



合順塑膠工業(馬)有限公司

Hup Soon Plastic Industrial (M) Sdn Bhd

Hup Soon Plastic Trading Sdn Bhd

Established since 1966

A Symbol of Quality and Reliability

Hup Soon is A Symbol of Quality and Reliability

Our History



合順塑膠工業(馬)有限公司

Hup Soon Plastic Industrial (M) Sdn. Bhd. (197301001363)
Hup Soon Plastic Trading Sdn. Bhd. (198501014061)

Founded in Ipoh, Perak in 1966, **Hup Soon Plastic Industrial (M) Sdn. Bhd.** is a Malaysian manufacturer of PVC-U and HDPE piping systems, serving residential, commercial, industrial, and infrastructure projects across Malaysia and the region.

With over five decades of manufacturing experience, Hup Soon supports projects where **regulatory compliance, consistent quality, and supply reliability** are critical. Our products are designed to meet recognised **local and international standards**, enabling smooth approval processes and dependable long-term performance.

Today, Hup Soon continues to support engineers, consultants, contractors, and utilities with manufacturing discipline, certified systems, and scalable supply capability.

Since 1966



VISION & MISSION

VISION

To be a trusted regional manufacturer of piping systems, recognised for consistent quality, compliance, and long-term reliability in infrastructure and industrial applications.

We are driven by a well-organised professional team, **cooperative, dedicated, and fully committed to the success of our partners.** Through disciplined execution, advanced expertise, and the adoption of state-of-the-art manufacturing technologies, we position the Hup Soon brand as one that is synonymous with **quality, reliability, and trust.**

OUR COMMITMENT

Our commitment ensures **reduced project risk, predictable performance, and long-term customer confidence.**

We continuously upgrade our manufacturing equipment and technical knowledge to ensure our products achieve long-term durability, performance, and reliability. This commitment is upheld by a well-trained professional team across planning, production, and quality control, whose **discipline and expertise make our promise of quality possible.**

MISSION

To manufacture and supply piping solutions that meet **established standards, support regulatory approval, and deliver dependable performance** throughout the project lifecycle.

We are receptive to new ideas and continuous improvement, investing consistently in R&D, process enhancement, and new product development. Built on decades of experience and proven success, we leverage a solid foundation to move forward with confidence, earning the continued support and trust of both local and international customers.

Quality and excellence remain our top priorities, ensuring **long-term customer satisfaction, operational reliability and sustained growth.**

Why Partner with Us



合順塑膠工業(馬)有限公司

Hup Soon Plastic Industrial (M) Sdn. Bhd.
Hup Soon Plastic Trading Sdn. Bhd.

In an environment of tightening regulations and increasing project complexity, selecting the right infrastructure partner is critical.

Hup Soon is an ideal partner to customers who require compliance certainty, manufacturing discipline, and dependable supply.

Our strength lies in one simple principle,
WE ALWAYS DELIVER ON OUR PROMISE. From consistent product quality to on-time supply and responsive support, we operate with the discipline and dependability that enterprise clients demand.

Global Reach & Distribution Network

With a regional distribution hub in Singapore and partners across **Malaysia, Brunei, Indonesia, and ASEAN**, Hup Soon offers a unified regional supply framework, ensuring standardized product quality, synchronized logistics, and responsive coordination for cross-border projects, allowing enterprise clients to standardize procurement and quality specifications across multiple countries, simplifying sourcing and compliance management.



Supporting cross-border procurement
Enable efficient logistics and coordinated delivery
Prompt fulfillment for regional tenders and project sites
Faster approvals, reduced compliance risk
Stable supply for multi-site projects

Why Clients Choose Hup Soon

- **Established Manufacturing Heritage**
Established in 1996 with over five decades of continuous operation, supporting infrastructure, industrial, and construction sectors.
- **Certified & Compliant Operations**
Fully compliant with ISO 9001, Malaysian, Japanese & Singaporean standards for global and local projects.
- **Engineering-Aligned Products**
Direct control over formulation, performance improvement and process optimisation at every stage.
- **Supply Reliability & Responsiveness**
Strong material sourcing and production capability to meet high volume procurement schedules, combined with highly responsive support.
- **Customisation Capability**
Ability to adapt specifications to suit project, regulatory, or application requirements.
- **Multi-Sector Application**
Proven use across turnkey construction, sanitation systems, industrial filtration (air, gas, liquid), and expanding into solar-related applications.

Our Valued Customers



KEEP REENGINEERING, KEEP INNOVATING



Our commitment continues beyond delivery. A dedicated support team provides installation guidance, warranty response, and ongoing technical consultation to maintain system performance throughout each project's life cycle.

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MALAYSIA INDUSTRY STANDARD

HDPE PIPES

Our High Density Polyethylene (HDPE) pipes are designed for applications requiring high durability, pressure resistance, and long service life.

Their strength, flexibility, and resistance to corrosion make them suitable for a broad range of building and industrial systems.

Scope of applications:

- Cold water supply and distribution systems
- Pump rooms and mechanical plant rooms
- Sewage and drainage
- Sub-duct for telecommunication
- Potable water systems
- Industrial process water lines
- Compressed air and fluid transfer systems
- Utility piping within commercial and industrial buildings

HDPE systems are commonly specified where flexibility, impact resistance, and long-term performance are critical.

PE80 Suitable for standard pressure applications

PE100 Higher strength material for increased pressure performance and durability

HDPE pipes are commonly specified according to nominal pressure class (PN), with pressure ratings up to PN16 (16 bar). Hup Soon's HDPE pipes are available in sizes ranging from **20mm to 630mm**, supporting both small-scale installations and high-capacity systems.

■ Pipe Features

- Smooth internal surface, energy efficient, water and abrasion resistant
- Termite proof, inert to chemicals, UV resistant
- Weather resistance, good thermal and electrical insulation
- Tough, strong and impact resistant

PE80

- Color: Black with 4 blue stripes
- Standard MS 1058: Part 2 : 2005 | Equivalent to ISO 4427

Size (mm)	PN10		PN12.5		PN16		PN20	
	Thickness MIN(mm)	Thickness MAX(mm)	Thickness MIN(mm)	Thickness MAX(mm)	Thickness MIN(mm)	Thickness MAX(mm)	Thickness MIN(mm)	Thickness MAX(mm)
20	–	–	2.0	2.3	2.3	2.7	3.0	3.4
25	2.0	2.3	2.3	2.7	3.0	3.4	3.5	4.0
32	2.4	2.8	3.0	3.4	3.6	4.1	4.4	5.0
40	3.0	3.5	3.7	4.2	4.5	5.1	5.5	6.2
50	3.7	4.2	4.6	5.2	5.6	6.3	6.9	7.7
63	4.7	5.3	5.8	6.5	7.1	8.0	8.6	9.6
75	5.6	6.3	6.8	7.6	8.4	9.4	10.3	11.5
90	6.7	7.5	8.2	9.2	10.1	11.3	12.3	13.7
110	8.1	9.1	10.0	11.1	12.3	13.7	15.1	16.8
125	9.2	10.3	11.4	12.7	14.0	15.6	17.1	19.0
160	11.8	13.1	14.6	16.2	17.9	19.8	21.9	24.2
180	13.3	14.8	16.4	18.2	20.1	22.3	24.6	27.2
200	14.7	16.3	18.2	20.2	22.4	24.8	27.4	30.3
225	16.6	18.4	20.5	22.7	25.2	27.9	30.8	34.0
250	18.4	20.4	22.7	25.1	27.9	30.8	34.2	37.8
280	20.6	22.8	25.4	28.1	31.3	34.6	38.2	42.3
315	23.2	25.7	28.6	31.6	35.2	38.9	43.1	47.6
355	26.1	28.9	32.2	35.6	39.7	43.8	48.5	53.5
400	29.4	32.5	36.3	40.1	44.7	49.3	54.7	60.3
450	33.1	36.6	40.9	45.1	50.3	55.5	61.5	67.8
500	36.8	40.6	45.4	50.1	55.8	61.5	–	–
560	41.2	45.5	50.8	56.0	–	–	–	–
630	46.3	51.1	57.2	63.1	–	–	–	–

- Standard Length 5.8m ± 5mm



PE100

- Color: Black with 4 blue stripes
- Standard MS 1058: Part 2 : 2003 | Equivalent to ISO 4427

PN10					PN12.5		PN16		PN20	
Size (mm)	OD(mm)		Thickness		Thickness		Thickness		Thickness	
	MIN(mm)	MAX(mm)	MIN(mm)	MAX(mm)	MIN(mm)	MAX(mm)	MIN(mm)	MAX(mm)	MIN(mm)	MAX(mm)
16	16	16.3	–	–	–	–	–	–	2.0	2.3
20	20	20.3	–	–	–	–	2.0	2.3	2.3	2.7
25	25	25.3	–	–	2.0	2.3	2.3	2.7	3.0	3.4
32	32	32.3	2.0	2.3	2.4	2.8	3.0	3.4	3.6	4.1
40	40	40.4	2.4	2.8	3.0	3.5	3.7	4.2	4.5	5.1
50	50	50.4	3.0	3.4	3.7	4.2	4.6	5.2	5.6	6.3
63	63	63.4	3.8	4.3	4.7	5.3	5.8	6.5	7.1	8.0
75	75	75.5	4.5	5.1	5.6	6.3	6.8	7.6	8.4	9.4
90	90	90.6	5.4	6.1	6.7	7.5	8.2	9.2	10.1	11.3
110	110	110.7	6.6	7.4	8.1	9.1	10.0	11.1	12.3	13.7
125	125	125.8	7.4	8.3	9.2	10.3	11.4	12.7	14.0	15.6
160	160	161.0	9.5	10.6	11.8	13.1	14.6	16.2	17.9	19.8
180	180	181.1	10.7	11.9	13.3	14.8	16.4	18.2	20.1	22.3
200	200	201.2	11.9	13.2	14.7	16.3	18.2	20.2	22.4	24.8
225	225	226.4	13.4	14.9	16.6	18.4	20.5	22.7	25.2	27.9
250	250	251.5	14.8	16.4	18.4	20.4	22.7	25.1	27.9	30.8
280	280	281.7	16.6	18.4	20.6	22.8	25.4	28.1	31.3	34.6
315	315	316.9	18.7	20.7	23.2	25.7	28.6	31.6	35.2	38.9
355	355	357.2	21.1	23.4	26.1	28.9	32.2	35.6	39.7	43.8
400	400	402.4	23.7	26.2	29.4	32.5	36.3	40.1	44.7	49.3
450	450	452.7	26.7	29.5	33.1	36.6	40.9	45.1	50.3	55.5
500	500	503.0	29.7	32.8	36.8	40.6	45.4	50.1	55.8	61.5
560	560	563.4	33.2	36.7	41.2	45.5	50.8	56.0	62.5	68.9
630	630	633.8	37.4	41.3	46.3	51.1	57.2	63.1	70.3	77.5

- Standard Length 5.8m ± 5mm

MALAYSIA INDUSTRY STANDARD

PVC-U PIPES

Our **Pressure Plain End Pipes** are manufactured using unplasticised polyvinyl chloride (PVC-U) under strict process control and quality supervision. We utilise approved raw materials and modern manufacturing technologies in **full compliance with international standards**.

These pipes are suitable for potable water conveyance, as they do not impart odour, taste, colour, or release harmful substances that may affect water quality. Each product is rigorously inspected against defined quality parameters to ensure consistent performance, safety, and reliability.

Scope of applications:

- Sanitary stacks and wastewater conveyance
- Above-ground and underground installations
- Residential and commercial drainage systems

Standard MS 628 Part 1: 1999, BS 3505: 1986

Class B, C, D, E and 7

Suitable for pressurized cold water services

Standard MS 762: 2007, BS 3506: 1969

Class 0 and 6

Suitable for high-pressure industrial or agricultural applications

By combining durability, compliance, and cost efficiency, our PVC-U piping solutions deliver dependable performance across both electrical and water supply applications at highly competitive prices.

■ Pipe Features

- Smooth surface enables consistent flow of water
- Low cost as compared to other types of pipes.
- Resistant to external impact & internal pressure
- Highly resistant to corrosion

Class 0

Size		OD		Thickness	
INCH	MM	MIN(mm)	MAX(mm)	MIN(mm)	MAX(mm)
1 1/4	32	42.1	42.4	1.8	2.2
1 1/2	40	48.1	48.4	1.8	2.2
2	50	60.2	60.5	1.8	2.2
2 1/2	63	75.2	75.5	1.8	2.2
3	80	88.7	89.1	1.8	2.2
4	100	114.1	114.5	2.3	2.8
5	125	139.2	140.4	2.6	3.1
6	155	168.0	168.5	3.1	3.7
8	200	218.8	219.4	3.7	4.2

- Standard Length 5.8m ± 5mm

Class B

Size		OD		Thickness	
INCH	MM	MIN(mm)	MAX(mm)	MIN(mm)	MAX(mm)
3	80	88.7	89.1	2.5	2.6
4	100	114.1	114.5	3.4	4.0
6	155	168.0	168.5	4.5	5.2
8	200	218.8	219.4	5.3	6.1
10	250	272.6	273.4	6.6	7.6

- Standard Length 5.8m ± 5mm

Class C

Size		OD		Thickness	
INCH	MM	MIN(mm)	MAX(mm)	MIN(mm)	MAX(mm)
3	80	88.7	89.1	3.0	3.1
4	100	114.1	114.5	4.5	5.2
6	155	168.0	168.5	6.6	7.6
8	200	218.8	219.4	7.8	9.0
10	250	272.6	273.4	9.7	11.2

- Standard Length 5.8m ± 5mm

Class D

Size		OD		Thickness	
INCH	MM	MIN(mm)	MAX(mm)	MIN(mm)	MAX(mm)
1/2	15	21.2	21.5	1.4	1.7
3/4	20	26.6	26.9	1.5	1.8
1	25	33.4	33.7	1.9	2.2
1 1/4	32	42.1	42.4	2.2	2.7
1 1/2	40	48.1	48.4	2.5	3.0
2	50	60.2	60.5	3.1	3.7
3	80	88.7	89.1	4.6	5.3
4	100	114.1	114.5	6.0	6.9
6	155	168.0	168.5	8.0	10.2
8	200	218.8	219.4	10.3	11.9
10	250	272.6	273.4	12.8	14.8
12	300	323.4	324.3	15.2	17.7

- Standard Length 5.8m ± 5mm

Class E

Size		OD		Thickness	
INCH	MM	MIN(mm)	MAX(mm)	MIN(mm)	MAX(mm)
1/2	15	21.2	21.5	1.7	2.1
3/4	20	26.6	26.9	1.9	2.5
1	25	33.4	33.7	2.2	2.7
1 1/4	32	42.1	42.4	2.7	3.2
1 1/2	40	48.1	48.4	3.1	3.7
2	50	60.2	60.5	3.9	4.5
3	80	88.7	89.1	5.7	6.6
4	100	114.1	114.5	7.3	8.4
6	155	168	168.5	10.8	12.5
8	200	218.8	219.4	12.6	14.5
10	250	272.6	273.4	15.7	18.1
12	300	323.4	324.3	18.7	21.6
14	350	355.0	356.0	20.5	23.6

- Standard Length 5.8m ± 5mm

Class 6

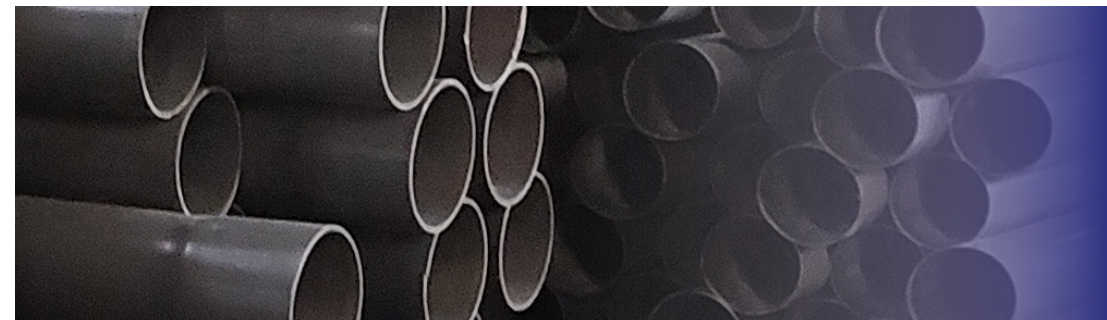
Size		OD		Thickness	
INCH	MM	MIN(mm)	MAX(mm)	MIN(mm)	MAX(mm)
1/2	15	21.2	21.5	2.3	2.4
3/4	20	26.6	26.9	2.5	2.6
1	25	33.4	33.7	3.1	3.9
1 1/4	32	42.1	42.4	3.2	3.9
1 1/2	40	48.1	48.4	3.6	4.4
2	50	60.2	60.5	4.1	4.9
2 1/2	63	75.0	75.3	3.9	4.5
3	75	88.5	89.5	5.5	6.3
4	100	114.0	114.5	6.0	6.9
5	125	139.2	140.8	7.0	8.0
6	150	164.0	166.0	8.9	10.3
8	200	218.8	219.4	10.0	10.8
10	250	272.6	273.4	12.7	14.5
12	300	317.0	319.0	15.1	17.3

- Standard Length 5.8m ± 5mm

Class 7

Size		OD		Thickness	
INCH	MM	MIN(mm)	MAX(mm)	MIN(mm)	MAX(mm)
1/2	15	21.2	21.5	3.3	3.4
3/4	20	26.6	26.9	3.5	3.6
1	25	33.4	33.7	4	4.1
1 1/4	32	42.1	42.4	4	4.1
1 1/2	40	48.1	48.4	4.7	4.8
2	50	60.2	60.5	4.9	5

- Standard Length 5.8m ± 5mm



MALAYSIA INDUSTRY STANDARD

PVC-U PIPES

Our **Soil, Waste and Vent (S.W.V) PVC pipes** comply with **MS 1063:2002, BS 4514, MS 5481**, and **BS 5255**, and are designed for soil and waste discharge as well as ventilation pipework within building structures.

These pipes are suitable for sanitary stacks, wastewater conveyance, and associated ventilation systems in residential and commercial buildings. Sizes are available from 36mm to 315mm.

The outside diameter is manufactured with reference to **JIS K6741**, with pipe wall thickness produced to meet applicable local requirements and usage conditions.

Scope of applications:

- Soil, waste discharge, and ventilation systems
- Sanitary stacks and wastewater conveyance
- New construction, renovations, and replacement of metal pipe systems

JOINTING METHODS

RAIN WATER DOWN PIPE (RWDP)

Suitable joining methods include solvent cement.

SEWERAGE PIPE (S.W.V)

Suitable joining methods include with socket or solvent cement.

Pipe selection shall be determined based on application type, installation method, and applicable standards.

■ Pipe Features

- No deposits and smooth surface (better flow rate)
- S.W.V. Pipes are non-corrosive (lower maintenance)
- S.W.V. Pipes have a longer life cycle than others
- S.W.V. Pipes are suitable for residential, commercial and industrial sectors.

PVC-U | RAIN WATER DOWN PIPE (RWDP)

- Color: White
- Standard: BS EN 12200, & BS 4576
- Conformance Standard BS EN 12200-1

Size		Class	OD		Thickness
ft	mm		MIN(mm)	MAX(mm)	MIN(mm)
4	110	UPVC (R)	110	110.4	2.5

- Standard Length 5.8m ± 5mm

Light Duty				
Size	OD		Thickness	
	MIN(mm)	MAX(mm)	MIN(mm)	MAX(mm)
3	82.4	82.8	1.8	-
4	110	110.4	2.5	-
6	160	160.6	2.5	-

- Standard Length 5.8m ± 5mm

PVC-U | UNDERGROUND SEWERAGE PIPE

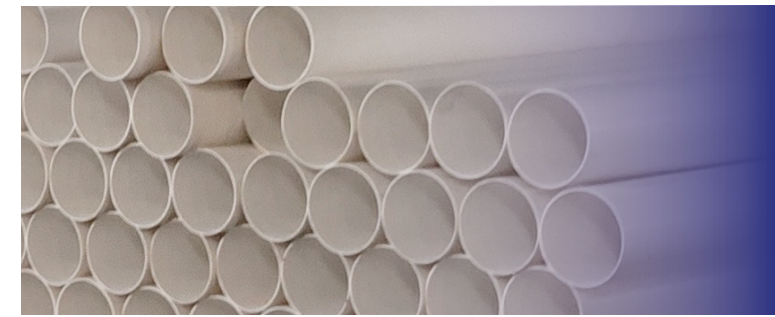
- Color: Standard Grey
- Standard: MS 979: Part 1: 1985

Size		Class	OD		Thickness
Inch	mm		MIN(mm)	MAX(mm)	MIN(mm)
4	100	UNDERGROUND	110	110.4	3.2
6	155	UNDERGROUND	160	160.6	4.1

- Standard: MS 979: Part 2: 1985

Size		Class	OD		Thickness
Inch	mm		MIN(mm)	MAX(mm)	MIN(mm)
8	200	UNDERGROUND	200	200.6	4.9
10	250	UNDERGROUND	250	250.7	6.1
12	315	UNDERGROUND	315	315.9	7.7

- Standard Length 5.8m ± 5mm



PVC-U | SOIL, WASTE & VENT (S.W.V) PIPE

- Color: White
- Standard: MS 1063: 2002, BS 4514, BS 5481 & BS 5255

CODE B Application for Components, intended use above ground inside or outside buildings or fixed onto walls

Size	OD		Thickness	
	MIN(mm)	MAX(mm)	MIN(mm)	MAX(mm)
1 1/4	32.0	32.2	3.0	3.5
1 1/2	40.0	40.2	3.0	3.5
2	50.0	50.2	3.0	3.5
2 1/2	63.0	63.2	3.0	3.5
3	82.4	82.8	3.0	3.5
4	110.0	110.3	3.2	3.8
6	160.0	160.4	3.2	3.8
8	200.0	200.4	3.9	4.5
10	250.0	250.5	4.9	5.6
12	315.0	315.6	6.2	7.1

- Standard Length 5.8m ± 5mm

CODE BD Application for Components intended use above ground for both inside or outside buildings, fixed onto walls and rapid construction

Size	OD		Thickness	
	MIN(mm)	MAX(mm)	MIN(mm)	MAX(mm)
3	82.4	82.8	3	3.5
4	110	110.3	3.2	3.8
6	160	160.4	4	4.6
8	200	200.5	3.9	4.5
10	250	250.5	4.9	5.6
12	315	315.6	6.2	7.1

- Standard Length 5.8m ± 5mm

SINGAPORE INDUSTRY STANDARD

PVC-U PIPES

Our range of **PVC-U Pipes**: for **Soil, Waste and Vent (S.W.V)** are manufactured in accordance with **Singaporean Industry Standards (SS)**.

These pipes are manufactured to meet the performance, safety, and durability requirements and are intended for use in residential, commercial, and industrial developments, including HDB projects and private sector works, where compliance with approved standards and consistent performance are required.

They are suitable for both above-ground and below-ground installations, subject to correct pipe class selection based on working pressure and intended use.

Scope of applications:

- Soil, waste discharge, and ventilation systems
- Sanitary stacks and wastewater conveyance
- New construction, renovations, and replacement of metal pipe systems

JOINTING METHODS

RAIN WATER DOWN PIPE (RWDP)

Suitable joining methods include solvent cement.

SEWERAGE PIPE (S.W.V.)

Suitable joining methods include with socket or solvent cement.

Project owners, engineers and contractors must determine the appropriate pipe class based on the working pressure and intended applications.

■ Pipe Features

- Corrosion & Chemical Resistant
- Smooth Surface for Efficient Flow
- Lightweight & Easy Installation

PVC-U | SOIL, WASTE & VENT PIPE (S.W.V)

- Color: White
- Standard: SS213:1998
- Corresponding to BS 4514, AS 1415, BS 5255

Size		OD (MM)		Thickness		20ft Cont. Load (Approx.Qty.)
INCH	MM	Min	Max	Min	Max	
1 1/4	32	36.2	36.5	2.1	2.4	4100
1 1/2	40	42.8	43.1	2.3	2.6	2950
2	50	55.7	56	2.4	2.7	1750
3	80	82.3	82.7	3	3.5	800
4	110	110.0	110.4	3.2	3.6	451
6	160	160.0	160.5	4	4.5	210

- Standard Length 5.8m ± 5mm

PVC-U | COLD WATER SERVICES, ELECTRICAL DUCTING & INDUSTRIAL PIPE

- Color: White
- Standard: SS141:1976
- Corresponding to BS 3505, BS 3506, AS 1477

Class D

Size		OD (MM)		Thickness		20ft Cont. Load (Approx.Qty.)
INCH	MM	Min	Max	Min	Max	
1 1/4	32	42.1	42.4	2.2	2.7	2,995
1 1/2	40	48.1	48.4	2.5	3.0	2,300
2	50	60.2	60.5	3.1	3.7	1,467
3	80	88.7	89.1	4.6	5.3	670
4	100	114.1	114.5	6.0	6.9	440
6	155	168.0	168.5	8.8	10.2	196
8	200	218.8	219.4	10.3	11.9	110
10	250	272.6	273.4	12.8	14.8	70

- Standard length 5.8m ± 5mm

*1 MPA =10 bar	Class	Working Pressure		Color
1 bar = 14.2 PSI (Pound per sq inch)	B	0.6 Mpa*	60m head of water	Grey
	C	0.9 Mpa*	90m head of water	Grey
	D	1.2 Mpa*	120m head of water	White
	E	1.5 Mpa*	150m head of water	White

Other colours and socket-end configurations are available for selected sizes upon request, subject to minimum order quantities.

PVC-U | UNDERGROUND DRAINAGE PIPE

- Color: Brown
- Standard: SS272:1983
- Corresponding to BS 4660, BS 5481, AS 1260

Size		OD (MM)		Thickness		20ft Cont. Load (Approx.Qty.)
INCH	MM	Min	Max	Min	Max	
4	110	110	110.4	3.2	3.2	451
6	160	160	160.6	4.0	4.5	210
8	200	200.0	200.6	4.9	6.0	132
10	250	250.0	250.7	6.1	7.5	72
12	315	315.0	315.9	7.7	9.4	49

- Standard Length 5.8m ± 5mm

Class E

Size		OD (MM)		Thickness		20ft Cont. Load (Approx.Qty.)
INCH	MM	Min	Max	Min	Max	
1/2	15	21.2	21.5	1.7	2.1	12,000
3/4	20	26.6	26.9	1.9	2.5	7,470
1	25	33.4	33.7	2.2	2.7	4,700

- Standard length 5.8m ± 5mm



JAPAN INDUSTRY STANDARD

PVC-U PIPES

Our range of **PVC-U Pipes: Class AW, AE, AEO AND AO** are manufactured in accordance with **Japanese Industrial Standards (JIS)**.

Scope of applications:

- Soil, waste discharge, and ventilation systems
- Sanitary stacks and wastewater conveyance
- New construction, renovations, and replacement of metal pipe systems

Class VP (AW) PVC-U

Used for high pressure applications such as pumps, mechanical plant systems and pressurised fluid conveyance.

Class VU (AE) PVC-U

Used for non-pressurised and low-pressure applications such as drainage, ventilation, and discharge systems in industrial and building services installations.

AEO PVC-U Pipes

Used for non-pressurised drainage applications including fume exhaust systems and air-conditioning discharge lines.

AO PVC-U Pipes

Used for non-pressurised sanitary, rainwater, and sewage systems, commonly specified in regional building standards

Pipe class selection shall be based on working pressure, installation environment, and regulatory requirements.

■ Pipe Features

- Durable & Corrosion-Resistant
- Lightweight & Easy Installation
- Pressure-Rated Options Available
- Standards-Compliant Manufacturing

PVC-U | AW&AE PIPE

- Color: Standard Grey
- Standard: JIS K6741: 1999

Size		OD (MM)		AW Thickness		AE Thickness		20ft Cont. Load (Approx.Qty.)
INCH	MM	Min	Max	Min	Max	Min	Max	
1/4	10	15.0	17.2	2.2	2.8	–	–	–
3/8	13	17.0	17.8	2.2	2.8	–	–	16,500
1/2	16	21.1	22.2	2.7	3.3	–	–	11,000
3/4	20	25.8	26.2	2.7	3.3	–	–	7,900
1	25	31.8	32.2	3.1	3.9	–	–	5,200
1-1/4	30	37.8	38.2	3.1	3.9	–	–	3,500
1-1/2	40	47.8	48.2	3.6	4.4	1.8	2.2	2,200
2	50	59.8	60.2	4.1	4.9	1.8	2.2	1,480
2-1/2	65	75.7	76.3	4.1	4.9	2.2	2.8	900
3	75	88.7	89.3	5.5	6.3	2.7	3.3	650
4	100	113.6	114.4	6.6	7.6	3.1	3.9	440
5	125	139.2	140.8	–	–	4.1	4.7	–
6	150	164.5	165.5	8.9	10.3	5.1	5.9	196
8	200	215.3	216.7	10.3	11.7	6.5	7.5	110
10	250	266.1	267.9	12.7	14.5	7.8	9.0	72
12	300	317.0	319.0	15.1	17.3	9.2	10.6	49

- Standard Length 5.8m ± 5mm



Pipe Standard	Working Pressure
Class VP (AW)	0.98Mpa(10kgfcm ²)
Class VU (AE)	0.59Mpa(6kgfcm ²)
*1 kgfcm ² = 1 bar	
Pipes are manufactured in grey as standard, with custom colours available for certain sizes upon request.	

PVC-U | AEO/AO PIPE

- Color: Standard Grey
- Standard: JIS K6741: 1999

Size		OD (MM)		Thickness		20ft Cont. Load (Approx.Qty.)
INCH	MM	Min	Max	Min	Max	
3/8	13	17.8	18.2	1.8	2.2	16,500
1/2	16	21.8	22.2	1.8	2.2	11,000
3/4	20	25.8	26.2	1.8	2.2	7,900
1	25	31.8	32.2	1.8	2.2	5,200
1 1/4	38	37.8	38.2	1.8	2.2	3,500
1 1/2	42	41.8	42.2	1.8	2.2	2,860
3 (AO Only)	75	88.7	89.3	1.9		–
4	100	113.6	114.4	2.2	2.4	440
6	150	164.5	165.5	2.5	2.8	196
8	200	215.3	216.7	4.0	4.5	110
10	250	266.1	267.9	4.0	4.5	72
12	300	317.0	319.0	5.5	6.0	49

- Standard Length 5.8m ± 5mm

TUBING, HOSE & OTHER PRODUCTS

In addition to its core piping systems, Hup Soon offers a complementary range of hoses, tubing, and auxiliary products to support diverse industrial, agricultural, and building service applications.

Each product is manufactured or selected with a focus on functional performance, consistency, and application suitability, supporting integrated system requirements across multiple use cases.

VIRGIN LDPE TUBING

- Color: Black with 2 orange stripes

Size	OD		Thickness	
	MIN (mm)	MAX (mm)	MIN (mm)	MAX (mm)
16	16	16.3	1.1	1.3

- Standard length 300M ±

LDPE TUBING

- Color: Black

Tubing OD/ID Length				
16 mm x 1.0 x 300m				
20 mm x 1.0 x 200m				

- Standard length 200M ± to 300M ±

BI COLOUR LDPE TUBING

- Color: White tubing with black interior

Size	OD		Thickness	
	MIN (mm)	MAX (mm)	MIN (mm)	MAX (mm)
16	16	16.3	1.1	1.3
20	20	20.3	1.3	1.5

- Standard length 300M ±

PVC SUCTION HOSE

- Color: Clear Blue
- Standard MS 1034 : 1986

PVC Suction Hose and Discharge Hose are typically used in industrial chemical plants, agricultural applications and rescue and pumping operations. Can be used to pump water from cisterns, vats, basements and hazardous areas.

Size : 10ft, 15ft, 20ft, 25ft, 30ft (Product length available in these sizes)										Working Pressure KG(CM)	
ID	ID	ID		O.D		Pitch	Weight	Brusting Pressure KG(CM)			
INCH	MM	D1	MM	D1	MM	P (MM)	KG(M)	10°C	30°C		50°C
38	1 1/2	38.0 ± 0.5		46.2 ± 1.0		9.0 ± 0.4	0.460	12.0	9.0	4.0	2.5
50	2	50.6 ± 1.0		59.8 ± 1.5		10.0 ± 0.4	0.720	12.0	9.0	4.0	2.5
65	2 1/2	62.4 ± 1.0		73.0 ± 1.5		14.3 ± 0.4	1.000	11.0	8.0	3.5	2.0
75	3	76.4 ± 1.0		88.8 ± 1.5		15.1 ± 0.5	1.400	11.0	8.0	3.5	2.0
100	4	101.6 ± 1.5		117.6 ± 2.0		16.4 ± 0.5	2.450	9.0	6.0	3.0	1.5

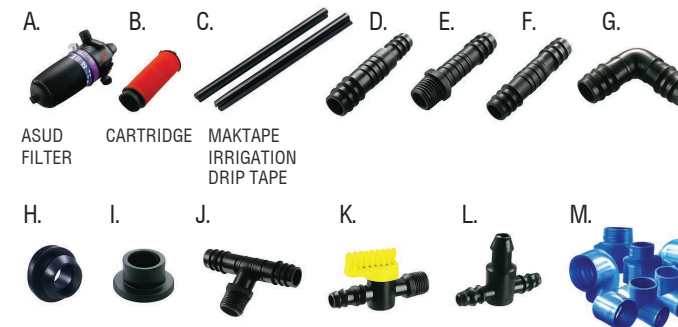
CLEAR UNREINFORCED FLEXIBLE PVC TUBING

- Color: Clear

Size		Thickness MM		
INCH	MM	A 30M (100')	B 30M (100')	C 30M (100')
3.2	1/8	0.5	1.0	2.0
4.8	3/16	0.5	1.0	2.3
6.4	1/4	1.0	1.5	2.5
8.0	5/16	1.0	1.5	2.5
11.0	7/16	1.5	2.0	—
9.5	3/8	1.5	2.0	2.5
12.5	1/2	1.5	2.5	—
16.0	5/8	1.5	2.5	—
19.0	3/4	2.0	2.5	—
22.0	7/8	2.0	3.5	—
25.0	1	2.5	3.5	—
25.0	1(AA)	2.0	—	—
28.0	1 1/8	2.5	3.5	—
31.0	1 1/4	3.2	4.0	—
38.0	1 1/2	3.2	4.0	—
44.0	1 3/4	—	4.0	—
50.0	2	3.2	4.5	—
56.0	2 1/4	—	4.5	—
63.0	2 1/2	—	4.5	—
75.0	3	—	5.5	—

- Standard length 30m ± 5 mm

FITTINGS



IRRIGATION SYSTEM (SPRINKLERS)

- for Agriculture Use



GARDEN HOSE

- Color: Green & Orange

Color	Tubing OD/ID Length	Thickness
Green	16 mm x 1.0 x 300m	2.5mm
Orange	20 mm x 1.0 x 200m	2.5mm

- Standard length 200M ± to 300M ±

TELEKOM PIPE

- Color: Black
- Standard MS 1034 : 1986

Size		Outside Diameter		Thickness	
INCH	MM	MIN (mm)	MAX (mm)	MIN (mm)	MAX (mm)
4	107	107	108	2.25	2.45

- Standard length 6m ± 5 mm



PVC SOFT SHEETS

- Color: Green & Orange

Color	Size
Green	3"
Orange	3"

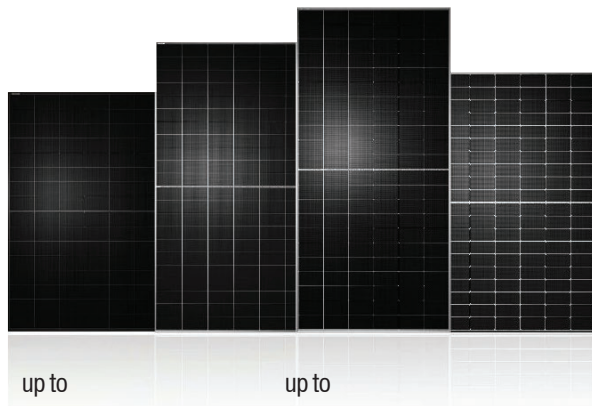
- Sold by the KGs



TNC MODULE

Tongwei N-type Passivated Contact Cell Module

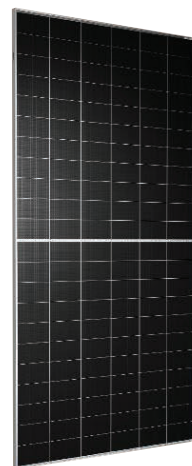
Global Certification



up to
725W
Module Power

up to
23.5%
Module Efficiency

- High Efficiency Power Supply
- Excellent Quality Assurance
- Substantial Returns
- Multi-scenario Application



up to
776.2W
Module Power

up to
24.99%
Module Efficiency

- Fearless of High Temperature
- Strong Bifacial Power Generation
- Multiple Technological Breakthroughs

Multi-scenario Application

TNC-G12R 48

455W | 1762*1134*30 | <2m² | 20.9Kg

Module power increased by
15W (VS. TNC-M10 54)

15 Years
Material Warranty

TNC-G12R 48

515W | 1961*1134*30 | 23.2%

Module power increased by
75W (VS. TNC-M10 54)

30 Years
Power Warranty



Residential Rooftops

- Lower electricity bills
- Independence from grid fluctuations
- Eco-friendly & sustainable lifestyle
- Elevate home aesthetics with premium appearance
- Minimal maintenance for hassle-free operation



Commercial & Industrial Solutions

- TNC technology for higher savings
- Contribute to grid stability
- Customized installations for business efficiency
- Tax credits and incentives
- Demonstrate commitment to sustainability (CSR)

Multi-scenario Application

TNC-G12R 66

635W | 23.5% | 2382*1134

Module power increased by
40W (VS. TNC-M10 72)

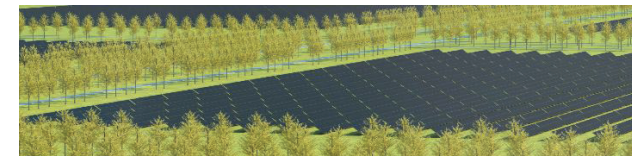
12 Years
Material Warranty

TNC-G12 66

725W | 23.3% | 2384*1303

Module power increased by
130W (VS. TNC-M10 54)

30 Years
Power Warranty



Utility-scale Power Plants

- TONGWEI manufacturing: Enhancing longevity, lowering O&M costs
- Extreme weather resilience for long-term & reliable energy production
- Efficient land use for maximum output
- Contribute to local community growth and sustainability

Quality Control

High Standards for Raw Materials

Sets high standards and requirements for raw material suppliers; uses high-precision testing equipment. Establishes a complete raw material testing system.

Optimized System Flow

Tongwei products have passed the ISO9001, ISO14001, ISO45001, ISO50001, and IEC 62941 system certifications.

Great Customer Service

Builds professional teams for pre-sales, sales, and after-sales services; ensures a smooth flow of information from order review to delivery; responds to customer needs promptly.

Product Reliability Assurance

Obtains **CNAS** and **TÜV NORD** certifications for labs; puts products through regional certifications including **IEC61215 & IEC71730**, **CEC**, **JPEA**, **NIMETRO**, **KS**, **Italian Fire Protection**, and **MCS**; passes differentiation test for salt spray, ammonia and sand dust.

Advanced In-Process Quality Management

Takes strict first product control and key process monitoring measures; carries out SPC for key process and product characteristics; employs an advanced MES system to control material traceability.

Strict Product Quality Control

Implements 100% FQC to ensure the quality of products adds OBA personnel for additional pre-shipment inspection to double-insure product quality control.