HOTACE

BUILDERS TRUST - GLOBALLY

NATIONAL PLASTIC FACTORY L.L.C

Glorious Success 25 Years Still Continuing

Since 1992 NATIONAL PLASTIC FACTORY L.L.C OMAN OMAN

Omani

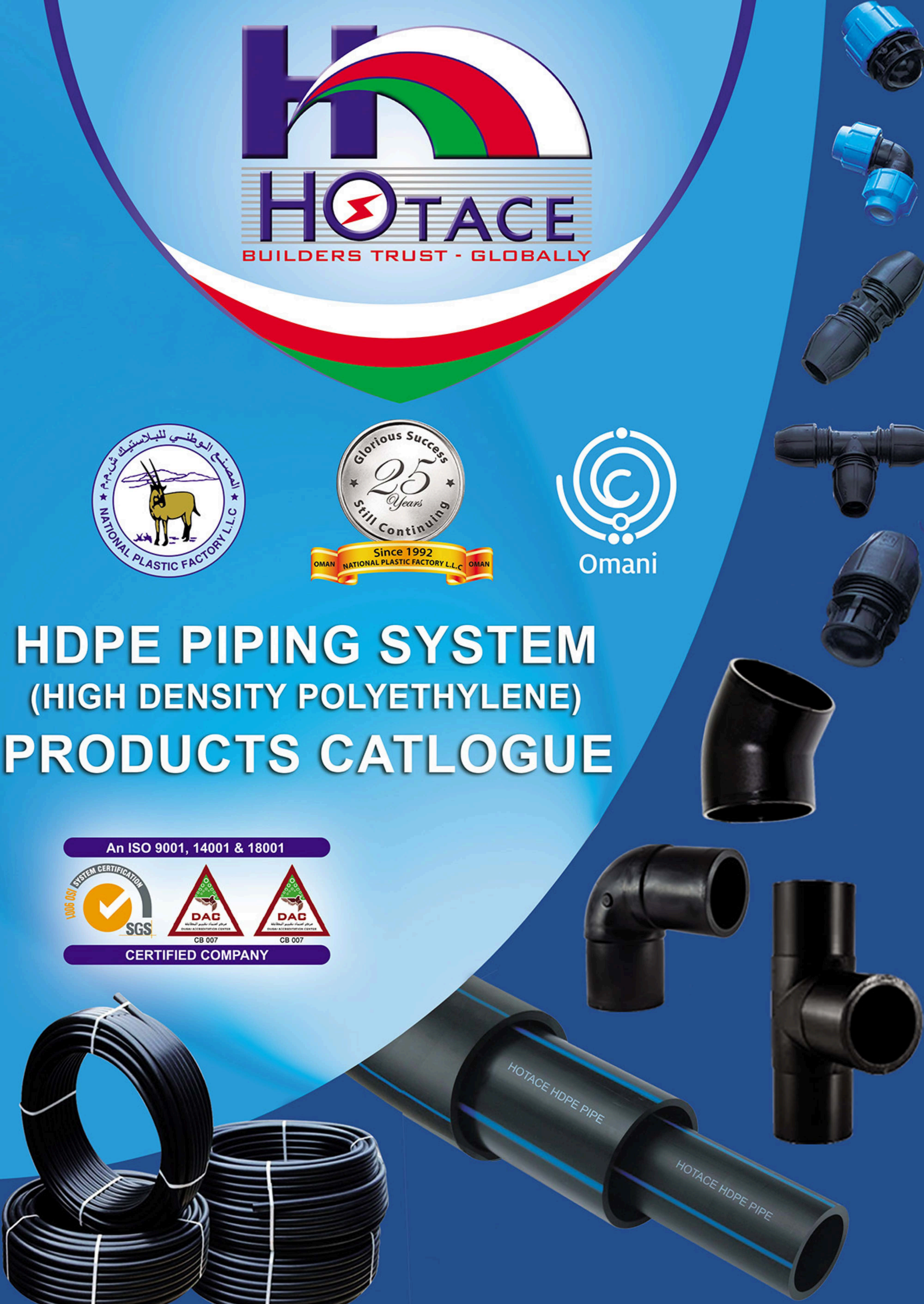
HDPE PIPING SYSTEM
(HIGH DENSITY POLYETHYLENE)
PRODUCTS CATLOGUE

An ISO 9001, 14001 & 18001

ISO 9001 SYSTEM CERTIFICATION SGS

DAC CB 007 DAC CB 007

CERTIFIED COMPANY



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 HDPE pipes and fittings to various industries focusing on high quality and dependability having latest updated technology of machineries and professional team of technical staff.

Our superior quality HDPE Pipes & Fittings meets the requirement of the following sectors like Irrigation system, Dewatering, Firefighting system, Domestic Oil and Gas plants, Storm water Drainage, Land Drainage, Chemical Process Piping, Sewer Network Sewer & Effluent Plants, Sand & Slurry Pumping and Infrastructure Development in GCC, Middle East & African Countries.

We National Plastic Factory are constantly upgrading ourselves with the growing technology, experience and quality to meet the ever growing and innovative in Infrastructure Developments & Various 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

HDPE Pipe Material

Considerable strides have been made in improving the quality of HDPE material and its long term ability to withstand pressure. The 3 different material grades (PE 63, PE 80 and PE 100), These three material grades have different properties which enable them to be classified with minimum required strengths (MRS) of 6.3 MPa, 8,0 MPa and 10.0 MPa respectively. Applying a design coefficient of 1.25 (safety factor) to the MRS gives the design stress for these materials (5.0 MPa, 6.3 MPa and 8.0 MPa respectively) with the result that the wall thickness for a particular size and class becomes progressively less as the change is made to a material with a higher MRS.

Features and Benefits of HOTACE HDPE piping system

- ✓ Excellent impact strength: Little handling and installation damage
- ✓ Excellent corrosion resistance: Long and efficient service life
- ✓ Good chemical resistance: Wide variety of applications
- ✓ Low mass: Easy handling
- ✓ Flexibility: Easy installation
- ✓ Long lengths available: Fewer joints
- ✓ Good abrasion resistance: Can be used to pump slurries
- ✓ Good UV resistance: Can be used in exposed locations
- ✓ Low friction losses: Lower pumping costs
- ✓ Several jointing methods: Wide variety of applications
- ✓ Extensive range of fittings: Wide variety of installations

Material Properties- PE 100

Description	Units	Value	Method of Test
Density	g/cm^3	0.959	ISO 1183
Melt flow rate at 190°C / 2.16 kg	g/10min	< 0.15	ISO 1133
Melt flow rate at 190°C / 5.0 kg	g/10min	0.2 to 1.4	ISO 1133
Tensile stress at yield	Mpa	23	ISO 6259
Elongation at break	%	> 350	ISO 6259
Carbon Black Content	%	2.25 ± 0.25	ISO 6964
Carbon Black Dispersion	Grade	≤ 3	ISO 11420
Thermal Stability (200°C)	Min	> 20	ISO/TR 10837
ESCR	Hr	> 1000	ASTM D1693
Flexural Modulus	Mpa	<-100	ISO 527
Vicat Softening Point	°C	124	EN ISO 306
Brittleness temperature	°C	<-70	ASTM D 746 – ISO 9784
Linear Thermal Expansion	°C	1.5×10^{-4}	ASTM D696
Thermal Conductivity	W.m°K	0.4	BS874 – DIN 52612

STANDARDS & SPECIFICATIONS

HOTACE HDPE Piping system is produced according to the following standards

ISO 4427	PE pipes for water supply
DIN 8074	HDPE (High Density Polyethylene) pipes Dimensions
DIN 8075	HDPE (High Density Polyethylene) pipes Testing Procedure
DIN 16963	HDPE (High Density Polyethylene) Fittings Dimensions
EN 12201	PE – Plastic piping systems for water supply Fittings
ENISO 15494	Plastic piping systems for industrial applications
ISO 12176	PE Plastics Pipes and fittings – Equipment for Fusion Jointing systems

The Stress Regression Line

The traditional method of portraying the primary mechanical property of HDPE, tensile strength, is by means of a graph of log stress vs. log time to failure. This is known as the stress regression line. It is a plot of the circumferential hoop stress in the wall of the pipe (from internal pressure) against time to failure. Numerous actual test results, measured at 20 °C and 60 °C, over a range of times up to 10,000 hours, are plotted on a log scale and a regression line is calculated to fit this data. The resultant regression line is then extrapolated to 50 years (438,000 hours). The method of calculation is an internationally accepted procedure described in ISO/TR 9080. The required values of stress and time are specified in ISO 4427.

The internationally accepted method for calculating circumferential hoop stress is derived from Barlow's formula and is as follows:

$$\sigma = p(d - t)/2t$$

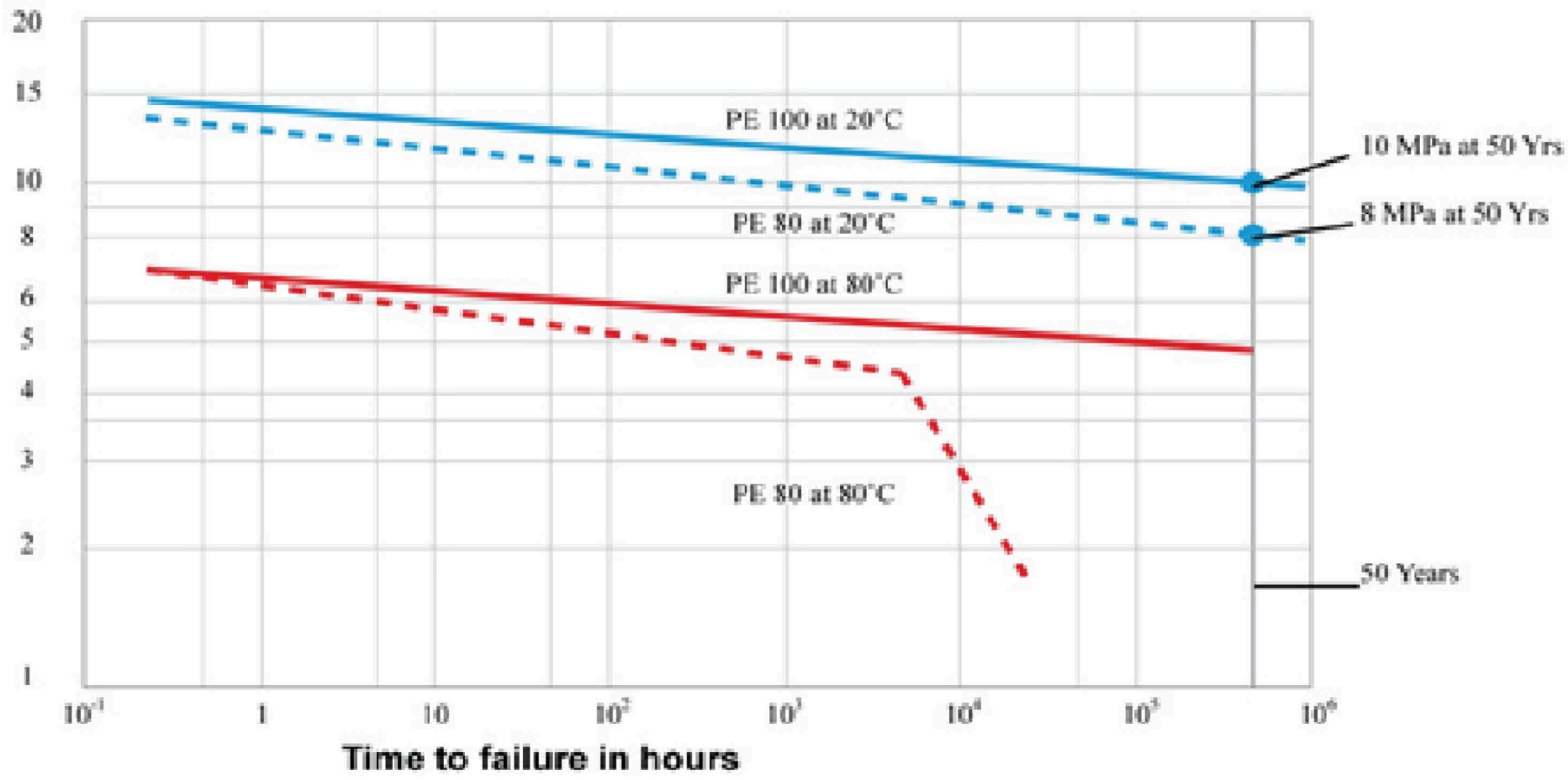
where: p = internal pressure (MPa)

t = minimum wall thickness (mm)

d = mean external diameter (mm)

σ = circumferential hoop stress in wall of pipe (MPa)

The Stress Regression Line for HDPE is given below.



Principal stress/time curves for PE 80 and PE 100 pipes at 20°C and 80°C. The standard curve for HDPE Type 2 at 80°C (acc. to DIN 8075) is shown in comparison. The minimum required strength (MRS) at 20°C and 50 years is 10 MPa for PE 100 and 8 MPa for PE 80 giving the design stress 8 MPa and 6 MPa respectively.

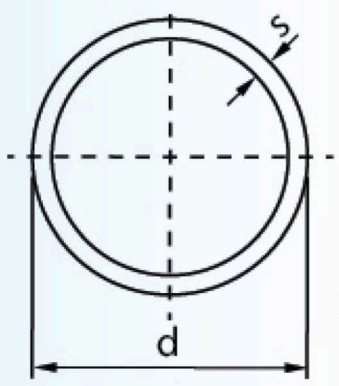
HDPE PIPES TECHNICAL SPECIFICATIONS

DIMENSIONS OF HOTACE POLYETHYLENE PIPE PE 100 - AS PER DIN 8074:1999											
Nominal Wall Thickness											
Normal Outside Diameter	SDR 41	SDR 33	SDR 26	SDR 21	SDR 17	SDR 13.6	SDR 11	SDR 9	SDR 7.4	SDR 6	SDR 5
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
20	-	-	-	-	-	1.8	1.9	2.3	2.8	3.4	4.1
25	-	-	-	-	1.8	1.9	2.3	2.8	3.5	4.2	5.1
32	-	-	-	-	1.9	2.4	2.9	3.6	4.4	5.4	6.5
40	-	-	1.8	1.9	2.4	3.0	3.7	4.5	5.5	6.7	8.1
50	-	1.8	2.0	2.4	3.0	3.7	4.6	5.6	6.9	8.3	10.1
63	1.8	2.0	2.5	3.0	3.8	4.7	5.8	7.1	8.6	10.5	12.7
75	1.9	2.3	2.9	3.6	4.5	5.6	6.8	8.4	10.3	12.5	15.1
90	2.2	2.8	3.5	4.3	5.4	6.7	8.2	10.1	12.3	15.0	18.1
110	2.7	3.4	4.2	5.3	6.6	8.1	10.0	12.3	15.1	18.3	22.1
125	3.1	3.9	4.8	6.0	7.4	9.2	11.4	14.0	17.1	20.8	25.1
140	3.5	4.3	5.4	6.7	8.3	10.3	12.7	15.7	19.2	23.3	28.1
160	4.0	4.9	6.2	7.7	9.5	11.8	14.6	17.9	21.9	26.6	32.1
180	4.4	5.5	6.9	8.6	10.7	13.3	16.4	20.1	24.6	29.9	36.1
200	4.9	6.2	7.7	9.6	11.9	14.7	18.2	22.4	27.4	33.2	40.1
225	5.5	6.9	8.6	10.8	13.4	16.6	20.5	25.2	30.8	37.4	45.1
250	6.2	7.7	9.6	11.9	14.8	18.4	22.7	27.9	34.2	41.6	50.1
280	6.9	8.6	10.7	13.4	16.6	20.6	25.4	31.3	38.3	46.5	56.2
315	7.7	9.7	12.1	15.0	18.7	23.2	28.6	35.2	43.1	52.3	63.2
355	8.7	10.9	13.6	16.9	21.1	26.1	32.2	39.7	48.5	59.0	-
400	9.8	12.3	15.3	19.1	23.7	29.4	36.3	44.7	54.7	66.5	-
450	11.0	13.8	17.2	21.5	26.7	33.1	40.9	50.3	61.5	-	-
500	12.3	15.3	19.1	23.9	29.7	36.8	45.4	55.8	68.3	-	-
630	15.4	19.3	24.1	30.0	37.4	46.3	57.2	-	-	-	-

Material: PE 100

Minimum required strength: MRS = 10.0 Mpa

Design safety factor: C = 1.6 for water



$$PN = \frac{20 \times MRS}{C \times (SDR-1)}$$

Colour: Black

Length: Sizes from 20 mm to 32 mm are available in coils of 100 , 200 & 300 up to 1500 meters Length. Sizes from 40 mm to 110 mm are available in coils of 100 meters Length. Larger diameters are available in straight lengths of 12 meters. Different lengths can be supplied on request.

DIMENSIONS OF HOTACE POLYETHYLENE PIPE PE 100 - AS PER ISO:4427

Nominal Wall Thickness

Nominal Outside Diameter	SDR 41	SDR26	SDR 21	SDR 17	SDR 13.6	SDR 11	SDR 9	SDR 7.4
	PN 4	PN 6	PN 8	PN 10	PN 12.5	PN 16	PN 20	PN 25
mm		mm	mm	mm	mm	mm	mm	mm
20	-	-	-	-	-	**2.0**	**2.3**	**3.0**
25	-	-	-	-	**2.0**	**2.3**	**3.0**	**3.5**
32	-	-	-	2.0	**2.4**	**3.0**	**3.6**	**4.4**
40	-	-	**2.0**	2.4	**3.0**	**3.7**	**4.5**	**5.5**
50	-	**2.0**	**2.4**	3.0	**3.7**	**4.6**	**5.6**	**6.9**
63	-	**2.5**	**3.0**	3.8	**4.7**	**5.8**	**7.1**	**8.6**
75	-	**2.9**	**3.6**	4.5	**5.6**	**6.8**	**8.4**	**10.3**
90	-	**3.5**	**4.3**	5.4	**6.7**	**8.2**	**10.1**	**12.3**
110	-	**4.2**	**5.3**	6.6	**8.1**	**10.0**	**12.3**	**15.1**
125	-	**4.8**	**6.0**	7.4	**9.2**	**11.4**	**14.0**	**17.1**
140	-	**5.4**	**6.7**	8.3	**10.3**	**12.7**	**15.7**	**19.2**
160	-	**6.2**	**7.7**	9.5	**11.8**	**14.6**	**17.9**	**21.9**
180	-	**6.9**	**8.6**	10.7	**13.3**	**16.4**	**20.1**	**24.6**
200	-	**7.7**	**9.6**	11.9	**14.7**	**18.2**	**22.4**	**27.4**
225	-	**8.6**	**10.8**	13.4	**16.6**	**20.5**	**25.2**	**30.8**
250	-	**9.6**	**11.9**	14.8	**18.4**	**22.7**	**27.9**	**34.2**
280	-	**10.7**	**13.4**	16.6	**20.6**	**25.4**	**31.3**	**38.3**
315	**7.7**	**12.1**	**15.0**	18.7	**23.2**	**28.6**	**35.2**	**43.1**
355	**8.7**	**13.6**	**16.9**	21.1	**26.1**	**32.2**	**39.7**	**48.5**
400	**9.8**	**15.3**	**19.1**	23.7	**29.4**	**36.3**	**44.7**	**54.7**
450	**11.0**	**17.2**	**21.5**	26.7	**33.1**	**40.9**	**50.3**	**61.5**
500	**12.3**	**19.1**	**23.9**	29.7	**36.8**	**45.4**	**55.8**	-
630	**15.4**	**24.1**	**30.0**	37.4	**46.3**	**57.2**	**70.3**	-

Material: PE 100

Minimum required strength: MRS = 10.0 Mpa

Design safety factor: C = 1.25for water

$$PN = \frac{20 \times MRS}{C \times (SDR-1)}$$

Colour: Black

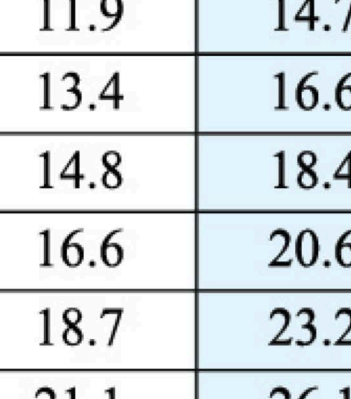
Length: Sizes from 20 mm to 32 mm are available in coils of 100 , 200 & 300 up to 1500 meters Length. Sizes from 40 mm to 110 mm are available in coils of 100 meters Length. Larger diameters are available in straight lengths of 12 meters. Different lengths can be supplied on request.

DIMENSIONS OF HOTACE POLYETHYLENE PIPE PE 80 - AS PER ISO:4427								
Nominal Wall Thickness								
Normal Outside Diameter	SDR 33	SDR 21	SDR 17	SDR 13.6	SDR 11	SDR 9	SDR 7.4	SDR 6
	PN 4	PN 6	PN 8	PN 10	PN 12.5	PN 16	PN 20	PN 25
mm		mm	mm	mm	mm	mm	mm	mm
20	-	-	-	-	2.0	2.3	3.0	3.4
25	-	-	-	2.0	2.3	3.0	3.5	4.2
32	-	-	2.0	2.4	3.0	3.6	4.4	5.4
40	-	2.0	2.4	3.0	3.7	4.5	5.5	6.7
50	-	2.4	3.0	3.7	4.6	5.6	6.9	8.3
63	-	3.0	3.8	4.7	5.8	7.1	8.6	10.5
75	-	3.6	4.5	5.6	6.8	8.4	10.3	12.5
90	-	4.3	5.4	6.7	8.2	10.1	12.3	15.0
110	-	5.3	6.6	8.1	10.0	12.3	15.1	18.3
125	-	6.0	7.4	9.2	11.4	14.0	17.1	20.8
140	-	6.7	8.3	10.3	12.7	15.7	19.2	23.3
160	-	7.7	9.5	11.8	14.6	17.9	21.9	26.6
180	-	8.6	10.7	13.3	16.4	20.1	24.6	29.9
200	-	9.6	11.9	14.7	18.2	22.4	27.4	33.2
225	-	10.8	13.4	16.6	20.5	25.2	30.8	37.4
250	-	11.9	14.8	18.4	22.7	27.9	34.2	41.5
280	-	13.4	16.6	20.6	25.4	31.3	38.3	46.5
315	9.7	15.0	18.7	23.2	28.6	35.2	43.1	52.3
355	10.9	16.9	21.1	26.1	32.2	39.7	48.5	59.0
400	12.3	19.1	23.7	29.4	36.3	44.7	54.7	-
450	13.8	21.5	26.7	33.1	40.9	50.3	61.5	-
500	15.3	23.9	29.7	36.8	45.4	55.8	-	-
630	19.3	30.0	37.4	46.3	57.2	70.3	-	-

Material: PE 80

Minimum required strength: MRS = 8.0 Mpa

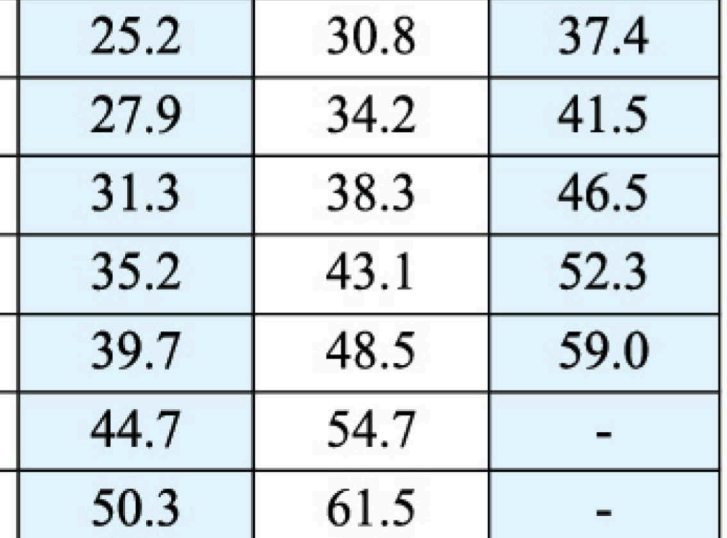
Design safety factor: C = 1.25 for water



$$PN = \frac{20 \times MRS}{C \times (SDR-1)}$$

Colour: Black

Length: Sizes from 20 mm to 32 mm are available in coils of 100 , 200 & 300 up to 1500 meters Length. Sizes from 40 mm to 110 mm are available in coils of 100 meters Length. Larger diameters are available in straight lengths of 12 meters. Different lengths can be supplied on request.



HDPE COMPRESSION FITTINGS

Products complies with BSEN ISO 15874 - 1 / 15874 - 3 / ISO : 4427 / DIN 8074 Standards

Available colours: Blue with Black & Fully Black

	AVAILABLE SIZES		
COUPLING 	20 x 20mm 25 x 25mm 32 x 32mm 40 x 40mm	50 x 50mm 63 x 63mm 75 x 75mm 90 x 90mm	110 x 110mm
REDUCER COUPLING 	25 x 20mm 32 x 20mm 32 x 25mm 40 x 25mm 40 x 32mm 50 x 25mm	63 x 50mm 75 x 50mm 50 x 32mm 50 x 40mm 63 x 32mm 63 x 40mm	75 x 63mm 90 x 63mm 90 x 75mm 110 x 75mm 110 x 90mm
MALE ADAPTOR 	20 x 1/2″ 20 x 3/4″ 20 x 1″ 25 x 1/2″ 25 x 3/4″ 25 x 1″ 32 x 3/4″ 32 x 1″ 40 x 1″	40 x 1 1/2″ 50 x 1 1/2″ 50 x 2″ 63 x 1 1/2″ 63 x 2″ 63 x 2 1/2″ 75 x 2″ 75 x 2 1/2″ 75 x 3″	90 x 2″ 90 x 2 1/2“ 90 x 3″ 90 x 4″ 110 x 2″ 110 x 3″ 110 x 4″
FEMALE ADAPTOR 	20 x 1/2″ 20 x 3/4″ 25 x 1/2″ 25 x 3/4″ 25 x 1″ 32 x 3/4″ 32 x 1″ 40 x 1″	40 x 1 1/2″ 50 x 1 1/2″ 50 x 2″ 63 x 1 1/2″ 63 x 2″ 63 x 2 1/2″ 75 x 2″ 75 x 2 1/2″	75 x 3″ 90 x 2″ 90 x 2 1/2“ 90 x 3″ 90 x 4″ 110 x 2″ 110 x 3″ 110 x 4″
TEE FEMALE THREADED 	20 x 1/2″ x 20mm 20 x 3/4″ x 20mm 25 x 3/4″ x 25mm 25 x 1″ x 25mm 32 x 1″ x 32mm	40 x 1 1/2″ x 40mm 50 x 1 1/2″ x 50mm 50 x 2″ x 50mm 63 x 2″ x 63mm 63 x 2 1/2″ x 63mm	75 x 2 1/2″ x 75mm 75 x 3″ x 75mm 90 x 3″ x 90mm 90 x 4″ x 90mm 110 x 4″ x 110mm
FLANGE ADAPTOR 	75 x 2 1/2″ 75 X 3″	90 x 3″ 90 x 4″	110 x 4″

HDPE COMPRESSION FITTINGS

Products complies with BSEN ISO 15874 - 1 / 15874 - 3 / ISO : 4427 / DIN 8074 Standards
Available colours: Blue with Black & Fully Black

	AVAILABLE SIZES		
REDUCING TEE 	25 x 20 x 25mm 32 x 25 x 32mm 40 x 32 x 40mm	50 x 40 x 50mm 63 x 50 x 63mm 75 x 63 x 75mm	90 x 75 x 90mm 110 x 90 x 110mm
END PLUG 	20mm 25mm 32mm	40mm 50mm 63mm	75mm 90mm 110mm
ELBOW 90° 	20 x 20mm 25 x 25mm 32 x 32mm	40 x 40mm 50 x 50mm 63 x 63mm	75 x 75mm 90 x 90mm 110 x 110mm
TEE 	20 x 20 x 20mm 25 x 25 x25mm 32 x 32 x 32mm	40 x 40 x 40mm 50 x 50 x 50mm 63 x 63 x 63mm	75 x 75 x 75mm 90 x 90 x 90mm 110 x 110 x 110mm
TEE MALE THREADED 	20 x 1/2" x 20mm 20 x 3/4" x 20mm 25 x 3/4" x 25mm 25 x 1" x 25mm 32 x 1" x 32mm	40 x 1 1/2" x 40mm 50 x 1 1/2" x 50mm 50 x 2" x 50mm 63 x 2" x 63mm 63 x 2 1/2" x 63mm	75 x 2 1/2" x 75mm 75 x 3" x 75mm 90 x 3" x 90mm 90 x 4" x 90mm 110 x 4" x 110mm
ELBOW MALE THREADED 	20 x 1/2" 20 x 3/4" 25 x 1/2" 25 x 3/4" 25 x 1" 32 x 1"	32 x 1 1/4" 40 x 1 1/4" 50 x 1 1/2" 50 x 2" 63 x 2" 63 x 2 1/2"	75 x 2 1/2" 75 x 3" 90 x 3" 90 x 4" 110 x 4"
ELBOW FEMALE THREADED 	20 x 1/2" 20 x 3/4" 25 x 1/2" 25 x 3/4" 25 x 1" 32 x 1/2" 32 x 3/4"	32 x 1" 32 x 1 1/4" 40 x 1 1/4" 40 x 1 1/2" 50 x 1 1/2" 50 x 2" 63 x 2"	63 x 2 1/2" 75 x 3" 90 x 3" 90 x 4" 110 x 4"

HDPE BUTTWELD FITTINGS

Products complies with DIN 16963 / ISO 12176 / BSEN 1555 /ISO 4427/ DIN 8074 Standard
Available colour: Black

	AVAILABLE SIZES			
END CAPS 	20 mm 25 mm 32 mm 40 mm 50 mm 63 mm	75 mm 90 mm 110 mm 125 mm 140 mm 160 mm	180 mm 200 mm 225 mm 250 mm 280 mm 315 mm	355 mm 400 mm 450 mm 500 mm 560 mm 630 mm
FEMALE THREAD ADAPTOR 	25 x 1/2” 25 x 3/4” 32 x 1/2” 32 x 3/4”	32 x 1” 40 x 3/4” 40 x 1” 40 x 1 1/4”	50 x 1/2” 50 x 1” 50 x 1 1/4” 50 x 1 1/2”	63 x 2” 75 x 2 1/2” 90 x 3”
TEE 90° 	20 mm 25 mm 32 mm 40 mm 50 mm 63 mm	75 mm 90 mm 110 mm 125 mm 140 mm 160 mm	180 mm 200 mm 225 mm 250 mm 280 mm 315 mm	355 mm 400 mm 450 mm 500 mm 560 mm 630 mm
ELBOW 45° 	20 mm 25 mm 32 mm 40 mm 50 mm 63 mm	75 mm 90 mm 110 mm 125 mm 140 mm 160 mm	180 mm 200 mm 225 mm 250 mm 280 mm 315 mm	355 mm 400 mm 450 mm 500 mm 560 mm 630 mm
REDUCING TEES 	63 x 50 mm 75 x 32 mm 75 x 50 mm 75 x 63 mm 90 x 32 mm 90 x 50 mm 90 x 63 mm 90 x 75 mm 110 x 32 mm 110 x 50 mm 110 x 63 mm 110 x 75 mm 110 x 90 mm 125 x 63 mm 125 x 90 mm 125 x 110 mm 140 x 63 mm 140 x 75 mm	140 x 90 mm 140 x 110 mm 160 x 63 mm 160 x 75 mm 160 x 90 mm 160 x 110 mm 160 x 125 mm 180 x 63 mm 180 x 75 mm 180 x 90 mm 180 x 110 mm 180 x 125 mm 180 x 160 mm 200 x 63 mm 200 x 63 mm 200 x 90 mm 200 x 110 mm 200 x 125 mm	200 x 160 mm 225 x 75 mm 225 x 90 mm 225 x 90 mm 225 x 110 mm 225 x 125 mm 225 x 160 mm 225 x 180 mm 250 x 110 mm 250 x 160 mm 315 x 110 mm 315 x 160 mm 315 x 225 mm 315 x 250 mm 315 x 280 mm 355 x 250 mm 355 x 315 mm 400 x 160 mm	400 x 200 mm 400 x 250 mm 400 x 315 mm 400 x 355 mm 450 x 315 mm 450 x 400 mm 500 x 125 mm 500 x 160 mm 500 x 250 mm 500 x 315 mm 500 x 400 mm 560 x 160 mm 560 x 250 mm 560 x 355 mm 560 x 400 mm 630 x 400 mm 630 x 500 mm
ELBOW 90° 	20 mm 25 mm 32 mm 40 mm 50 mm 63 mm	75 mm 90 mm 110 mm 125 mm 140 mm 160 mm	180 mm 200 mm 225 mm 250 mm 280 mm 315 mm	355 mm 400 mm 450 mm 500 mm 560 mm 630 mm

HDPE BUTTWELD FITTINGS

Products complies with DIN 16963 / ISO 12176 / BSEN 1555 /ISO 4427/ DIN 8074 Standard

Available colour: Black

	AVAILABLE SIZES			
CROSS TEE 	75 mm 90 mm 110 mm	125 mm 140 mm 160 mm	180 mm 200 mm 225 mm	250 mm 280 mm 315 mm
Y - TEE 	63 mm 75 mm 90 mm 110 mm	125 mm 140 mm 160 mm 180 mm	200 mm 225 mm 250 mm 280 mm	315 mm
REDUCER 	25 x 2 0 mm 32 x 20 mm 32 x 25 mm 40 x 20 mm 40 x 25 mm 40 x 32 mm 50 x 25 mm 50 x 32 mm 50 x 40 mm 63 x 32 mm 63 x 40 mm 63 x 50 mm 75 x 32 mm 75 x 40 mm 75 x 50 mm	75 x 63 mm 90 x 50 mm 90 x 63 mm 90 x 75 mm 110 x 50 mm 110 x 63 mm 110 x 75 mm 110 x 90 mm 125 x 63 mm 125 x 75 mm 125 x 90 mm 125 x 110 mm 140 x 75 mm 140 x 90 mm 140 x 110 mm	140 x 125 mm 160 x 90 mm 160 x 110 mm 160 x 125 mm 160 x 140 mm 180 x 90 mm 180 x 110 mm 180 x 125 mm 180 x 140 mm 180 x 160 mm 200 x 140 mm 200 x 160 mm 200 x 180 mm 225 x 140 mm 225 x 160 mm	225 x 180 mm 225 x 200 mm 250 x 160 mm 250 x 180 mm 250 x 200 mm 250 x 225 mm 280 x 200 mm 280 x 225 mm 280 x 250 mm 315 x 200 mm 315 x 225 mm 315 x 225 mm 315 x 250 mm 315 x 280 mm
REDUCER SHORT TYPE	355 x 200 mm 355 x 225 mm 355 x 250 mm 355 x 280 mm 355 x 315 mm 400 x 225 mm 400 x 250 mm	400 x 280 mm 400 x 315 mm 450 x 355 mm 450 x 280 mm 400 x 315 mm 450 x 355 mm 450 x 400 mm	500 x 280 mm 500 x 315 mm 500 x 355 mm 500 x 400 mm 500 x 450 mm 560 x 355 mm 560 x 400 mm	560 x 450 mm 560 x 500 mm 630 x 355 mm 630 x 400 mm 630 x 450 mm 630 x 500 mm 630 x 560 mm
REDUCERS ECCENTRIC 	160 x 90 mm 160 x 110 mm 160 x 125 mm 160 x 140 mm 180 x 110 mm 180 x 125 mm 180 x 140 mm	180 x 160 mm 200 x 125 mm 200 x 140 mm 200 x 160 mm 200 x 180 mm 225 x 140 mm 225 x 160 mm	225 x 180 mm 225 x 200 mm 250 x 160 mm 250 x 180 mm 250 x 200 mm 250 x 225 mm 280 x 180 mm	280 x 200 mm 280 x 225 mm 282 x 250 mm 315 x 200 mm 315 x 225 mm 315 x 250 mm 315 x 280mm

HDPE FITTINGS

Products complies with DIN 16963 / ISO 12176 / BSEN 1555 /ISO 4427/ DIN 8074 Standard

Available colour: Black

	AVAILABLE SIZES			
FLANGE ADAPTOR 	20 mm 25 mm 32 mm 40 mm 50 mm 63 mm 75 mm	90 mm 110 mm 125 mm 140 mm 160 mm 180 mm 200 mm	225 mm 225 mm 250 mm 280 mm 315 mm 355 mm 400 mm	450 mm 500 mm 560 mm 630mm
FLANGE ADAPTOR SHORT TYPE 	110 mm 125 mm 140 mm 160 mm 180 mm	200 mm 225 mm 225 mm 250 mm 280 mm	315 mm 355 mm 400 mm 450 mm 500 mm	560 mm 630 mm
MALE THREAD ADAPTOR 	25 x 1/2” 25 x 3/4” 32 x 1/2” 32 x 3/4”	32 x 1” 40x 3/4” 40x 1” 40x 1 1/4”	50 x 1/2” 50 x 1” 50 x 1 1/4” 50 x 1 1/2”	63 x 2” 75 x 2 1/2” 90 x 3”
EF REPAIR SADDLE 	90 mm 110 mm	160mm 200 mm	225 mm 250 mm	315 mm
EF TAPPING SADDLE 	63 x 25 mm 63 x 32 mm 90 x 25 mm 90 x 32 mm 90 x 40 mm 90 x 63 mm	110 x 25 mm 110 x 32 mm 110 x 40 mm 110 x 50 mm 110 x 63 mm 160 x 32 mm	160 x 50 mm 160 x 63 mm 160 x 90 mm 200 x 63 mm 200 x 90 mm 225 x 63 mm	250 x 63 mm 250 x 90 mm 315 x 63 mm 315 x 90 mm
EF BRANCH SADDLE 	63 x 32 mm 90 x 63 mm 110 x 32 mm 110 x 63 mm	160 x 63 mm 160 x 90 mm 200 x 63 mm 200 x 90 mm	225 x 63 mm 250 x 63 mm 250 x 90 mm 315 x 63 mm	315 x 90 mm

HDPE FABRICATED FITTINGS

				
Y TEE 45 ° Available Sizes: 90 mm to 630 mm	**ELBOW 45 °** Available Sizes: 90 mm to 630 mm	**ELBOW 90 °** Available Sizes: 90 mm to 630 mm	**EQUAL TEE 90 °** Available Sizes: 90 mm to 630 mm	**REDUCED TEE 90 °** Available Sizes: 90 mm to 630 mm

HDPE ELECTROFUSION FITTINGS

Products complies with DIN 16963 / ISO 12176 / BSEN 1555 /ISO 4427/ DIN 8074 Standard
Available colour: Black

	AVAILABLE SIZES			
EF COUPLER 	20 mm 25 mm 32 mm 40 mm 50 mm 63 mm	75 mm 90 mm 110 mm 125 mm 160 mm 180 mm	200 mm 225 mm 250 mm 280 mm 315 mm 355 mm	450 mm 500 mm 630 mm
EF REDUCER 	25 x 2 0 mm 32 x 20 mm 32 x 25 mm 40 x 32 mm 50 x 32 mm 50 x 40 mm 63 x 32 mm	63 x 40 mm 63 x 50 mm 75 x 50 mm 75 x 63 mm 90 x 63 mm 90 x 75 mm 110 x 63 mm	110 x 75 mm 110 x 90 mm 125 x 90 mm 160 x 110 mm 250 x 160 mm 250 x 180 mm 250 x 200 mm	280 x 200 mm 280 x 250 mm 315 x 200 mm 315 x 250 mm 315 x 280 mm 400 x 250 mm 400 x 315 mm
EF ELBOW 90° 	20 mm 25 mm 32 mm 40 mm 50 mm	63 mm 75 mm 90 mm 110 mm 125 mm	160 mm 180 mm 200 mm 225 mm 250 mm	315 mm 355 mm 400 mm
EF ELBOW 45° 	20 mm 25 mm 32 mm 40 mm 50 mm	63 mm 75 mm 90 mm 110 mm 125 mm	160 mm 180 mm 200 mm 225 mm 250 mm	315 mm 355 mm 400 mm
EF EQUAL TEE 	20 x 20 x 20 mm 25 x 25 x 25 mm 32 x 32 x 32 mm 40 x 40 x 40 mm 50 x 50 x 50 mm	63 x 63 x 63 mm 75 x 75 x 75 mm 90 x 90 x 90 mm 110 x 110 x 110 mm 125 x 125 x 125 mm	160 x 160 x 160 mm 180 x 180 x 180 mm 200 x 200 x 200 mm 250 x 250 x 250 mm 315 x 315 x 315 mm	355 x 355 x 355 mm 400 x 400 x 400 mm
EF REDUCER TEE 	25 x 20 x 25 mm 32 x 20 x 32 mm 32 x 25 x 32 mm 40 x 25 x 40 mm 40 x 32 x 40 mm 50 x 25 x 50 mm 50 x 32 x 50 mm 50 x 40 x 50 mm 63 x 25 x 63 mm 63 x 32 x 63 mm 63 x 40 x 63 mm 63 x 50 x 63 mm 75 x 32 x 75 mm	75 x 40 x 75 mm 75 x 50 x 75 mm 75 x 63 x 75 mm 90 x 32 x 90 mm 90 x 40 x 90 mm 90 x 50 x 90 mm 90 x 63 x 90 mm 90 x 75 x 90 mm 110 x 32 x 110 mm 110 x 40 x 110 mm 110 x 50 x 110 mm 110 x 63 x 110 mm 110 x 75 x 110 mm	110 x 90 x 110 mm 125 x 90 x 125 mm 125 x 110 x 125 mm 160 x 63 x 160 mm 160 x 90 x 160 mm 160 x 110 x 160 mm 160 x 125 x 160 mm 200 x 63 x 200 mm 200 x 90 x 200 mm 200 x 110 x 200 mm 200 x 60 x 200 mm 250 x 110 x 250 mm 250 x 160 x 250 mm	250 x 200 x 250 mm 315 x 110 x 315 mm 315 x 160 x 315 mm 315 x 200 x 315 mm 315 x 250 x 315 mm 400 x 110 x 400 mm 400 x 160 x 400 mm 400 x 200 x 400 mm 400 x 250 x 400 mm 400 x 315 x 400 mm
EF END CAP 	20 mm 25 mm 32 mm	40 mm 50 mm 63 mm	75 mm 90 mm 110 mm	125 mm 160 mm 180 mm

HANDLING, STORAGE & TRANSPORTATION OF HDPE PIPES

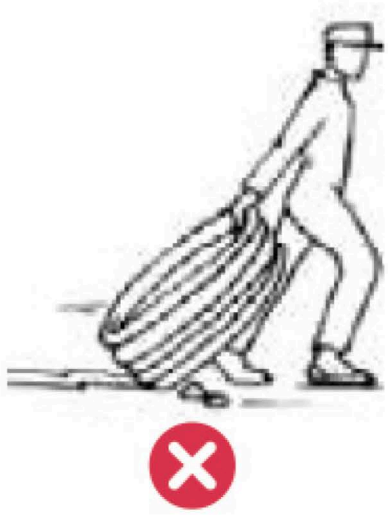
HDPE pipes can be stored indoors or in the open because the carbon black gives them protection against solar radiation.

Rolls can be stored horizontally, one on top of the others, up to 1.5 m in height and in just a single layer vertically.

Bars can be stacked on flat and clean horizontal surfaces, with the supports necessary to prevent deformation, up to a maximum height of 1.5m.

HDPE -100 pipes must be stored in such a way that they cannot come into contact with fuels, solvents, aggressive paints, etc. Thus it is advisable to prevent contact or proximity to surfaces that may reach 50ºC or more

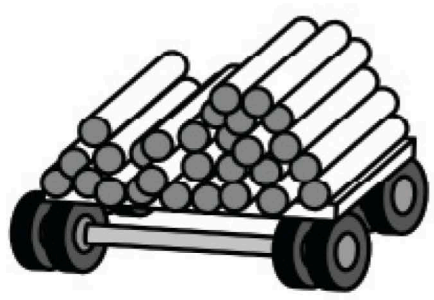
HDPE-100 is a strong and flexible material, but it must not be dragged over rough surfaces and coe into contact with sharp objects.

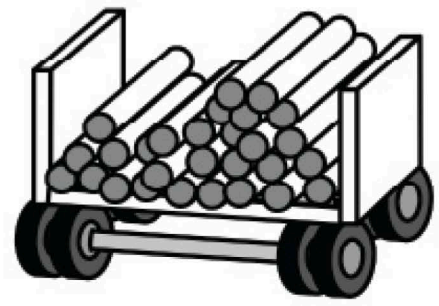


If for any reason a pipe is found with a damaged section or with kinks, the damaged section must be removed before installing it

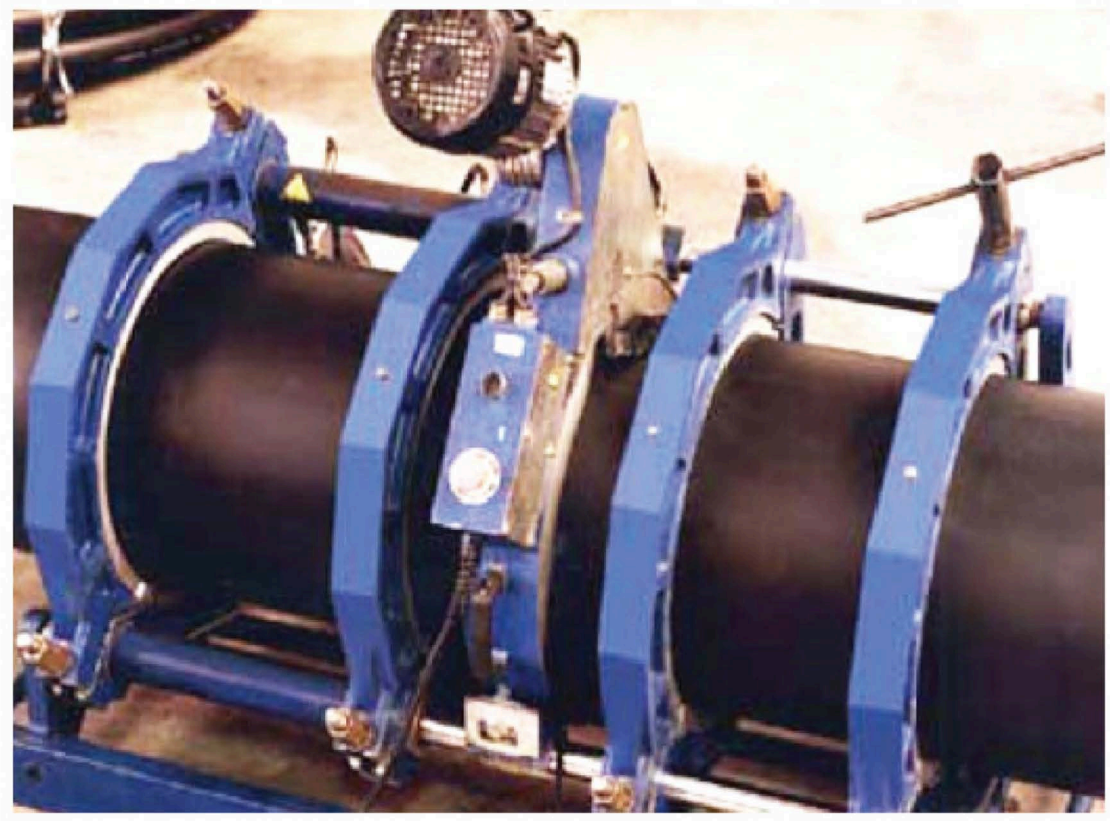
For transport, it is important to do so on a horizontal plane, free of nails or protrusions that might damage the pipes. Care must be taken for stack the pipes correctly. Heavy loads that might deform the pipes must not be placed on top.

On unloading from the truck, they must NEVER be thrown, but gently lowered and subsequently stacked

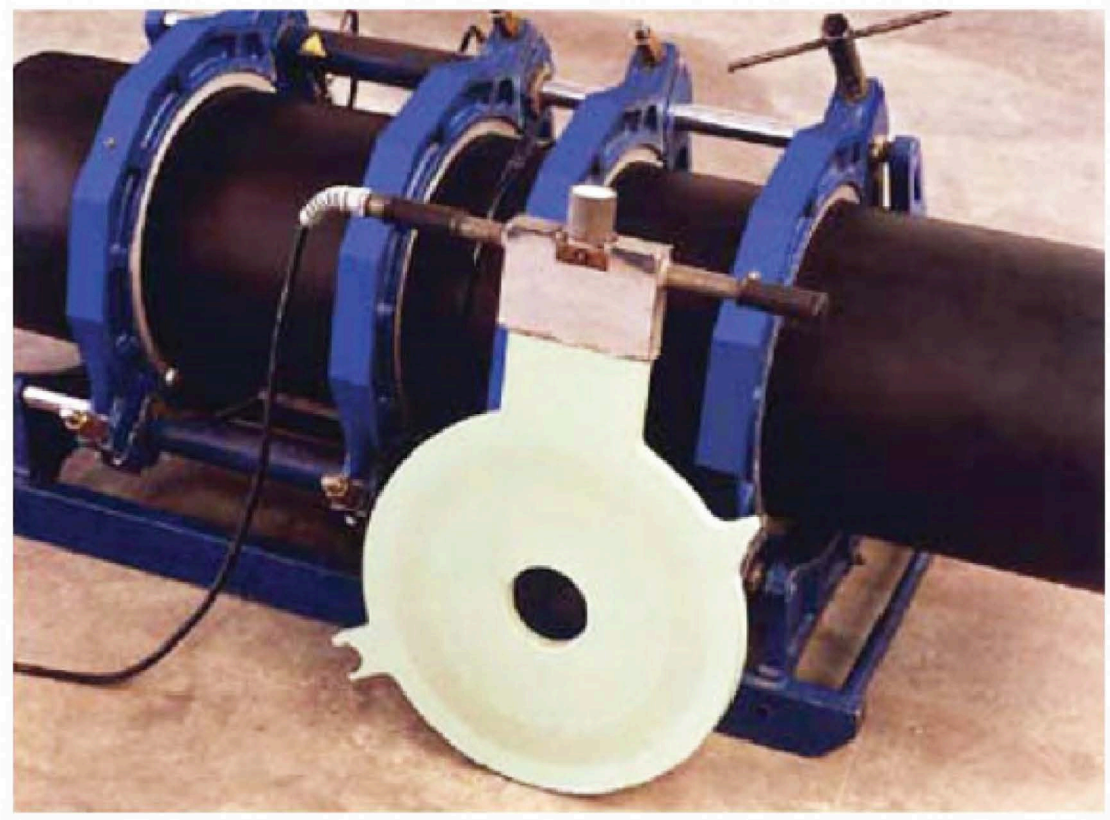




Manual Welding Procedure

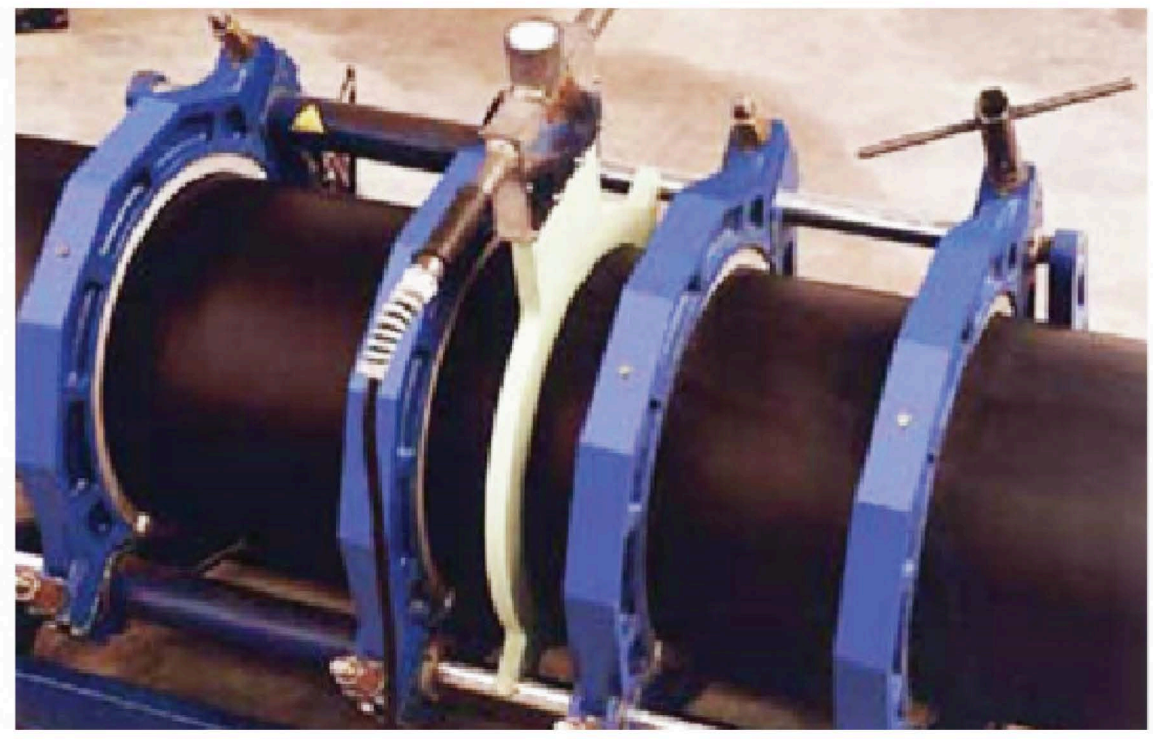


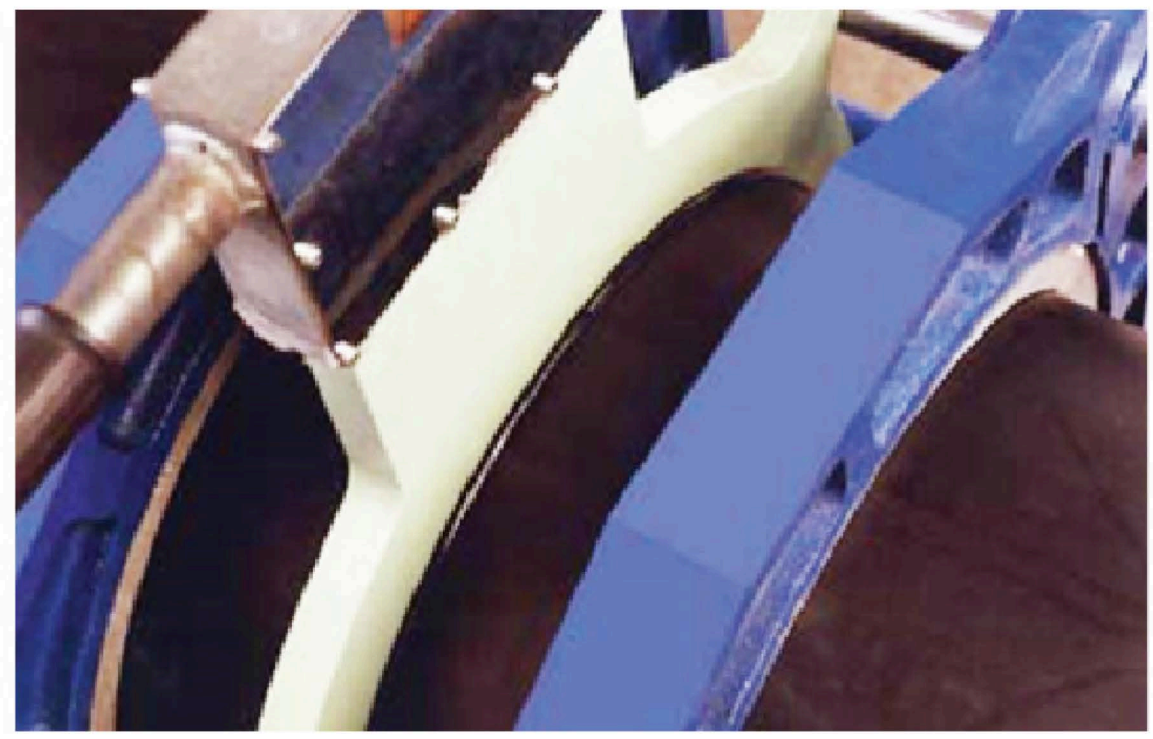
- Place the pipes in the clamps with the ends against the trimming tool and with the pipe markings aligned.
- Align and level the components using the support rollers.
- Tighten the pipe clamps to grip and re-round the pipes.
- Cover the free ends of the pipes to prevent cooling of the plate by internal draughts.
- Switch on the trimming tool and close the clamps slowly so that the pipe ends are moved against the trimming tool until continuous shavings are cut from each surface.
- Keep the trimming tool turning whilst opening the clamps to avoid steps on the trimmed surfaces.
- Remove the trimming tool taking care not to touch the trimmed ends.
- Remove loose shavings from the machine and component ends.
- Check that both surfaces are completely planed. If they are not then repeat the trimming process.
- Close the clamps and check that there is no visible gap between the trimmed faces.
- The maximum permitted outsider diameter mismatch is:
- 1.0mm for pipe sizes 90mm to 315mm
- 2.0mm for pipe sizes 316mm to 800mm
- If the mismatch is greater than these values then the pipe must be realigned and re - trimmed.
- Open and then close the clamps and note the drag pressure needed to move the pipes together using the hydraulic system.
- Remove the heater plate from its protective cover. Check that it is clean and up to temperature.

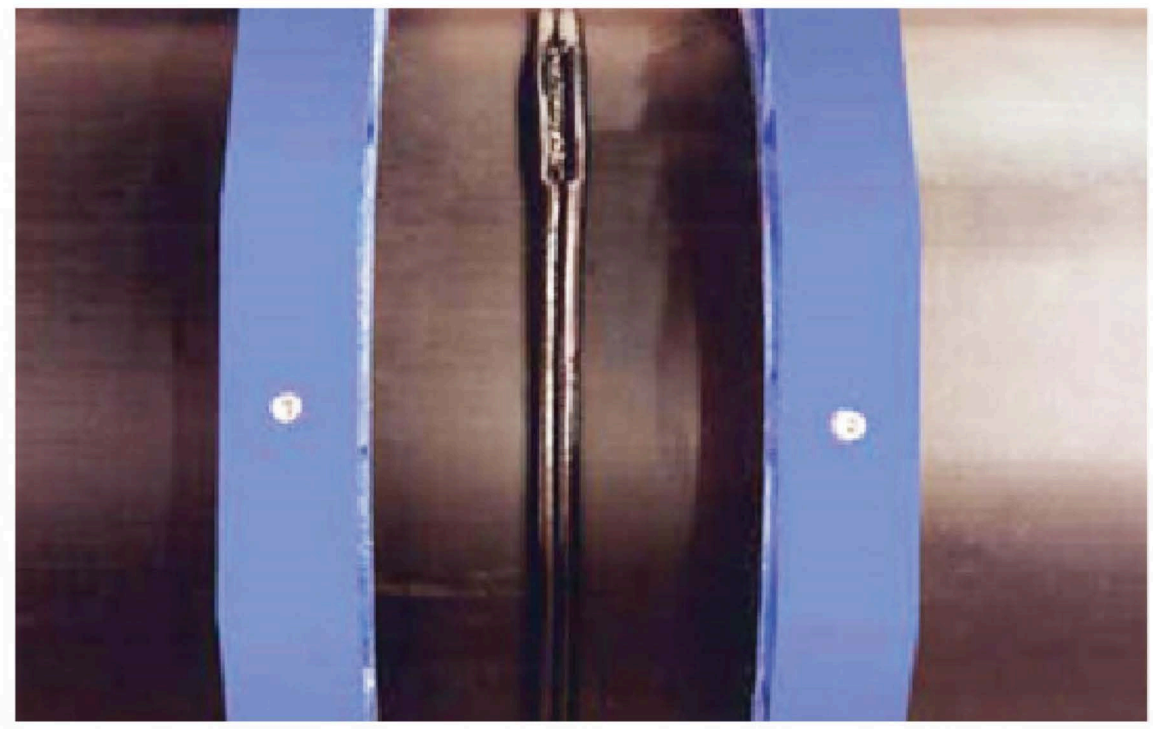


HDPE - BUTT FUSION WELDING

- Place the heater plate in the machine and close the clamps so that the surfaces to be joined are touching the plate. Using the hydraulic system apply the pressure previouslydetermined.
- Maintain the applied pressure until the pipe begins to melt and a uniform bead of 2-3mm is formed on each end.
- After the initial bead up, the pressure in the hydraulic system shall be released so that the pressure gauge registers between zero and the drag pressure so as to control the bead growth during the heat soak time. Check that the pipe does not slip in the clamps. The pipe ends must maintain contact with the heater plates.
- When the heat soak time is completed, open the clamps and remove the heater plate ensuring that the plate does not touch the melted surfaces.
- Immediately close the clamps (Within 8 to 10 seconds of removing the plate) and bring the melted surfaces together at the previously determined pressure.
- Maintain the required pressure for the minimum cooling time as indicated in the table.
- After this time the assembly can be removed from the machine but should not be handled for a further period equal to the cooling times given on page 9.
- Examine the joint for cleanliness and uniformity and check that the bead width is within the specified limits.
- Remove the external bead and if required the internal beads using suitable debeading tools.
- The beads and joint shall be numbered/coded using an indelible marker pen.
- Twist the beads at several positions. If the bead is seen to split at any point then the joint must be cut out from the pipeline and remade. If a similar defect re occurs, cease all further jointing until the equipment has been thoroughly cleaned, examined and new trial joints were made and shown to be satisfactory.







Buttweld Time and Pressure Tables

Outside diame-ter	SDR	Wall Thick_ ness (min)	Bead up inter_ face stress	Initial bead size (approx)	Soak time	Min soak inter-face stress	Max plate removal time	Fusion and cooling inter_ face stress	Cooling time in clamps	Cooling time out of clamps	Cooling time for coiled pipe in clamps	Typical final overall baed width	
mm		mm	Mpa	mm	sec	Mpa	sec	Mpa	min	min	min	min mm	max mm
90	26	3.5	0.15	2	95	0	10	0.15	10	5	15	8	15
90	17.6	5.1	0.15	2	110	0	10	0.15	10	5	15	8	15
90	11	8.2	0.15	2	140	0	10	0.15	10	5	15	9	16
110	26	4.2	0.15	2	100	0	10	0.15	10	5	15	8	15
110	17.6	6.3	0.15	2	125	0	10	0.15	10	5	15	9	16
110	11	10	0.15	2	160	0	10	0.15	10	5	15	10	17
125	26	4.8	0.15	2	110	0	10	0.15	10	5	15	8	15
125	17.6	7.1	0.15	2	130	0	10	0.15	10	5	15	9	16
125	11	11.4	0.15	2	175	0	10	0.15	10	5	15	10	17
160	26	6.2	0.15	2	120	0	10	0.15	10	5	15	9	16
160	17.6	9.1	0.15	2	150	0	10	0.15	10	5	15	9	16
160	11	14.6	0.15	2	205	0	10	0.15	10	5	15	11	18
180	26	6.9	0.15	2	130	0	10	0.15	10	5	15	9	16
180	17.6	10.2	0.15	2	160	0	10	0.15	10	5	15	10	17
180	11	16.4	0.15	2	225	0	10	0.15	10	5	15	11	18
225	26	8.6	0.15	2	145	0	10	0.15	10	5		9	16
225	17.6	12.8	0.15	2	190	0	10	0.15	10	5		10	17
225	11	20.5	0.15	2	265	0	10	0.15	10	5		12	19
250	26	9.6	0.15	2	155	0	10	0.15	10	5		9	16
250	17.6	14.2	0.15	2	200	0	10	0.15	10	5		10	17
280	26	10.7	0.15	3	170	0	10	0.15	10	5		13	22
280	17.6	15.9	0.15	3	220	0	10	0.15	10	5		14	23
315	26	12.1	0.15	3	180	0	10	0.15	10	5		13	22
315	17.6	17.9	0.15	3	240	0	10	0.15	10	5		14	23
	Tolerance		±0.02		±3			±0.02					

Table 1 — Single pressure Butt-fusion jointing conditions for PE63, PE80 and PE100 Heater Plate
Surface Temperature: 195˚C to200˚C

Outside diame-ter	SDR	Wall Thick_ ness (min)	Bead up inter-face stress	Initial bead size (approx)	Soak time	Min soak inter-face stress	Max plate removal time	Fusion inter_ face stress (after 10 sec)	Cooling inter_ face stress (after 10 sec)	Cooling time in clamps	Cooling time out of clamps	Typical final overall baed width	
mm		mm	Mpa	mm	sec	Mpa	sec	Mpa	min	min	min	min mm	max mm
250	11	22.7	0.15	2	285	0	10	0.15	0.025	15	7.5	15	24
280	11	25.4	0.15	3	315	0	10	0.15	0.025	15	7.5	16	25
315	11	28.6	0.15	3	345	0	10	0.15	0.025	15	7.5	17	26
355	26	13.6	0.15	3	195	0	10	0.15	0.025	10	5	13	22
355	17.6	20.1	0.15	3	260	0	10	0.15	0.025	15	7.5	15	24
355	11	32.3	0.15	3	385	0	10	0.15	0.025	15	7.5	18	27
400	26	15.3	0.15	3	215	0	10	0.15	0.025	10	5	14	23
400	17.6	22.7	0.15	3	285	0	10	0.15	0.025	15	7.5	15	24
400	11	36.4	0.15	3	425	0	10	0.15	0.025	20	10	18	27
450	26	17.2	0.15	3	235	0	10	0.15	0.025	10	5	14	23
450	17.6	25.6	0.15	3	315	0	10	0.15	0.025	15	7.5	16	25
450	11	41	0.15	3	470	0	10	0.15	0.025	20	10	19	28
500	26	19.1	0.15	3	250	0	10	0.15	0.025	10	5	15	24
500	17.6	28.3	0.15	3	345	0	10	0.15	0.025	15	7.5	16	25
500	11	45.5	0.15	3	515	0	10	0.15	0.025	20	10	20	29
560	26	21.4	0.15	3	275	0	10	0.15	0.025	15	7.5	15	24
560	17.6	31.7	0.15	3	380	0	10	0.15	0.025	15	7.5	17	26
560	11	50.8	0.15	3	570	0	10	0.15	0.025	20	10	22	31
630	26	24.1	0.15	3	300	0	10	0.15	0.025	15	7.5	16	25
630	17.6	35.7	0.15	3	420	0	10	0.15	0.025	15	7.5	18	27
630	11	57.2	0.15	3	635	0	10	0.15	0.025	25	12.5	23	32
710	26	27.2	0.15	3	335	0	10	0.15	0.025	15	7.5	16	25
710	17.6	40.2	0.15	3	465	0	10	0.15	0.025	20	10	19	28
800	26	30.6	0.15	3	370	0	10	0.15	0.025	15	7.5	17	26
800	17.6	45.3	0.15	3	515	0	10	0.15	0.025	20	10	20	29
900	26	34.6	0.15	3	405	0	10	0.15	0.025	20	10	18	27
900	17.6	50.9	0.15	3	570	0	10	0.15	0.025	20	10	22	31
1000	26	38.4	0.15	3	445	0	10	0.15	0.025	20	10	19	28
1000	17.6	56.6	0.15	3	630	0	10	0.15	0.025	25	12.5	23	32
	Tolerance		±0.02		±3			±0.02	±0.01				

Table 2 — Duelpressure butt-fusion jointing conditions for PE63, PE80 and PE100 Heater Plate
Surface Temperature: 195˚C to200˚C

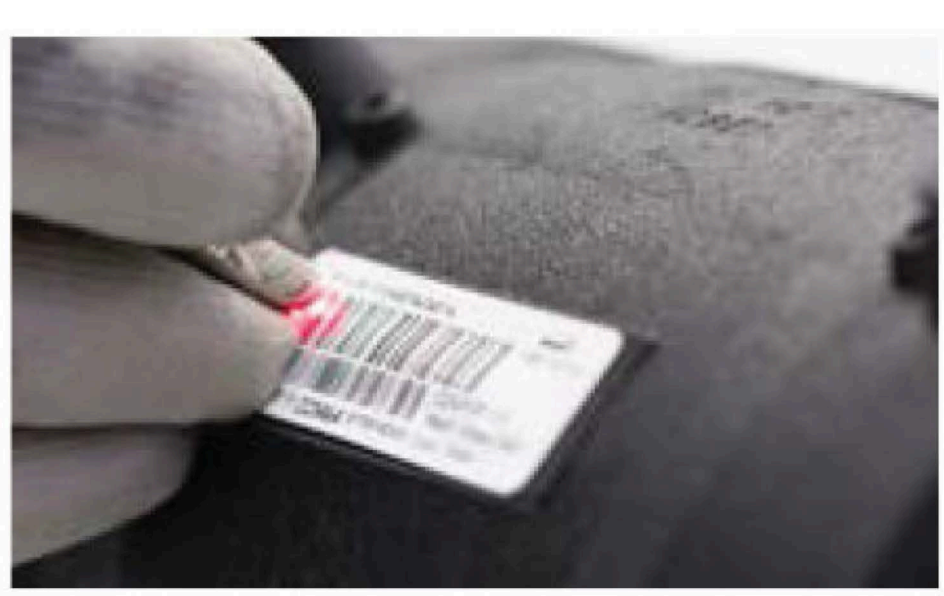
JOIN BY ELECTROFUSION

JOIN BY ELECTROFUSION

The system consists in passing a low voltage current through metal spirals that are inside the accessories, embedded in the Polyethylene, causing heating through the Joule effect, which causes the welding of the accessory to the pipe that was previously inserted.

Mark the length measured on the pipe

Insert the pipe into the accessory without forcing (the pipe must insert without forcing but without play)

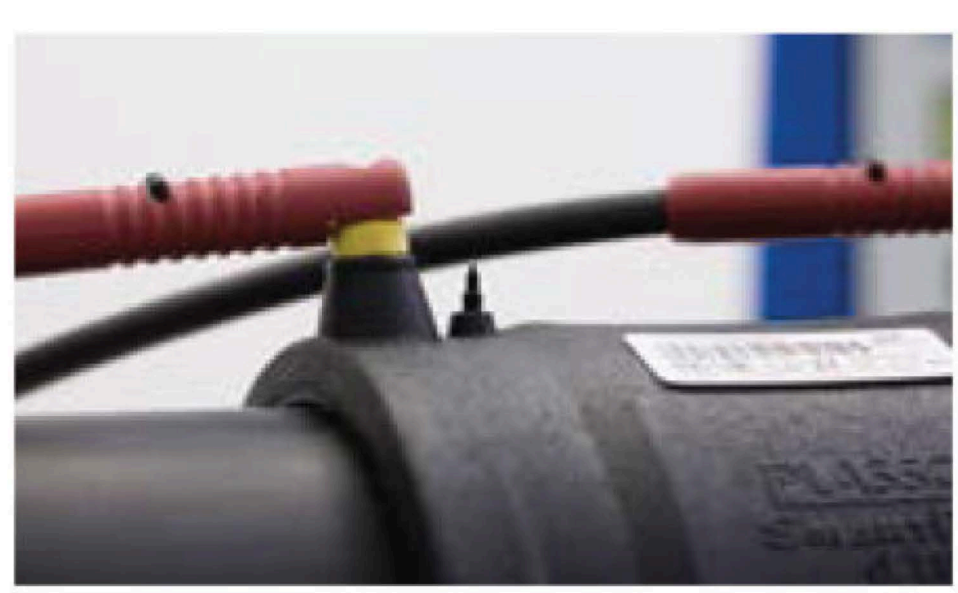


Read the code of the accessory label

Check the length of the pipe to be inserted into the accessory

Scrape the surface to be welded (better with automatic scraper)

Connect the terminals of the machine to the accessory



Wait until the welding process is finished (indicators appear)

ISO CERTIFICATES


Certificate AE11/1016.00

SGS

The management system of

NATIONAL PLASTIC FACTORY LLC

Way No 5491, Block No 154, Postal Code – 114, Muttrah, P.O Box 371, Muscat, Oman.

has been assessed and certified as meeting the requirements of

OHSAS 18001:2007

For the following activities

The Scope of registration appears on page 2 of this certificate.

This certificate is valid from 08 October 2016 until 28 September 2020 and remains valid subject to satisfactory surveillance audits.
Re certification audit due before 16 August 2020
Issue 5. Certified since 28 September 2011

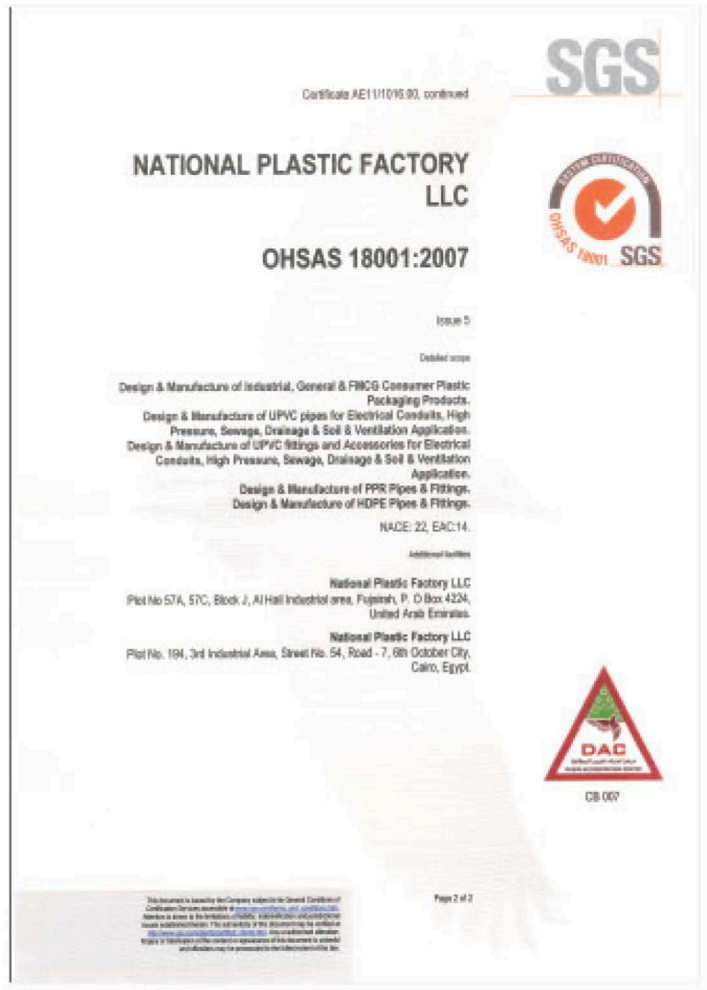
This is a multi-site certification
Additional site details are listed on the subsequent page

Authorised by

SGS Gulf Ltd.,
P.O. Box 16556, Dubai, United Arab Emirates
t +971-4-883 2222 f +971-4-883 1160 www.sgs.com

Page 1 of 2

CB 007


Certificate AE11/1016.00, continued

SGS

NATIONAL PLASTIC FACTORY LLC

OHSAS 18001:2007

Issue 5

Detailed scope

Design & Manufacture of Industrial, General & FMCG Consumer Plastic Packaging Products.
Design & Manufacture of UPVC pipes for Electrical Conduits, High Pressure, Sewage, Drainage & Soil & Ventilation Application.
Design & Manufacture of UPVC fittings and Accessories for Electrical Conduits, High Pressure, Sewage, Drainage & Soil & Ventilation Application.
Design & Manufacture of PPR Pipes & Fittings.
Design & Manufacture of HDPE Pipes & Fittings.

NACE: 22, EAC:14.

Additional facilities

National Plastic Factory LLC
Plot No 57A, 57C, Block J, Al Hail Industrial area, Fujairah, P. O Box 4224, United Arab Emirates.

National Plastic Factory LLC
Plot No. 194, 3rd Industrial Area, Street No. 54, Road - 7, 6th October City, Cairo, Egypt.

CB 007

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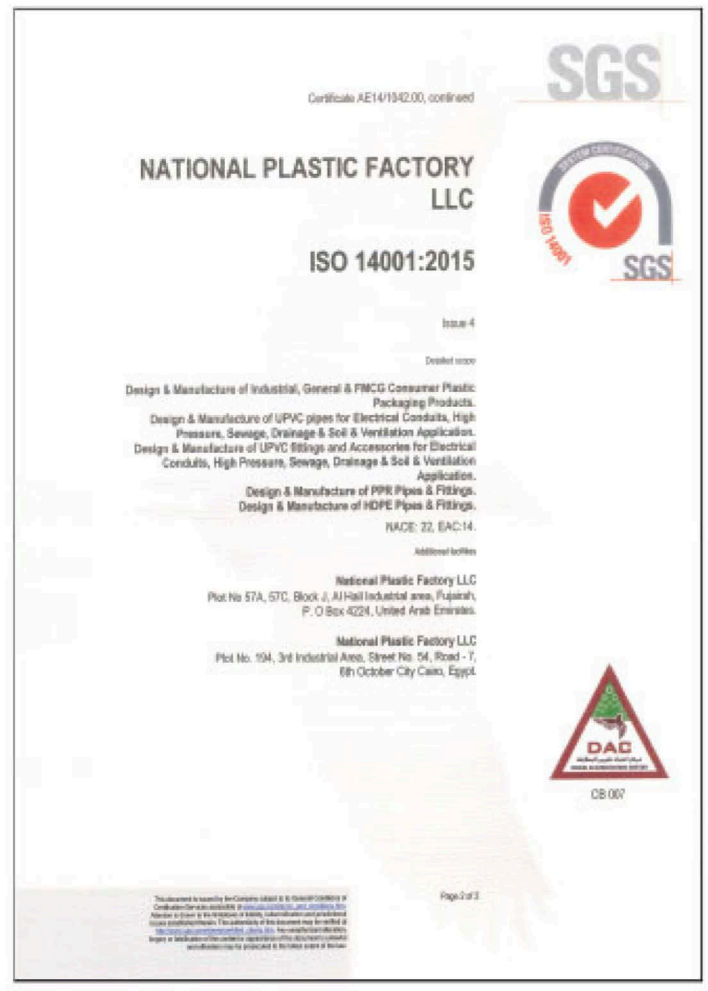
Certificate AE14/1042.00, continued

SGS

NATIONAL PLASTIC FACTORY LLC

ISO 14001:2015

Issue 4

Detailed scope

Design & Manufacture of Industrial, General & FMCG Consumer Plastic Packaging Products.
Design & Manufacture of UPVC pipes for Electrical Conduits, High Pressure, Sewage, Drainage & Soil & Ventilation Application.
Design & Manufacture of UPVC fittings and Accessories for Electrical Conduits, High Pressure, Sewage, Drainage & Soil & Ventilation Application.
Design & Manufacture of PPR Pipes & Fittings.
Design & Manufacture of HDPE Pipes & Fittings.

NACE: 22, EAC:14.

Additional facilities

National Plastic Factory LLC
Plot No 57A, 57C, Block J, Al Hail Industrial area, Fujairah, P. O Box 4224, United Arab Emirates.

National Plastic Factory LLC
Plot No. 194, 3rd Industrial Area, Street No. 54, Road - 7, 6th October City Cairo, Egypt.

CB 007

Page 2 of 3


Certificate AE14/1042.00

SGS

The management system of

NATIONAL PLASTIC FACTORY LLC

Way No 5491, Block No 154, Postal Code – 114, Muttrah, P.O Box 371, Muscat, Oman.

has been assessed and certified as meeting the requirements of

ISO 14001:2015

For the following activities

The Scope of registration appears on page 2 of this certificate.

This certificate is valid from 29 May 2018 until 6 September 2020 and remains valid subject to satisfactory surveillance audits.
Re certification audit due before 16 August 2020
Issue 4. Certified since 6 September 2011

This is a multi-site certification
Additional site details are listed on the subsequent page

Authorised by

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P.O. Box 16556, Dubai, United Arab Emirates
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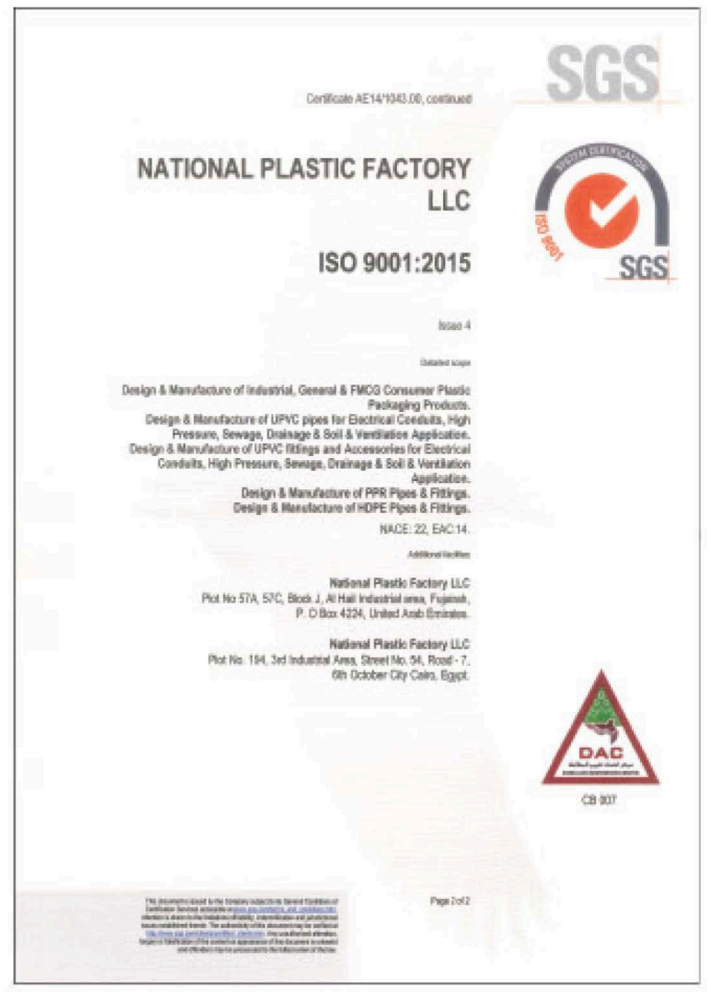
Page 1 of 2

CB 007


Certificate AE14/1043.00, continued

SGS

NATIONAL PLASTIC FACTORY LLC

ISO 9001:2015

Issue 4

Detailed scope

Design & Manufacture of Industrial, General & FMCG Consumer Plastic Packaging Products.
Design & Manufacture of UPVC pipes for Electrical Conduits, High Pressure, Sewage, Drainage & Soil & Ventilation Application.
Design & Manufacture of UPVC fittings and Accessories for Electrical Conduits, High Pressure, Sewage, Drainage & Soil & Ventilation Application.
Design & Manufacture of PPR Pipes & Fittings.
Design & Manufacture of HDPE Pipes & Fittings.

NACE: 22, EAC:14.

Additional facilities

National Plastic Factory LLC
Plot No 57A, 57C, Block J, Al Hail Industrial area, Fujairah, P. O Box 4224, United Arab Emirates.

National Plastic Factory LLC
Plot No. 194, 3rd Industrial Area, Street No. 54, Road - 7, 6th October City Cairo, Egypt.

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Certificate AE14/1043.00

SGS

The management system of

NATIONAL PLASTIC FACTORY LLC

Way No 5491, Block No 154, Postal Code – 114, Muttrah, P.O Box 371, Muscat, Oman.

has been assessed and certified as meeting the requirements of

ISO 9001:2015

For the following activities

The Scope of registration appears on page 2 of this certificate.

This certificate is valid from 29 May 2018 until 6 September 2020 and remains valid subject to satisfactory surveillance audits.
Re certification audit due before 16 August 2020
Issue 4. Certified since 6 September 2011

This is a multi-site certification
Additional site details are listed on the subsequent page

Authorised by

SGS Gulf Ltd.,
P.O. Box 16556, Dubai, United Arab Emirates
t +9714-883 2222 f +9714-8831160 www.sgs.com

Page 1 of 2

CB 007

An ISO 9001, 14001 & 18001

CERTIFIED COMPANY

HOTACE

BUILDERS TRUST - GLOBALLY

Omani

Glorious Success 25 Years Still Continuing

Since 1992

OMAN NATIONAL PLASTIC FACTORY L.L.C OMAN

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 local government authorities & internationally reputed institutions like Omani STD, Gulf STD & DIN STD 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

المصنع الوطني للبلاستيك ش.م.م NATIONAL PLASTIC FACTORY L.L.C

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 +٩٦٨
فاكس: ٢٤٨١٠٠٧٨ +٩٦٨
البريد الإلكتروني: info@nationalplasticoman.com
موقع : Website: www.nationalplasticoman.com

فرع / أعمال :
المصنع الوطني للبلاستيك ش.م.م (عمان الإمارات. مصر)
منطقة الحيل الصناعية
فجيرة - الإمارات ص.ب: ٤٢٢٤
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