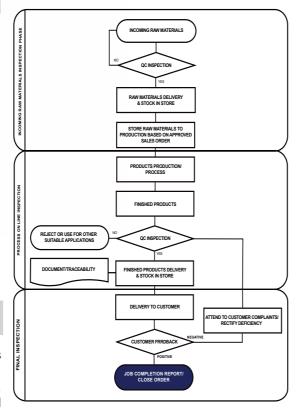
Modern extrusion lines.

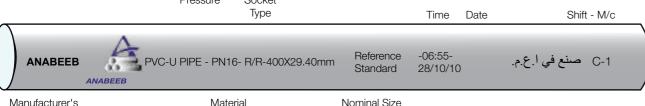
Highly skilled workers.

Regular maintenance of the machines and equipment. Systems to monitor and control process parameters

Finished Products Marking (Traceability)

The following controlled marking / printing sample is always provided in ANABEEB's PVC-U/PE-LD finished products. They are established as means of control for the tracebility, identification, storage, protection, retrieval, retention time and disposition of products specifically with respect to customers/ client's requirements.





: ANABEEB **Manufacturer's Name** Material : PVC-U **Pressure Range** : PN16 **Socket Type** : R/R or S/W

Logo

Reference Standard :DIN 8062 ISO 161/1, ISO 4422-2, BS EN ISO 1452,

: 400x29.40mm

BS EN 1401 & BS EN 1329

Time : 06:55 Date : 05/12/14

Origin : United Arab Emirates

Shift - Machine : C-1

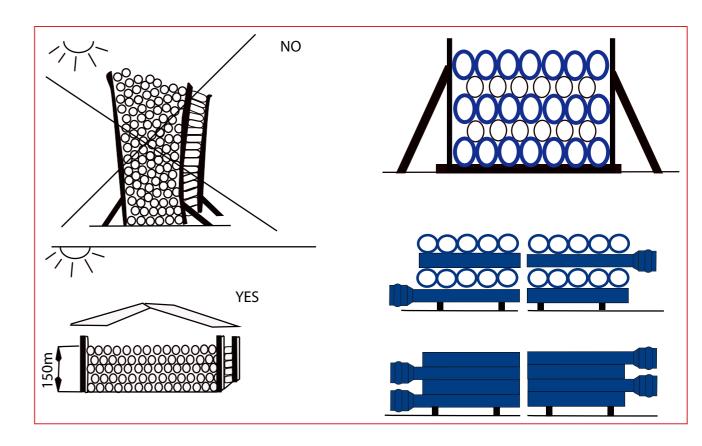
Nominal Size

Socket

Pipe Storage, Handling and Transportation

Storage

- PVC-u pipes should be stacked on a reasonably flat surface free from sharp projections, stones, or other protuberances likely to cause deformation.
- Side supports should be provided at intervals of net less than 1.5 m.
- Pipes should be uniformly supported throughout the length. If this is not possible, then timber supports of at least 75 mm bearing width, at spacing not greater than 1m centers, should be placed beneath the pipes Pipes of different size and wall thickness should be stacked separately, or, where this is not possible, those with larger diameters and thicker walls should be at the bottom.
- When socket and spigot pipes are stacked, the sockets should be placed at alternate ends of the stack with the sockets protruding so that pipes are evenly supported along their entire length.
- Pipes stacks should not exceed seven (7) layers in height, with a maximum height of 1.5 meters.
- Storage of pipes under high ambient temperatures should be avoided. In UAE and surrounding countries stack heights should be reduced and pipes should be stored in the shade to prevent deformation.
- Do not leave PVC-U pipes under direct sun for a long time, even if they are stored under a tarpaulin cover. PE-LD Coils should be stored under cover from direct sunlight coils may be stacked to maximum of six high on a flat even surface





Handling

Care should be exercised in handling pipe to avoid damage to the wall surface. This is important when the ends of the pipe are treated for socket and spigot jointing, or are chamfered.

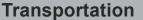
Pipes should not be dragged along rough ground.

The loading and unloading of pipes should be carried out safely, without safety risk & damage to the pipe. Where mechanical handling is employed, the techniques used should ensure that the handling equipment causes

no damage to the pipes. Metals slings, hooks, and chains should not come in to direct contact with the pipe.

Pipe should not be dropped on a hard surface.

When pipes are transported one inside the other, the inner pipe should always be removed first, and stored separately.



Vehicles with flat beds should be used for transporting pipes. Beds should be free from nails or other projection. Pipe should be supported uniformly along its length.

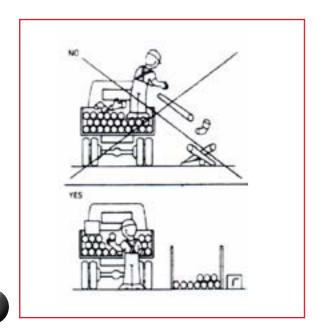
Vehicle should have adequate side support at approximately 2m intervals and pipe should be effectively secured during transit.

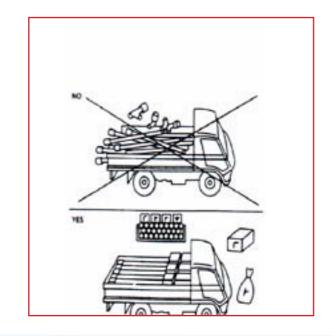
When loading socket and spigot pipe, these should be stacked in alternate layers so that the sockets do not bear any direct weight.

Pipes should be loaded on a vehicle in such a way that the overhang is no more than 1m.

Thick wall pipes should always be loaded beneath thin wall pipes,

When deliveries are mixed, PE-LD coils must always be transported in the top of PVC-U pipe. Never place PVC-U pipes on top of PE-LD coils, as possible deformation may occur.

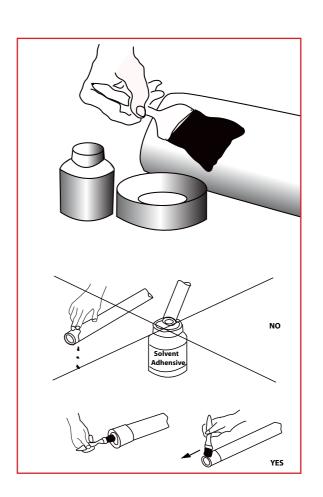




Instructions for Jointing and fittings with Solvent Type (S/W) Sockets

Preparation

- Cut pipe at right angles to the pipe axis. De-burr inside, chamfer outside edges according to diagram. Wellchmfered and rounded pipe ends prevent the cement layer from being removed when the pipe and fitting are pushed together.
- Before marking the joint, the bonding length and alignment of the fitting should be marked on the pipe end. A
 check can then be easily made to determine whether the fitting has been pushed on to the pipe to the full extent
 of the socket.
- It may be difficult to insert pipes with a maximum ISO OD or oval shape fully in to the socket before applying solvent cement. Only after application of the solvent that actual jointing is possible.
- Solvent joints up to an approx. OD of 75mm (21/2) can be made by one worker. The application of solvent to sizes of an OD 90mm and above takes longer and there is a danger of the cement drying before the joint can be made. Two workers should therefore, apply the solvent cement simultaneously to the pipe end and socket fitting.
- Usable cement should be thick flowing and run from an inclined wooden palette, if the cement has become so thick that it no longer spreads easily, a new tin must be used. Solvent cement and cleaner should be store in a cool and dry place at a temperature not exceeding 23°C.
- Chamfering angle is approximately 15 degrees.



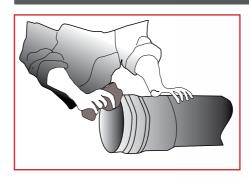


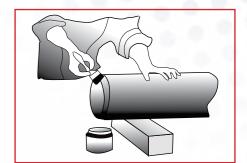


Procedure - Solvent Weld Pipes & Fittings

Mark & Chamfer Mark the socket depth on the pipe end. cut a 150 chamfer on large pipes Clean Clean, dry and degrease the socket and spigot. **Check the Fit** Insert the spigot in to socket (without solvent cement). An interference fit should occur between 1/3 and 2/3 of full entry. **Apply solvent** Apply an even coat of solvent to the socket and then the spigot to the full marked length. **Joint** Insert the spigot the full marked depth in the socket and HOLD few a minimum of 30 second, depending on temperature. **Clean Off** Remove surplus solvent Cement

Procedure - Rubber Ring Joints





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Check Spigot end

Ensure pipe spigot has full 150 chamfer and entry depth mark



Clean socket

Clean socket and ring groove of dirt and loose gravel



Clean rubber ring

Clean, dry and degrease the rubber ring



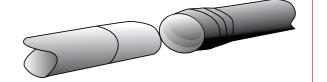
Fit rubber ring

Place rubber ring in groove and check for proper sealing. Fin must fit in to pipe



Align Pipe

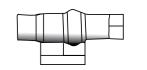
Align Pipe horizontally and vertically. Do not try to insert pipe at an angle to socket.



Lubricate Spigot

Clean of dust and dirt and apply jointing lubricant to chamfer. Keep and free from dirt.







Properties of PVC-U Pipe & Derating Factor

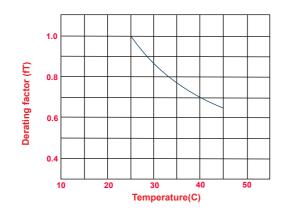
Properties of PVC-U Pipe

PVC-U is a thermoplastic and its physical properties vary as the temperature changes. When used at higher temperature its strength is reduced. Therefore, it is necessary' to select a proper pipe nominal pressure (PN) according to ambient temperature, (see derating factor)

PROPERTIES	U/M	RANGE
Specific Gravity	-	1.46 max
Hardness & Rockwell	Degrees	110-120
Tensile Strength	Kg/cm²	450-550
Elongation	%	80-150
Compressive Strength	Kg/cm²	700
Shear Strength	Kg/cm²	450
Bending Strength	Kg/cm²	1.000
Tensile Modulus	104Kg/cm²	2.5-3.5
Impact Strength Chirpy (V.Notch)	Kg-cm/cm ²	5 - 7
Resistant to Heat (Continuous)	°C	60 - 70
Brittle Temperature	°C	-18
Vicat Softening Temperatur	°C	80
Combustibitity	°C	Self-Extinguishing
Thermal Expansion Coefficient(Linear)	10-5°/C	6 - 8
Specific Heat	Cal/ºC/g	0.2 - 0.3
Thermal Conductivity	Kcal/m.h. ⁰C	0.12 - 0.14
Young's Modulus E	Kg/cm²	3.4x10 (at 20 °C) E=(3.808 - 0.0220) x 10 ⁴

Derating Factor

A supplementary derating factor fT shall be applied for operating temperatures between 250C and 450C. Values of this factor for different temperatures are given in figure 1. The maximum working pressure is given by multiplying the nominal pressure (PN) by the derating factor (fT).





Technical Specification

Pressure Rating

The nominal working pressures are calculated to give continuous use for over 50 years.

The operating pressure are for temperature at 20°C, as temperature increases the pressure rating decreases and an appropriate de-rating factor should be applied as follows.

Working	g Temp.	De-rating Multiplier
°C	°F	
23	73	1.00
27	80	0.88
32	90	0.75
38	100	0.62
43	110	0.51

uPVC pipes are not recommended for operating at temperature exceeding 60°C or 140 °F.

Thermal Expansion

uPVC pipe expands as temperature rises, the expansion is independent of pipe diameter.

The co-efficient of liner expansion as follows.

Change in length (mm) = Orginal length of pipeline (m) x 0.06x maximum occurring temperature different (K)

PE-LD (Low Density Polyethylene) Pipes

High quality pipes for irrigation systems.

The size ranges from 15.50-40 mm and coil (rolls) length varies according to the diameter, i.e.500, 250, 200 & 150 meters. Other dimensions are also available on request.



Size in accordance with ISO 8779:2001

Nominal Outside Diameter (mm)	Outside Diameter in Inch	Nominal Inside Diameter (mm)	Wall Thickness (mm)
16.0	1/2	13.0	1.5
25.0	5/8	22.0	1.5









Customized Sizes

Nominal Outside Diameter (mm)	Nominal Diameter in Inch	Nominal Inside Diameter (mm)	Wall Thickness (mm)
15.5	1/2	13.1	1.2
18.5	5/8	16.1	1.2
19.0	5/8	16.0	1.5
21.5	1/2	18.5	1.5
28.4	3/4	25.4	1.5
30.0	1	25.0	2.5
32.0	1	25.8	3.1
32.0	1	25.6	3.2
32.0	1	25.4	3.3
32.0	1	23.6	4.2











Random list & Prestigious projects in the U.A.E.

Si. No.	Client / Customer	Projects
-	Ghantoot Transport	Al Falah Community Deve. Package A, Village 2 & 3
8	Sotravic Limitee, Mauritius Project	Plaines Wilhems Sewerage Project, Stage – 1.
m	Hilal Bil Badi & Partners.	Al Ain Wildlife Park & Resort – AD 472 near Al Ain Zoo
4	Al Jaber	Con of Sew: C&RW for isolate properties. Project 1185
2	Nurol LLC.	Contract No. 5001 Salam Street
9	Al Ula General Transport & Contracting Est.	Dalma Mall Development
7	Gulf Crescent Road Contracting	Raising Club, Dubai Project
ω	BIN HAFEEZ Gen. Cont. Est	Dualling between Baniyas East – Al Heelieh Road
О	Delma Engineering Projects Co. W.LL.	Rawdhat Development Infra. Package (189)
9	Mohammed Abdulmohsin Al Kharafi & Sons	Salam Street Interchange at IP-111& IP 111A
=	Hilal Bil Badi & Partners Contracting	AD 477 Sadiyat Island Project
12	Western Bainoona	Abu Dhabi Int'l Shooting Club – Khalifa A
13	Al Jaber	ALOR Infrastructure Management.
4	Al Geemi & Partners	Khalifa City B Project.
15	Orascom / Marshal Contracting	Reem Island Development
16	Al Jaber	Yas Island Free Way Cross
17	Al Jaber	Reconstruction of Mafraq Interchange Project
8	Admac	Al Raha Beach Development
19	Gulf Contractors	Drainage Works in Forest Green Belt at A; Jarf Area - Contract 482.
20	Al Nasr Contracting Co.	Al Reef Villas Infrastructure Works.
21	Saif Bin Darwish	Saadiyat Island Expressway Project
22	National Project & Constructions	Roads & Utilities Works for Najmat Abu Dhabi.
23	Al Geemi & Partners	Shams Abu Dhabi Project on Reem Island
24	Al Muhairy General Contracting	Contract No. 953/4-2 - Mohammed Bin Zayed City.
25	Mushrif National Construction.	IETP-ICAD 2 Musaffah

Random list & Prestigious projects in the U.A.E.

Projects Project 509/4 - Surface Drainage project for Al Bahya & Al Sadr Areas. Shehama Saadiyat Freeway Package 1 & 2 Shams Abu Dhabi Project on Reem Island Contract No. MT5 - Storm Drainage of Western Area of Al Ahr. Contract No. 953/4-1 - Mohammed Bin Zayed City. Biffa Views IW 4100 Contract No. 2008 972 Waste Water Treatment System for City Of Fujairah & its Environs Wadi Khabb Recharge Dam, CMAN Mis. Works / J- 232 Waste Water Beachorse E 19/02, E 25 & E 48 9877 / Breakwater Developments - Stage-2 4-B. LWA/Contract 4B, Liwa Cont. 1, 2, 3 & 4 / Dualing of Al Ain - Al Waggan - Al Qua'a Road BAZI/LZ550/Main Rehab. & Add. Works for Reads & Br. Of AUH A 174 / TWIN 1400mm PIPELINES FROM GHOMADH SOUTH TO ALAIN RECEPTION Marine / Infrastructure Site Dev Landscape (Ph 1 & 2) 505 Project 750/751 / Sewerage of Al-Adlah, Phase I & II - Abu Dhabid	Admac Admac Aubber Nurol L.L.C. Nael & Bin Harmal Delma Engineering Ghantoot Transport Gh
12-99/2000 / Waste water treatment and Reclamation Plant at Sulaibiya	Kuwait Municipality
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	T DEPT FOR H.H. SHEIKH ZAYED BIN SULTAN AL NA
BA/2/L/2560/Main Rehab. & Add. Works for Roads & Br.	AD SECTION ABU DHABI MUNICIPALITY
Cont. 1, 2, 3 & 4 / Dualling of Al Ain - Al Wagan - Al Qua'a	DRKS DEPTT. OF ABU DHABI
4-B, LIWA/Contract 4B, Liwa	DRKS DEPTT. OF ABU DHABI
987/1 / Breakwater Developments - Stage-2	AD SECTION OF ABU DHABI MUNICIPALITY
238 / Internal Roads in Sectors E 19/02, E 25 & E 48	WERAGE PROJECTS COMMITTEE & ROAD
Mis. Works / J- 232	DRKS DEPTT. OF ABU DHABI
Wadi Khabb Recharge Dam, OMAN	NISTRY OF REGIONAL MUNICIPALITIES VIRONMENT & WATER RESOURCES
Waste Water Treatment System for City Of Fujairah & its E	aira Municipality, FUJAIRAH / Bilfinger Berger
Contract No. 2000 & 972	antoot Transport
Contract No. 953/4-1 - Mohammed Bin Zayed City.	antoot Transport
Riffa Views IW 4100	orus Cybarco - Bahrain
Contract No. 953/4-1 - Mohammed Bin Zayed City.	ma Engineering
Contract No. MT5 - Storm Drainage of Western Area of Al	el & Bin Harmal
Shams Abu Dhabi Project on Reem Island	rol L.L.C.
Shahama Saadiyat Freeway Package 1 & 2	Jaber
Project. 509/4 -Surface Drainage project for Al Bahya & Al	тас
Projects	llent / Customer







Certificate of Registration



This is to certify that the Quality Management System of :

ANABEEB Pipes Manufacturing Factories PVC & Bags Factory

P.O. Box: 2915, Mussafah Abu Dhabi, UAE

has been assessed and found compliant with the requirements of ;

ISO 9001: 2008

Approval is hereby granted for registration on the proviso that the certification rules and conditions are observed at all times.

Certification Scope:

Manufacture of PVC-U Pipes and Fittings, Low Density Polyethylene Drip-line Irrigation Pipes, Multi-Wall Kraft Paper Sacks, Low Density Polyethylene Bags and Rolls.

Certificate No.: 27111002002-2

Issue Date: October 08, 2010

Expiry Date: October 07, 2013

Authorised Signature 75 (X

Moody International Certification Ltd.

www.meadynt.com

The use of the Accreditation Mark indicates accreditation in respect of those activities covered by the Accreditation Certificate 014.

The certificate remains the property of Moody International Certification Limited to whom it must be returned on request.



LIPSTELD ARCHITECTS

الساق الإسطرات اليوارسة الكوابة والمقاور بس

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CERTIFICATE OF CONFORMITY

Certificate No. 0051/11 Issue Date: 05 July 2011 Valid Until: 04 July 2014
The Emirates Authority for Standardization and Metrology (ESMA)

ANABEEB PIPE MANUFACTURING FACTORIES

P.O. Box 2915, Abu Dhabi, United Arab Emirates

Has complied with the following published documents:

ESMA General Rules for Emirates Product Certification Scheme

In respect of a certification scheme for the manufacture of

PVC-U / LDPE PIPES

These rules have among other things necessitated the submission of samples of the scheduled products for examination and testing by ESMA to the Standards referred to in the schedule. Additionally, the scheme requires the firm

(A) To permit their factory located at Plot number M 22, Mussaffath Industrial Area, Abu Dhati, UAE to be periodically inspected by ESMA.

(8) To allow samples of the scheduled products to be selected from production, or from the market for independent testing and examination for assurance that continuity of conformity is being maintained.

The firm hereby agrees with ESMA to duly observe and comply with the requirements of the scheduled standards, the general and specific rules and with any regulations for the scheme that ESMA may establish.

Signed on behalf of

ESMA

Eng. Mohammed Saleh Badri Acting Director General



Signed on behalf of Anabeeb Pipes Manufacturing Factories

Engr. Abdullah Ahmed Khalil Factory Manager

P.O.Box 48666, Dubai - UAE Tel: +971 4 294 44 34 Fax: +971 4 294 44 28 E-mail: conformity@esma.ae W W W . e S m a . a e



Our Ref: GH/M110329 Test Report: MAT/LAB 4990



18th October 2011

Anabeeb Pipes Manufacturing Factories P O Box 2915 Mussafah Abu Dhabi United Arab Emirates

WATER REGULATIONS ADVISORY SCHEME (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 BS 6920-1:2000 '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.

POLYVINYLCHLORIDE (PVC, PVC-U & CPVC) - COMPONENTS

5300

Anabeeb UPVC Potable Water Pipe. Black coloured, extruded PVC-U pipe. For use with water up to 45°C.

APPROVAL NUMBER: 1110510

APPROVAL HOLDER: ANABEEB PIPES MANUFACTURING FACTORIES

The Scheme reserves the right to review approval. This approval is valid between October 2011 and October 2016.

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.wras.co.uk/directory

Yours faithfully

Jason Furnival

Approvals & Enquiries Manager Water Regulations Advisory Scheme

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ANABEEB Pipes Manufacturing Factories (Formerly NPBF)