

Our location



**AVK TRADING CO. W.L.L.**

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**AVK TRADING CO. W.L.L.**

**AL VIVID KING'S PLASTIC FACTORY**



*Unflinching commitment to  
standard and service*

## About Us

Al Vivid Kings is in qatar market since 2007 and our range of services include production of polyethylene sheets, garbage bags, UPVC pipes and fittings and trading of many other building materials A.V.K. Trading is specialized in the production and trading of polyethylene sheets, garbage bags, PVC pipes and fittings. The company is starting to establish a new strategy to position itself as one of the biggest manufacturers and traders of polyethylene sheets and PVC pipes and fittings.

### This advance can be attributed to several factors:

- Past experience in providing products for major business firms that are geographically spread across the country
- Management capabilities to control, mobilize and support both projects and client needs.
- Number of experienced and skilled workers, supervisors, and highly effective upper-level management which are organized.



## Chairman's Message



## AVK TRADING CO. W.L.L.

**AVK TRADING CO. W.L.L.**

POLYETHYLENE SHEETS (LDP)

P.O. Box : 17149, Doha - Qatar

Tel : 44882399, 44882499

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We, AVK, have great pleasure in introducing ourselves as one of the leading manufactures and traders of various kinds of high quality polyethylene sheets (LDP), in all available ranges of gauges, lengths and widths. We have acquired an international reputation over the years, with our products attaining wide acceptance not only in the Middle East, but various others countries around the world.

Our sheets are manufactured at our most modern factory under expert supervision. Our experienced technicians are skilfully trained by internationally-renowned European manufacturers of polyethylene sheets. Ucompromising quality control is ensured for our products by calling upon latest technological features of international standard.

We are regular suppliers of polyethylene sheets to various government departments and major contracting companies in Doha - Qatar. We are ready for your immediate service, and would be pleased to receive your enquiries enabling us to quote our competitive prices.

Assuring you of our best attention and full co-operation at all times.

Best regards

*Chairman*

## Mission, Vision, Values

In this rapidly changing economy and moving climate of business, we continue to thrive as a business over the past years of our company. Understanding the trends and forces will shape our business in the future and help us move swiftly towards a better tomorrow. We are getting ready for tomorrow today.

### Our Mission

As a leading manufacturer of Polyethylene sheets, uPVC pipe & fittings, our mission is to provide our customers/clients with the high quality, cost effective, end to end solutions products with great hospitality any time across multiple environments and ventures to enhance their business worldwide. Our mission also ensures well-being for our partners and their development while preparing for uncertain times.

### Our Vision

Our vision is to become the market leader in our core business of manufacturing polyethylene sheets and supplying by building on the strength of our customer/clients base by ensuring wider range of service lines and highly professional and management team for the future years.

### Our Values

Although we are in one of the most competitive and developing markets in the world; we still believe some of the most important principles of nature and humankind that our partners believed when they entered into this venture. We want to be ethically fair and very reliable, accountable and provide the utmost integrity to our strong client base. We also want to provide our workers with a working environment that would create the best out of them.



## Our Production Unit



## Our Product Distributing





## Our Products

### Garbage Bags (Normal & Bio Degradable)

- High density and low density polyethylene and Co-extrusion.
- Optimum tear, burst and impact strength.
- High strength that is pierce resistant with
- Special quality waste disposal bags for hostels, hospitals and industry
- Supplied as per request

### Marker Tapes

(For above-ground and underground ducts and cables & highlighting traffic / road hazards or diversions.)

- High quality marker or caution tapes
- An estimated life expectancy of 20 years
- Red and white tapes with printed messages
- Caution tapes in any colour and inscription as required for other purposes
- Anti-corrosive, with high resistance to most of the acids, alkalis, and subsoil salts.
- Supplied as per request

### Shopping Bags

- Wide and unique range of carrier bags.
- Plain or printed with a variety of handles.
- Ranges of bags with LDPE, HDPE, Polypropylene or Co-extrusion films
- Six colour printing
- Desired variation of colour in the presented designs.
- Supplied as per request



## Our Products



### Polyethylene Sleeves / Sheets

- Quality in accordance with BS. 6076: 1981 and ASTM-D-1248-78
- Produced from prime grade raw polyethylene
- Free from tears and voids or any flaws like pin holes.
- Tensile strength in both machine and transverse directions, not less than 13 Mpa.
- Elongation at break in both machine and transverse directions, not less than 35%.
- Anti-corrosive, with high resistance to most of the acids, alkalis, and subsoil salts.
- Withstands temperatures up to 80°C.
- Stocks available in standard roll lengths of 100m and 200m
- Diameter from 80mm – 100mm
- Available in blue and black colours.
- Supplied as per request



## Nature of Business

The nature of our business is the production and sale of:

- (1) Polyethylene sheets, garbage bags, warning tape etc.
- (2) PVC Pipe and fittings

Our core production is the production of Polyethylene Sheets, which is an important product used for construction especially in the Middle-East. Our product comes in variety of sizes to fit our customer's desires and requirements.

### Factory Building

A new factory building at the size of 3500 sq. mtr consists of three sheds. which is used as follows :

**Shed 1**  
Production of polyethylene sheet



**Shed 2**  
Production of pipe



**Shed 3**  
Store room



### Machinery

**Polythelene sheets :** Machinery is installed at its running capacity of 200 M/T per month. At present we already have 5 machinery excluding two grinders, a recycle machinery and agglomerator.

**Pipe :** At present we have machinery for the PVC production, and we are under the process of bringing more machinery very soon.

### Human Resources

Currently our management section consists of more than 15 people, while our lower level management consists of more than 25 people.

## Our Production Range

A.V.K is engaged in the production of superior quality Polyethylene sheets, Green house films- UV stabilised, Sleeving, Shrink film, Marker tapes, Shopping bags and Garbage bags, in varied ranges of mechanical and physical properties. General properties of our products are provided here for the benefit of our esteemed customers.

### AI vivid kings Polyethylene Sheets

(For internationally and locally managed construction projects of all magnitudes.)

- Manufactured under strict quality control conditions,
- Confirmed to the technical specification of British, German and American standards (BS2781, ASTM-E-154).
- Heavy-duty polyethylene sheeting with a width from 2 metres to 4 metres and length up to 50 metres.
- Polyethylene sheets for dealer network sales and for specific projects in the standard widths of 3.6 M (12ft) and 4 M, respectively.



### Standard Thickness and Widths of Sheets

OPEN WIDTH		THICKNESS			
Metres	Microns	mm	Mil	Gauge	
2 to 4	200	0.20	8	800	
2 to 4	250	0.25	10	1000	
2 to 4	300	0.30	12	1200	
2 to 4	400	0.40	16	1600	
2 to 4	500	0.50	20	2000	
2 to 4	750	0.75	30	3000	

### Mechanical & Physical Properties of polythelene Sheets for Construction

	UNIT	1500 GAUGE	1200 GAUGE	1000 GAUGE	800 GAUGE	500 GAUGE
Density of Resin	g/ cm	0.923	0.923	0.923	0.923	0.923
MFI of Resin	g/ cm <sup>3</sup>	0.30	0.30	0.30	0.30	0.30
Thickness	Micron	375	300	250	200	125
Tensile Strength	Kg / Cm <sup>2</sup>	202.5	184.6	163.2	155	150.8
Elongation at Break	%	529	800	660	520	480
Burst Strength	Kg / Cm <sup>2</sup>	3.3	2.9	2.4	2	1.50
Impact	(g)	950	840	440	360	300

## Certificate of Analysis

### Mechanical Properties

ITEM NAME : POLYETHYLENE SHEET  
 DIMENSION : 50 MTRS. X 2 MTRS. X 100 MICRONS  
 (400 GAUGE) (L X W X T)  
 APPEARANCE : ROLL (TRANSPARENT) / COLOUR

	TEST METHOD	UNIT	VALUE
RESIN MELT FLOW INDEX	ASTM D- 1238	g / 10 min.	0.24 – 0.30
TENSILE STRENGTH AT YIELD	ASTM D- 882	Mpa	MD-10 / TD-9
TENSILE STRENGTH AT BREAK	ASTM D- 882	Mpa	MD-18 / TD-16
ELONGATION AT BREAK	ASTM D- 882	%	MD-150 / TD-250
DART DROP IMPACT, F 50	ASTM D- 1709 A	grms.	225
COEFFICIENT OF FRICTION	ASTM D-1894	KINETIC	1.5

### Mechanical Properties

ITEM NAME : POLYETHYLENE SHEET  
 DIMENSION : 50 MTRS. X 2 MTRS. X 125 MICRONS  
 – (500 GAUGE) (L X W X T)  
 APPEARANCE : ROLL (TRANSPARENT) / COLOUR

	TEST METHOD	UNIT	VALUE
RESIN MELT FLOW INDEX	ASTM D- 1238	g / 10 min.	0.24 – 0.30
TENSILE STRENGTH AT YIELD	ASTM D- 882	Mpa	MD-12 / TD-10
TENSILE STRENGTH AT BREAK	ASTM D- 882	Mpa	MD-22 / TD-20
ELONGATION AT BREAK	ASTM D- 882	%	MD-200 / TD-300
DART DROP IMPACT, F 50	ASTM D- 1709 A	grms.	250
COEFFICIENT OF FRICTION	ASTM D-1894	KINETIC	1.5

### Mechanical Properties

ITEM NAME : POLYETHYLENE SHEET  
 (SHEETS) SHEET  
 DIMENSION : 50 MTRS. X 2 MTRS. X 200 MICRONS  
 – (800 GAUGE) (L X W X T)  
 APPEARANCE : ROLL (TRANSPARENT) / COLOUR

	TEST METHOD	UNIT	VALUE
RESIN MELT FLOW INDEX	ASTM D- 1238	g / 10 min.	0.24 – 0.30
TENSILE STRENGTH AT YIELD	ASTM D- 882	Mpa	MD-13 / TD-12
TENSILE STRENGTH AT BREAK	ASTM D- 882	Mpa	MD-26 / TD-23
ELONGATION AT BREAK	ASTM D- 882	%	MD-250 / TD-350
DART DROP IMPACT, F 50	ASTM D- 1709 A	grms.	400
COEFFICIENT OF FRICTION	ASTM D-1894	KINETIC	1.5

### Mechanical Properties

ITEM NAME : POLYETHYLENE SHEET  
 DIMENSION : 50 MTRS. X 2 MTRS. X 225 MICRONS  
 – (900 GAUGE) (L X W X T)  
 APPEARANCE : ROLL (TRANSPARENT) / COLOUR

	TEST METHOD	UNIT	VALUE
RESIN MELT FLOW INDEX	ASTM D- 1238	g / 10 min.	0.24 – 0.30
TENSILE STRENGTH AT YIELD	ASTM D- 882	Mpa	MD-15 / TD-13
TENSILE STRENGTH AT BREAK	ASTM D- 882	Mpa	MD-26 / TD-25
ELONGATION AT BREAK	ASTM D- 882	%	MD-280 / TD-390
DART DROP IMPACT, F 50	ASTM D- 1709 A	grms.	450
COEFFICIENT OF FRICTION	ASTM D-1894	KINETIC	1.5

## Certificate of Analysis

### Mechanical Properties

ITEM NAME : POLYETHYLENE SHEET  
 DIMENSION : 50 MTRS. X 2 MTRS. X 250 MICRONS  
 – (1000 GAUGE) (L X W X T)  
 APPEARANCE : ROLL (TRANSPARENT) / COLOUR

	TEST METHOD	UNIT	VALUE
RESIN MELT FLOW INDEX	ASTM D- 1238	g / 10 min.	0.24 – 0.30
TENSILE STRENGTH AT YIELD	ASTM D- 882	Mpa	MD-17 / TD-14
TENSILE STRENGTH AT BREAK	ASTM D- 882	Mpa	MD-31 / TD-28
ELONGATION AT BREAK	ASTM D- 882	%	MD-300 / TD-430
DART DROP IMPACT, F 50	ASTM D- 1709 A	grms.	550
COEFFICIENT OF FRICTION	ASTM D-1894	KINETIC	1.5

### Mechanical Properties

ITEM NAME : POLYETHYLENE SHEET  
 DIMENSION : 50 MTRS. X 2 MTRS. X 300 MICRONS  
 – (1200 GAUGE) (L X W X T)  
 APPEARANCE : ROLL (TRANSPARENT) / COLOUR

	TEST METHOD	UNIT	VALUE
RESIN MELT FLOW INDEX	ASTM D- 1238	g / 10 min.	0.24 – 0.30
TENSILE STRENGTH AT YIELD	ASTM D- 882	Mpa	MD-20 / TD-16
TENSILE STRENGTH AT BREAK	ASTM D- 882	Mpa	MD-38 / TD-32
ELONGATION AT BREAK	ASTM D- 882	%	MD-400 / TD-515
DART DROP IMPACT, F 50	ASTM D- 1709 A	grms.	600
COEFFICIENT OF FRICTION	ASTM D-1894	KINETIC	1.5

### Mechanical Properties

ITEM NAME : POLYETHYLENE SHEET  
 DIMENSION : 50 MTRS. X 2 MTRS. X 400 MICRONS  
 – (1600 GAUGE) (L X W X T)  
 APPEARANCE : ROLL (TRANSPARENT) / COLOUR

	TEST METHOD	UNIT	VALUE
RESIN MELT FLOW INDEX	ASTM D- 1238	g / 10 min.	0.24 – 0.30
TENSILE STRENGTH AT YIELD	ASTM D- 882	Mpa	MD-27 / TD-22
TENSILE STRENGTH AT BREAK	ASTM D- 882	Mpa	MD-50 / TD-42
ELONGATION AT BREAK	ASTM D- 882	%	MD-450 / TD-650
DART DROP IMPACT, F 50	ASTM D- 1709 A	grms.	750
COEFFICIENT OF FRICTION	ASTM D-1894	KINETIC	1.5

### Greenhouse Films – UV Stabilised

- Superior quality of UV-stabilised polyethylene film.
- Light yellow colour.
- A width up to 4 metres available.
- Overlapping of two sheets now unnecessary.
- Supplied as per request



## Technical Specifications

### AVKwp Unplasticized Polyvinyl Chloride Pipes (uPVC)

#### Technical Data of AVKWP uPVC Pipe

Physical Properties			
Properties at 20_C	Unit	Values	Method of Evaluation
Specific Gravity at 23_C		1.43	ASTM D 792
Flammability	non support		ASTM D 635
Resistance of Building	Sec	<30	BS 4607 PART 2:07
Softening PT. (VSP 5kgf)	C	82	BS 2782 - 1976
Shore Hardness		81	ASTM D 2240 - 75
Thermal Conductivity	W/m-k	0.17	BS 874 - 1973
Specific Heat	Cal/g_C	0.25	

Mechanical Properties			
Tensile Strength 20_C	Kg/cm2	481-550	ISO R 257
Modulus of Elasticity	MN/m	3000	ASTM - 1784
Compressive Strength	Kp/cm	668	BS 4607 PART 2:70
Flexual Strength	Kp/cm	950	ASTM D 790
Elongation at Break	%	> 80	ISO R 527
Yield Stress	Kp/cm	> 400	ISO R 527
Resistance to Heat	mm	< 2	BS 4607 PART 2:70

Chemical Properties			
Resist to Sulphuric Acid	g/45cm	-0.13 +3.19	Method of Evaluation
Resist to Methylene Chloride	%	< 3	ISO 2508/81
Resist. Water Absortion	mg/cm	< 2.0	ISO 2508/ DIN 8061

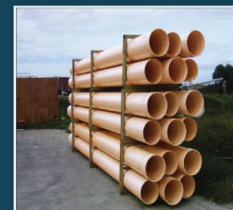
Electrical Properties			
Volume Resistivity	mg/L	1014	
Surface Resistance	ohm	1012	DIN 53482
Power Factor at 10 HERT		3	
Dielectric Strength	V/mil	1400	BS 4607
Insulation Resistance	M.ohm	1.1 x 105	BS 4607

Toxicity			
Pb Toxicity	mg/L	< 0.3	
Sn Toxicity	=	< 0.02	
Zn Toxicity	=	< 0.01	

AVKWP uPVC are manufactured with accordance to the International standards for different types of uses mainly to & European standard (BS EN 1401, BS EN 1329, EIN 8062, BS 3505 / 3506, BS 6099). Also & in some cases AVKwp are manufacturing with accordance to the standard of special telecommunication companies or contractors.



### AVK WP uPVC Electrical Conduit & Cable Ducts



#### AVKWP Electrical cable Ducts

Nominal Size (inch)	Outside Diameter (mm)	Wall Thickness (mm)	Standard Length (mm)
1¼"	36.15	1.8	4.0
1½"	42.75	1.9	4.0
2"	55.75	2.0	4.0
3"	82.40	2.2	4.0
4"	110.00	2.4	5.8
6"	160.00	2.6	5.8
4"	110.00	3.2	5.8
6"	160.00	4.7	5.8
6"	160.00	3.6	5.8
8"	200.00	4.0	5.8
8"	200.00	4.9	5.8
10"	250.00	4.9	5.8
10"	250.00	6.1	5.8
12"	315.00	7.7	5.8
12"	315.00	9.2	5.8

The Standard Colour : Red, Gray & Black.

The Socket Type : All pipes are solvent or rubber socket,

Note : QCS Duct Are Including In The Above Table.

## Technical Specifications

### BRITISH STANDARD

#### 1.1 uPVC Soil & Waste (above ground drainage)



#### Soil Pipe - BS - 4514

Nominal Size mm	Outside Diameter (X) mm		Wall Thickness (Y) mm	
	Minimum	Maximum	Minimum	Maximum
82 (3")	82.4	82.8	3.2	3.8
110 (4")	110.0	110.4	3.2	3.8
160 (6")	160.0	160.6	3.2	3.8

#### Waste Pipe - BS - 5255

Nominal Size mm	Out side Diameter (X) mm		Wall Thickness (Y) mm	
	Minimum	Maximum	Minimum	Maximum
32 (1¼")	36.15	36.45	1.8	2.2
40 (1½")	42.75	43.05	1.9	2.3
50 (2")	55.75	56.05	2.0	2.4

Note: Can be manufactured from MuPVC

#### Waste Pipe - Cold Water

Nominal Size mm	Out side Diameter (X) mm		Wall Thickness (Y) mm	
	Minimum	Maximum	Minimum	Maximum
32 (1¼")	36.15	36.45	1.8	2.2
40 (1½")	42.75	43.05	2.3	2.8
50 (2")	55.75	56.05	2.4	2.9

Note : Can be manufactured on customer's request out of uPVC of MuPVC

Manufactured to : BS 4514 - Soil Pipe, BS 5255 - Waste Pipe, Colour : Grey,  
Standard Length : 4, 5, 8 & 6 metres, Socket type : Solvent weld, Plain-end

- Note 1. Nominal size pipes of 4" and 6" soil are metric (110mm and 160 respectively) and fully compatible with metric plumbing systems.  
2. Non-standard lengths and colours can be manufactured to meet customer's requirements.  
3. A wide range of compatible fittings manufactured to BS 4514 & BS 5255 by Geberit Terrain Ltd of U.K., are available.

## PVC Pipe for General Purposes

### According to American (ASTM) Standards

Nominal Size	Mean Out side Diameter		ASTM D1785 Schedule 40 Wall thickness		ASTM D1785 Schedule 80 Wall thickness		ASTMD 2665 Drain, Waste, Vent Wall thickness		
	Inches	Min/mm	Max/mm	Min/mm	Max/mm	Min/mm	Max/mm	Min/mm	Max/mm
½		21.24	21.24	2.77	3.28	3.73	4.24	-	-
¾		26.57	26.77	2.87	3.38	3.91	4.42	-	-
1		33.27	33.53	3.38	3.89	4.55	5.08	-	-
1¼		42.03	42.29	3.56	4.06	4.85	5.44	3.56	4.06
1½		48.11	48.41	3.68	4.19	5.08	5.69	3.68	4.19
2		60.17	60.47	3.91	4.42	5.54	6.20	3.91	4.42
1½		72.84	73.20	5.16	5.77	7.10	7.85		
3		88.70	89.10	5.49	6.15	7.62	7.53	5.49	6.15
1½		101.40	101.80	5.74	6.43	8.08	9.04		
4		114.07	114.50	6.02	6.73	8.56	9.58	6.02	6.73
5		141.05	141.55	6.55	7.34	9.52	10.67		
6		168.00	168.56	7.11	7.98	10.97	12.29	7.11	7.98
8		218.70	219.46	8.18	9.17	12.70	14.22	8.18	9.17
10		272.67	273.43	9.27	10.39	15.06	16.87		
12		323.47	324.23	10.31	11.56	17.45	19.52		





## Technical Specifications

### BRITISH STANDARD

#### 1.2 uPVC Underground & Sewer Pipe

BS 4660				
Nominal Size mm	Out side Diameter (X) mm		Wall Thickness (Y) mm	
	Minimum	Maximum	Minimum	Maximum
110 (4")	110.0	110.4	3.2	3.8
160 (6")	160.0	160.6	4.1	4.8

BS - 5481				
Nominal Size	Out side Diameter (X) mm		Wall Thickness (Y) mm	
	Minimum	Maximum	Minimum	Maximum
200	200.0	200.6	4.9	5.6
250	250.0	250.7	6.1	7.0
315	315.0	315.9	7.7	8.7
400	400.0	401.0	9.8	11.0

Manufactured to : BC 4660 - (110)4", (160) 6" - BS 5481, Standard Length : 5.8 & 6 metres, Colour : Golden Brown, Socket type : Solvent weld, Rubber Ring & Plain-end

### BSEN 1401 - 1:2009 UNDERGROUND & SEWER PIPE

Nominal Size DN/OD <sup>1</sup>	Nominal outside diameter d <sub>n</sub>	SN2 SDR 51 <sup>2)</sup>		SN4 SDR 41		SN8 SDR 34	
		e <sub>min.</sub>	e <sub>m,max.</sub>	e <sub>min.</sub>	e <sub>m,max.</sub>	e <sub>min.</sub>	e <sub>m,max.</sub>
110	110	---	---	3,2	3,8	3,2	3,8
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
400	400	7,9	8,9	9,8	11,0	11,7	13,1
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
800	800	15,7	17,5	19,6	21,8		
900	900	17,6	19,6	22,0	24,4		
1000	1000	19,6	21,8	24,5	27,2		

1) Non-preferred sizes are indicated in parenthesis.

2) SDR 51 is applicable for application are code "U" only.

## Technical Specifications

### BRITISH STANDARD

#### 1.3 uPVC Electrical Telephone Duct



uPVC DUCT Pipe - Telephone Cable							
Sl. No.	Duct No.	Outside Diameter of Duct (mm)	Wall Thickness (mm)	Inside Diameter of Socket at Entry (mm)	Inside Diameter of Socket at Shoulder (mm)	Socket Length (mm)	Effective Duct Length Metres
1.	54D	96.5 ± 0.2	3.25 ± 0.2	97 ± 0.1	96 ± 0.1	100	5.8
2.	56A	56.5 ± 0.2	3.25 ± 0.2	57 ± 0.1	56 ± 0.1	70	3

#### 1.3 uPVC Electrical Conduit



Nominal Size mm	BS 6099 - uPVC CONDUIT					
	Minimum Inside Diameter (X) mm			Maximum Wall Thickness (Y) mm		
	Light	Medium	Heavy	Light	Medium	Heavy
20	17.4	16.9	15.8	1.30	1.55	2.1
25	22.1	21.9	20.6	1.45	1.80	2.2
32	28.6	27.8	26.6	1.70	2.10	2.7
50	45.1	44.3	43.2	2.45	2.85	3.4

Manufactured to : BS 6099,

Standard Length : 2.9 metres / 3 metres,

Colour : Black or White,

Socket : Solvent Weld

Note : 1. Non-standard lengths and colours can be manufactured to meet customer's exact requirements.

2. Electrical conduit 38mm, wall thickness 2.1mm is also available.

## Technical Specifications

### DIN STANDARD

#### 2.1 uPVC Drainage Pipe (above ground)



Nominal Size mm	DIN 19531			
	Mean Outside Diameter (X) mm		Wall Thickness (Y) mm	
	Minimum	Maximum	Minimum	Maximum
40	40.0	40.2	1.8	2.2
50	50.0	50.2	1.8	2.2
75	75.0	75.3	1.8	2.2
110	110.0	110.3	2.2	2.7
160	160.0	160.4	3.2	3.8

Manufactured to : DIN 19531 Standard Length : 4, 5.8 & 6 metres Colour : Grey Socket type : Plain-end, Solvent Weld or Rubber Seal Ring (75mm and above)  
**Note** All commonly used dimensions normally available, delivery for other sizes on request.

#### 2.2 uPVC Sewer Pipe (gravity)



Nominal Size mm	Outside Diameter (X) mm		DIN 19534	
	Minimum	Maximum	Wall Thickness (Y) mm	
			Minimum	Maximum
110	110.0	110.3	3.0	3.5
160	160.0	160.4	3.6	4.2
200	200.0	200.4	4.5	5.2
250	250.0	250.5	6.1	7.0
315	315.0	315.6	7.7	8.7
400	400.0	400.7	9.8	11.0

Manufactured to : DIN 19534, Standard Length : 5.8 & 6 metres Colour : Grey Socket type : Plain-end, Solvent Weld or Rubber Seal Ring (75mm and above)

**Note:**

- All commonly used dimensions normally available, delivery for other sizes on request.
- A wide range of compatible fitting manufactured to EN 1401, by REDI of Italy are available.

## Technical Specifications

### uPVC SOIL & WASTE PIPES - BS EN1329 STANDARD

#### DICHARGE SYSTEMS ( ABOVE GROUND AND BELOW GROUND)

**Scope:**

The British standard BS EN 1329 specifies the requirement for pipe in the field of soil and waste discharge (low and high temperature). These pipes are applicable for the discharge of soil waste in inside buildings area & for soil and waste discharge buried within building.

**Colour:** Black / Dark Grey

**Appearance:**

Each pipe length shall bear a socket length end and a spigot (plain) end. Push fit rubber ring also available upon the request.

Nominal Size (mm)	Mean Outside Diameter (mm)	Wall Thickness (mm)			
		Inside Building area (B)		Inside Building area & Buried within building (BD)	
		Min	Max	Min	Max
32	32	3.0	3.5	-	-
40	40	3.0	3.5	-	-
50	50	3.0	3.5	-	-
63	63	3.0	3.5	-	-
75	75	3.0	3.5	3.0	3.5
80	80	3.0	3.5	3.0	3.5
82	82	3.0	3.5	3.0	3.5
90	90	3.0	3.5	3.0	3.5
110	110	3.2	3.8	3.2	3.8
160	160	3.2	3.8	4.0	4.6
200	200	3.9	4.5	4.9	5.6
250	250	4.9	5.6	6.2	7.1
315	315	6.2	7.1	7.7	8.7

#### (SERIES BASED ON INCH DIMENSIONS)

Nominal Size (In.)	Nominal outside Diameter (MM)	Wall Thickness (mm) Inside building Area (B)	
Inch. / mm	mm	mm	mm
1 1/4" / 36	36	3.0	3.5
1 1/2" / 43	43	3.0	3.5
2" / 56	56	3.0	3.5

**uPVC Fittings & Accessories:** We also hold the distribution right for a wide range of uPVC fittings and accessories, manufactured in Europe and Middle East Asia, which are compatible to the above pipes.

## Technical Specifications

### LOCAL STANDARD

#### AVK-WP 01 - Sewerage and Underground Pipe

Nominal Size (mm)	Outside Diameter (mm)		Wall Thickness (mm)			
			Series 1		Series 2	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
110(4')	110.0	110.4	2.2	2.7	4.0	-
114(4")	114.1	114.5	2.8	3.3	5.0	20
160(6")	160.0	160.6	2.5	3.0	4.0	3.0
168(6')	168.0	168.6	3.0	3.5		-

Manufactured to : Local Standards    Standard Length : 5.8 metres    Colour : Grey / Golden Brown / White    Socket Type : Non - socket end Solvent Weld & Gasket socketed

#### AVK-WP 02 - Cable and Duct Pipe

Nominal Size (mm)	Outside Diameter (mm)		Wall Thickness (mm)					
			Series 1		Series 2			
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
75	75.0	75.3	1.6	2.2	-	-	-	-
82(3")	82.4	82.8	2.2	2.7	-	-	-	-
110(4")	110.0	110.4	1.8	2.4	2.5	3.0	4.0	46
160(6")	160.0	160.6	2.5	3.0	3.1	3.6	-	-
200	200.0	200.6	-	-	4.5	5.2	-	-
250	250.0	250.7	4.90	5.60	6.1	7.0	7.3	8.3

Manufactured to : Local Standards    Standard Length : 5.8 metres    Colour : Grey / Black    Socket Type : Non - socket end Solvent Weld

Electrical Cable in Accordance with G.C.C Specification High Impact resistant PVC pipes, these pipes can be used as DUCTS for road crossing of underground cables. The PVC Pipes shall be supplied in 4 Meters or 6 Meters length with one parallel socket per length for joining.

## Technical Specifications

### BRITISH STANDARD

#### 1.2 uPVC Pressure Pipe BS 3505 : / 1986 / BS 3506 : 1969 (Class O) (Water supply, Irrigation & Industrial use)

Nominal Size Inch	Out side Diameter mm		Wall Thickness (mm)															
			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	Min	Max		
½	21.2	21.5							1.7	2.1					2.8	3.3	3.7	4.3
¾	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
1¼	42.1	42.4						2.2	2.7	2.7	3.2				3.6	4.2	4.8	5.5
1½	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	3.0	3.1	3.7	3.9	4.5	1.8	2.2					5.5	6.3
2½	75.0	75.3			3.0	3.5	3.9	4.5	4.8	5.5	1.8	2.2						
3	87.7	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	4.0	4.5	5.2	6.0	6.9	7.3	8.4	2.3	2.8						
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	9.0	10.3	11.9	12.6	14.5	3.1	3.7						

#### Pressure rating

Class	'B'	'C'	'D'	'E'	'O'
Bar	6	9	12	15	Non Pressure

**Note** : 2% of rated pressure should be reduced for each 1°C rise above 20°C

Pressure Rating Bar		
Size-inch	'D'	'E'
½	28	40
¾	22	32
1	24	32
1¼	20	28
1½	18	25
2	-	22

Manufactured to : BS 3505 / 3506 Classes B, C, D & E, BS 3506, 1969 0, 6 & 7  
Standard Length : 5.8 & 6 metres    Colour : Golden Brown

Colour : Dark Gray  
Socket type : Solvent weld, Rubber Ring & Plain-end

- Note 1. A wide range of compatible fitting manufactured to BS 4346 part 1 by Durapipipe (U.K) are available  
2. Class D pipe are non-stock items, can be produced on request.



## Technical Specifications

### DIN STANDARD

#### uPVC Pressure Pipe

uPVC Pipe DIN 8062 / 63:19532													
Nominal Size mm	Outside Diameter		Series										
			1		2		3		4		5		
	Min mm	Max mm	W.T.		W.T.		W.T.		W.T.		W.T.		
20	20	20.2									1.5	1.9	
25	25	25.2							1.5	1.9	2.9	2.3	
32	32	32.2							1.8	2.2	2.4	2.9	
40	40	40.2						1.8	2.2	2.3	3.0	3.5	
50	50	50.2						1.8	2.2	2.4	2.9	3.7	4.3
63	63	63.2						1.9	2.3	3.0	3.5	4.7	5.4
75	75	75.3			1.8	2.2	2.2	2.7	3.6	4.2	5.6	6.4	
90	90	90.3			1.8	2.2	2.7	3.2	4.3	5.0	6.7	7.6	
110	110	110.3	1.8	2.2	2.2	2.7	3.2	3.8	5.3	6.1	8.2	9.3	
160	160	160.4	1.8	2.2	3.2	3.8	4.7	5.4	7.7	8.7	11.9	13.3	
200	200	200.4	1.8	2.2	4.0	4.6	5.9	6.7	9.6	10.8	14.9	16.6	
225	225	225.5	1.8	2.2	4.5	5.2	6.6	7.5	10.8	12.1	16.7	18.6	
250	250	250.5	2.0	2.4	4.9	5.6	7.3	8.3	11.9	13.3	18.6	20.7	
280	280	280.6	2.3	2.8	5.5	6.3	8.2	9.3	13.4	15.0	20.8	23.1	
315	315	315.6	2.5	3.0	6.2	7.1	9.2	10.4	15.0	16.7	23.4	26.0	
400	400	400.7	3.2	3.8	7.9	8.9	11.7	13.7	19.1	21.3	29.7	32.9	

Pressure Rating at 20°C

Pipe Series	1	2	3	4	5
Bar	-	4	6	10	16

Manufactured to : DN 8061 / 62  
Standard Length : 5.8 & 6 metres

Colour : Grey / Dark Grey  
Socket type : Solvent Weld or Rubber Seal Ring Produced on request

**Note** 1. Non-standard lengths and colours can be manufactured to meet customer's exact requirements.  
2. All commonly used dimensions normally available, delivery for other sizes on request.

**TEST REPORT**

COMPRESSIVE TEST FOR NON METALLIC COMPOSITES

Client: **AL-VITROS ENGINEERING & CONTRACTING CO. - SHARAH - QATAR**

Project: **SHARAH WATER SUPPLY PROJECT**

Sample Description: **U PVC**  
Sample Number: **1318102**  
Sample Location: **1318102**  
Sample Quantity: **10**  
Sample Condition: **CL20P**  
Sample Conditioning: **SATURATION**

**RESULTS:**

Temp (°C)	1	2	3	4	5
Temp (°C)	60	60	60	60	60
Time of Testing (min)	25	20	20	20	20
Applied Force (kN)	No. Test Report Found				

Name of Inspector: **Dr. A. H. AL-SAYED**

Name of Controller: **Dr. A. H. AL-SAYED**

Name of Tester: **Dr. A. H. AL-SAYED**

Name of Supervisor: **Dr. A. H. AL-SAYED**

Name of Client: **AL-VITROS ENGINEERING & CONTRACTING CO.**

Name of Project: **SHARAH WATER SUPPLY PROJECT**

Name of Site: **SHARAH**

Name of Location: **SHARAH**

Name of Date: **13/10/2013**

Name of Page: **1/1**

**TEST REPORT**

TENSILE TEST FOR NON METALLIC COMPOSITES

Client: **AL-VITROS ENGINEERING & CONTRACTING CO. - SHARAH - QATAR**

Project: **SHARAH WATER SUPPLY PROJECT**

Sample Description: **U PVC**  
Sample Number: **1318102**  
Sample Location: **1318102**  
Sample Quantity: **10**  
Sample Condition: **CL20P**  
Sample Conditioning: **SATURATION**

**RESULTS:**

Temp (°C)	1	2	3	4	5
Temp (°C)	60	60	60	60	60
Time of Testing (min)	25	20	20	20	20
Applied Force (kN)	No. Test Report Found				

Name of Inspector: **Dr. A. H. AL-SAYED**

Name of Controller: **Dr. A. H. AL-SAYED**

Name of Tester: **Dr. A. H. AL-SAYED**

Name of Supervisor: **Dr. A. H. AL-SAYED**

Name of Client: **AL-VITROS ENGINEERING & CONTRACTING CO.**

Name of Project: **SHARAH WATER SUPPLY PROJECT**

Name of Site: **SHARAH**

Name of Location: **SHARAH**

Name of Date: **13/10/2013**

Name of Page: **1/1**

**TEST REPORT**

TENSILE TEST FOR NON METALLIC COMPOSITES

Client: **AL-VITROS ENGINEERING & CONTRACTING CO. - SHARAH - QATAR**

Project: **SHARAH WATER SUPPLY PROJECT**

Sample Description: **U PVC**  
Sample Number: **1318102**  
Sample Location: **1318102**  
Sample Quantity: **10**  
Sample Condition: **CL20P**  
Sample Conditioning: **SATURATION**

**RESULTS:**

Temp (°C)	1	2	3	4	5
Temp (°C)	60	60	60	60	60
Time of Testing (min)	25	20	20	20	20
Applied Force (kN)	No. Test Report Found				

Name of Inspector: **Dr. A. H. AL-SAYED**

Name of Controller: **Dr. A. H. AL-SAYED**

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Name of Project: **SHARAH WATER SUPPLY PROJECT**

Name of Site: **SHARAH**

Name of Location: **SHARAH**

Name of Date: **13/10/2013**

Name of Page: **1/1**

**TEST REPORT**

TENSILE TEST FOR NON METALLIC COMPOSITES

Client: **AL-VITROS ENGINEERING & CONTRACTING CO. - SHARAH - QATAR**

Project: **SHARAH WATER SUPPLY PROJECT**

Sample Description: **U PVC**  
Sample Number: **1318102**  
Sample Location: **1318102**  
Sample Quantity: **10**  
Sample Condition: **CL20P**  
Sample Conditioning: **SATURATION**

**RESULTS:**

Temp (°C)	1	2	3	4	5
Temp (°C)	60	60	60	60	60
Time of Testing (min)	25	20	20	20	20
Applied Force (kN)	No. Test Report Found				

Name of Inspector: **Dr. A. H. AL-SAYED**

Name of Controller: **Dr. A. H. AL-SAYED**

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Name of Date: **13/10/2013**

Name of Page: **1/1**

**Our Projects**

**Ramada Plaza**



**Nakilat Shipyards Repairs (Ras Laffan)**



**New Doha International Airport Project**



**Our Projects**

**Al Fardan Towers**

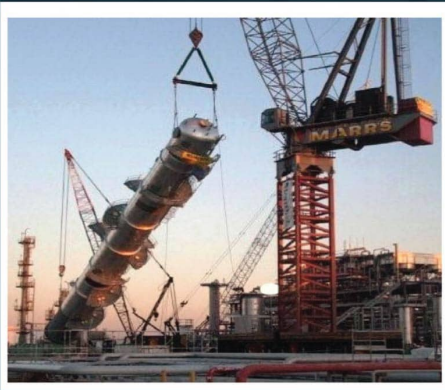
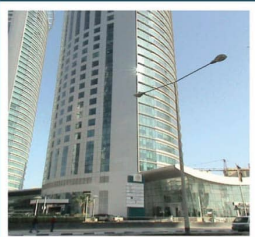


**(QP Project)**



**(QP Project)**

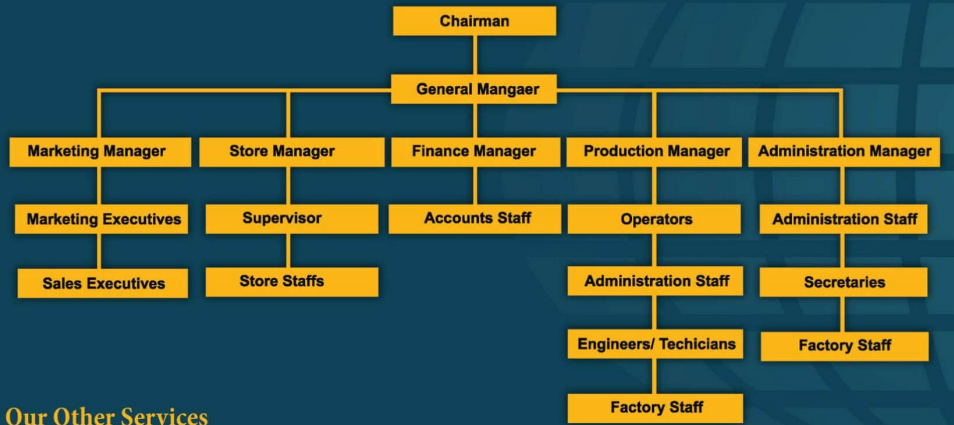




### Organization Chart



## AVK TRADING CO. W.L.L.



### Our Other Services

Construction, Engineer Works, Landscaping & Agriculture, Irrigation & Trading.