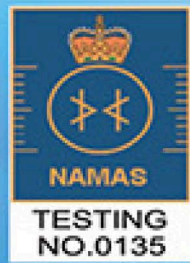




uPVC ELECTRICAL CONDUIT & FITTINGS CABLE MANAGEMENT SYSTEM PRODUCTS CATALOGUE





National Plastic Factory LLC

National Plastic Factory LLC. Established in the year 1992 in Muscat, Sultanate of Oman.

The company is certified with ISO 9001 QMS, 14001 EMS and OHSAS 18001 standards, & having manufacturing locations in oman/ UAE- Fujairah/ Egypt- 6th October city, under the division of Al Hosni Group International.

The Al Hosni Group found in the year 1975 with diversified line of industries, Hospitality, Infrastructure Development and investment portfolios.

Throughout the years National Plastic Factory developed and manufacturing, FMCG, Industrial and household plastic packaging products, and HOTACE brand uPVC electrical conduit pipes and fittings to various industries focusing on high quality and dependability having latest updated technology of machineries and professional team of technical staffs.

Our superior quality uPVC Electrical Conduit Pipes & Fittings meets the requirement of the following sectors like Residential, Commercial Buildings, Hospitals, Airports, Educational Institute Projects and Infrastructure development in GCC, Middle East & African Countries.

Our Superior HOTACE Brand uPVC Electrical Conduit Pipe & Fitting Products having following Local Government and International Authority Approvals.

- Oman DCRP (Distribution Code Review Panel).
- Oman Directorate General for Standards and Metrology Department of Lab.
- RCA (Royal Court Affairs).
- ROP (Royal Oman Police).
- MOD (Ministry of Defense).
- PAEW (Public Authority of Electricity and Water).
- Ministry of Regional Municipalities & Water Resources.
- Ministry of Education.
- MOH (Ministry of Health).
- PDO (Petroleum Development Organization).
- Oman Tel Approval.
- Ooredoo (Nawras) Approval.
- Oman Broadband Company Approval.
- Diwan of Royal Court.
- Qatar General Electricity & Water. (Kahramaa)
- Qatar National Olympic Committee.
- Qatar Petroleum.
- Electricity & Water Authority – Kingdom of Bahrain

We National Plastic Factory are constantly upgrading ourselves with the growing technology, experience and quality to meet the ever growing and innovative in Building Material & Construction market requirement and challenges the local & internationally acclaimed companies in the region with stringent quality requirements. The factory specialized in designing and developing all kind of plastic Building material products as per our customer requirement.

HOTACE Product Range:

- uPVC Electrical Conduit Pipes & Fittings
- uPVC Drainage, Sewerage Pipes & Fittings
- uPVC Soil & Ventilation Pipes & Fittings
- uPVC High Pressure Pipes & Fittings
- PPR Pipes & Fittings
- HDPE Pipe & Fittings
- Telephone Duct Pipes
- GI Conduits & Fittings

THE COMPANY STRENGTH

EXPERIENCE



TECHNOLOGY



QUALITY

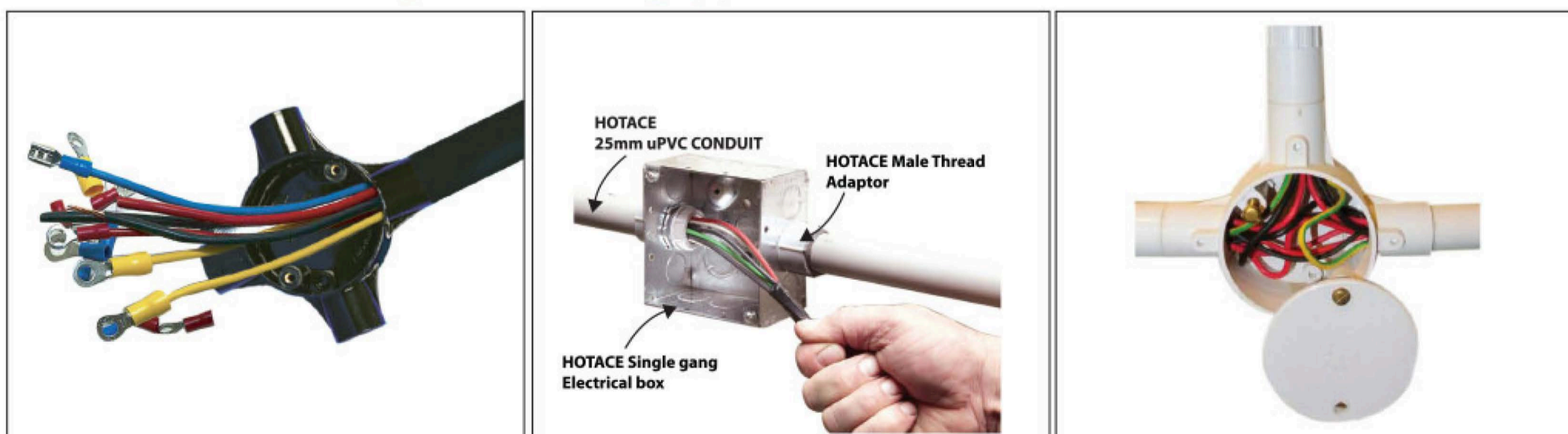
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General Properties of uPVC Material

PROPERTY	UNITY	VALUE
Density	gr/cc	1.4 - 1.46
Tensile Strength	MPa	45 - 50
Elongation	%	80 -150
Compressive Strength	MPa	59
Modulus of Elasticity	MPa	3000
Specific Heat	Cal/g/°C	0.24
Thermal Conductivity	Kcal/m/h/°C	0.12
Heat Distortion Temperature at 18.5 Kgf/cm ²	°C	70
5 Kg. Vicat Softening Point	°C	80
Linear Expansion	mm/m/°C	0.08
Volume Resistivity	ohm/cm	10 ¹⁵
Flammability		Self Extinguishing

HOTACE Conduit & Fittings used in wiring application





FEATURES OF HOTACE uPVC CONDUITS



Product Description & Applications

Hotace Conduits offers a complete range of rigid uPVC Electrical conduit pipes & fittings and Duct Pipes. Rigid PVC conduit systems are used in exposed, encased in concrete, Concealed in walls and direct burial applications, including systems for:

- Cable, data and Communication lines.
- Institutional, Commercial, industrial buildings.
- Residential applications, including service entrances.
- Street and highway underground feeds.
- Transportation systems, Subways, Bridges, Tunnels, Airports & Infrastructure Developments.
- Water and wastewater treatment plants.
- Marinas, Mines and mills.
- Utilities.

Features of HOTACE uPVC Electrical Conduit Pipes, Fittings & Duct pipes

Quality control:

HOTACE uPVC Electrical Conduit is subject to in process quality control testing to assure the compliance with appropriate manufacturing standards of BSI / Gulf / Oman Std.

Commercial, Industrial and Utility usage:

HOTACE uPVC Electrical Conduit is proven for durability and effective for years of maintenance-free performance in underground and encased applications in accordance with the BSEN, Omani & Gulf Standards.

Corrosion Proof:

Resistant to most chemicals PVC is not affected by any corrosive soils or salts.

Non-Magnetic and Non-Galvanic:

Properties of **HOTACE** uPVC Electrical Conduit assure good insulation and no power loss or conductor heating.

Self Extinguishing:

HOTACE uPVC conduit pipe are made to meet the properties of fire resistant i.e. Self Extinguishing.

Impact Resistant:

HOTACE uPVC Electrical Conduit is tough, durable and has high Impact & tensile strength. It is easy to handle and install right on the jobsite.

Maximum Operating Temperature:

HOTACE Rigid PVC conduit pipes and fittings can be installed in locations with an ambient temperature not exceeding 150°F / 80°C





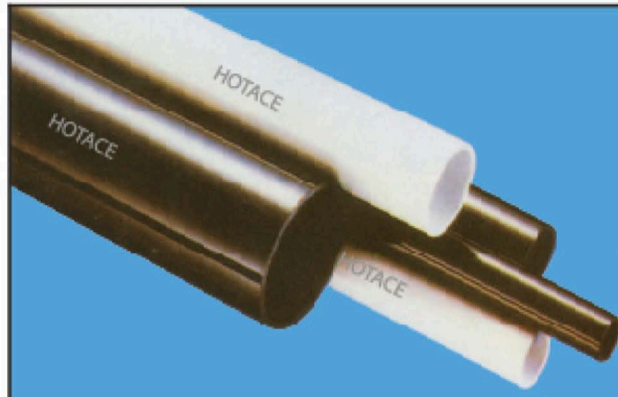
HOTACE ELECTRICAL CONDUIT PIPE & DUCT PIPE TECHNICAL SPECIFICATION



Product complies with BSEN-61386-21, BSEN 50086, BS 4607

Omani Standard 109/1986 Gulf Standard -33/1984 GSO IEC 61386-21

uPVC ELECTRICAL CONDUITS



Nominal Sizes in MM	Product Code	LIGHT GAUGE		MEDIUM GAUGE		HEAVY GAUGE	
		Min. Inside Diameter (mm)	Wall Thickness (mm)	Min. Inside Diameter (mm)	Wall Thickness (mm)	Min. Inside Diameter (mm)	Wall Thickness (mm)
20	HCP 20	17.6	1.2	16.8	1.6	16.4	1.8
25	HCP 25	22.2	1.4	21.4	1.8	21.2	1.9
32	HCP 32	29.0	1.5	27.8	2.1	27.0	2.5
38	HCP 38	35.0	1.5	33.6	2.2	33.0	2.5
50	HCP 50	46.2	1.9	45.0	2.5	43.6	3.2

Please specify the colour & gauge requirement while placing the order.

uPVC Conduits available in Black, White & Red colours

uPVC FRLS (Fire Retardant Low Smoke) ELECTRICAL CONDUIT PIPES

Product complies with BS STD. BSEN 61386-21



Nominal Sizes in MM	Product Code	HEAVY GAUGE		VERY HEAVY GAUGE		Standard Packing in Bundle		Standard Length in Mtr
		Min. Inside Diameter (mm)	Wall Thickness (mm)	Min. Inside Diameter (mm)	Wall Thickness (mm)	Local	Export	
20	HFRLSCP 20	16.4	1.8	15.8	2.1	25	20	2.9 mtr
25	HFRLSCP 25	21.2	1.9	20.6	2.2	25	20	2.9 mtr
32	HFRLSCP 32	27.0	2.5	26.6	2.7	10	10	2.9 mtr
38	HFRLSCP 38	33.0	2.5	32.4	2.8	10	10	2.9 mtr
50	HFRLSCP 50	43.6	3.2	43.2	3.4	10	10	2.9 mtr

Please specify the colour and gauge requirement while placing the order.

Rigid PVC FRLS Conduits Available in White, Black & Grey colours

Specific Gravity : 1.4 Breakdown Voltage KV/mm : 18

Tensile Strength Kg/cm² : Over 500 Insulation Resistance : 4 X 10⁻⁶ @500V (40,000 Mega Ohms)

Smoke density : Visibility during fire of conduit material ≥ 90%

uPVC Ducts for Electrical / Telephone Cables



Duct no	As per BPO Specification		
	Mean Outside Diameter		Wall Thickness
	min (mm)	max (mm)	max (mm)
56	53.8	54.0	1.55
56A	56.4	56.7	3.25
54D	96.3	96.7	3.25
57	114.2	114.4	3.4
57A	114.2	114.4	4.5
As per Din 8061 / 8062			
50	49.7	50.00	1.8
100	109.8	110.2	3.2

uPVC Industrial use pipes as per BS-3506 for Duct Application



Nominal Size	Outside Diameter (mm)		Wall Thickness (mm)							
			Class - O Non Pressure		Class - B 6.0 - Bar		Class - C 9.0 - Bar		Class - D 12.0 - Bar	
			Min	Max	Min	Max	Min	Max	Min	Max
Inch	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1 1/2	48.1	48.4	1.8	2.2	-	-	-	-	2.5	3.0
2	60.2	60.5	1.8	2.2	-	-	2.5	3.0	3.1	3.7
3	88.7	89.1	1.8	2.2	2.9	3.4	3.5	4.1	4.6	5.3
4	114.1	114.5	2.3	2.8	3.4	4.0	4.5	5.2	6.0	6.9
6	168.0	168.5	3.1	3.7	4.5	5.2	6.6	7.6	8.8	10.2
8	218.8	219.4	3.1	3.7	5.3	6.1	7.8	9.0	10.3	11.9
10	272.6	273.4	3.1	3.7	6.6	7.6	9.7	11.2	12.8	14.8
12	323.4	324.3	3.1	3.7	7.8	9.0	11.5	13.3	15.2	17.5

Available in Light Grey & Black colour. Standard Length 6 meters. Solvent Weld socket type. Also Duct Bends Available for the above sizes.

uPVC MINI & MAX TRUNKING

Product complies with BS STD. 4678 Part 4 BSEN-50085-1

	Product Code	Size(mm)	Standard Packing
	NPFT1616	16 x 16	25 x 3 mtr
	NPFT2516	25 x 16	25 x 3 mtr
	NPFT3825	38 x 25	10 x 3 mtr
	NPFT5050	50 x 50	4 x 3 mtr
	NPFT7550	75 x 50	2 x 3 mtr
	NPFT7575	75 x 75	2 x 3 mtr
	NPFT100100	100 x 100	2 x 3 mtr
Available in White colour			

uPVC MINI & MAX TRUNKING WITH SELF ADHESIVE STICKER

	Product Code	Size(mm)	Standard Packing
	NPFTAS1616	16X16mm	25x3Mtr
	NPFTAS2516	25x16mm	25x3Mtr
	NPFTAS3825	38x25mm	10x3Mtr

PVC CORRUGATED FLEXIBLE CONDUIT (Available in Black & White Colour)

	Product Code	Nominal Size (mm)	Maximum Outside Dia (mm)	Maximum Inside Dia (mm)	Coil Length Meters	Standard Pack Meters
	NPFC16	16	16	10.7	50	250
	NPFC20	20	20	14.1	50	250
	NPFC25	25	25	18.3	25	125
	NPFC32	32	32	24.3	25	125
	NPFC40	40	40	31.2	20	100
	NPFC50	50	50	39.6	15	75

HDPE SECONDARY DUCT AS PER DIN 8074 & ISO - 4427

	Nominal Outer Diameter (mm)	Wall Thickness (mm)			
		PN 4	PN 6	PN 10	PN 16
20	-	-	2.0	2.8	
25	-	2.0	2.3	3.5	
32	1.8	2.0	3.0	4.5	
40	2.0	2.3	3.7	5.6	
50	2.0	2.9	4.6	6.9	
63	2.5	3.6	5.8	8.7	
Available in Red & Black colour. Standard length 100 meters. Different lengths can be supplied on request.					

uPVC DUCT COUPLER

	Nominal Size (Inch)	Inner Diameter (mm)	Length of Coupler (mm)	Standard packing Quantity
	1 1/2"	48.20	110	200
	2"	60.30	140	155
	3"	88.80	170	60
	4"	110.00	220	24
	4"	114.20	230	24
	6"	168.20	270	10
	8"	218.80	300	10
Available in Grey colour				



uPVC ELECTRICAL CONDUIT FITTINGS & ACCESSORIES



uPVC Electrical Conduit Fitting and Accessories Manufactured in
 Accordance with BSEN 61386/ BS 4607/Gulf STD. 33/1984,
 Oman STD./109/1986
 Available Colour : Black & White

	AVAILABLE SIZES	ITEM CODE	STANDARD PACK
 <p>TERMINAL ONE WAY JUNCTION BOX</p>	19, 20 & 25mm	N19/1,H20/1,H25/1	Inner Ctn - 45,45,30 Outer Ctn - 450, 450, 300
 <p>TWO WAY ANGLE JUNCTION BOX</p>	19, 20 & 25mm	N19/2A,H20/2A,H25/2A	Inner Ctn - 35,35,24 Outer Ctn - 350, 350, 240
 <p>TWO WAY STRAIGHT JUNCTION BOX</p>	19, 20 & 25mm	N19/2S,H20/2S,H25/2S	Inner Ctn - 35,35,25 Outer Ctn - 350, 350, 250
 <p>TEE THREE WAY JUNCTION BOX</p>	19, 20 & 25mm	N19/3,H20/3,H25/3	Inner Ctn - 25,25,20 Outer Ctn - 250, 250, 200
 <p>INTERSECTION FOUR WAY JUNCTION BOX</p>	19, 20 & 25mm	N19/4,H20/4,H25/4	Inner Ctn - 24,24,20 Outer Ctn - 240, 240, 200
 <p>U WAY JUNCTION BOX</p>	19, 20 & 25mm	N19/U,H20/U,H25/U	Inner Ctn - 33,33,30 Outer Ctn - 330, 330, 300
 <p>Y WAY JUNCTION BOX</p>	19, 20 & 25mm	N19/Y,H20/Y,H25/Y	Inner Ctn - 33,33,25 Outer Ctn - 330, 330, 250
 <p>H WAY JUNCTION BOX</p>	19, 20 & 25mm	N19/H,H20/H,H25/H	Inner Ctn - 33,33,25 Outer Ctn - 330, 330, 250
 <p>LOOP IN BOX (BACK ENTRY)</p>	19, 20 & 25mm	N19/L,H20/L,H25/L	Inner Ctn - 40,40,25 Outer Ctn - 400,250



uPVC ELECTRICAL CONDUIT FITTINGS & ACCESSORIES



uPVC Electrical Conduit Fitting and Accessories Manufactured in
Accordance with BSEN 61386/ BS 4607/Gulf STD. 33/1984,
Oman STD./109/1986
Available Colour : Black & White


PRODUCTS	AVAILABLE SIZES	ITEM CODE	STANDARD PACK
 <p>PVC CIRCULAR LID</p>	65mm & 85mm	H65/RL, H85/RL	Inner Ctn - 100, 100 Outer Ctn - 2100, 2100
 <p>COUPLER HEAVY GAUGE</p>	19,20,25,32,38 & 50mm	N19/C, H20/C, H25/C, H32/C, H38/C, H50/C	Inner Ctn - 100,100,50, 75,40,20 Outer Ctn - 2100, 1050, 750,400,200
 <p>EXPANSION COUPLER HEAVY GAUGE</p>	20,25,32,38 & 50mm	H20/EC, H25/EC, H32/EC, H38/EC, H50/EC	Inner Ctn - 50,25,20,10,10 Outer Ctn - 1050,525,200 100,100
 <p>FEMALE THREAD ADAPTOR</p>	19,20,25,32,38 & 50mm	H20/FTA, H25/FTA, H32/FTA, H38/FTA, H50/FTA	Inner Ctn - 100,100,50, 100,60,30 Outer Ctn - 2100,1050, 1000,600,300
 <p>MALE THREAD ADAPTOR</p>	19,20 & 25mm	H19/MTA, H20/MTA, H25/MTA	Inner Ctn - 100,100,50 Outer Ctn - 2100,1050
 <p>SPACER BAR SADDLES</p>	19,20,25,32,38 & 50mm	N19/SB, H20/SB, H25/SB H32/SB, H38/SB, H50/SB	Inner Ctn - 100,100,75,50, 100,25 Outer Ctn - 2100,1575, 1050,1000,525
 <p>PVC SHORT / LONG BENDS</p>	19,20,25,32,38 & 50mm	N19/B, H20/B, H25/B H32/B, H38/B, H50/B	Outer Ctn - 800,500,250, 150,150
 <p>3X3 & 6X3 SURFACE MOUNTING BOX</p>	87mm x 87mm Depth: 35mm 87mm x 147mm Depth: 35mm	H3X3/B, H6X3/B	Inner Ctn - 24,14 Outer Ctn - 240,140
 <p>3X3 & 6X3 SURFACE MOUNTING BOX LID</p>	85X85mm & 87X147mm	H3X3/L, H6X3/L	Inner Ctn - 100,100 Outer Ctn - 2100,1000

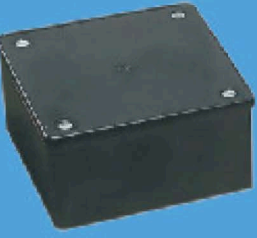



uPVC DUCT BEND

	Nominal Size (Inch)	Outer Diameter (mm)	Bend Angle (Degree)	Length (Meter)	Packing Quantity (Nos)
	1 1/2"	48.20	90	1	10
	2"	60.30	90	1	10
	3"	88.80	90	1	5
	4"	110.00	22.5 / 45 / 90 / 67.5	3 / 2.5	1
	4"	110.00	45 / 90	1	5
	4"	114.20	L Bend 90	1	5
	4"	114.20	90	1	5
	6"	168.20	45 / 90	1	1
	8"	218.80	45 / 90	1	1

Available in Grey colour

 <p>With sleeves & without sleeves</p>	AVAILABLE SIZES(mm)	ITEM CODE	STANDARD PACK
	80 X 80X 40	NPFIP65 80 X 80X 40	90
	100 X 100X 50	NPFIP65 100 X 100X 50	66
	150 X 110X 70	NPFIP65 150 X 110X 70	40
	190 X 140X 70	NPFIP65 190 X 140X 70	24
	240 X 190X 90	NPFIP65 240 X 190X 90	14
	300 X 220X 120	NPFIP65 300 X 220X 120	06
	380 X 300X 120	NPFIP65 380 X 300X 120	04
	460 X 380X 120	NPFIP65 460 X 380X 120	03

	AVAILABLE SIZES(mm)	ITEM CODE	STANDARD PACK
	6x3	HFB 6x3	Outer Ctn-120
	3x3	HFB 3x3	Outer Ctn-220

PRODUCTS	AVAILABLE SIZES	ITEM CODE	STANDARD PACK
 <p>Adaptable Box & Lid Black / White</p>	100 x 100 x 75mm 150 x 100 x 75mm 150 x 150 x 75mm 225 x 225 x 75mm 300 x 300 x 75mm	H4X4/AB H6X4/AB H6X6/AB H9X9/AB H12X12/AB	Outer Ctn - 75 Outer Ctn - 51 Outer Ctn - 34 Outer Ctn - 13 Outer Ctn - 11
 <p>MG Cable gland PG 1 Cable gland Metal Fitting Cable gland</p>	MG Cable gland Available Sizes : 20mm, 25mm Metal fitting Cable gland Available Sizes : 20mm, 25mm PG 1 Cable gland Available Sizes : PG 16, PG 21 Colour : Available in Light grey & Black		Qty: 25 Qty: 25 Qty: 25
 <p>Solvent Cement 500ml 250ml 120ml</p>	A specially formulated heavy bodied, medium setting, PVC solvent cement designed for joining uPVC Pipe and fittings. HOTACE brand can be used widely in different application including electrical conduit, High Pressure Pipe, Gas, Portable water, Sewage and DWV (Drain,Waste and Vent) piping systems.		
 <p>Conduit Bending Spring 20 & 25mm</p>	Widely used for the prevention of wall collapse on PVC conduits during bending. PVC conduit can be bend in cold conditions using the appropriate bending spring. Heat may also be required.		



HOT - DIP GALVANIZED & PRE GALVANIZED STEEL CONDUIT HEAVY GAUGE (Screwed)








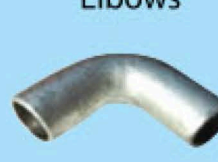



Made in Accordance with Amendment No. 1 to B.S. 4568 : Part 1 : 1970 Screwed and Socketed to B.S. 4568

Size	Outside Diameter				Hot dip Galvanized Class - 4 Wall Thickness & Tolerance		Pre Galvanized Class - 3 Wall Thickness & Tolerance	
	Minimum		Maximum		mm	in.	mm	in.
20	19.7	0.776	20.0	0.787	1.6 ± 0.15	0.063 ± 0.006	1.45 ± 0.15	0.057 ± 0.006
25	24.6	0.969	25.0	0.984	1.6 ± 0.15	0.063 ± 0.006	1.55 ± 0.15	0.061 ± 0.006

HOT - DIP GALVANIZED MALLEABLE FITTINGS

Made in Accordance with BSEN 61386 Class 4 : Part 2 : 1970

PRODUCTS	AVAILABLE SIZE
1 Way Circular Box 	20 mm - 25 mm
2 Way Circular Box 	20 mm - 25 mm
A Way Circular Box 	20 mm - 25 mm
3 Way Circular Box 	20 mm - 25 mm
4 Way Circular Box 	20 mm - 25 mm
U Type Circular Box 	20 mm - 25 mm
Y Type Circular Box 	20 mm - 25 mm
H Type Circular Box 	20 mm - 25 mm
Back Outlet Circular Box 	20 mm - 25 mm
Terminal & Back Outlet Circular Box 	20 mm - 25 mm
Looping in Circular Box 	1 Hole 2 Hole 3 Hole 4 Hole

PRODUCTS	AVAILABLE SIZE
Hook Dome Cover 	65mm
Dome Cover 	20 mm - 25 mm
Distance Saddle 	20 mm - 25 mm
Coupler 	20 mm - 25 mm
Earthing Coupling 	20 mm
Flanged Coupler 	20 mm - 25 mm
Short Nipple 	20 mm - 25 mm
Elbows 	20 mm - 25 mm
Inspection Elbows 	20 mm - 25 mm
Bends (Long) 	20 mm - 25 mm
Inspection Bends 	20 mm - 25 mm



SINGLE GANG BOX

Item code	Description	STANDARD PACK
NPFGI-05	With steel terminal	100 Nos
	With brass washer terminal	
	Without terminal	
	With brass pillar terminal	

Sheet Thickness: 1.1mm

Dimensions : 72 x 72 x 35 mm

Two adjustable and two fixed lugs with fixing centres: 60.3 mm

Conduit entries: 7 x 20 mm and 4 x 25mm knockouts



SINGLE GANG BOX

Item code	Description	STANDARD PACK
NPFGI-05	With steel terminal	100 Nos
	With brass washer terminal	
	Without terminal	
	With brass pillar terminal	

Sheet Thickness: 0.9mm

Dimensions : 72 x 72 x 47 mm

Two fixed and two adjustable lugs with fixing centres: 60.3 mm

Conduit entries: 7 x 20 mm and 4 x 25 mm knockouts



TWIN GANG BOX

Item code	Description	STANDARD PACK
NPFGI-06	With steel terminal	50 Nos
	With brass washer terminal	
	Without terminal	
	With brass pillar terminal	

Sheet Thickness: 1.1 mm

Dimensions : 132 x 72 x 35 mm

One adjustable and one fixed lug with fixing centres: 120.6 mm

Conduit entries: 8 x 20mm and 8 x 25mm knockouts



TWIN GANG BOX

Item code	Description	STANDARD PACK
NPFGI-06	With steel terminal	50 Nos
	With brass washer terminal	
	Without terminal	
	With brass pillar terminal	

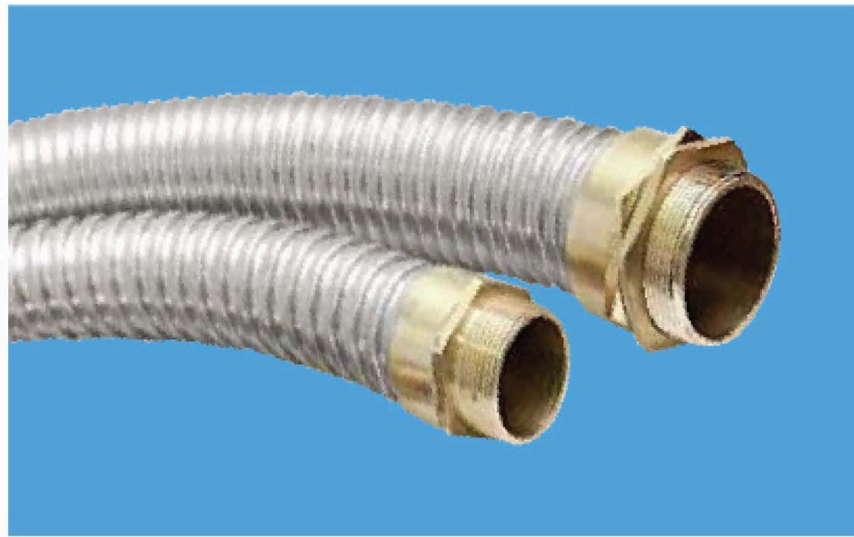
Sheet Thickness: 0.9 mm

Dimensions : 132 x 72 x 47 mm

One adjustable and one fixed lug with fixing centres: 120.6 mm

Conduit entries: 8 x 20mm and 8 x 25mm knockouts

GALVANIZED STEEL FLEXIBLE CONDUIT



Product : Galvanized Steel flexible Conduit
 Construction : Helically Wound Single lock Flexible Conduit the conduit will be uniform in diameter through our its length. The internal surface of the conduit will be free from burrs & sharp edges.
 Self Colour : Zinc / Silver

SPECIFICATION

- a) High mechanical strength
- b) Highly flexible
- c) Temperature range:- 100°C to +300°C
- d) IP rating: IP40 with standard fittings
- e) Inherent low fire hazard product



Dimensions

Item code	Size	Internal Diameter (MM)	External Diameter (MM)	Min. Bend Radius (MM)	Coil Packing (Mtr)	Sheet Thickness (MM)
NPF-BS-212	16 mm	10	13	30	15,20,25,30	0.25
NPF-BS-213	20 mm	17	20	30	15,20,25,30	0.25
NPF-BS-214	25 mm	21	24	43	15,20,25,30	0.25
NPF-BS-215	32 mm	28	32	50	15,20	0.35
NPF-BS-216	40 mm	35	40	57	10,15	0.4
NPF-BS-217	50 mm	45	50	70	10,15	0.5

PVC COATED STEEL FLEXIBLE CONDUIT



Product : PVC Coated Steel Flexible Conduit
 Construction : Helically Wound Single lock Flexible Conduit surface PVC oversheath with thin pvc, The conduit will be uniform in diameter through our its length, The internal surface of the conduit will be free from bures & sharp edges.
 Self Colour : Zinc / Silver
 PVC Coating : Black / grey PVC also available in LFHSUV resistant.

SPECIFICATION :

- a) PVC Coated Steel Flexible Conduit
- b) High mechanical streng
- c) Low smoke density
- d) Temperature range :- 25°C to + 90°C
- e) IP rating : IP40 & IP54



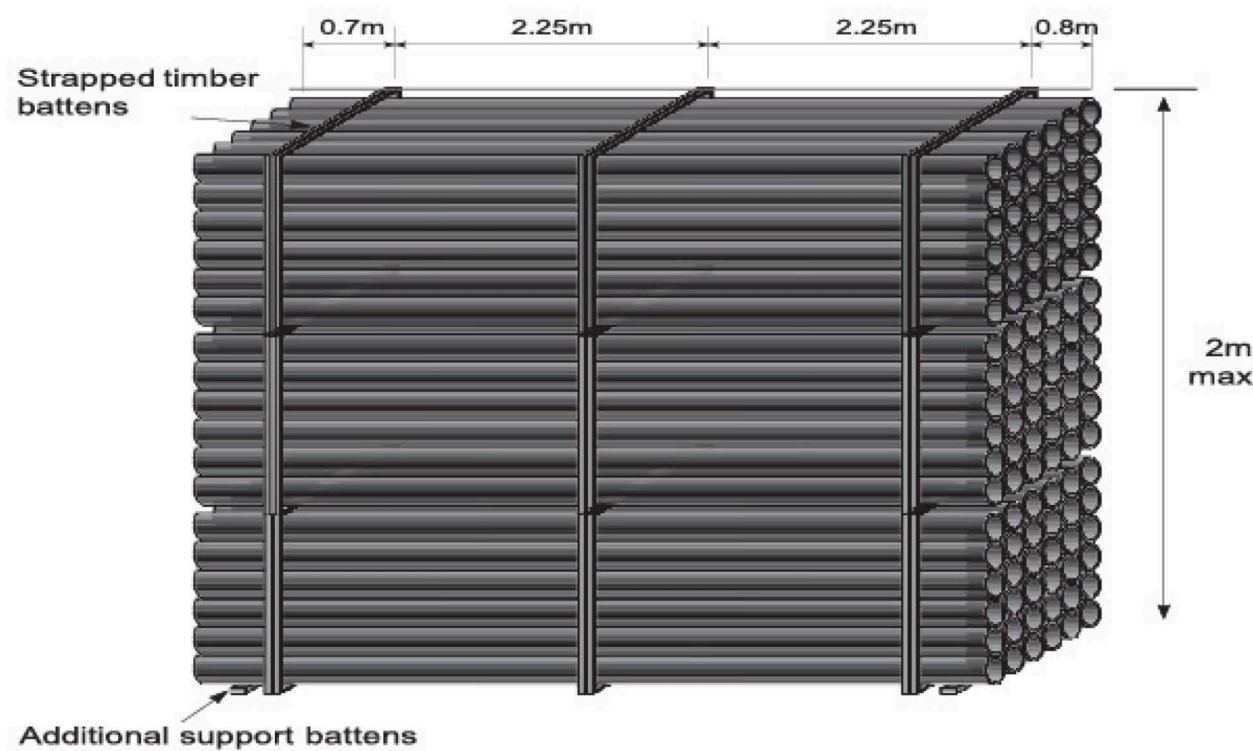
Dimensions

Cat.#	Size	Internal Diameter (MM)	External Diameter (MM)	Min. Bend Radius (MM)	Coil Packing (Mtr)	Sheet Thickness (MM)
NPF-BS-212	16 mm	10	13	30	15,20,25,30	0.25
NPF-BS-213	20 mm	17	20	30	15,20,25,30	0.25
NPF-BS-214	25 mm	21	24	43	15,20,25,30	0.25
NPF-BS-215	32 mm	28	32	50	15,20	0.35
NPF-BS-216	40 mm	35	40	57	10,15	0.4
NPF-BS-217	50 mm	45	50	70	10,15	0.5

UPVC PIPES HANDLING

Handling and Storage

HOTACE PVC pipe is very robust, but still can be damaged by rough handling. Pipes should not be thrown from trucks or dragged over rough surfaces. Plastic piping becomes more susceptible to damage in very cold weather so extra care should be taken when the temperature is low. Since the soundness of any pipe joint depends on the condition of the spigot and the socket, special care should be taken not to allow them to come into contact with sharp edges or protruding nails or made oval by poor storage.



Storage of PVC Pipes

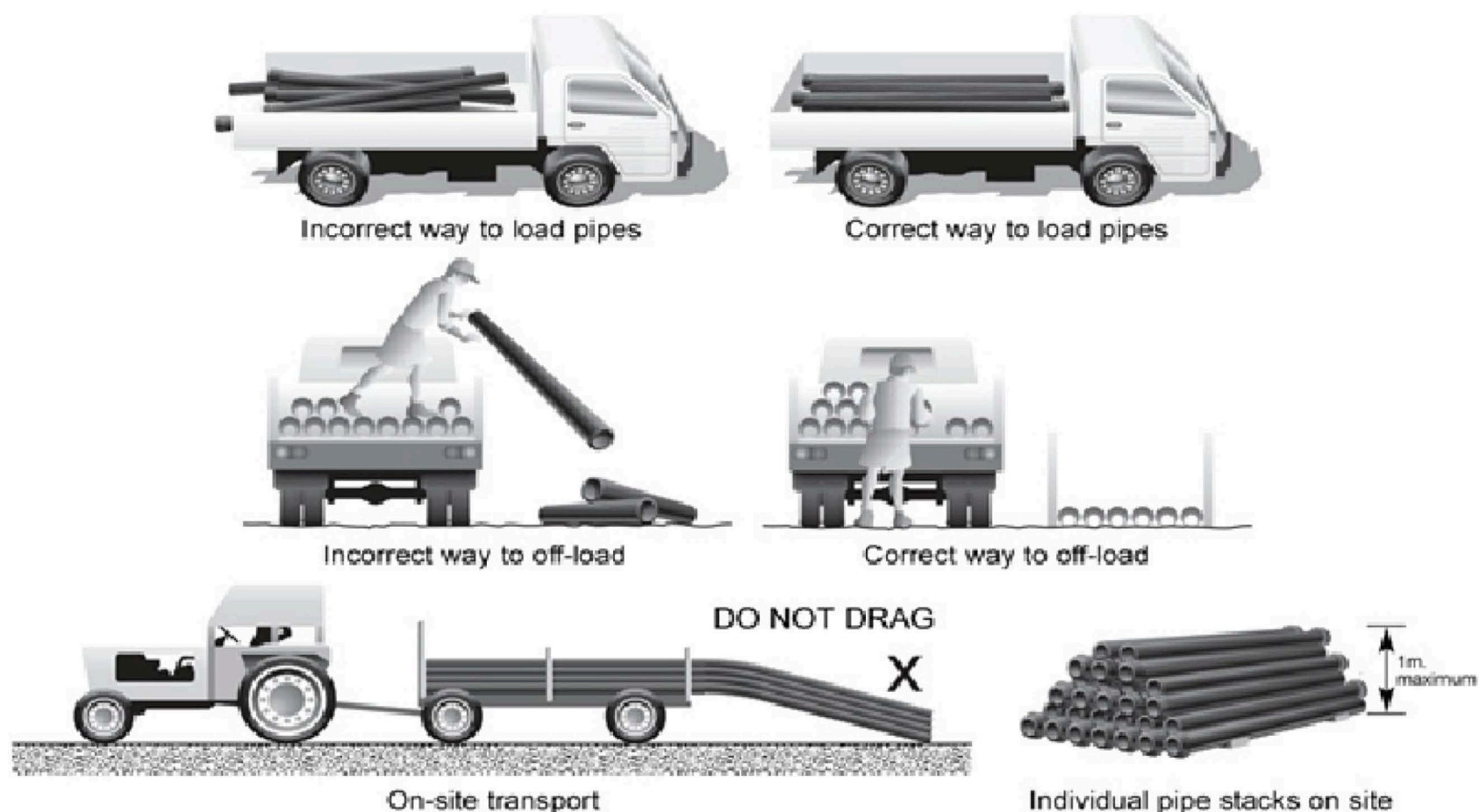
Pipes should be given adequate support at all times. Pipes should be stacked in layers with sockets placed at alternate ends of the stack and with the sockets protruding. Horizontal support of about 75 mm wide should be spaced not more than 1.0m centre-to-centre beneath the pipes to provide even support. Vertical side supports should also be provided at intervals of 2m along rectangular pipe stacks.

For long term storage (longer than 3 months) the maximum free height should not exceed 1.0m. The heaviest pipes should be on the bottom. The crates used for delivery are adequate for long term storage provided additional bearers (approx. 75mm wide) are placed under the pipes between the crate frames.

Transportation of PVC Pipes

While in transit pipes should be well secured and supported. Chains or wire ropes may be used only if suitably padded to protect the pipe from damage. Care should be taken that the pipes are firmly tied so that the sockets cannot rub together. Pipes may be unloaded from vehicles by Forklift, care being taken to ensure that the pipes do not fall onto one another or onto any hard or uneven surface.

Handling and storing on site





CERTIFICATES & APPROVALS



Test Report



Report No: 2381750973 Issue 2 Title: PVC-U Conduits of 7 pages

Client: National Plastic Factory
P.O. Box 37
Muttrah
Muscat
Sultanate of Oman

Authority & date: ESI Quotation Acceptance Form Number BSI 0010242569
Dated 23 March 2010 Equipment Record Number: 0116078

Items tested: PVC Conduit "Hotace" Brand

Specification: ES EN 61386-2:2004 Clauses 7.1, 7.6, 9.1, 10.2, 10.3, 10.4, 10.6, 11.3, 12.2 and 13.1.3
Independent test:
Issue 2 of this Report supersedes all previous issues. The amendments on all pages giving rise to this issue of the Report can be ascertained by contacting the authorizing signatory.

Results: See Summary of Results on page 2

Prepared by: D Meckle *D Meckle* Senior Engineer

Authorized by: G R Essam *G R Essam* Principal Engineer

Issue Date: 4 August 2010

Conditions of issue: This Test Report is issued subject to the conditions stated in current issue of CP9222 'Conditions of Contract for Testing'. The issuing of this Test Report does not indicate any measure of Approval, Certification, Supervision, Control or Servicing by BSI of any product. No extract, advertisement or other use of this Test Report may be published or used to advertise a product without the written consent of the Managing Director, BSI Testing Services, who reserves the exclusive right to agree or restrict all or any of the details of any items or products for which consent may be sought. Test Results contained herein have assessments made on selected samples tested against the Product Standard and associated clauses as detailed on page 1 and 2 of this Test Report. Further information can be made available from the authorizing signatory.

UKAS TESTING 095

BSI, Mayland Avenue, Harlow, Herts, Essex, UK. Telephone: 0800 770000

Declaration of Test Results



BSI hereby declares that the item described below has been tested by BSI and complies with the requirements of

BSI B/M 07386-21:2004 Clauses 7.1, 7.6, 9.1, 10.2, 10.3, 10.4, 10.6, 11.3, 12.2 and 13.1.3

The complete detail of the tests performed and the results are recorded in BSI Test Report No: 2381750973 Issue 2 Dated: 4 August 2010

Description of item tested:
20 off 1 metre lengths of 20mm diameter heavy grade "Hotace" PVC-U conduit
20 off 1 metre lengths of 20mm diameter heavy grade "Hotace" PVC-U conduit
20 off 1 metre lengths of 20mm diameter Medium grade "Hotace" PVC-U conduit
20 off 1 metre lengths of 20mm diameter Medium grade "Hotace" PVC-U conduit

Submitted by: National Plastic Factory
P.O. Box 37
PC.114
Muttrah
Muscat
Sultanate of Oman

Declaration authorised by: *D Meckle*
D Meckle
Title: Senior Engineer
Date: 4 August 2010

Attention is drawn to the conditions upon which this declaration is issued, namely:

- This declaration does not indicate approval or imply any measure of Approval, Certification, Supervision, Control or Servicing by BSI of any product.
- This Declaration applies only to the particular sample tested and to the specific tests carried out as detailed in the Report referred to above.
- The general and specific conditions of the BSI CP9222 apply in all respects. Copies of this notice are available on request.

BSI, Mayland Avenue, Harlow, Herts, Essex, UK. Telephone: 0800 770000

Test Report



Report No: 285005945 Issue 3

Client: National Plastic Factory
PO Box 371 PC.14
Muttrah
Sultanate of Oman

Authority & date: Letter from Client Reference NPF/EB/59099
Dated 9 February 1999

Items tested: Conduit Fittings - Hotace Brand

Specifications: BS 4507 Part 1:1984 (1993)
BS 4507 Part 5:1982 (1984)

Results: See Summary of Results on Page 2

Prepared by: D Meckle *D Meckle*

Authorized by: G R Essam *G R Essam*

Issue Date: 16 March 1999

Conditions of issue: This Test Report is issued subject to the conditions stated in current issue of Test Leaflet 1 'General conditions relating to acceptance of testing'. The results contained herein apply only to the particular sample tested and to the specific tests carried out as detailed in this Test Report. The issuing of this Test Report does not indicate any measure of Approval, Certification, Supervision, Control or Servicing by BSI of any product. No extract, advertisement or other use of this Test Report may be published or used to advertise a product without the written consent of the General Manager, BSI Product Services, who reserves the absolute right to agree or restrict all or any of the details of any items or products for which consent may be sought.

NAMAS TESTING No. 0135

BSI Product Services, Mayland Avenue, Harlow, Herts, Essex, UK. Telephone: 01462 20942

Ministry of Commerce and Industry
Department of Standards and Metrology
Department of Laboratories
Muscat

TEST REPORT OF CONDUIT FITTINGS (PLASTIC)

Lab No: 2010
Sample No: 2010/01/01
Date of Issue: 04/08/2010

Client: National Plastic Factory
P.O. Box 371, Muttrah
PC.14
Sultanate of Oman

Project Manager: Ebrahim Al-Sayid

Approved by: *Mohammed Al-Sayid*

Ministry of Commerce and Industry
Department of Standards and Metrology
Department of Laboratories
Muscat

TEST REPORT OF CONDUIT FITTINGS (PLASTIC)

Lab No: 2010
Sample No: 2010/01/01
Date of Issue: 04/08/2010

Client: National Plastic Factory
P.O. Box 371, Muttrah
PC.14
Sultanate of Oman

Project Manager: Ebrahim Al-Sayid

Approved by: *Mohammed Al-Sayid*

Ministry of Commerce and Industry
Department of Standards and Metrology
Department of Laboratories
Muscat

TEST REPORT OF CONDUIT FITTINGS (PLASTIC)

Lab No: 2010
Sample No: 2010/01/01
Date of Issue: 04/08/2010

Client: National Plastic Factory
P.O. Box 371, Muttrah
PC.14
Sultanate of Oman

Project Manager: Ebrahim Al-Sayid

Approved by: *Mohammed Al-Sayid*

Ministry of Commerce and Industry
Department of Standards and Metrology
Department of Laboratories
Muscat

TEST REPORT OF CONDUIT FITTINGS (PLASTIC)

Lab No: 2010
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PC.14
Sultanate of Oman

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Sultanate of Oman

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Lab No: 2010
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Client: National Plastic Factory
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PC.14
Sultanate of Oman

Project Manager: Ebrahim Al-Sayid

Approved by: *Mohammed Al-Sayid*



CERTIFICATES & APPROVALS



شركة تنمية نفط عمان
Petroleum Development Oman L.L.C.
 www.pdo.com.om

CERTIFICATE OF REGISTRATION - PRODUCT VENDOR
 CERTIFICATE NUMBER: 102780
 First Registered With PDO: [] Date of Issue: 04/08/2010

PETROLEUM DEVELOPMENT OMAN LLC
 CERTIFIES THAT:

Manufacturer: National Plastic Factory
 Country of Origin: Sultanate of Oman
 Local Agent: National Plastic Factory
 Postal Address: P.O. Box 371, PC 114 Muscat - Sultanate of Oman

IS REGISTERED WITH THE COMPANY AS AN APPROVED PRODUCT VENDOR WITH EFFECT FROM THE DATE OF ISSUE OF THE CERTIFICATE FOR THE FOLLOWING PRODUCT GROUP CATEGORIES:

ELECTRICAL PRODUCTS:
 UPVC CONDUIT AND TRUNKING (GL.) - 151 TO 166 & 20 TO 25 FIBER, CONDUITS & DOMESTIC ELECTRIC MATERIAL.

KHALFAN AL BUSAIDI (FPS)
 HEAD BUSINESS DEVELOPMENT

NR: THIS CERTIFICATE IS VALID UNTIL: 20/07/2012
 PLEASE REFER OVERLEAF FOR DETAILS.

Address and registration, our procurement related queries to email: Procurement@PDO.com.om
 Telephone number: (968) 3462314

Sultanate of Oman
 Ministry of Health
 Director General of Engineering Affairs

MH/DGEA/05/1012
 Muscat al Thani 05, 1426
 July 10, 2015

Director of Projects
 Head of Design, Extension & Building Maintenance Section
 Head of Electrical & Generator Section
 M/s. Aeri Architects - Fax: 24799076

After Compliments,
 Re: **Ongoing and Upcoming Projects**

Enclosed herewith please find a copy of letter No.NPFF/MCH/27/1800/05 dated 20.16.2005 with a Catalogue from M/s. National Plastic Factory, seeking certification and approval for their products, which is self-explanatory.

You are hereby requested to strongly consider these local products and any other local products for our ongoing and upcoming projects.

Thanking you,

SHEIKH BIN NAMED AL-BUSAIDI
 DIRECTOR GENERAL

cc: M/s. National Plastic Factory - Fax 2462402
 General M/s. Manager

Sultanate of Oman
 Royal Court Affairs
 The Royal Estates
 The Prince - Muscat

Ref. RECD/MAH/94/3459
 Date: 26 Muharram 1437
 23 November 2015

M/s. National Plastic Factory L.L.C.
 P.O. Box 371,
 Postal Code: 114, Muscat,
 Sultanate of Oman.

Attn: Mr. Bahsh Batah CEO

Dear Sirs,

Approval of HOTACE - uPVC Electrical Accessories & Fittings

Further to your letter ref. NPFF/CA/02/16 dated 20.10.2015 regarding the above subject.

As per your request, we have no objection to add uPVC Electrical Conduits, Fittings and Accessories sizes from 20mm onwards to EUES standards instead of PVC Electrical Conduits sizes from 20mm onwards to EUES standards as stated in our letter ref. RECD/MAH/43/00 dated 15.10.2015.

THIS IS FOR YOUR INFORMATION AND NECESSARY RECORDS PLEASE

Yours faithfully,

Sheikh Bin Ahmed
 C.O. of Architecture & Engineering Design
 Central Design Office

cc: By NRESA (P)
 GENE (MOT) 48/1/26

M/s. National Plastic Factory L.L.C.
 P.O. Box 371, Postal Code 114
 Telephone: (968) 3462314
 Fax: (968) 3462314

مجلس مراجعة الكود التوزيع
 DISTRIBUTION CODE REVIEW PANEL

Product Approval Certificate

Certificate No: DCRP/ACR/2015/13 Issue Date: 22nd July 2015 First Registration: 7th Nov 1999

Distribution Code Review Panel
 Certifies That:

Electrical Product: uPVC Electrical Conduits & Fittings
 Manufacturer: National Plastic Factory L.L.C.
 Country of Origin: Sultanate of Oman
 Local Representative: National Plastic Factory L.L.C.
 Address: P.O. Box: 371, Muscat, P.C. 114
 Muscat / Sultanate of Oman
 Tel: (+ 968) 34611689

Is registered with the panel as an Approved Product with the effect from the date of issuing this certificate

DCRP CHAIRMAN

This Certificate is valid until:
 21st July 2020

Please Refer Overleaf for Approval Conditions

Total Page Number: 31 pages

Sultanate of Oman
 Ministry of Defense
 Engineering Services

Product Approved Certificate

THE FOLLOWING PRODUCT: uPVC Electrical Conduit Pipe & Fitting - Oman

Manufacturer: National Plastic Factory L.L.C.

Address: P.O. Box: 371, Muscat, Sultanate of Oman

Is registered with the panel as an Approved Product with the effect from the date of issuing this certificate

CERTIFICATE OF INSPECTION

Client Name & Address:
 National Plastic Factory
 P.O. Box 371, PC 114, Muscat, Sultanate of Oman

Product Name: FEMALE THREAD ADAPTOR 32mm, 30mm & 25mm
 Manufacturer: NATIONAL PLASTIC FACTORY
 Location: MUSCAT

Physical Dimension: 22mm, 20mm & 20mm
 Measurement Method: Manual & Digital Vernier caliper

PHYSICAL INSPECTOR FOR FEMALE THREAD ADAPTOR 32MM, 30MM & 25MM DIMENSIONS INCLUSIVE OF INNER, OUTER AND HEIGHT WITHIN LIMITS OF TOLERANCE REQUIRED.

IT IS CONCLUDED THAT THE VERIFICATION OF THE INSPECTION IS WITHIN PARAMETERS.

الهيئة العامة للغذاء والدواء
 Qatar General Food & Drug Supervision

Approval Ref.: 09/2006
 Date: 17-12-2011

Certificate Of Approval

Commercial Name:
 M/s. National Plastic Factory, Sultanate Of Oman
 (House Brand uPVC Conduit Fittings And Accessories)

This is to certify that the above mentioned commercial name is approved to be used in The State Of Qatar for the following item:

Sr. No.	Item	Material/Description
01	20 And 25 mm	U1 Way straight Junction Box, U1 Way Angle Junction Box, U2 Way Straight Junction Box, O3 Way Junction Box, O4 Way Junction Box, T Way Junction Box, T Way Junction Box, T Way Junction Box, T Way Junction Box, Teepler, FTA Adapter And Tee, Saddle Clip And Tee And Loop In Box.
Accessories: 30x25 Square Junction Box, 03x03 Square Junction Box L&R, 03x03 Square Junction Box, 03x03 Square Junction Box Lid And PVC Lid.		

Any modifications on the product must be informed to the department to update the above approval.

Manager, Customer Services Department

Head, Electrical Installation Section

EWA
 Electricity Distribution Directorate

531062010/968/14208
 June 8th, 2016

Haji Ali Haji Co. W.L.L.C.
 Attn: Dr. Akil Shaban Baiti, Group General Manager

Dear Sir,

RE: SUBJECT: EQUIPMENTS APPROVAL
 PVC CONDUITS & ACCESSORIES IN HOUSE BRANDS
 MANUFACTURED BY NATIONAL PLASTIC FACTORY L.L.C. SULTANATE OF OMAN

Name of the Project: General

This has reference to your letter dated 8th May 2016, along with documents. We have reviewed the same and the following Hotace brand PVC Conduits & Accessories from manufacturer M/s National Plastic Factory L.L.C., Sultanate of Oman are considered as approved:

- Hotace UPVC Electrical conduits 20 mm to 50mm (Light /Medium & Heavy Gauge).
- PVC Fittings for the above.

The above approval is subject to the Bidding:-

- The approval for the pertinent item is valid for five years only.
- It is the responsibility of the local agent to ensure the standards and specifications of the above approved article.
- Any alteration or changes to the specifications of the above item will invalidate this approval.
- This approval does not entitle the contractor to hold Electricity Distribution Directorate responsible in the event of non-performance of the item.

Yours sincerely,

Ebrahim Hamed Al Mubarak,
 Chief, Planning & Materials

اللجنة الأولمبية القطرية
 Qatar National Olympic Committee

Ref: 807/99/QNOC/2015/L/001
 Date: 24-04-2015

Attn: Mr. H. Bayeh Khan
 Technical Plastic Factory (M/s)
 Muscat, Sultanate of Oman

Dear Sir,

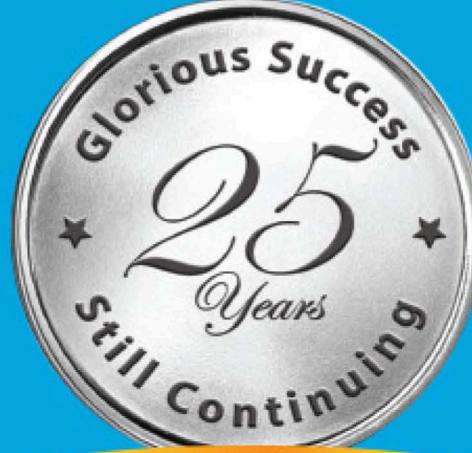
QNOC Pre-Qualification of Suppliers for Sports Materials, Accessories and Equipments

Following evaluation of your application, please be informed that your company is now included in the "List of Approved Suppliers" for QNOC projects. A Checklist and Copy of the said pre-qualification process together with approved list will soon be provided.

It should be noted however that your company's inclusion in QNOC list does not automatically mean the QNOC projects' specifications will meet QNOC approval. Specifications will still be required to provide detailed data, etc, and subsequent project selection and approval processes.

Regards,

YASMIN AHMED ALI
 THE DIRECTOR
 SPORTS FACILITIES AND INSTALLATION DEPARTMENT



Manufacturer & supplier of 'HOTACE' Brand product ranges :

- uPVC Electrical Conduit & Accessories
- uPVC High Pressure Pipes & Fittings
- uPVC Drainage, Sewerage Pipes & Fittings
- uPVC Soil & Ventilation Pipes & Fittings
- PPR Pipes & Fittings
- HDPE Pipes & Fittings
- GI Conduit & Accessories
- Plastic Packaging for FMCG, Industrial & House Hold Products

The above products are approved by all local government authorities & internationally reputed institutions like Omani STD, Gulf STD, BSEN, ASTM, DIN etc.



H.O. / Works

NATIONAL PLASTIC FACTORY L.L.C (OMAN- U.A.E- EGYPT)
P.O. Box No. 371, Postal Code 114
Muttrah, Muscat - Sultanate of Oman
Tel.: +968 24811689/24810492
Fax: +968 24810078
Email: info@nationalplasticoman.com
Website: www.nationalplasticoman.com

Branch/Works

NATIONAL PLASTIC FACTORY L.L.C (OMAN- U.A.E- EGYPT)
P.O. Box No. 4224, Al Hayl Industrial Area
Fujairah, U.A.E.
Tel.: +971-9-2243281
Fax: +971-9-2225687
Email: info@nationalplasticoman.com
Website: www.nationalplasticoman.com



OMAN / UAE / EGYPT

مكتب الرئيسي / أعمال :

المصنع الوطني للبلاستيك ش.م.م (عمان، الإمارات، مصر)
ص.ب.: ٣٧١، الرمز البريدي: ١١٤
مطرح، مسقط - سلطنة عمان
هاتف: ٢٤٨١١٦٨٩ / ٢٤٨١٠٤٩٢ - ٢٤٨١٠٤٩٢
فاكس: ٢٤٨١٠٠٧٨ - ٢٤٨١٠٠٧٨

البريد الإلكتروني: info@nationalplasticoman.com
موقع: www.nationalplasticoman.com

فرع / أعمال :

المصنع الوطني للبلاستيك ش.م.م (عمان، الإمارات، مصر)
منطقة الخيل الصناعية
فجيرة - الإمارات ص.ب.: ٤٢٢٤
هاتف: ٢٢٤٣٢٨١ - ٩ - ٩٧١
فاكس: ٢٢٢٥٦٨٧ - ٩ - ٩٧١

Email: info@nationalplasticoman.com
Website: www.nationalplasticoman.com