Palconn®

PALCONN TECHNOLOGY

PALCONN

Approvales

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Company profile

PALCONN is a leading piping system in developing, producing and exporting all kinds of plastic pipes and fittings in China which can provide integrated system solutions to create comfortable life, work and recreational environment.

We' re mainly export PEX pipe, PERT pipe, PPR pipe, PB pipe, EVOH PEX/PERT/PB oxygen barrier pipe, PEX-AL-PEX pipe, PE-AL-PE Gas pipe,drip irrigation pipe, PVC/PP soundproof drainage pipe.Our products are widely used in floor heating, water supply, gas,air-condition,solar, irrigation, drainage system etc.

PALCONN adopts imported high quality material.High quality raw materials preliminary determine the quality of the pipe but strict monitoring quality control system throughout whole procedure from raw material supply to final products manufactured.

With the growing market demand, Palconn all production lines have upgraded to the most advanced high-speed extrusion equipment, whole production lines adopt the imported new generation SIMENS PLC control system to ensure pipe quality and producing efficiency.

We take samples for inspection to check the accuracy of pipe dimension when producing. We print clear marks, date, standard,production code and other specification on pipe for tracking and resourcing.

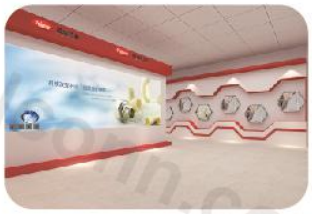
We also adopts precise automated testing equipment to monitor the producing all the time, strictly guarantee the pipe outside diameter, wall thickness and OOR strictly in the tolerance of standard.The Ultrasonic probe will accurately test the unqualified pipe then cuts it automatically.

All monitoring results must meet ISO9001 standard and be recorded, factory interior implement zero-defect quality management.

There is no doubt we have a complete quality management system so you can trust our pipe quality.

PALCONN pipe has been approved by many third-party of international authoritative organization.Such as NSF,CSA,UPC,WRAS, SAI GLOBAL,TUV Rheinland,Bureau Veritas, INTERTEK,SGS,ANNB,UKAS, CE certificates.

If you need reliable, efficient and high cost performance pipe system, Palconn will be your best choice.



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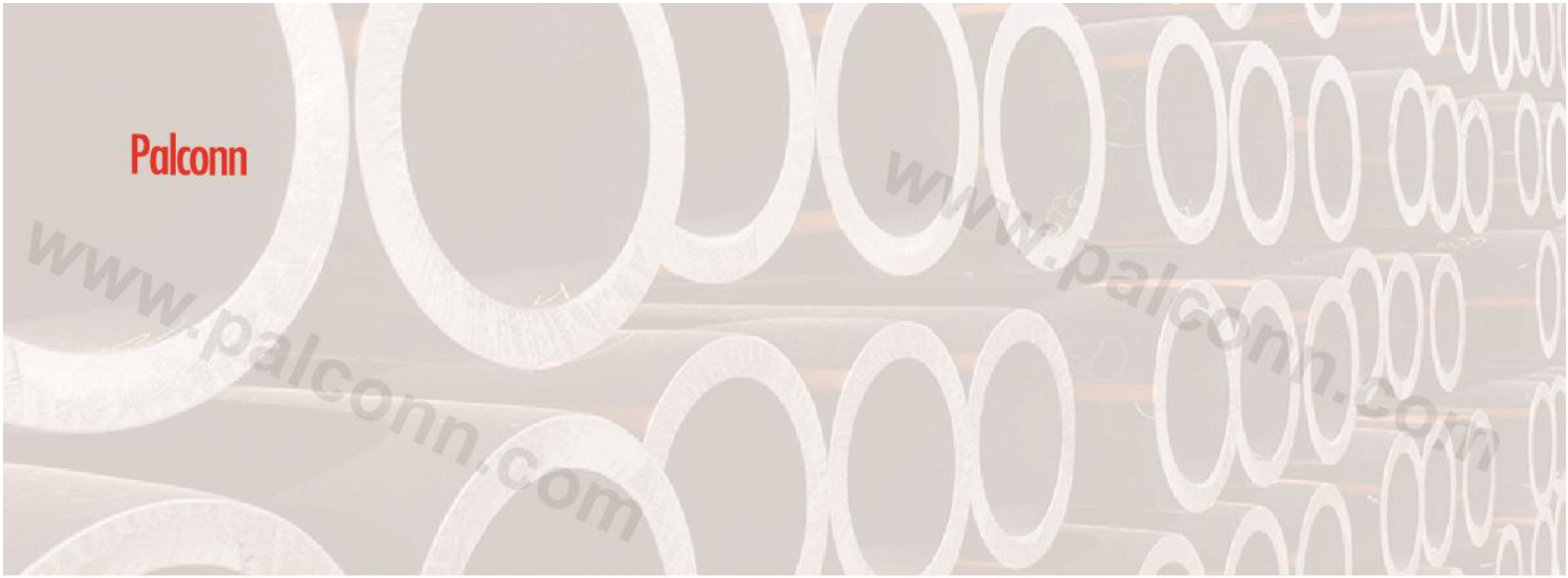


HDPE Pipe & Fittings

General Introduction

Palconn brand , HDPE Pipe,High–density polyethylene are sorted by strength classified according to the intensity of the earlier technological developments. HDPE Pipe pressure classes that can be made between Pn4–Pn25 and the production of the desired diameter and size of HDPE pressure pipe system has undergone many tests, particularly in the carriage of drinking water.HDPE piping systems is economical, easy in handling, efficient performance, easy method of coupling.

Advantages

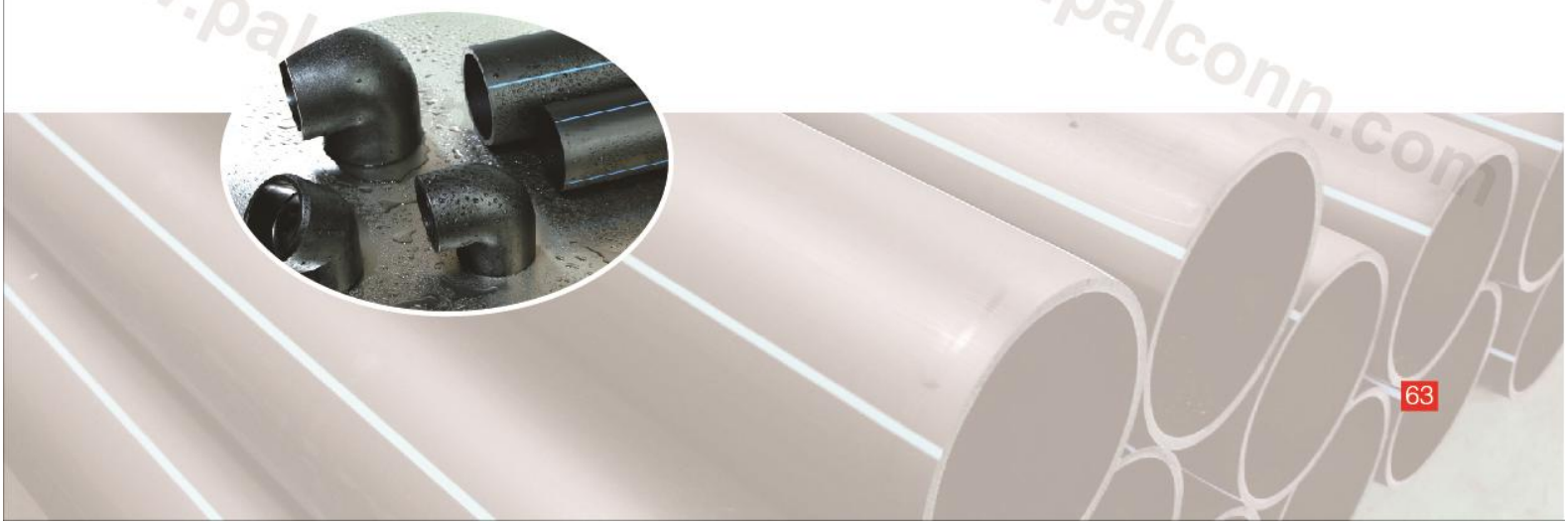
1. Good physical property and flexibility, wear proof and shockproof quality.
2. Its installation and connection is simple and reliable,the interface strength of heat melt and electric fusion connection is higher than of pipe itself.
3. Simple welding and fast constructing .low excavation quantities :compared with metal pipe. it can save 1/3 construction cost .
4. 50 years service life, few or no maintenance.
5. Harmless, sanitary,is green building material:no fouling,no woolly masses, not breeding bacterium,no secondary pollution.
6. Smooth inner wall, low friction coefficient,water distribution quantity enhances above 30% under the same condition compared with the cast pipe.

Application

1.Lift and gravity water supply systems.
2.Micro & sprinkler irrigation systems.
3.Sewerage pumping and effluent disposal systems.
4.Column pipes for submersible pumps.

HDPE Pipe for water supply dimension

PE80	PN3.2	PN4	PN5	PN6	PN8	PN10	PN12.5	PN16	PN20	PN25
PE100	PN4	PN5	PN6	PN8	PN10	PN12.5	PN16	PN20	PN25	–
Outside Diameter mm	SDR41	SDR33	SDR26	SDR21	SDR17	SDR13.6	SDR11	SDR9	SDR7.4	SDR6
	Thickness mm									
16	–	–	–	–	–	–	–	2.0	2.3	3.0
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	–	–	2.0	2.4	3.0	3.7	4.6	5.6	6.9	8.3
63	–	–	2.5	3.0	3.8	4.7	5.8	7.1	8.6	10.5
75	–	–	2.9	3.6	4.5	5.6	6.8	8.4	10.3	12.5
90	–	–	3.5	4.3	5.4	6.7	8.2	10.1	12.3	15.0
110	–	–	4.2	5.3	6.6	8.1	10.0	12.3	15.1	18.3
125	–	–	4.8	6.0	7.4	9.2	11.4	14.0	17.1	20.8
140	–	–	5.4	6.7	8.3	10.3	12.7	15.7	19.2	23.3
160	–	–	6.2	7.7	9.5	11.8	14.6	17.9	21.9	26.6
180	–	–	6.9	8.6	10.7	13.3	16.4	20.1	24.6	29.9
200	–	–	7.7	9.6	11.9	14.7	18.2	22.4	27.4	33.2
225	–	–	8.6	10.8	13.4	16.6	20.5	25.2	30.8	37.4
250	–	–	9.6	11.9	14.8	18.4	22.7	27.9	34.2	41.5
280	–	–	10.7	13.4	16.6	20.6	25.4	31.3	38.3	46.5
315	7.7	9.7	12.1	15.0	18.7	23.2	28.6	35.2	43.1	52.3
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	–
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	–	–
560	13.7	17.2	21.4	26.7	33.2	41.2	50.8	62.5	–	–
630	15.4	19.3	24.1	30.0	37.4	46.3	57.2	70.3	–	–
710	17.4	21.8	27.2	33.9	42.1	52.2	64.5	79.3	–	–
800	19.6	24.5	30.6	38.1	47.4	58.8	72.6	89.3	–	–
900	22.0	27.6	34.4	42.9	53.3	66.2	81.7	–	–	–
1000	24.5	30.6	38.2	47.7	59.3	72.5	90.2	–	–	–
1200	29.4	36.7	45.9	57.2	67.9	88.2	–	–	–	–



HDPE fiber optic micro cable duct

Pipe Description:

Microduct variants for direct installation into the ground or installation into the protective sleeve, Microduct is a new high–tech products, in reducing the cost, easy construction conditions, exponentially enhance the value of existing underground pipeline capacity and resources, has a traditional pipe products irreplaceable advantages.

Microduct Material:

The microducts are manufactured from HDPE.

Material properties at 23 ° C:

Average density: > 0.94 g/cm^3

Coefficient of linear expansion: 2.0 × 10–4 K–1

Thermal conductivity: 0.41 WK–1m–1

Modulus of elasticity: Short–term: min. 800 N/mm^2 Long–term: min. 160 N/mm^2

Spec. surface resistance: > 10^12 Ω

Microduct Material:

Outer diameter(mm)	Inner diameter(mm)	Thickness(mm)	MaX.tensile strength
5	3.5	0.75	150
7	3.5	1.75	430
7	5.5	0.75	220
8	6	1	330
10	8	1	420
12	8	2	935
12	10	1	515
14	10	2	1010
14	12	1	550
16	12	2	1150
16	14	1	630

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PE BUTT FUSION FITTINGS

Butt fusion reducing coupling

Spec mm	PALCONN Code
S75–63	
S90–50	
S90–63	
S90–75	
S110–50	
S110–63	
S110–75	
S110–90	
S125–75	
S125–90	
S125–110	
S160–63	
S160–75	
S160–90	
S160–110	
S160–125	
S180–90	
S180–140	
S200–90	
S200–110	
S200–160	
S225–110	
S225–160	
S225–200	
S250–110	
S250–160	
S250–200	
S315–110	
S315–160	
S315–200	
S315–250	
S400–315	
S500–400	
S630–500	

Butt fusion reducing coupling

Spec mm	PALCONN Code
S250–90	
S250–125	
S250–180	
S315–125	
S315–180	
S400–110	
S400–125	
S400–160	
S400–200	
S400–225	
S400–250	
S400–280	
S450–110	
S450–125	
S450–160	
S450–180	
S450–200	
S450–250	
S450–280	
S450–315	
S450–355	
S500–200	
S500–225	
S500–250	
S500–280	
S500–315	
S500–355	
S630–200	
S630–225	
S630–250	
S630–280	
S630–315	
S630–355	
S630–450	

Socket tee

Spec mm	PALCONN Code
T63	
T75	
T90	
T110	
T125	
T140	
T160	
T180	
T200	
T225	
T250	
T280	
T315	
T355	
T400	
T450	
T500	
T630	

Butt fusion reducing tee

Spec mm	PALCONN Code
T63–50	
T75–50	
T75–63	
T90–50	
T90–63	
T90–75	
T110–50	
T110–63	
T110–75	
T110–90	
T125–50	
T125–63	
T125–75	
T125–90	
T125–110	
T140–63	
T140–75	
T140–90	
T140–110	
T140–125	
T160–50	
T160–63	
T160–75	
T160–90	
T160–110	
T180–110	
T180–125	
T180–140	
T180–160	
T200–63	
T200–75	
T200–90	
T200–110	
T200–160	
T225–110	
T225–160	
T225–200	
T250–110	
T250–160	
T250–200	
T280–110	
T280–160	
T280–200	
T280–250	
T315–110	
T315–160	
T315–200	
T315–225	
T315–250	
T355–160	

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Butt fusion elbow 90 deg

Spec mm	PALCONN Code
L63	
L75	
L90	
L110	
L125	
L140	
L160	
L180	
L200	
L225	
L250	
L280	
L315	
L355	
L400	
L500	
L630	

Butt fusion elbow 45 deg

Spec mm	PALCONN Code
L75	
L90	
L110	
L125	
L160	
L200	
L225	
L250	
L315	
L355	
L400	
L450	
L500	
L560	
L630	

Butt fusion end cap

Spec mm	PALCONN Code
D75	
D90	
D110	
D125	
D140	
D160	
D180	
D200	
D225	
D250	
D280	
D315	
D355	
D400	
D450	
D500	
D560	
D630	

Butt fusion stub end

Spec mm	PALCONN Code
F50	
F63	
F75	
F90	
F110	
F125	
F140	
F160	
F180	
F200	
F225	
F250	
F280	
F315	
F355	
F400	
F450	
F500	
F560	
F630	
F710	
F800	
F900	
F1000	

Butt fusion reducing tee

Spec mm	PALCONN Code
T355–200	
T355–250	
T355–280	
T355–315	
T400–110	
T400–160	
T400–200	
T400–250	
T400–315	
T450–315	
T450–400	
T500–110	
T500–160	
T500–200	
T500–250	
T500–315	
T500–400	
T630–110	
T630–160	
T630–200	
T630–250	
T630–315	
T630–400	
T630–500	

Butt fusion cross tee

Spec mm	PALCONN Code
X110	
X160	
X200	
X250	
X315	

Butt anti–corrosion flange

Spec mm	PALCONN Code
F125	
F160	
F200	
F225	
F250	
F315	

Butt forge flange

Spec mm	PALCONN Code
F50	
F63	
F75	
F90	
F110	
F125	
F140	
F160	
F180	
F200	
F225	
F250	
F280	
F315	
F355	
F400	
F450	
F500	
F560	
F630	
F710	
F800	
F900	
F1000	

PALCONN Plastics Technology

PE SOCKET FITTINGS

Socket coupling

Spec mm	PALCONN Code
S20	
S25	
S32	
S40	
S50	
S63	
S75	
S90	
S110	

Socket tee

Spec mm	PALCONN Code
T20	
T25	
T32	
T40	
T50	
T63	
T75	
T90	
T110	

Socket reducer

Spec mm	PALCONN Code
S25–20	
S32–20	
S32–25	
S40–20	
S40–25	
S40–32	
S50–20	
S50–25	
S50–32	
S50–40	
S63–20	
S63–25	
S63–32	
S63–40	
S63–50	
S75–32	
S75–40	
S75–50	
S75–63	
S90–40	
S90–50	
S90–63	
S90–75	
S110–40	
S110–50	
S110–63	
S110–75	
S110–90	

Socket tee

Spec mm	PALCONN Code
T25–20	
T32–20	
T32–25	
T40–20	
T40–25	
T40–32	
T50–20	
T50–25	
T50–32	
T50–40	
T63–20	
T63–25	
T63–32	
T63–40	
T63–50	
T75–32	
T75–40	
T75–50	
T75–63	
T90–40	
T90–50	
T90–63	
T90–75	
T110–40	
T110–50	
T110–63	
T110–75	
T110–90	

Socket elbow 90 deg

Spec mm	PALCONN Code
S20	
S25	
S32	
S40	
S50	
S63	
S75	
S90	
S110	

Socket elbow 45 deg

Spec mm
L20–45°
L25–45°
L32–45°
L40–45°
L50–45°
L63–45°
L75–45°
L90–45°
L110–45°

Socket stub end

Spec mm	PALCONN Code
F40	
F50	
F63	
F75	
F90	
F110	

Socket anti–corrosion flange

Spec mm	PALCONN Code
F50	
F63	
F75	
F90	
F110	

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Socket end cap

Spec mm	PALCONN Code
D20	
D25	
D32	
D40	
D50	
D63	
D75	
D90	
D110	

Socket stop valve

Spec mm	PALCONN Code
D20	
D25	
D32	
D40	
D50	
D63	

Socket female threaded coupling

Spec mm	PALCONN Code
S20–1/2F	
S20–3/4F	
S25–1/2F	
S25–3/4F	
S32–1/2F	
S32–3/4F	
S32–1F	
S40–1.1/4F	
S50–1.1/2F	
S63–3/4F	
S63–1F	
S63–2F	
S75–2.1/2F	

Socket male threaded coupling

Spec mm	PALCONN Code
S20–1/2M	
S20–3/4M	
S25–1/2M	
S25–3/4M	
S32–1/2M	
S32–3/4M	
S32–1M	
S40–1.1/4M	
S50–1.1/2M	
S63–1.1/2M	
S63–2M	
S75–2.1/2M	

Socket female threaded coupling

Spec mm	PALCONN Code
T20–1/2F	
T25–1/2F	
T25–3/4F	
T32–3/4F	
T32–1F	
T40–1F	
T50–1/2F	
T50–3/4F	
T63–1/2F	
T63–3/4F	
T63–1F	

Socket male threaded tee

Spec mm	PALCONN Code
T20–1/2M	
T25–1/2M	
T25–3/4M	
T32–1/2M	
T32–3/4M	
T32–1M	
T40–1M	
T50–1/2M	
T50–3/4M	
T63–1/2M	
T63–3/4M	

Socket female threaded elbow

Spec mm	PALCONN Code
L20–1/2F	
L25–1/2F	
L25–3/4F	
L32–3/4F	
L32–1F	
L63–2F	

Socket male threaded elbow

Spec mm	PALCONN Code
L20–1/2M	
L25–1/2M	
L25–3/4M	
L32–3/4M	
L32–1M	
L63–2M	

Socket female threaded union

Spec mm	PALCONN Code
D20–1/2F	
D25–3/4F	
D32–1F	
D40–1.1/4F	
D50–1.1/2F	
D63–2F	

Socket male threaded union

Spec mm	PALCONN Code
D20–1/2M	
D25–3/4M	
D32–1M	
D40–1.1/4M	
D50–1.1/2M	
D63–2M	

Palconn

PP compression fittings

TEE

Size(mm)
20 25 32 40 50 63 75 90 110

ELBOW

Size(mm)
20 25 32 40 50 63 75 90 110

COUPLING

Size(mm)
20 25 32 40 50 63 75 90 110

END CAP

Size(mm)
20 25 32 40 50 63 75 90 110

MALE ELBOW

Size(mm)
20x1/2"" 25x3/4" 32x1" 40x11/4" 50x11/2" 63x2" 75x21/2" 90x3" 110x4"

FEMALE ELBOW

Size(mm)
20x1/2" 25x3/4" 32x1" 40x1x/4" 50x11/2" 63x11/2" 63x2" 75x2" 75x21/2" 90x3" 110x4"

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Female TEE

Size(mm)														
20x½"	20x¾"	25x½"	25x¾"	25x1"	32x½"	32x¾"	32x1"	40x1"	40x1¼"	50x1½"	63x1½"	63x2"	75x2½"	90x3"	110x4"

FEMALE ADAPTOR

Size(mm)										
20 x 1/2"	20 x 3/4"	25 x 1/2"	25 x 3/4"	25 x 1"	32 x 1"	40x1–1/4"	50x11/2"	63x2"	75x2–1/2"	90x3	110x4

REDUCING COUPLING

Size(mm)														
25X20	32X20	32X25	40X25	40X32	50X25	50X32	50X40	63X32	63X4063X50	75X50	75X63	90X63	90X75	110X90

REDUCING TEE

Size(mm)							
25x20x25	32x20x32	32x25x32	40x25x40	40x32x40	50x25x50	50x32x50	50x40x50
	63x50x63	75x50x75	75x63x75	90x63x90	90x75x90	110x90x110	

MALE ADAPTOR

Size(mm)															
20 x 1/2"	20 x 3/4"	20x1"	25 x 1/2"	25 x 3/4"	25 x 1"	32 x1/2"	32 x 3/4"	32 x 1"	32x1–1/4"	40x1"	40x1–1/4"	40x1–1/2"			
50x11/4"	50x11/2"	0x2"	63x11/2"	63x2"	63x2–1/2"	75x2"	75x2–1/2"	75*3"	90x2"	90x2–1/2	90x3	90x4	110x3"	110x4"	

SADDLE with steel reinforced ring, with bolts&nuts

Size(mm)												
Φ25x1/2"	Φ25x3/4"	Φ32x1/2"	Φ32x3/4"	Φ32x1"	40x1/2"	40x3/4"	40x1"	50x1/2"	50x3/4"	50x1"	63x1/2"	63x3/4"
63x1"	75x3/4"	75x1"	75x1-1/2"	90x3/4"	90x1"	90x1-1/2"	90x2"	110x1/2"	110x3/4"	110x1"	110x1-1/2"	110x2"	110x3"

MALE TEE

Size(mm)												
20x½"	20x¾"	25x½"	25x¾"	25x1"	32x½"	32x¾"	32x1"	32x1¼"	40x1"	40x1¼"	40x1½"	50x1¼"
50x1½"	50x2"	63x1½"	63x2"	63x2½"	75x2"	75x2½"	75x3"	90x3"	90x4"	110x3"	110x4"	

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WEIFANG PALCONN PLASTICS TECHNOLGY CO.,LTD
ADD:YINMA INDUSTRIAL ZONE,WEIFANG,SHANDONG,CHINA
ZIP CODE:261317
Tel/Fax:0086-536-8798363
Email: info@palconn.cn
WEB:http://www.palconn.com