



Your Complete Piping Solutions

PIPES
For Infrastructure



MS ISO 9001:2015 CERT NO. QMS 02481



COMPANY BACKGROUND

Cew Sin Plastic Pipe (243310-M) was founded in 1992 and is a renowned plastic pipe manufacturer in Malaysia that specializes in Unplasticized Polyvinyl Chloride (PVC-U) Pipes and Fittings, Polypropylene Random (PP-R) Pipes and Fittings and High-Density Polyethylene (HDPE) Pipes. Cew Sin (CS) uses primarily PVC-U, PP-R and HDPE raw materials to manufacture high-quality, safe and reliable plastic pipes and fittings for a wide range of applications, including water supply, drainage, sewage, cable and wire conduits for a wide spectrum of industries such as construction, infrastructure, utility, agriculture and many more. It is our cutting-edge technology and proven track record of quality excellence that has made us a respected leader in the market.

CS is also committed to providing green solutions for our customers. We offer environmentally friendly, lead-free options for our pipes and fittings. Our products also comply with various national and international professional certifications as part of our pursuit of quality excellence. At the same time, we invest heavily in Research and Development because we believe in continuously upgrading the quality of our products, as befitting our status as a market leader in Malaysia.

We owe our achievements in the plastic pipe manufacturing industry to sound management, professional production, continuous upgrades and efficient services. Our endeavours over the years have made us a well-trusted brand in both the domestic and international market.

We are ISO 9001:2015 Quality Management System certified, while stringent measures are adopted to ensure a high product quality that meets our local and export customers' needs. Our products are also endorsed by SIRIM QAS (Standard of Industrial and Research Institute in Malaysia) and TÜV SÜD certified according to local and international standards.

Apart from international certification, our pipes and fittings meet the requirements of the Malaysian National Water Authority (Suruhanjaya Perkhidmatan Air Negara or SPAN), Jabatan Air Negeri Sabah, and the State Water Authority of Sarawak.

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OUR COMMITMENTS AND SERVICES

VISION

To become the leading manufacturer and distributor of complete PVC-U, PP-R and HDPE pipping systems in the region.

MISSION

To ensure total customer satisfaction through continuously improving our products, resources, facilities and services.

QUALITY POLICIES

- ◆ Customer satisfaction is our top priority
- ◆ Strive to be the best in the industry
- ◆ People competency is the key driver
- ◆ Plan for and commit to continuous improvement



CONTINUOUS RESEARCH & DEVELOPMENT AND PRODUCT QUALITY

CS strongly believes in the importance of high quality, durable, safe and reliable products. We have a comprehensive range of equipment in our laboratory where all products are rigorously tested in compliance with local and international standards. Fine raw materials and compounds are assessed in terms of temperature, pressure and energy input, while pipe samples are put under stringent impact and tensile strength inspections. Our dedicated Research and Development team is also always working on developing new ways to upgrade the quality of our pipes and fittings as according to industry standards.

OFFICIAL CERTIFICATIONS

CS's wide range of products adheres to ISO 9001 certification, as well as both local and international standards, including but not limited to:

- ♦ SIRIM (Standard and Industrial Research Institute of Malaysia)
- ♦ TÜV SÜD Malaysia



PIPES FOR NETWORK INFRASTRUCTURE

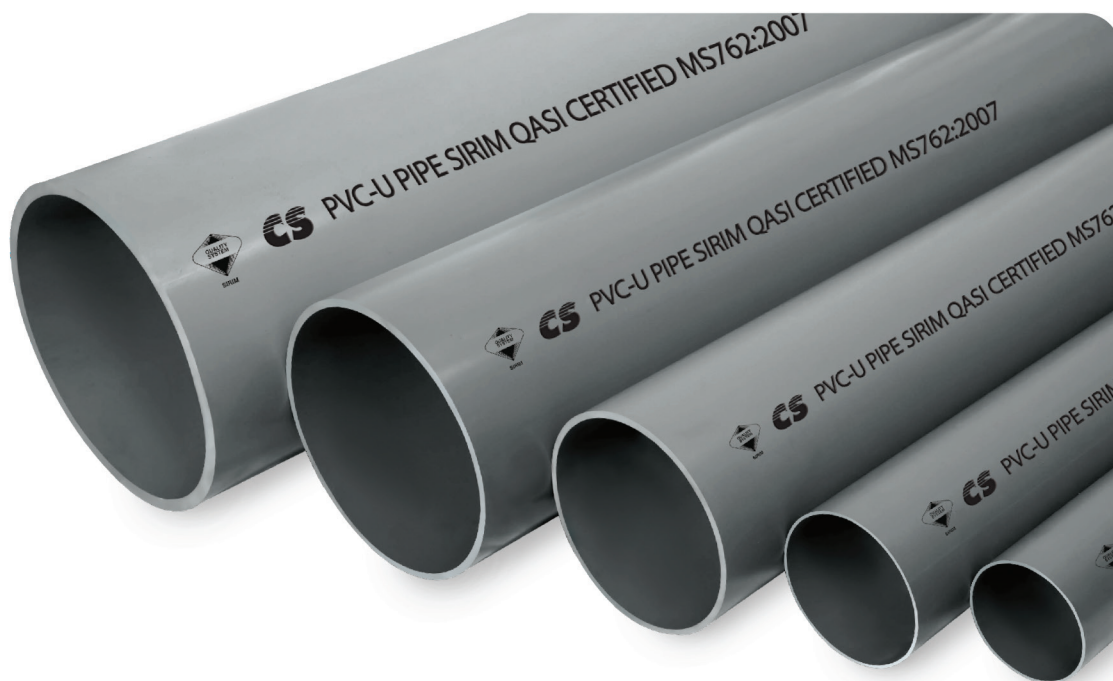


CS offers several HDPE and PVC-U pipe options for Network Infrastructure applications. HDPE pipes are highly recommended for network infrastructure applications because of their superior resistance to corrosion, immunity to galvanic and electrochemical reactions and easy installation via Horizontal Directional Drilling. PVC-U is also a popular material for cable laying and cable protection because of its rigidity and high resistance to both chemical and abrasion corrosion.

CS's Network Infrastructure pipes comply with the requirements of Malaysia's only electric utility company – Tenaga Nasional (TNB) and Malaysian telecommunications company Telekom Malaysia (TM).

PVC-U PIPES FOR INDUSTRIAL USE (ELECTRICAL AND DUCTING)

BS 3506: 1969
(MS762: 2007)



PVC-U pipes are durable, rigid, lightweight, easy to install and have a high resistance to both chemical and abrasion corrosion. They are a popular choice for cable laying and cable protection. Two lengths are joined together via solvent cement for a secure, reliable and strong assembly.

*For more on PVC-U pipes, please refer to CS PVC-U Pressure Pipe System brochure.

PVC-U PIPES FOR INDUSTRIAL USE

BS 3506: 1969
(MS762: 2007)

CLASS O

PRODUCT CODE	NOMINAL SIZES (MM)		OUTSIDE DIAMETER (MM)		WALL THICKNESS (MM)		LENGTH (METER)
	(IN.)	MM	MIN	MAX	MIN	MAX	
PS-O-040-5.8-GY	1-1/2	40	48.10	48.40	1.80	2.20	5.8
PS-O-050-5.8-GY	2	50	60.20	60.50	1.80	2.20	5.8
PS-O-080-5.8-GY	3	80	88.70	89.10	1.80	2.20	5.8
PS-O-100-5.8-GY	4	100	114.10	114.50	2.30	2.80	5.8
PS-O-155-5.8-GY	6	155	168.00	168.50	3.10	3.70	5.8
PS-O-200-5.8-GY	8	200	218.80	219.40	3.10	3.70	5.8

CLASS B

PRODUCT CODE	NOMINAL SIZES (MM)		OUTSIDE DIAMETER (MM)		WALL THICKNESS (MM)		LENGTH (METER)
	(IN.)	MM	MIN	MAX	MIN	MAX	
PS-B-080-5.8-GY	3	80	88.70	89.10	2.90	3.40	5.8
PS-B-100-5.8-GY	4	100	114.10	114.50	3.40	4.00	5.8
PS-B-155-5.8-GY	6	155	168.00	168.50	4.50	5.20	5.8
PS-B-200-5.8-GY	8	200	218.80	219.40	5.30	6.10	5.8
PS-B-250-5.8-GY	10	250	272.60	273.40	6.60	7.60	5.8
PS-B-300-5.8-GY	12	300	323.40	324.30	7.80	9.00	5.8

CLASS C

PRODUCT CODE	NOMINAL SIZES (MM)		OUTSIDE DIAMETER (MM)		WALL THICKNESS (MM)		LENGTH (METER)
	(IN.)	MM	MIN	MAX	MIN	MAX	
PS-C-080-5.8-GY	3	80	88.70	89.10	3.50	4.10	5.8
PS-C-100-5.8-GY	4	100	114.10	114.50	4.50	5.20	5.8
PS-C-155-5.8-GY	6	155	168.00	168.50	6.60	7.60	5.8
PS-C-200-5.8-GY	8	200	218.80	219.40	7.80	9.00	5.8
PS-C-250-5.8-GY	10	250	272.60	273.40	9.70	11.20	5.8
PS-C-300-5.8-GY	12	300	323.40	324.30	11.50	13.30	5.8

CLASS D

PRODUCT CODE	NOMINAL SIZES (MM)		OUTSIDE DIAMETER (MM)		WALL THICKNESS (MM)		LENGTH (METER)
	(IN.)	MM	MIN	MAX	MIN	MAX	
PS-D-080-5.8-GY	3	80	88.70	89.10	4.60	5.30	5.8
PS-D-100-5.8-GY	4	100	114.10	114.50	6.00	6.90	5.8
PS-D-155-5.8-GY	6	155	168.00	168.50	8.80	10.20	5.8
PS-D-200-5.8-GY	8	200	218.80	219.40	10.30	11.90	5.8
PS-D-250-5.8-GY	10	250	272.60	273.40	12.80	14.80	5.8
PS-D-300-5.8-GY	12	300	323.40	324.30	15.20	17.50	5.8

HDPE DOUBLE WALL CORRUGATED PIPES AND FITTINGS



Double Wall Corrugated pipes have a special lining on the inside to enhance its friction-resistance. They are also lightweight, easy to install and possess superior compression strength. The corrugated design makes the pipes extremely flexible and improves the pulsation and vibration resistance.

HDPE CABLE PIPE Corrugated Outside, Smooth Inside

PRODUCT CODE	NOMINAL SIZE (MM)	LENGTH METER
H-DWCP-100-006-RD	100	6.0
H-DWCP-100-050-RD	100	50.0
H-DWCP-150-060-RD	150	6.0
H-DWCP-150-030-RD	150	30.0

HDPE CORRUGATED COUPLER

PRODUCT CODE	NOMINAL SIZE (MM)
F-CC-100-BK	100
F-CC-150-BK	150

HDPE SOLID WALL HDD (RED)

MS 1058 : PART 2: 2005
(ISO 4427 : PART 2 : 2007)



Solid wall HDPE pipes are exemplary for protecting electrical cables installed underground or at road crossings because of their chemical and abrasion-resistant nature and impressive elongation properties. These pipes can be joined in long lengths via Horizontal Directional Drilling. CS manufactures solid wall HDPE pipes in the standard lengths of 6 meters, 12 meters or in coils, as according to customer specification.

PIPES FOR NETWORK INFRASTRUCTURE

HDPE CABLE SOLID WALL (RED) PIPE

MS 1058 : PART 2: 2005

(ISO 4427 : PART 2 : 2007)

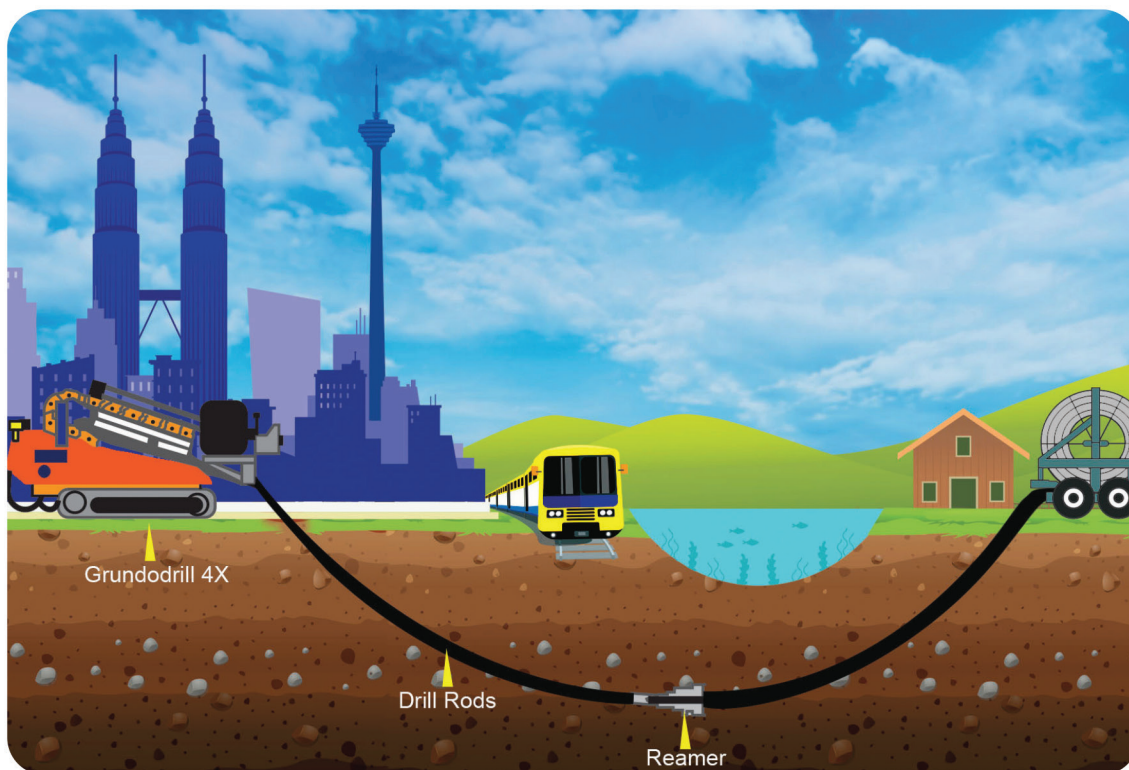
HDPE (CLASS PN 10) / (SDR 13.6)

PRODUCT CODE	NOMINAL SIZES (MM)	OUTSIDE DIAMETER		PN 10 WALL THICKNESS		WEIGHT KG / METER
		MIN	MAX	MIN	MAX	
		(MM)		(MM)		
H-RP010-110-006-RD	110	110.00	110.70	8.10	9.10	2.620
H-RP010-125-006-RD	125	125.00	125.80	9.20	10.30	3.370
H-RP010-140-006-RD	140	140.00	140.90	10.30	11.50	4.220
H-RP010-160-006-RD	160	160.00	161.00	11.80	13.10	5.510
H-RP010-180-006-RD	180	180.00	181.00	13.30	14.80	7.000
H-RP010-200-006-RD	200	200.00	201.20	14.70	16.30	8.580
H-RP010-225-006-RD	225	225.00	226.40	16.60	18.40	11.100
H-RP010-250-006-RD	250	250.00	251.50	18.40	20.40	13.700
H-RP010-280-006-RD	280	280.00	281.70	20.60	22.80	17.200
H-RP010-315-006-RD	315	315.00	316.90	23.20	25.70	21.706

HDPE (CLASS PN12.5) / (SDR 11)

PRODUCT CODE	NOMINAL SIZES (MM)	OUTSIDE DIAMETER		PN 12.5 WALL THICKNESS		WEIGHT KG / METER
		MIN	MAX	MIN	MAX	
		(MM)		(MM)		
H-RP12.5-110-006-RD	110	110.00	110.70	10.00	11.10	3.160
H-RP12.5-125-006-RD	125	125.00	125.80	11.40	12.70	4.080
H-RP12.5-140-006-RD	140	140.00	140.90	12.70	14.10	5.090
H-RP12.5-160-006-RD	160	160.00	161.00	14.60	16.20	6.680
H-RP12.5-180-006-RD	180	180.00	181.00	16.40	18.20	8.620
H-RP12.5-200-006-RD	200	200.00	201.20	18.20	20.20	10.600
H-RP12.5-225-006-RD	225	225.00	226.40	20.50	22.70	13.500
H-RP12.5-250-006-RD	250	250.00	251.50	22.70	25.10	16.600
H-RP12.5-280-006-RD	280	280.00	281.70	25.40	28.10	20.800
H-RP12.5-315-006-RD	315	315.00	316.90	28.60	31.60	26.294

HORIZONTAL DIRECTIONAL DRILLING



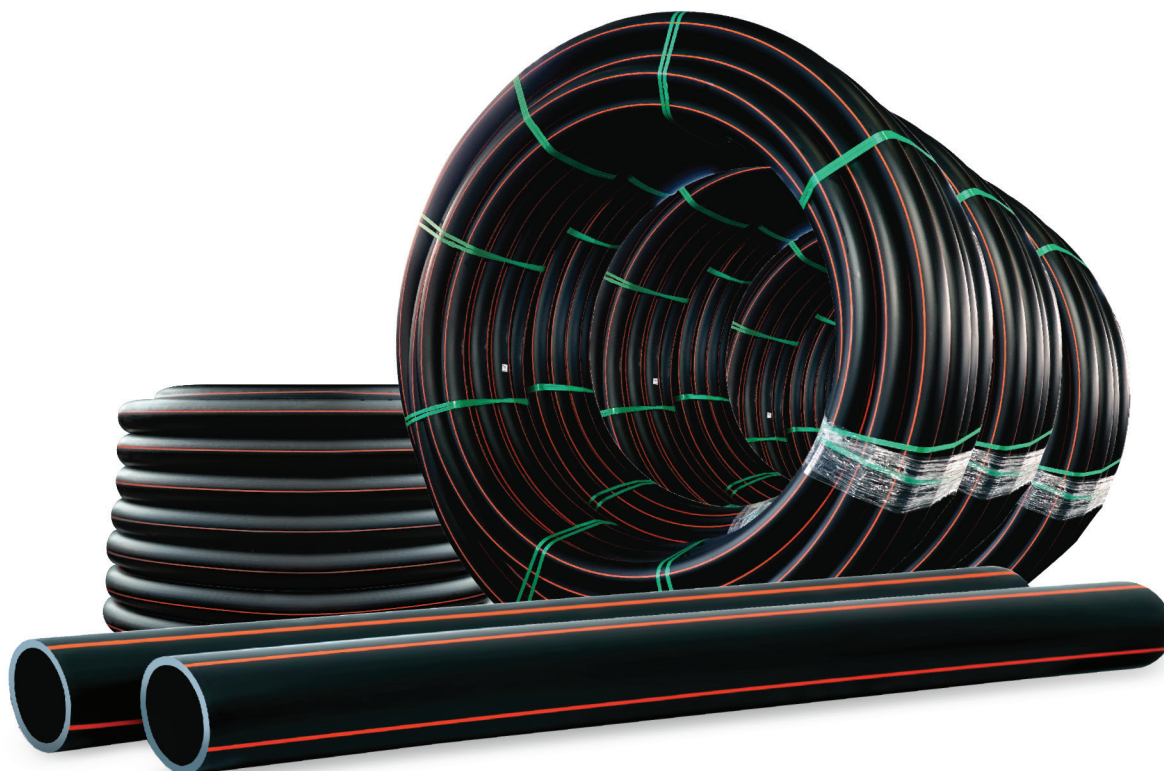
Horizontal directional drilling (HDD) is a trenchless construction method used to install pipelines of various sizes and materials below the ground surface. Trenchless technologies, such as horizontal directional drilling, pipe bursting and slip lining allow the entire water supply and drainage system of a city to be replaced without causing a major traffic jam and incurring the enormous cost of restoring streets and roads.

Polyethylene pipe is the pipe of choice for trenchless installations using directional drilling. It's flexibility, strength and fused joints as strong as the original pipe itself, make it ideal for HDD applications. Horizontal directional drilling is often used where open cut installations are not feasible, such as road and river crossings. Using directional drilling techniques to guide a drill string along a bore path under obstacles such as rivers, lakes, railway crossings or highways, enables replacement of existing water lines, or installation of new ones, at a relatively rapid rate.

HDPE PIPE (ORANGE LINE)

MS 1058: PART 2: 2005

(ISO 4427: PART 2: 2007)



These pipes are marked with an orange line. HDPE pipes are highly recommended for network infrastructure applications because of their superior resistance to corrosion, immunity to galvanic and electrochemical reactions and easy installation via Horizontal Directional Drilling.

HDPE (CLASS PN 10) / (SDR 13.6)

PRODUCT CODE	NOMINAL SIZES (MM)	OUTSIDE DIAMETER		PN 10 WALL THICKNESS		WEIGHT KG / METER
		MIN	MAX	MIN	MAX	
		(MM)		(MM)		
HS-1.P010-032-100-BK	32	32.00	32.30	2.40	2.80	0.229
HS-1.P010-040-100-BK	40	40.00	40.40	3.00	3.50	0.358
HS-1.P010-050-100-BK	50	50.00	50.40	3.70	4.20	0.546
HS-1.P010-110-100-BK	110	110.00	110.70	8.10	9.10	2.620

HDPE (CLASS PN12.5) / (SDR 11)

PRODUCT CODE	NOMINAL SIZES (MM)	OUTSIDE DIAMETER		PN 10 WALL THICKNESS		WEIGHT KG / METER
		MIN	MAX	MIN	MAX	
		(MM)		(MM)		
HC-P12.5-032-250-OL	32	32.00	32.30	3.00	3.40	0.280
HC-P12.5-040-250-OL	40	40.00	40.40	3.70	4.20	0.427
HC-P12.5-050-100-OL	50	50.00	50.40	4.60	5.20	0.663
HC-P12.5-TM-110-100-OL	110	110.00	110.70	10.00	11.10	3.160

HDPE SUB-DUCT



CS's HDPE Sub-ducts are corrugated inside and out, making them extremely flexible while remaining lightweight and maintaining good compression strength. These sub-ducts are supplied with pre-installed polyester string to assist in the installation of fibre optic cables.

PRODUCT CODE	OUTSIDE DIAMETER (MM)	INSIDE DIAMETER (MM)	CORRUGATED WALL THICKNESS(MM)	STANDARD LENGTH (MM)
H-CSD-032-250-BK	32	26	3.0	250
H-CSD-040-250-BK	40	34	3.0	250
H-CSD-050-250-BK	50	44	3.0	250

FOR TELECOMMUNICATIONS USE PVC-U 107mm

MS 1034 : 2013



PVC-U pipes are durable, rigid, lightweight, easy to install and have a high resistance to both chemical and abrasion corrosion. They are a popular choice for cable laying and cable protection. 2 lengths are joined together via solvent cement for a secure, reliable and strong assembly.

Ducting use for:

- ◆ HSBB (High Speed Broadband)
- ◆ CCTV
- ◆ Fiber Optic

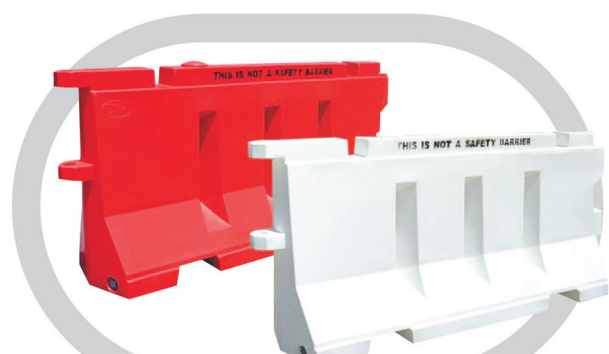
PRODUCT CODE	NOMINAL / SIZES		OUTSIDE DIAMETER		WALL THICKNESS (MM)	LENGHT METER
	MIN	MAX	MIN	MAX		
	(MM)		(MM)			
PS-TEL-107-6.0-BK	4	107	107.00	108.00	2.6-3.0	6.0

PE 100 AND PE 80 DIMENSION CHART

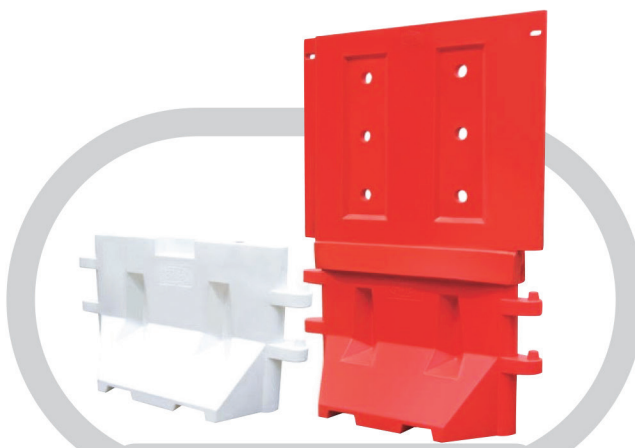
Pipe Series										
	SDR 9 S 4		SDR 11 S 5		SDR 13.6 S 6.3		SDR 17 S 8		SDR 21 S 10	
	Nominal pressure, PN in bar									
PE 100	PN 20		PN 16		PN 12.5		PN 10		PN 8	
PE 80	PN 16		PN 12.5		PN 10		PN 8		PN 6	
Nominal Size (mm)	Wall Thickness									
	e _{min}	e _{max}	e _{min}	e _{max}	e _{min}	e _{max}	e _{min}	e _{max}	e _{min}	e _{max}
20	2.3	2.7	2.0	2.3	-	-	-	-	-	-
25	3.0	3.4	2.3	2.7	2.0	2.3	-	-	-	-
32	3.6	4.1	3.0	3.4	2.4	2.8	2.0	2.3	-	-
40	4.5	5.1	3.7	4.2	3.0	3.5	2.4	2.8	2.0	2.3
50	5.6	6.3	4.6	5.2	3.7	4.2	3.0	3.4	2.4	2.8
63	7.1	8.0	5.8	6.5	4.7	5.3	3.8	4.3	3.0	3.4
75	8.4	9.4	6.8	7.6	5.6	6.3	4.5	5.1	3.6	4.1
90	10.1	11.3	8.2	9.2	6.7	7.5	5.4	6.1	4.3	4.9
110	12.3	13.7	10.0	11.1	8.1	9.1	6.6	7.4	5.3	6.0
125	14.0	15.6	11.4	12.7	9.2	10.3	7.4	8.3	6.0	6.7
140	15.7	17.4	12.7	14.1	10.3	11.5	8.3	9.3	6.7	7.5
160	17.9	19.8	14.6	16.2	11.8	13.1	9.5	10.6	7.7	8.6
180	20.1	22.3	16.4	18.2	13.3	14.8	10.7	11.9	8.6	9.6
200	22.4	24.8	18.2	20.2	14.7	16.3	11.9	13.2	9.6	10.7
225	25.2	27.9	20.5	22.7	16.6	18.4	13.4	14.9	10.8	12.0
250	27.9	30.8	22.7	25.1	18.4	20.4	14.8	16.4	11.9	13.2
280	31.3	34.6	25.4	28.1	20.6	22.8	16.6	18.4	13.4	14.9
315	35.2	38.9	28.6	31.6	23.2	25.7	18.7	20.7	15.0	16.6
355	39.7	43.8	32.2	35.6	26.1	28.9	21.1	23.4	16.9	18.7
400	44.7	49.3	36.3	40.1	29.4	32.5	23.7	26.2	19.1	21.2
450	50.3	55.5	40.9	45.1	33.1	36.6	26.7	29.5	21.5	23.8



BNH ROAD SAFETY MANAGEMENT SAFETY ROAD BARRIERS



ROAD BARRIERS-Type A



**ROAD BARRIERS
WITH HOARDING**

See CLEARLY

A special luminescent orange 'long life' pigment is used to allow the eyes to respond effectively during the day. At night, highly reflective sleeves help the eyes adjust to see more clearly in the dark.

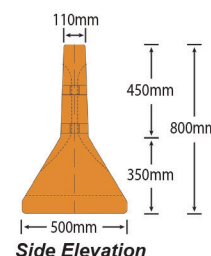
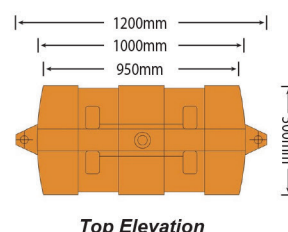
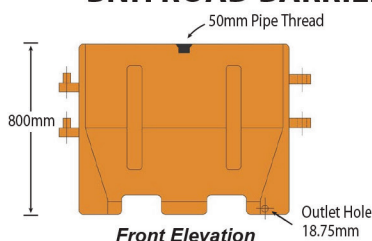
Stand FIRMLY

The base is fully enclosed with sand bags, and together with a low center of gravity, it provides maximum stability.

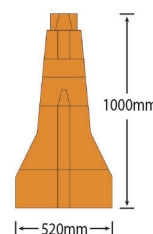
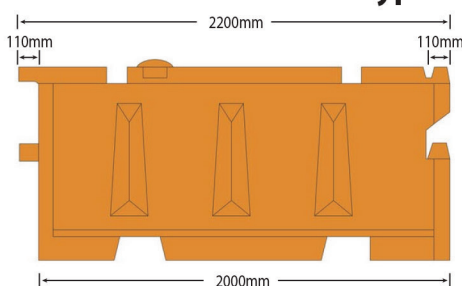
Use CONFIDENTLY

Made of high quality, low density polyethylene material, this product will last longer because it is more durable and reliable. It also has high resistance to impact and UV degradation.

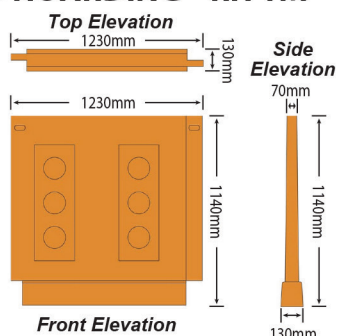
BNH ROAD BARRIERS ~ RB 1ML



BNH ROAD BARRIERS ~ RB 2M-Type A



ROAD BARRIERS HOARDING~ RH 1M



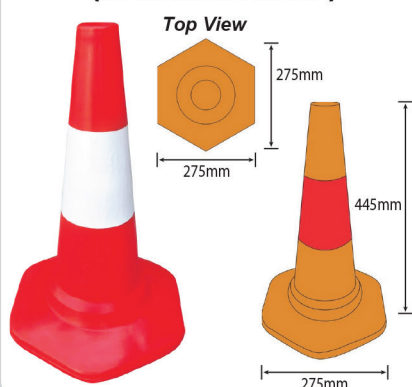
PRODUCT TYPE SPECIFICATIONS

	RB 1M	RB 2M
Material	Polyethylene	Polyethylene
Colour	Translucent & Luminescent orange	Translucent & Luminescent orange
Base Dimensions (mm)	1000 x 800 (40" x 32")	2220 x 1000 (88" x 40")
Weight Type	Water ballast	Water ballast
Special Features	High visibility Self-righting capacity Long-term placement	High visibility Self-righting capacity Long-term placement

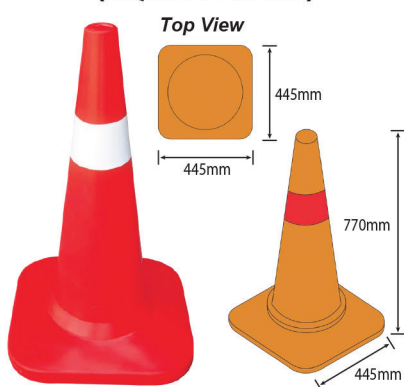


BNH ROAD SAFETY MANAGEMENT TRAFFIC CONES

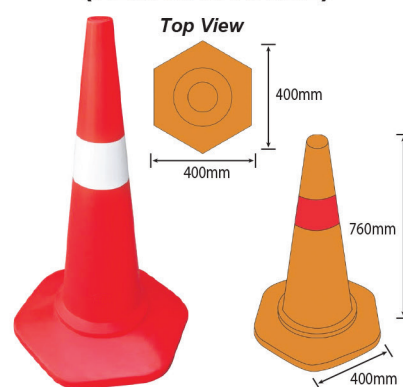
ROAD CONES - RC18 (HEXAGON BASE)



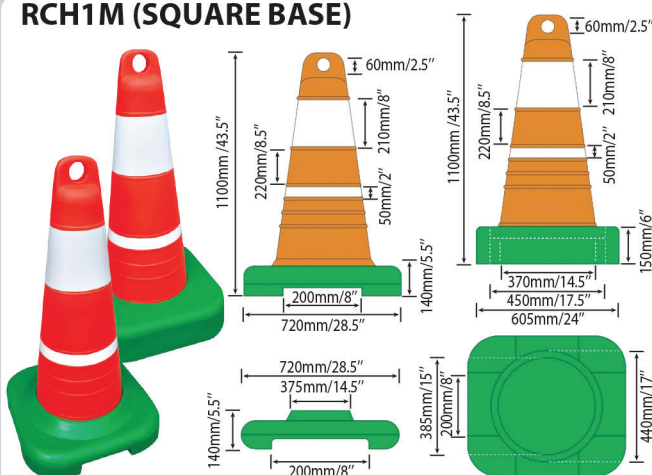
ROAD CONES - RCH30 (SQUARE BASE)



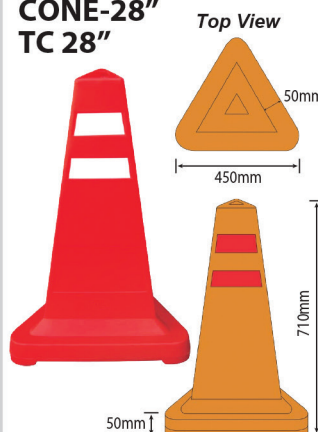
ROAD CONES - RC30 (HEXAGON BASE)



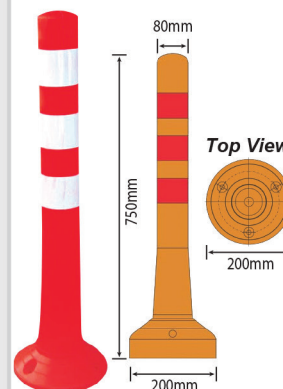
RCH1M (SQUARE BASE)



TRIANGULAR CONE-28" TC 28"



FLEXI POST - 30"



See CLEARLY

A special luminescent orange 'long life' pigment is used to allow the eyes to respond effectively during the day. At night, highly reflective sleeves help the eyes adjust to see more clearly in the dark.

Stand FIRMLY

The base is fully enclosed with sand bags, and together with a low center of gravity, it provides maximum stability.

Use CONFIDENTLY

Made of high quality, low density polyethylene material, this product will last longer because it is more durable and reliable. It also has high resistance to impact and UV degradation.

PRODUCT TYPE SPECIFICATIONS	RC 18	RCH 30 / RC30	RCH 1M	FLEXI-POST 30
Material	Polyethylene	Polyethylene	Polyethylene	Dow Elite (Toy Material)
Colour	Luminescent orange	Luminescent orange	Luminescent orange	Luminescent orange
Base Dimensions (mm)	Hexagonal 287.5 x 450 (11 1/2" x 18")	Hexagonal / Square	Square	200mm(B) x 750mm(H)
Weight Type	Sand	Sand	Water ballast	Ground Intact
Special Features	Good visibility High mobility	High visibility Good stability Long-term placement	High visibility Good stability Long-term placement	High visibility Good stability Long-term placement

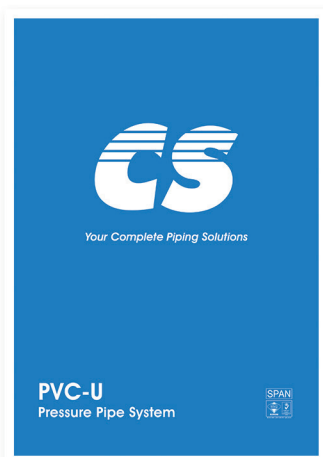
Manufacturer:



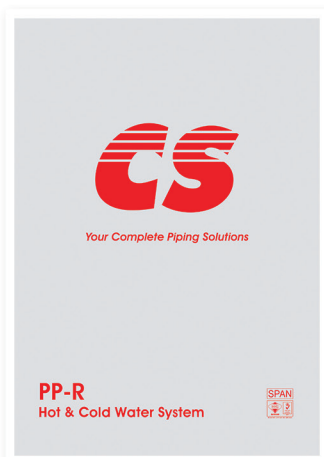
BNH MANUFACTURER
SDN BHD (372557-K)

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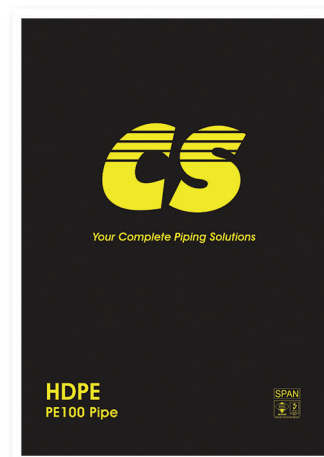
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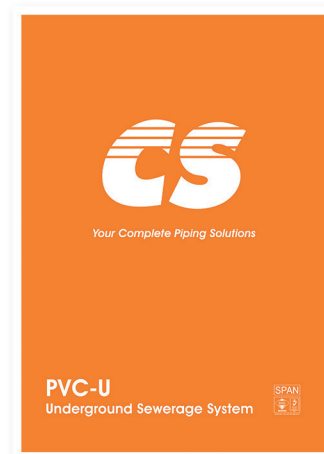
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