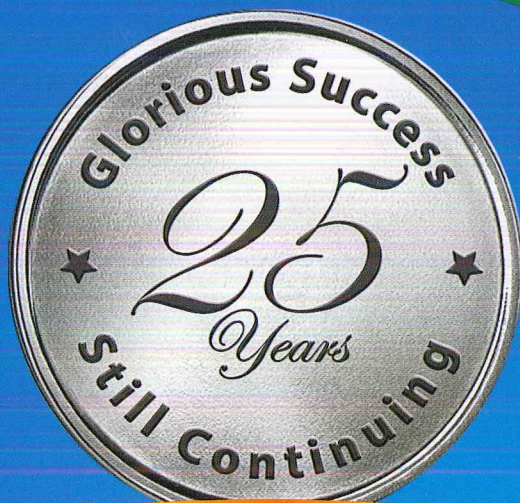
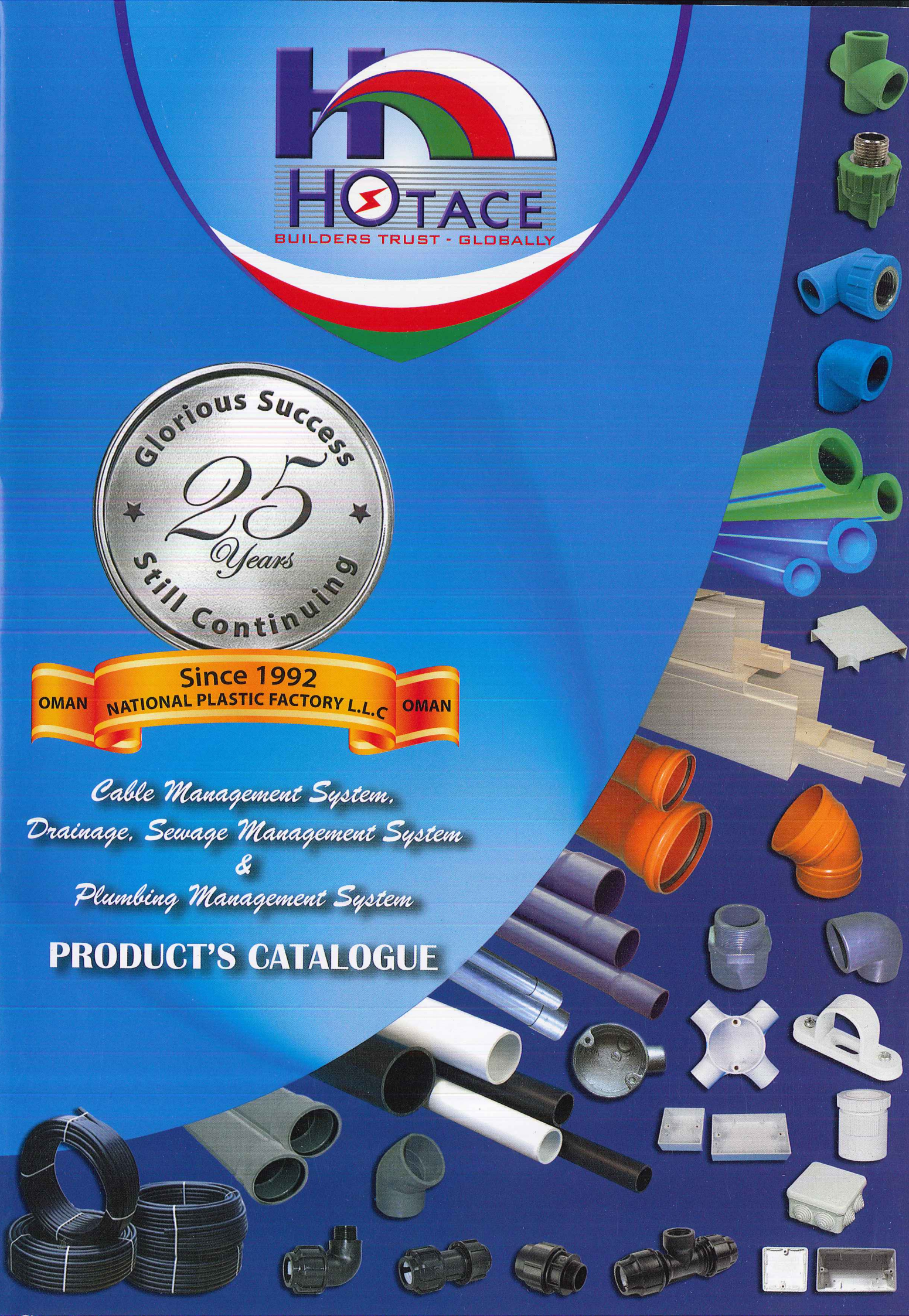




*Cable Management System,
Drainage, Sewage Management System
&
Plumbing Management System*

PRODUCT'S CATALOGUE



uPVC ELECTRICAL CONDUITS

Product complies with BS STD. 6099/1982 & BS 4607
BSEN 50086/BSEN-61386-21 Omani Standard 109/1986 Gulf Standard -33/1984

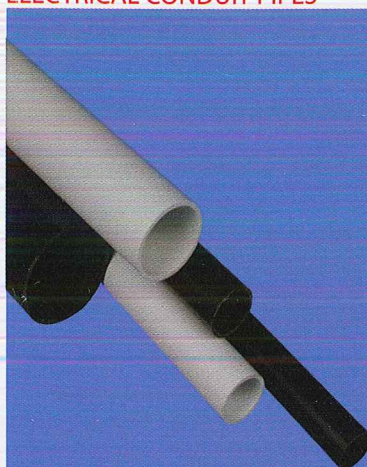


Nominal Sizes in MM	Product Code	LIGHT GAUGE		MEDIUM GAUGE		HEAVY GAUGE	
		Min. Inside Diameter (mm)	Wall Thickness (mm)	Min. Inside Thickness (mm)	Wall Thickness (mm)	Min. Inside Diameter (mm)	Wall Thickness (mm)
20	HCP 20	17.6	1.2	16.8	1.6	16.4	1.8
25	HCP 25	22.2	1.4	21.4	1.8	21.2	1.9
32	HCP 32	29.0	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 and gauge requirement while placing the order.

uPVC FRLS (Fire Retardent 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	Standard Length
		Min. Inside Diameter (mm)	Wall Thickness (mm)	Min. Inside Diameter (mm)	Wall Thickness (mm)		
20	HFRLSCP 20	16.4	1.8	15.8	2.1	50	03
25	HFRLSCP 25	21.2	1.9	20.6	2.2	25	03
32	HFRLSCP 32	27.0	2.5	26.6	2.7	25	03
38	HFRLSCP 38	33.0	2.5	32.4	2.8	25	03
50	HFRLSCP 50	43.6	3.2	43.2	3.4	10	03

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

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

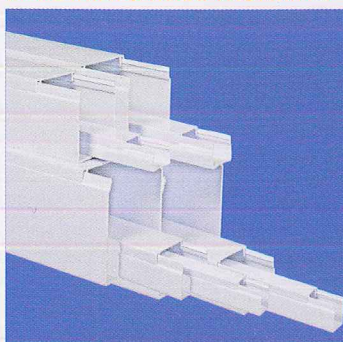
Specific Gravity : 1.4 Breakdown Voltage KV/mm : 18

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

Oxygen index : 35%

uPVC MINI & MAXI TRUNKING

Product complies with BS STD. 4678 Part 4
BSEN 50086- 2-2/3341 BSEN-50085 Omani Standard 109/1986 Gulf Standard -33/1984



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

Available with Adhesive Sticker for 16X16, 25X16, 38X25 mm

uPVC DUCTS FOR ELECTRICAL / TELEPHONE CABLES



Duct No	As per BPO Specification		
	Mean Outside Diameter		WallThickness
	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 Omantel Standard Specifications			
50	49.7	50.00	108
100	109.8	110.2	3.2

uPVC HIGH PRESSURE PIPES BS STD.

Product complies with BS STD. 3505/1986
Omani Standard 85/1985



Nominal Sizes	Product Code	Outside Diameter (mm)		WallThickness BS 3505/1986							
				Class B 6.0 bar (60m head of water)		Class C 9.0 bar (90m head of water)		Class D 12.0 bar (120m head of water)		Class E 15.0 bar (150m head of water)	
				OS 85/1985							
				Class 1 6.12 kgf/cm2		Class 2 9.19 kgf/cm2		Class 3 12.25 kgf/cm2		Class 4 15.3 kgf/cm2	
Inches		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1/2	HPP1/2	21.2	21.5	-----	-----	-----	-----	-----	-----	1.7	2.1
3/4	HPP3/4	26.6	26.9	-----	-----	-----	-----	-----	-----	1.9	2.5
1	HPP1	33.4	33.7	-----	-----	-----	-----	-----	-----	2.2	2.7
1¼	HPP1¼	42.1	42.4	-----	-----	-----	-----	2.2	2.7	2.7	3.2
1½	HPP1½	48.1	48.4	-----	-----	-----	-----	2.5	3.0	3.1	3.7
2	HPP2	60.2	60.5	-----	-----	2.5	3.0	3.1	3.7	3.9	4.5
3	HPP3	88.7	89.1	2.9	3.4	3.5	4.1	4.6	5.3	5.7	6.6
4	HPP4	114.1	114.5	3.4	4.0	4.5	5.2	6.0	6.9	7.3	8.4
6	HPP6	168.0	168.5	4.5	5.2	6.6	7.6	8.8	10.2	10.8	12.5
8	HPP8	218.8	219.4	-----	-----	7.8	9.0	10.3	11.9	12.6	14.5
10	HPP10	272.6	273.4	-----	-----	9.7	11.2	12.8	14.8	15.7	18.1
12	HPP12	323.4	323.4	-----	-----	11.5	13.3	15.2	17.5	18.7	21.6

uPVC HIGH PRESSURE PIPES ASTM STD.

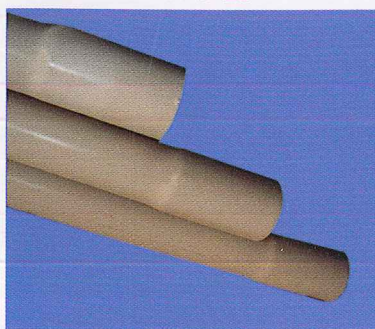
Product complies with ASTM D 1785 Schedule 40 & 80
Available colour Grey



Nominal Size	Outside Diameter	Tolerance	ASTM 1785 Schedule 40		ASTM 1785 Schedule 80	
			Min. Wall thickness	Tolerance	Min. Wall thickness	Tolerance
Inch	mm	mm	mm	mm	mm	mm
1/2	21.34	±0.10	2.77	+0.51	3.33	+0.51
3/4	26.67	±0.10	2.87	+0.51	3.91	+0.51
1	33.40	±0.13	3.38	+0.51	4.55	+0.53
1 1/4	42.16	±0.13	3.56	+0.51	4.85	+0.58
1 1/2	48.26	±0.15	3.68	+0.51	5.08	+0.61
2	60.32	±0.15	3.91	+0.51	5.54	+0.66
2 1/2	73.02	±0.18	5.16	+0.61	7.01	+0.84
3	88.90	±0.20	5.49	+0.66	7.62	+0.91
3 1/2	101.60	±0.20	5.74	+0.68	8.08	+0.96
4	114.30	±0.23	6.02	+0.71	8.56	+1.02
5	141.30	±0.25	6.55	+0.79	9.52	+1.14
6	168.28	±0.28	7.11	+0.86	10.97	+1.32
8	219.08	±0.38	8.18	+0.99	12.70	+1.52
10	273.05	±0.38	9.27	+1.12	15.06	+1.80
12	323.85	±0.38	10.31	+1.24	17.45	+2.08

uPVC WASTE PIPES

Product complies with BS STD. 5255/1976



Nominal Size		Mean Outside Diameter (mm)		WALLTHICKNESS (mm)	
				BS 5255	
Inch	mm	MIN.	MAX.	MIN.	MAX.
1 1/4"	32	36.15	36.45	1.8	2.2
1 1/2"	40	42.75	43.05	1.9	2.3
2"	50	55.75	56.05	2.0	2.4

Above Ground uPVC SOIL AND VENTILATION PIPE

Product complies with BS STD. 4514/1983



Nominal Size		Mean Outside Diameter (mm)		WALLTHICKNESS (mm)	
				BS 4514	
Inch	mm	MIN.	MAX.	MIN.	MAX.
3"	82	82.4	82.8	3.2	3.8
4"	110	110.0	110.4	3.2	3.8
6"	160	160.0	160.6	3.2	3.8

uPVC NON STANDARD DRAINAGE & SEWERAGE PIPE



Nominal Size		Mean Outside Diameter (mm)		Wall thickness (mm)	
Inch	mm	MIN.	MAX.	MIN.	MAX.
3"	82.5	110.0	110.4	1.70	1.90
4"	110	110.0	110.4	1.70	1.90
6"	160	160.0	160.6	1.90	2.10
8"	200	200.0	200.6	2.70	2.90

uPVC UNDER GROUND DRAINAGE/ SEWERAGE PIPES

Product complies with BS STD. 4660 & BS 5481



Nominal Size		Mean Outside Diameter (mm)		WALLTHICKNESS (mm)			
				BS 4660		BS 5481	
Inch	mm	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
4"	110	110.0	110.4	3.2	3.8	-	-
6"	160	160.0	160.6	4.1	4.8	-	-
8"	200	200.0	200.6	-	-	4.9	5.6

uPVC GRAVITY SEWER PIPES

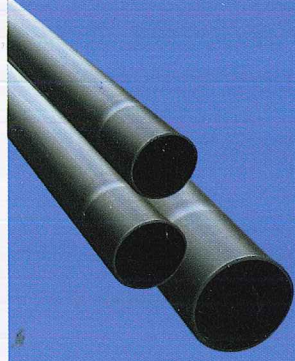
Product complies with BSEN STD. 1401 - 1



Nominal Size		Mean Outside Diameter (mm)		WALLTHICKNESS (mm)					
				SN2, SDR 51		SN4, SDR 41		SN8, SDR 34	
Inch	mm	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
4"	110	110.0	110.3	-	-	3.2	3.8	3.2	3.8
6"	160	160.0	160.4	3.2	3.8	4.0	4.6	4.7	5.4
8"	200	200.0	200.5	3.9	4.5	4.9	5.6	5.9	6.7
10"	250	250.0	251.0	4.9	5.6	6.2	7.1	7.3	8.3
12"	315	315.0	316.0	6.2	7.1	7.7	8.7	9.2	10.4
15"	400	400.0	401.0	7.0	8.9	9.8	11.0	11.7	13.1

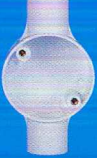
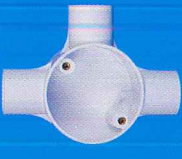
Available with rubber ring & plain socket

uPVC 'O' CLASS PIPES FOR INDUSTRIAL USES

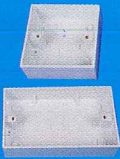
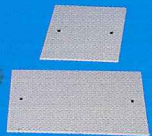


Nominal Size			MINIMUM WALL THICKNESS (MM)					
			Non Pressure		Industrial Use			
			Class O		Class B		Class C	
	min(mm)	max(mm)	MIN.	MAX.	MIN.	MIN.	MAX.	MAX.
11/2	48.1	48.4	1.8	2.2	-	-	-	-
2	60.2	60.5	1.8	2.2	-	-	2.5	3.0
3	88.7	89.1	1.8	2.2	2.9	3.4	3.5	4.1
4	114.1	114.5	2.3	2.8	3.4	4.0	4.5	5.2
6	168.0	168.5	3.1	3.7	4.5	5.2	6.6	7.6
8	218.8	219.4	3.1	3.7	5.3	6.1	7.8	9.0

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

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

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

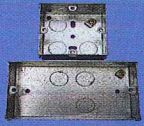
PRODUCTS	AVAILABLE SIZES	ITEM CODE	STANDARD PACK
 PVC CIRCULAR LID (85mm)	65mm & 85mm	H65/RL, H85/RL	Inner - 100,100 Outer Ctn- 2100,2100
 COUPLER HEAVY GAUGE	19, 20, 25, 32, 38, 50mm	N19/C, H20/C, H25/C, H32/C, H38/C, H50/C	Inner -100,100, 50, 75, 40, 20 Outer Ctn-2100, 1050, 750, 400, 200
 EXPANSION COUPLER HEAVY GAUGE	20, 25, 32, 38, 50mm	H20/EC, H25/EC, H32/EC, H38/EC, H50/EC	Inner - 50, 25, 20, 10, 10 Outer Ctn -1050, 525, 200, 100, 100
 FEMALE THREAD ADAPTOR	19, 20, 25, 32, 38, 50mm	H20/FTA, H25/FTA, H32/FTA, H38/FTA, H50/FTA	Inner -100,100,50,100,60,30 Outer Ctn- 2100, 1050, 1000,600,300
 MALE THREAD ADAPTOR	19, 20, 25mm	H19/MTA, H20/MTA, H25/MTA	Inner -100,100,50 Outer Ctn- 2100, 1050,
 SPACER BAR SADDLES	19, 20, 25, 32, 38, 50mm	N19/SB, H20/SB, H25/SB H32/SB, H38/SB, H50/SB	Inner -100,100,75,50,100,25 Outer Ctn- 2100, 1575, 1050,1000,525
 PVC NORMAL BENDS	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
 3X3 & 6X3 SURFACE MOUNTING BOX	87x87mm, 87x147mm	H3X3/B, H6X3/B	Inner - 24,14 Outer Ctn- 240, 140
 3X3 & 6X3 SURFACE MOUNTING BOX LID	85x85mm, 87x146mm	H3X3/L, H6X3/L	Inner - 100,100 Outer Ctn- 2100, 1000

 PVC CORRUGATED FLEXIBLE CONDUIT	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

 With sleeves & without sleeves	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

 uPVC FLUSH BOX WITH ADJUSTABLE LUGS	AVAILABLE SIZES(mm)	ITEM CODE	STANDARD PACK
	6x3	HFB 6x3	Outer Ctn-120
	3x3	HFB 3x3	Outer Ctn-220

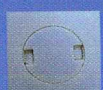
PRODUCTS	AVAILABLE SIZES	ITEM CODE	STANDARD PACK
 Adaptable Box & Lid Black / White	100 x 100 x 75mm	H4X4/AB	Outer Ctn - 75
	150 x 100 x 75mm	H6X4/AB	Outer Ctn - 51
	150 x 150 x 75mm	H6X6/AB	Outer Ctn - 34
	225 x 225 x 75mm	H9X9/AB	Outer Ctn - 13
	300 x 300 x 75mm	H12X12/AB	Outer Ctn - 11

 GI Conduit Boxes 3" X 3" & 3" X 6"	3" x 3" x 35/47mm (Deep)	NPFGI-05	100 Nos
	3" x 6" x 35/47mm (Deep)	NPFGI-06	50 Nos
	Available Thickness in 0.8, 0.9, 1.1mm all sizes Available in different sizes of knockouts		

 Solvent Cement 500ml 250ml 120ml	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 include electrical conduit, Hi Pressure Pipe, Gas, Potable wate, Seweage and DWV (Drain,Waste and Vent) piping systems.		
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 Conduit Bending Spring 19,20,25mm	Widely used for the prevention of wall collapse on PVC conduits during bending. PVC conduits during bending. PVC conduit can be bend in cold conditions using the appropriate bending spring. Heat may also be required.		
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HEAVY DUTY CONSTRUCTION  BUCKET with Handle all colours	Capacity 12kg	CB	Outer Ctn - 60
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6"X6" PVC GRATING LIDS    Grill Type Closing Type Double Lid	150 x 150mm	FLT/T2	Outer Ctn - 180
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PPR PIPES

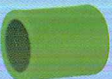
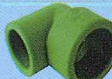
Product complies with DIN 8077 & 8078 STD.
Available colour Green & Blue



Size In mm	Equivalent in Inches	Tolerance mm	Thickness	Tolerance of thickness	Inside Diameter mm
20	1/2"	+0.3	3.4	+0.5	13.2
25	3/4"	+0.3	4.2	+0.6	16.6
32	1"	+0.3	5.4	+0.7	21.2
40	1 1/4"	+0.4	6.7	+0.8	26.6
50	1 1/2"	+0.5	8.4	+1	33.2
63	2"	+0.6	10.5	+1.2	42.0
75	2 1/2"	+0.7	12.5	+1.4	50
90	3"	0.9	15	+1.6	60
110	4"	+1	18.4	+2.1	73.2
125	5"	+1.2	20.9	+2.3	83.2

PPR FITTING FOR HOT & COLD WATER

Product complies with DIN 8077 & 8078 STD. Available colour Green & Blue

PRODUCTS	AVAILABLE SIZE
PN25  Coupling	20mm - 120mm
PN25  Elbow 90°	20mm - 110mm
PN25  Tee	20mm - 110mm
PN25  Male&Female Reducer	25 X 20mm to 110 X 90mm
PN25  Reducing Elbow	25 X 20mm to 32 X 25mm
PN25  Ball valve	20mm - 63mm
PN25  Long bypass Bend	20mm - 32mm
PN25  Reducing Tee	25 X 20 X 25mm to 63 X 50 X 63mm
PN25  End cap	20mm - 110mm
PN25  Plastic union	20mm - 63mm
PN25  Cross Tee	20mm - 63mm
PN25  45° elbow	20mm - 110mm
PN25  Female thread Union	20mm - 63mm
PN25  Male thread Union	20mm - 63mm

PRODUCTS	AVAILABLE SIZE
PN25  Elbow male Hexagonal	32 X 1"
PN25  Elbow Female Hexagonal	20 X 1/2" to 32 X 3/4"
PN25  Male Adaptor Hexagonal	32 X 1" to 90 X 3"
PN25  Female Adaptor Hexagonal	32 X 1" to 90 X 3"
PN25  Male thread Coupling	20 X 1/2" to 110 X 4"
PN25  Female thread Coupling	20 X 1/2" to 110 X 4"
PN25  Female thread Tee	20 X 1/2" to 32 X 1"
PN25  Male thread Tee	20 X 1/2" to 32 X 1"
PN25  Female thread Elbow	20 X 1/2" to 32 X 1"
PN25  Male thread Elbow	20 X 1/2" to 32 X 1"
PN25  Low footed Pipe Clamp	20mm - 50mm
PN25  Stop valve	20mm - 75mm
PN25  New Stop valve	20mm - 32mm
PN25  Welding Machine	20mm - 110mm

Products Complies with following standards

BS EN 1452-3; Class-E; PN-15

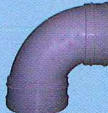
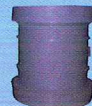
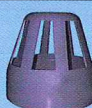
uPVC HEAVY GAUGE HIGH PRESSURE FITTINGS

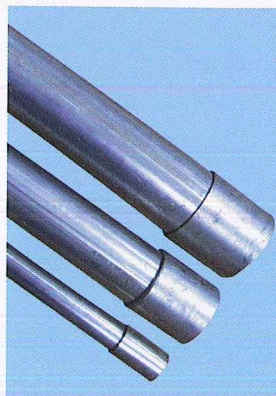
PRODUCT DESCRIPTION	AVAILABLE SIZES IN INCHES	PRODUCT PHOTO
Tee 90° Plain Female Tee two end plain centre end BSP thread	1/2", 3/4", 1", 1 1/2", 2"	
Elbow 90° Elbow 90° with BSP thread	1/2", 3/4", 1", 1 1/2", 2"	
Elbow 45 Plain	1/2", 3/4", 1", 1 1/2", 2"	
End cap	1/2", 3/4", 1", 1 1/2", 2"	
Coupler	1/2", 3/4", 1", 1 1/2", 2"	
MTA	1/2", 3/4", 1", 1 1/2", 2"	
FTA	1/2", 3/4", 1", 1 1/2", 2"	
Reducer Bush	3/4" X 1/2" - 2" X 1" - 1 1/2"	

ABOVE GROUND uPVC SOIL & VENTILATION FITTINGS - GREY COLOUR
UNDER GROUND uPVC DRAINAGE FITTINGS - GOLDEN BROWN COLOUR

Product complies with BS STD. BS 4660

PRODUCTS	Available Size in Inches
 90° Elbow	3", 4", 6", 8"
 Skew Cross	3", 4", 6", 8"
 45° Elbow	3", 4", 6", 8"
 Skew Tee	3", 4", 6", 8"
 Coupler	3", 4", 6", 8"
 Reducing Downstream Tee	3", 4", 6", 8"
 Clean Out	3", 4", 6", 8"
 Door Elbow	3", 4", 6", 8"
 Downstream Tee	3", 4", 6", 8"
 Door Tee	3", 4", 6", 8"
 Plain Cross	3", 4", 6", 8"
 Vent Cowl	3", 4", 6", 8"
 P Trap	-----
 Floor Trap Type 11	-----

PRODUCTS	Available Size in Inches
 90° Elbow	3", 4", 6", 8"
 Skew Cross	3", 4", 6", 8"
 45° Elbow	3", 4", 6", 8"
 Skew Tee	3", 4", 6", 8"
 Coupler	3", 4", 6", 8"
 Reducing Downstream Tee	3", 4", 6", 8"
 Clean Out	3", 4", 6", 8"
 Door Elbow	3", 4", 6", 8"
 Downstream Tee	3", 4", 6", 8"
 Door Tee	3", 4", 6", 8"
 Plain Cross	3", 4", 6", 8"
 Vent Cowl	3", 4", 6", 8"
 Gully Trap	-----
 Floor Trap	-----



HOT - DIP 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

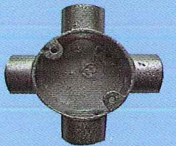
New Innovation Product

Size	Outside Diameter				Wall Thickness & plus or minus		Calculated Weight with Coupler		
	Minimum		Maximum						
mm	mm	in.	mm	in.	mm	in.	lb/ft	kg/ft	kg/m
20	19.7	0.776	20.0	0.787	1.6 ± 0.15	0.063 ± 0.006	0.500	0.226	0.744
25	24.6	0.969	25.0	0.984	1.6 ± 0.15	0.063 ± 0.006	0.638	0.289	0.950
32	31.6	1.244	32.0	1.260	1.6 ± 0.15	0.063 ± 0.006	0.833	0.378	1.24

HOT - DIP GALVANIZED FITTINGS

Made in Accordance with BS 4568

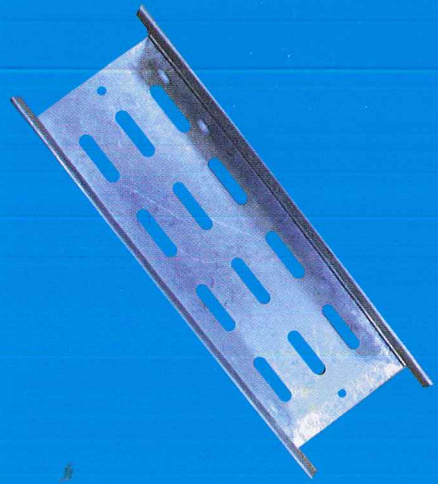
Class 4 : Part 2 : 1970

Product	Size	Product	Size
 Terminal One way	20mm, 25mm 32mm	 Angle Two Ways	20mm, 25mm 32mm
 Through Two ways	20mm, 25mm 32mm	 Coupling	20mm, 25mm 32mm
 Tee Three Ways	20mm, 25mm 32mm	 Bend	20mm, 25mm 32mm
 Intersection Four Ways	20mm, 25mm 32mm	 Bar Saddle	20mm, 25mm 32mm

ENERGY - SAVING CABLE TRAY

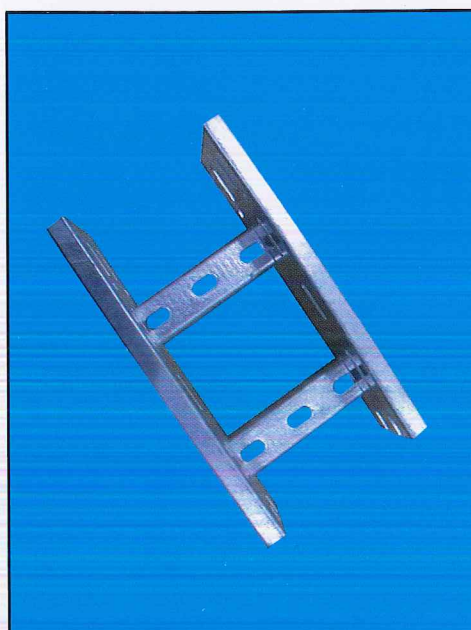
Made in Accordance with BS EN 10142 & 10143

Pre-galvanized steel with powder coating

	Height (mm)	Width (mm)	Thickness (mm)
	50	100 - 600	0.6 - 1.5
	60	100 - 600	0.6 - 1.5
	100	150 - 600	0.8 - 2.0
	125	150 - 1000	0.8 - 2.0
	150	150 - 1000	1.0 - 2.5
	200	200 - 1000	1.2 - 2.5
	300	300 - 1000	1.5 - 2.5

CABLE LADDER

Made in Accordance with
 Pre-galvanized steel (BS EN 10142 & 10143)
 Hot dipped galvanized (BS EN 1461:2009)
 Powder Coating



Height (mm)	Width (mm)	Thickness (mm)
50	100 - 600	0.8 - 1.5
75	100 - 600	0.8 - 1.5
100	150 - 600	0.8 - 2.0
125	150 - 900	0.8 - 2.0
150	150 - 900	1.0 - 2.5
200	200 - 1000	1.2 - 2.5
300	300 - 1000	1.5 - 2.5

PERFORATED CABLE TRAY

Made in Accordance with
 Pre-galvanized steel (BS EN 10142 & 10143)
 Hot dipped galvanized (BS EN 1461:2009)
 Powder Coating



Range	Height (mm)	Width (mm)	Thickness (mm)
Light Duty Cable Tray	15 - 20	50 - 900	0.8 - 2.0
Medium Duty Cable Tray	25	50 - 900	1.0 - 2.0
Heavy Duty Cable Tray	≥35	50 - 900	1.0 - 2.0

SUPPORT CHANNEL

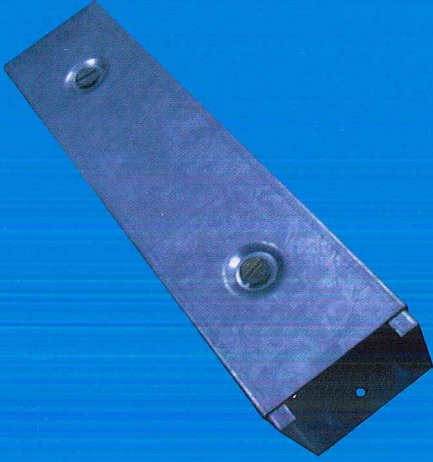
Pre & Hot dipped Galvanized



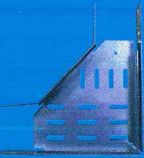
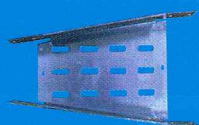
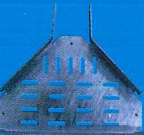
Size (mm)	Thickness (mm)
27 X 15	1.2 - 2.5
41 X 21	1.2 - 2.5
41 X 41	1.5 - 2.5

CABLE TRUNKING

Made in Accordance with
 Pre-galvanized steel (BS EN 10142 & 10143)
 Hot dipped galvanized (BS EN 1461:2009)
 Powder Coating

	Height (mm)	Width (mm)	Thickness (mm)
	50	100 - 600	0.6 - 1.5
	60	100 - 600	0.6 - 1.5
	100	150 - 600	0.8 - 2.0
	125	150 - 1000	0.8 - 2.0
	150	150 - 1000	1.0 - 2.5
	200	200 - 1000	1.2 - 2.5
	300	300 - 1000	1.5 - 2.5

CABLE TRAY ACCESSORIES

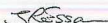
	Height (mm) 50 - 300		Height (mm) 50 - 300		Height (mm) 50 - 300
	Width (mm) 100 - 1000		Width (mm) 100 - 1000		Width (mm) 100 - 1000
	Height (mm) 50 - 300		Height (mm) 50 - 300		Height (mm) 50 - 300
	Width (mm) 100 - 1000		Width (mm) 100 - 1000		Width (mm) 100 - 1000

CONSTRUCTION POLYTHENE ROLL SHEET

	Size	Available Gauges
	2mtr X 25mtr	100, 200, 500, 1000 gauge
	3.6mtr X 11mtr	200, 400, 500, 800 gauge
	4mtr X 25mtr	250, 500, 1000 gauge

Test Report



Report No	2381/5700739 Issue 2		This Report consists of 7 pages
Client	National Plastic Factory P.O. Box 371 PC-114 Multrah Muscat Sultanate of Oman		
Authority & date	BSI Quotation Acceptance Form Number BSI 000024569 Dated 23 March 2010 Equipment Record Number 10116078		
Items tested	PVC Conduit "Hotace" Brand		
Specification	BS EN 61386-21:2004 Clauses 7.1, 7.6, 9.1, 10.2, 10.3, 10.4, 10.6, 11.3, 12.2 and 13.1.3 Independent test		
	Issue 2 of this Report supersedes all previous issuans. The amendments on all pages giving rise to this issue of the Report can be ascertained by contacting the authoring signatory		
Results	See Summary of Results on page 2		
Prepared by	D Mackie		Senior Engineer
Authorized by	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 CP0122 "Conditions of Contract for Testing". The issuing of this Test Report does not indicate any measure of abridgement or abstraction from a 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 absolute right to agree or reject all or any of the details of any item or publicity for which consent may be sought. Test Results contained herein have no correspondence on selected samples tested against the Product Declaration and associated clauses as detailed on page 1 and 2 of this Test Report. Further information can be made available from the authoring signatory.		

Declaration of Test Results

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

BS EN 61386-21:2004 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: 2381/7509739/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 25mm 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 25mm diameter Medium grade "Hotace" PVC-U conduit

Submitted by: National Plastic Factory
P.O. Box 371
PC.114
Multrah
Muscat
Sultanate of Oman

Declaration authorised by:

<i>D Mackie</i>	<i>D Mackie</i>
<i>Title</i>	<i>Senior Engineer</i>
<i>Date</i>	<i>4 August 2010</i>

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

1. This Declaration is issued only to the particular sample tested and to the specific tests carried out as detailed in the
2. This Declaration applied only to the particular sample tested and to the specific tests carried out as detailed in the

1. This declaration does not indicate provide or imply any measure of Approval, Certification, Supervision, Control or Surveillance by BSI to this or any related product.

BSI, Marylands Avenue, Hemel Hempstead, Hertfordshire HP2 4SO



Conditions of issue

This 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 samples tested and to the specific tests carried out, as detailed in this Test Report.

The issuing of this Test Report does not constitute any measure of Approval, Certificate or Guarantee.

Control and Surveillance by BS of any product. No extract, abridgement or abstraction from a Test Report may be published or used to advertise a product without the written consent of the General Manager, BS1 Product Services, who reserves the absolute right to agree or reject all any of the details of any terms or publicity for which consent may be sought.

 **NAMAS**
TESTING
IN THE

BSI Product Services, Markham Avenue, Harlow Harpenden Hertfordshire HP2 0SQ Telephone: (01442) 205042

open to all. The John Macfarlane Award, named after the first Honorary Treasurer, is presented annually to the member of the Society who has made the most significant contribution to the Society's work.

Local Authorities Approval Certificates

- * MOD (Ministry of Defence)
- * MEW (Ministry of Electricity and Water)
- * PDO (Petroleum Development Organisation)
- * Omani Standard certificate from Directorate General for Specification & Measurements
- * Ministry of Education.
- * MOH (Ministry of Health)
- * Diwan of Royal Court.
- * Tender Board.
- * Qatar General Electricity & Water
- * Qatar National Olympic Committee
- * Qatar Petroleum

Certificate of Test

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

BS 4607: Part 5: 1982 (1988)

The full details of the tests and the results are given in our Report No: 286/005943 Issue 3 Dated: 16 March 1999

Description of items tested:

**20mm Diameter Black PVC Fourway Intersection Box
(Hotace Brand)**

Submitted by: National Plastic Factory
PO Box 371 PC114
Muttrah
Sultanate of Oman

Certificate authorised by:

Title Senior Engineer

Date 16 Mar

Attention is drawn to the conditions upon which this declaration is issued, namely:	2. This Declaration applied only to the particular sample tested and to the specific tests carried out as detailed in the Report referred to above.
1. The general and specific conditions of the RSI Product Services Test Leaflet I apply in all respects. Copies of this leaflet are available on request.	3. This declaration does not indicate any measure of Approval, Certification, Supervision, Control or Surveillance by RSI to the product.

BSI Product Services, Maylands Avenue, Hemel Hempstead, Hertfordshire HP2 4SQ

Form 248 (Issoc 1)

MINISTRE DU COMMERCE MINISTRY OF COMMERCE ROYAUME DU CANADA Kingdom of Canada MARSHALL ISLANDS INTERNET MEMO Shahin IS November 29, 1989	ROYAUME DU CANADA Kingdom of Canada MINISTRE DU COMMERCE MINISTRY OF COMMERCE Shahin IS November 29, 1989
Director of Imports (D900) Re: 64000-0000-0000-0000 Re: 64000-0000-0000-0000 After Consultation, Re: <u>Permanent Agreement - Restricted Customs Duties</u> The <u>Product</u> <u>imported</u> under a copy of letter No. 057-0744 dated 22/11/89 and approved by the Ministry of Finance, Marshall Islands, is hereby <u>agreed</u> to the Electrical Goods and Appliances Restricted Party Policy. Since this locally manufactured product is approved by the Ministry of Finance, there are, thus, any places be mentioned in the Schedule of Health works. For your final necessary action, please, pass.	201 National Trade Program, P.O. Box 25, Ottawa, K1P 5K6, Canada Dear Sir, RE: APPROVAL OF IMPORT ELECTRICAL CONSUMER GOODS Dear Sir, Your letter of 04/11/89 (P.O. Box 25, Ottawa, K1P 5K6) is received. You have an obligation to use material of Electrical goods to Great Britain (the 1986) and 64000-0000-0000-0000. Very truly, Yours faithfully, MINISTER OF COMMERCE MINISTRE DU COMMERCE

Test Report



Report No	286/005943 Issue 3
Client	National Plastic Factory PO Box 371 PCI14 Mutituli Sullustane of Oman
Authority & date	Letter from Client Reference NPF/RB/500/59 dated 03 February 1999
Items tested	Conduit Fittings – Hotace Brand
Specifications	BS 4607:Part 1:1984 (1993) BS 4607:Part 5:1982 (1988)
Results	See Summary of Results on Page 2
Prepared by	D Mackie <i>D Mackie</i>
Authorized by	G R Essam <i>GR Essam</i>
Issue Date	<i>16 March 1999</i>
Conditions of issue	This Test Report is issued subject to the conditions stated in current issue of <i>Test Leaflet 1</i> ‘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 Surveillance by ISI of any product. No extract, abridgement or omission from this Test Report may be published or used to advertise a product without the written consent of the General Manager, ISI Product Services, who reserves the absolute right to agree or reject all or any of the details of any items or publicity for which consent may be sought.

Certificate of Test

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

BS 4607: Part 5: 1982 (1988)

The full details of the tests and the results are given in our Report No: 286/005943 Issue 3 Dated: 16 March 1999

Description of items tested:

**20mm Diameter Black PVC Fourway Intersection Box
(Hotace Brand)**

Submitted by: National Plastic Factory
PO Box 371 PC114
Muttrah
Sultanate of Oman

Certificate authorised by:

Title Senior Engineer

Date 16 Mar

Attention is drawn to the conditions upon which this declaration is issued, namely:	2. This Declaration applied only to the particular sample tested and to the specific tests carried out as detailed in the Report referred to above.
1. The general and specific conditions of the RSI Product Services Test Leaflet 1 apply in all respects. Copies of this leaflet are available on request.	3. This declaration does not indicate any measure of Approval, Certification, Supervision, Control or Surveillance by RSI to the product or service.

BSI Product Services, Maylands Avenue, Hemel Hempstead, Hertfordshire HP2 4SQ

Form 248 (Issoc 1)

Approval of Hotace Brand PVC Conduit Fittings and Accessories

Hotace Brand PVC Conduit Fittings and Accessories

Sl. No.	Material Description	Quantity	Unit	Remarks
1	20 And 25 mm	01	Way Straight Junction Box, 02 Way Angle Junction Box, 02 Way Straight Junction Box, 03 Way Junction Box, 04 Way Junction Box, U Way Junction Box, Y Way Junction Box, H Way Junction Box, Coupler, FTA Adaptor And Nut, Saddle Clip And Draw And Loop In Box	
2	Accessories	06x03 Squire Junction Box, 06x03 Squire Junction Box L&B, 03x03 Squire Junction Box, 03x03 Squire Junction Box L&B And PVC Lid		

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

Manager, Customer Services Department

Approval of Hotace Brand PVC Conduit Fittings and Accessories

Hotace Brand PVC Conduit Fittings and Accessories

Sl. No.	Material Description	Quantity	Unit	Remarks
1	20 And 25 mm	01	Way Straight Junction Box, 02 Way Angle Junction Box, 02 Way Straight Junction Box, 03 Way Junction Box, 04 Way Junction Box, U Way Junction Box, Y Way Junction Box, H Way Junction Box, Coupler, FTA Adaptor And Nut, Saddle Clip And Draw And Loop In Box	
2	Accessories	06x03 Squire Junction Box, 06x03 Squire Junction Box L&B, 03x03 Squire Junction Box, 03x03 Squire Junction Box L&B And PVC Lid		

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

Manager, Customer Services Department

شركة تنمية نفط عمان
Petroleum Development Oman L.L.C.

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 Muthrah- Sultanate of Oman

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

ELECTRICAL PRODUCTS:

4VIVE 4203 - CONDUIT AND TRUNKING (75-) - 851 70444A 20 21 20 FIBRE, CONDUITS A DOMESTIC ELECTRIC MATERIAL

KHALFAN AL BUSAIDI (FPS)
HEAD BUSINESS DEVELOPMENT

NB: THIS CERTIFICATE IS VALID UNTIL: 20/07/2012

PLEASE REFER OVERLEAF FOR DETAILS.

Address post registration, non government related queries to e-mail PermanentVendor@PDO.co.om
Telephone number + (968) 24673314.

PRODUCT APPROVAL CERTIFICATE

W005/200902 21002009

THE FOLLOWING PRODUCTS:
HOTACE JVC ELECTRICAL CONDUIT PIPES, FITTINGS & ACCESSORIES

MANUFACTURED BY:
NATIONAL PLASTIC FACTORY, OMAN

HAS BEEN EVALUATED AND APPROVED TO BE USED IN MINISTRY OF DEFENCE, DEFENDING SERVICES.

THIS CERTIFICATE IS VALID FOR 1 YEARS FROM THE DATE OF ISSUE

Support Services Director **Head of Engineering Services**

Sultanate of Oman
Ministry of Health
Directorate General of Engineering Affairs

MH/DGEA/05/1072

Jumada al Thani 03, 1426
July 10, 2005

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

After Compliments,

Re: **Ongoing and Upcoming Projects**

Enclosed herewith please find a copy of letter No.NPF/MOH/27/1800/05 dated 28.06.2005 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,

SULTAN BIN HAMED AL-BUSAIDI
DIRECTOR GENERAL

Encl: All relevant papers

C.C: M/s. National Plastic Factory - Fax 24810492
General Ed, Master file

P.O.Box 932, Postal Code : 113 Muscat, Tel. : 628177, Fax : 624171

Approval Ref. : 09 / 1000
Date : 07-05-2001

Certificate Of Approval

Commercial Name

M/s. National Plastic Factory, Sultanate Of Oman
(Hotace Brand v PVC 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	Size	Material Description
01	20 And 25 mm	01 Way Straight Junction Box, 02 Way Angle Junction Box, 02 Way Straight Junction Box, 03 Way Junction Box, 04 Way Junction Box, U Way Junction Box, Y Way Junction Box, H Way Junction Box, Coupler, FTA Adaptor And Nut, Saddle Clip And Draw And Loop In Box
		Accessories : 06x03 Squire Junction Box, 06x03 Squire Junction Box L&B, 03x03 Squire Junction Box, 03x03 Squire Junction Box L&B 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

اللجنة الأولمبية القطرية
Qatar National Olympic Committee

Ref: SPED/PN/QAA/2331/1601

Date: 21-12-2003

Attn: Mr. M. Sayah Khan
National Plastic Factory (24)
Muscat, Sultanate of Oman

Local Agent: M/s. **Satco International**
Fax No: 432 0031

Dear Sir:

QNOG Pre-Qualification of Suppliers for Sports Materials, Accessories and Equipment

Following evaluation of your application, please be informed that your company is now included in the final "List of Approved suppliers" for QNOG projects. A Certificate and Directory of the said pre-qualification process together with approved list will soon be published.

It should be noted however that your product's inclusion in QNOG list does not automatically mean that all the vendor's products will meet QNOG approval. Suppliers will still be required to provide technical data, etc, and undergo normal projects submitted and approval procedures.

Regards,

JASSIM AL-AMENAD
THE QATAR NATIONAL OLYMPIC COMMITTEE
SPORTS FACILITIES AND INSTALLATION DEPARTMENT

Cc: File

إدارة التجهيزات الرياضية
P.O. Box : 7404 - Doha - Qatar - Tel. : 664641 - 664642 - Fax : (974) 664649

KINGDOM OF BAHRAIN
Electricity & Water Authority
Electricity Distribution Directorate

3316/510/977 /LUKS
March 7, 2011

HAJI ALI HAJI CO W.L.L.
Attn: Mr. Hani Dalgous, Sales Engineer

Dear Sir,

SUBJECT: EQUIPMENTS APPROVAL
ELECTRICAL CONDUITS & ACCESSORIES
MAKEL NATIONAL PLASTIC FACTORY, SULTANATE OF OMAN

Name of the Project: General

Has reference to your letter No: EMD/LET/2011/00.01.2011/AN - dated 30th January 2011, along with documents. We have reviewed the same and the following PVC Conduits and accessories for the same, from manufacturer M/s National Plastic Factory, Sultanate of Oman, are considered as approved -

- 20sq mm x 1.8mm Heavy Gauge PVC conduits.
- 25sq mm x 1.6mm Medium Gauge PVC conduits.
- 25sq mm x 1.8mm Medium Gauge PVC conduits.
- 25sq mm PVC coupler.
- 25sq mm PVC coupler.
- 20sq mm PVC Junction Box starting 4way, 2way, 2way and 1 way.
- 25sq mm PVC Junction Box starting 4way, 2way and 1 way.
- 20sq mm PVC Female threaded adaptor.
- 25sq mm PVC Female threaded adaptor.
- 20sq mm PVC saddle clip and base.

The above approval is subject to the following:

- 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 articles.

Yours sincerely,

Dr. Hiba Nayif Harara
Chief, Planning & Materials

66/3360/77
N.B. Please send your reply to Planning Materials Fax No. 17363650.

KINGDOM OF BAHRAIN
Electricity & Water Authority
Electricity Distribution Directorate

3316/510/977 /LUKS
March 7, 2011

HAJI ALI HAJI CO W.L.L.
Attn: Mr. Hani Dalgous, Sales Engineer

Dear Sir,

SUBJECT: EQUIPMENTS APPROVAL
ELECTRICAL CONDUITS & ACCESSORIES
MAKEL NATIONAL PLASTIC FACTORY, SULTANATE OF OMAN

Name of the Project: General

Has reference to your letter No: EMD/LET/2011/00.01.2011/AN - dated 30th January 2011, along with documents. We have reviewed the same and the following PVC Conduits and accessories for the same, from manufacturer M/s National Plastic Factory, Sultanate of Oman, are considered as approved -

- 20sq mm x 1.8mm Heavy Gauge PVC conduits.
- 25sq mm x 1.6mm Medium Gauge PVC conduits.
- 25sq mm x 1.8mm Medium Gauge PVC conduits.
- 25sq mm PVC coupler.
- 25sq mm PVC coupler.
- 20sq mm PVC Junction Box starting 4way, 2way, 2way and 1 way.
- 25sq mm PVC Junction Box starting 4way, 2way and 1 way.
- 20sq mm PVC Female threaded adaptor.
- 25sq mm PVC Female threaded adaptor.
- 20sq mm PVC saddle clip and base.

The above approval is subject to the following:

- 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 articles.

Yours sincerely,

Dr. Hiba Nayif Harara
Chief, Planning & Materials

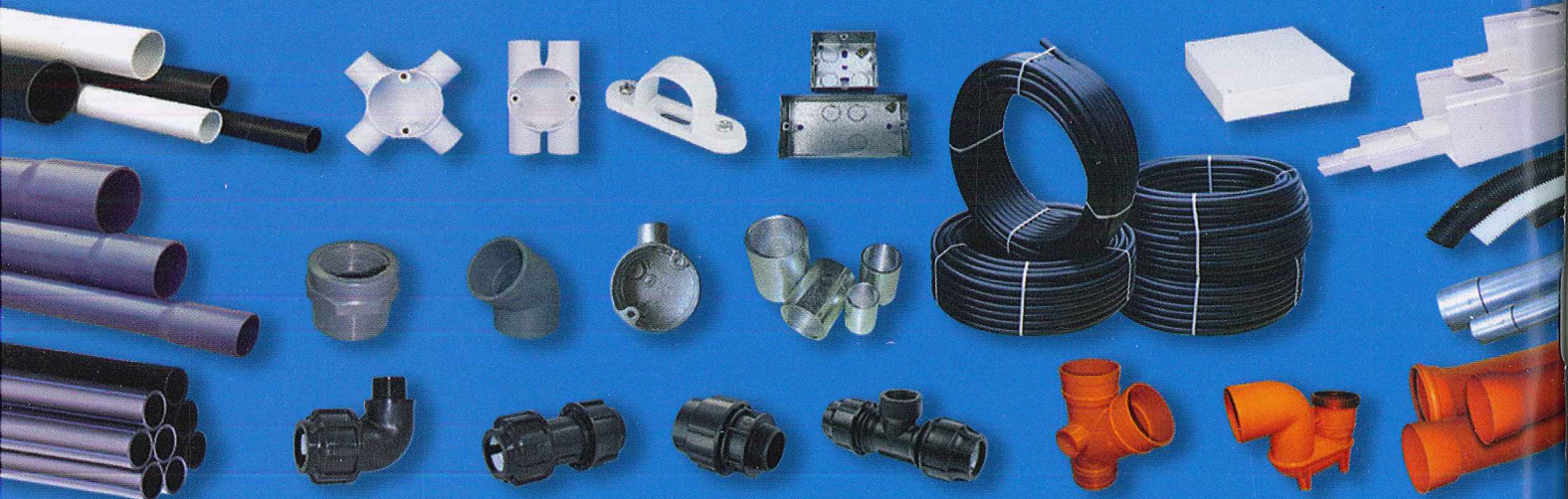
66/3360/77
N.B. Please send your reply to Planning Materials Fax No. 17363650.



Manufacturer & supplier of 'HOTACE' Brand product ranges :

- uPVC Drainage, Sewerage Pipes & Fittings
- uPVC Soil & Ventilation Pipes & Fittings
- PPR Pipes & Fittings
- GI Conduit & Accessories
- uPVC Electrical Conduit & Accessories
- uPVC High Pressure Pipes & Fittings
- HDPE Pipes & Fittings
- Plastic Packaging

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



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