



Your Complete Piping Solutions

PIPES
For Infrastructure





COMPANY BACKGROUND

Cew Sin Plastic Pipe Sdn. Bhd. (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 SLS (Singapore Laboratory Services) 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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BNH
Road
Safety
Management
Catalogue



OUR COMMITMENTS AND SERVICES

VISION

To become the leading manufacturer and distributor of complete PVC-U, PP-R and HDPE piping 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



STATE-OF-THE-ART LABORATORY

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.

OUR ACCREDITED CERTIFICATION BODIES

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



PIPES FOR NETWORK INFRASTRUCTURE

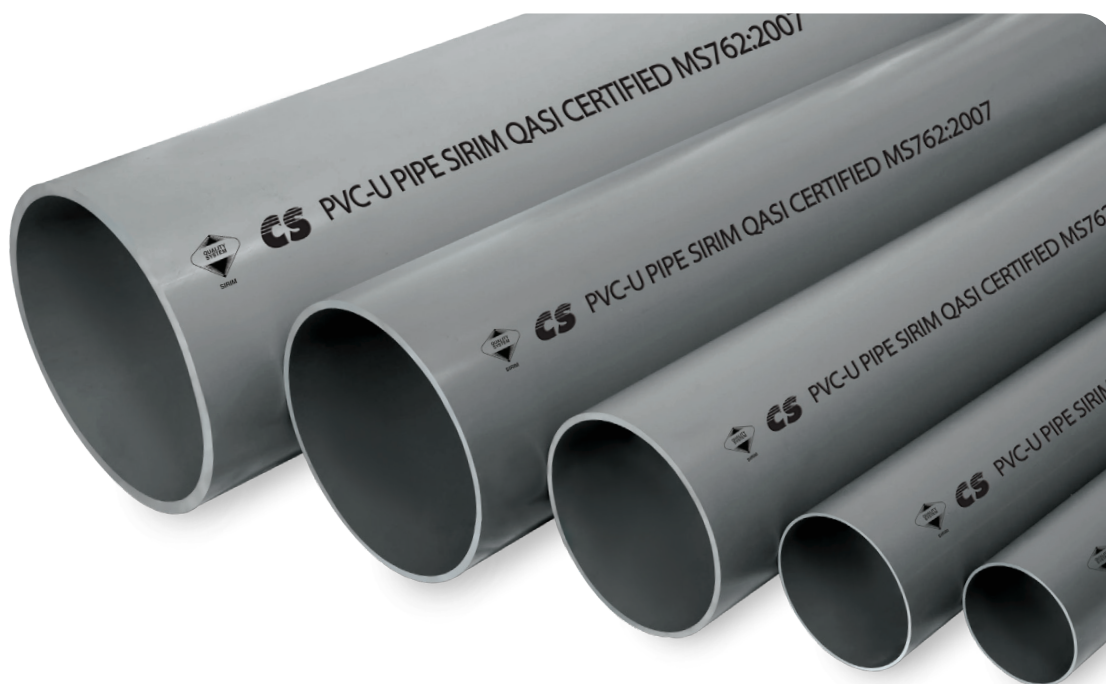


CS offers several HDPE and PVC-U pipe options for Network Infrastructure applications. HDPE pipes are highly recommended for network infrastructure applications because of their superior resistance to corrosion, immunity to galvanic and electrochemical reactions and easy installation via Horizontal Directional 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-050-5.8-GY	2	50	60.20	60.50	2.50	3.00	5.8
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-050-5.8-GY	2	50	60.20	60.50	3.10	3.70	5.8
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 (FOR ELECTRICAL)



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 (M)
H-DWCP-100-006-RD	100	6.0
H-DWCP-100-050-RD	100	50.0
H-DWCP-150-006-RD	150	6.0
H-DWCP-150-030-RD	150	30.0

HDPE CORRUGATED DOUBLE END SOCKET

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

HDPE SOLID WALL HDD (RED)

Sirim 52: 2022



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 installed either by open trenching or trenchless method, which is Horizontal Directional Drilling (HDD).

CS manufactures solid wall HDPE pipes in the standard lengths of 6 meters, 12 meters or in coil length 100 meter, as according to customer specification. There are three pipe series available for cable laying: SDR 17, SDR 13.6 and SDR 11. We recommend pipe series SDR 17 is solely for open trench application. Meanwhile, pipe series SDR 13.6 and SDR 11 can be used in open trench and HDD installation methods.

PIPES FOR NETWORK INFRASTRUCTURE

HDPE CABLE SOLID WALL (RED) PIPE

Sirim 52: 2022

HDPE SDR 17

PRODUCT CODE	NOMINAL SIZES (MM)	OUTSIDE DIAMETER		WALL THICKNESS		WEIGHT KG / METER
		MIN	MAX	MIN	MAX	
		(MM)		(MM)		
H-RP-SDR17-110-006-RD	110	110.00	110.70	6.60	7.40	2.200
H-RP-SDR17-125-006-RD	125	125.00	125.80	7.40	8.30	2.916
H-RP-SDR17-140-006-RD	140	140.00	140.90	8.30	9.30	3.525
H-RP-SDR17-160-006-RD	160	160.00	161.00	9.50	10.60	4.515
H-RP-SDR17-180-006-RD	180	180.00	181.00	10.70	11.90	5.820
H-RP-SDR17-200-006-RD	200	200.00	201.20	11.90	13.20	7.200
H-RP-SDR17-225-006-RD	225	225.00	226.40	13.40	14.90	9.100
H-RP-SDR17-250-006-RD	250	250.00	251.50	14.80	16.40	11.180
H-RP-SDR17-280-006-RD	280	280.00	281.70	16.60	18.40	14.020
H-RP-SDR17-315-006-RD	315	315.00	316.90	18.70	20.70	17.583

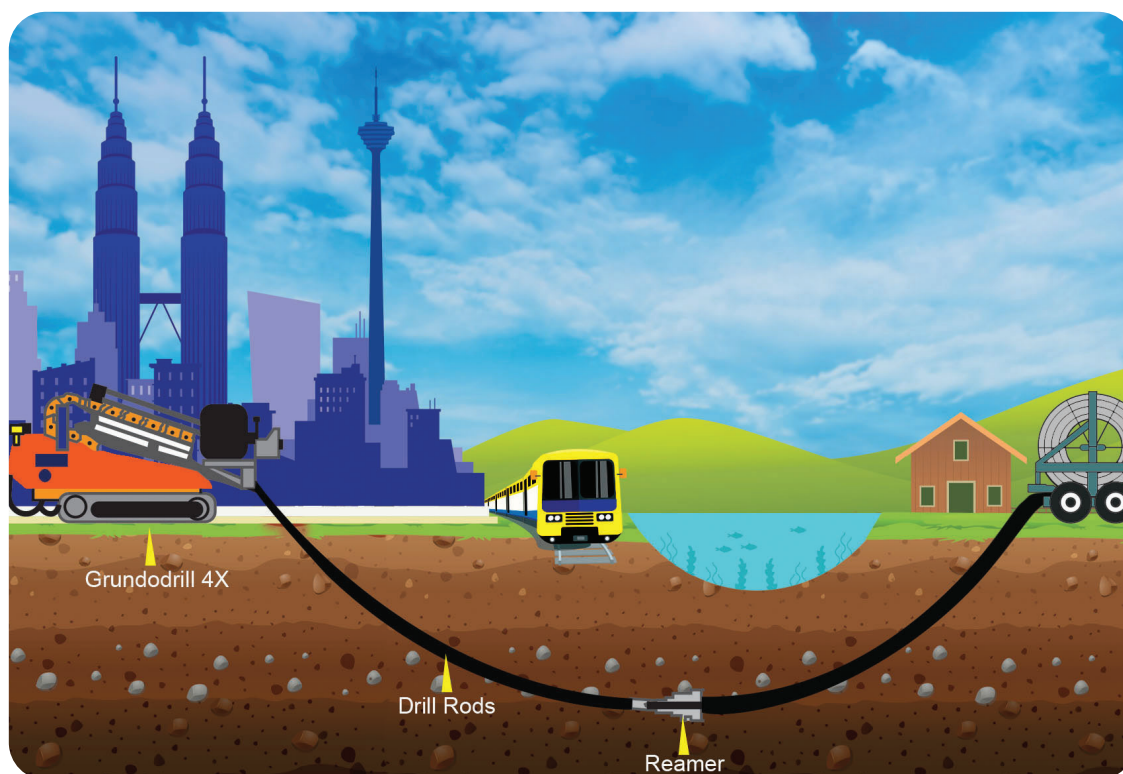
HDPE SDR 13.6

PRODUCT CODE	NOMINAL SIZES (MM)	OUTSIDE DIAMETER		WALL THICKNESS		WEIGHT KG / METER
		MIN	MAX	MIN	MAX	
		(MM)		(MM)		
HS-RP-SDR13.6-110-006-RD	110	110.00	110.70	8.10	9.10	2.620
HS-RP-SDR13.6-125-006-RD	125	125.00	125.80	9.20	10.30	3.370
HS-RP-SDR13.6-140-006-RD	140	140.00	140.90	10.30	11.50	4.220
HS-RP-SDR13.6-160-006-RD	160	160.00	161.00	11.80	13.10	5.510
HS-RP-SDR13.6-180-006-RD	180	180.00	181.00	13.30	14.80	7.000
HS-RP-SDR13.6-200-006-RD	200	200.00	201.20	14.70	16.30	8.580
HS-RP-SDR13.6-225-006-RD	225	225.00	226.40	16.60	18.40	11.100
HS-RP-SDR13.6-250-006-RD	250	250.00	251.50	18.40	20.40	13.700
HS-RP-SDR13.6-280-006-RD	280	280.00	281.70	20.60	22.80	17.200
HS-RP-SDR13.6-315-006-RD	315	315.00	316.90	23.20	25.70	21.706

HDPE SDR 11

PRODUCT CODE	NOMINAL SIZES (MM)	OUTSIDE DIAMETER		WALL THICKNESS		WEIGHT KG / METER
		MIN	MAX	MIN	MAX	
		(MM)		(MM)		
HC-RP-SDR11-110-006-RD	110	110.00	110.70	10.00	11.10	3.160
HC-RP-SDR11-125-006-RD	125	125.00	125.80	11.40	12.70	4.080
HC-RP-SDR11-140-006-RD	140	140.00	140.90	12.70	14.10	5.090
HC-RP-SDR11-160-006-RD	160	160.00	161.00	14.60	16.20	6.680
HC-RP-SDR11-180-006-RD	180	180.00	181.00	16.40	18.20	8.620
HC-RP-SDR11-200-006-RD	200	200.00	201.20	18.20	20.20	10.600
HC-RP-SDR11-225-006-RD	225	225.00	226.40	20.50	22.70	13.500
HC-RP-SDR11-250-006-RD	250	250.00	251.50	22.70	25.10	16.600
HC-RP-SDR11-280-006-RD	280	280.00	281.70	25.40	28.10	20.800
HC-RP-SDR11-315-006-RD	315	315.00	316.90	28.60	31.60	26.294

HORIZONTAL DIRECTIONAL DRILLING

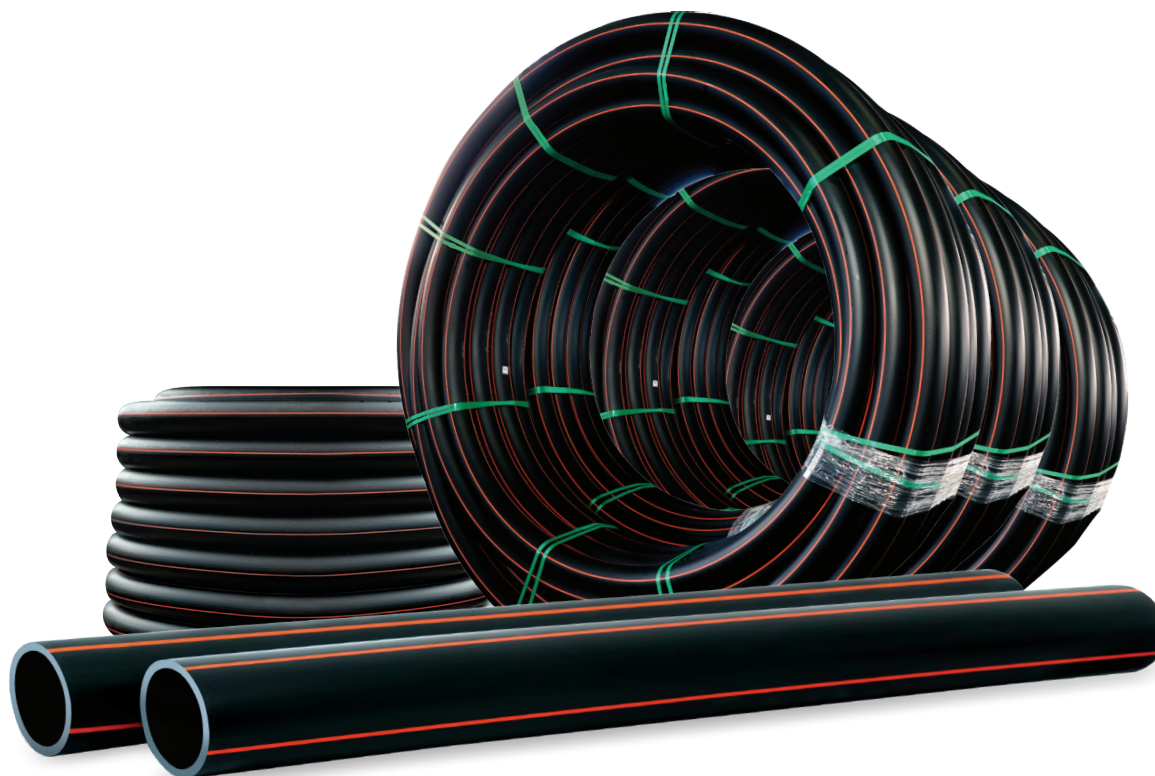


Horizontal directional drilling (HDD) is a trenchless construction method used to install pipelines of various sizes and materials below the ground surface. Trenchless technologies, such as horizontal directional drilling, pipe bursting and slip lining allow the entire water supply and drainage system 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)

Sirim 63: 2023



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-BP-SDR13.6-032-250-OL	32	32.00	32.30	2.40	2.80	0.229
HS-BP-SDR13.6-040-250-OL	40	40.00	40.40	3.00	3.50	0.358
HS-BP-SDR13.6-110-100-OL	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-BP-SDR11-032-250-OL	32	32.00	32.30	3.00	3.40	0.280
HC-BP-SDR11-040-250-OL	40	40.00	40.40	3.70	4.20	0.427
HC-BP-SDR11-110-100-OL	110	110.00	110.70	10.00	11.10	3.160

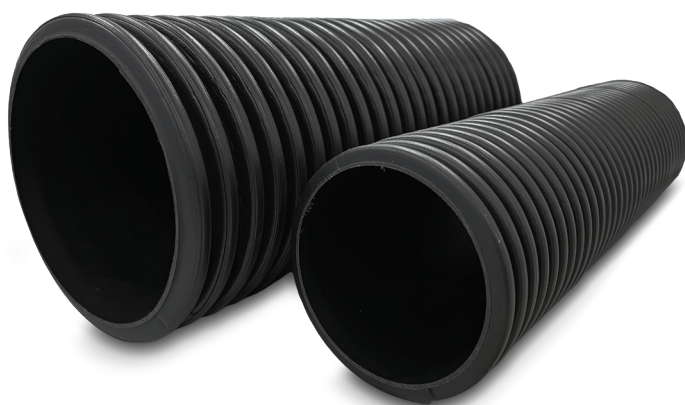
HDPE SUB-DUCT



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

HDPE DOUBLE WALL CORRUGATED PIPE (FOR TELECOMMUNICATIONS)



PRODUCT CODE	NOMINAL SIZES (MM)	LENGTH (M)
H-DWCP-100-006-BK	100	6.0
H-DWCP-100-050-BK	100	50.0
H-DWCP-150-006-BK	150	6.0
H-DWCP-150-030-BK	150	30.0

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

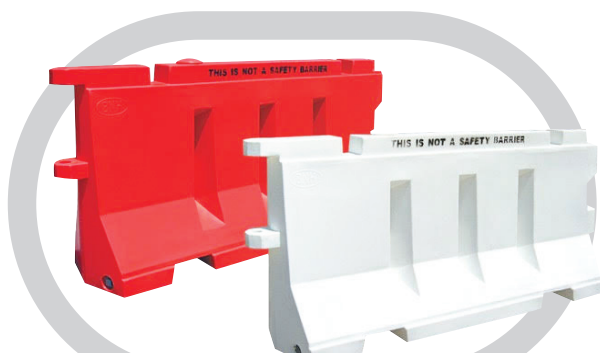
PRODUCT CODE	NOMINAL / SIZES		OUTSIDE DIAMETER		WALL THICKNESS (MM)	LENGTH (M)
	INCHES	MM	MIN	MAX		
			(MM)			
PS-TEL-107-6.0-BK	4	107	107.00	108.00	2.6-3.0	6.0

PE 100 AND PE 80 DIMENSION CHART

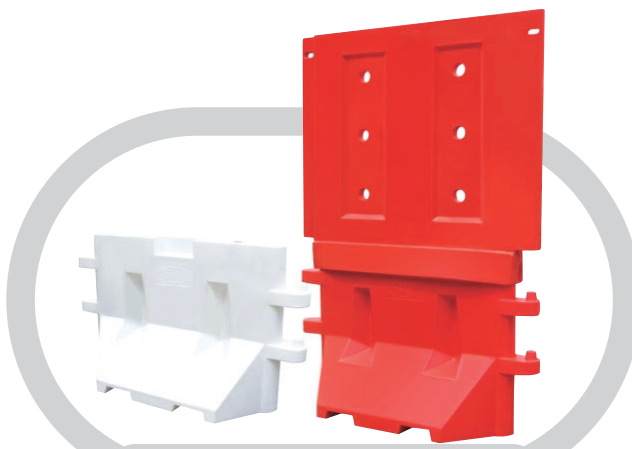
Pipe Series										
	SDR 9 S 4		SDR 11 S 5		SDR 13.6 S 6.3		SDR 17 S 8		SDR 21 S 10	
	Nominal pressure, PN in bar									
PE 100	PN 20		PN 16		PN 12.5		PN 10		PN 8	
PE 80	PN 16		PN 12.5		PN 10		PN 8		PN 6	
Nominal Size (mm)	Wall Thickness									
	e _{min}	e _{max}	e _{min}	e _{max}	e _{min}	e _{max}	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
500	55.8	61.5	45.4	50.1	36.8	40.6	29.7	32.8	23.9	26.4
560	62.5	68.9	50.8	56.0	41.2	45.5	33.2	36.7	26.7	29.5
630	70.3	77.5	57.2	63.1	46.3	51.1	37.4	41.3	30.0	33.1
710	79.3	87.4	64.5	71.1	52.2	57.6	42.1	46.5	33.9	37.4
800	89.3	98.4	72.6	80.0	58.8	64.8	47.4	52.3	38.1	42.1
900	-	-	81.7	90.0	66.1	72.9	53.3	58.8	42.9	47.3
1000	-	-	90.8	100.0	73.5	79.9	59.3	65.4	47.7	52.6



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.

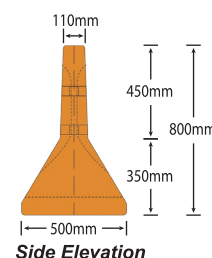
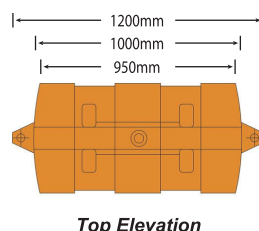
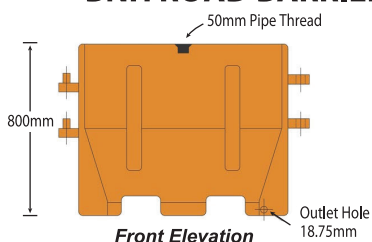
Stand FIRMLY

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

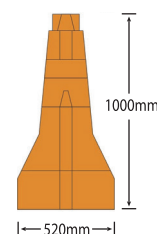
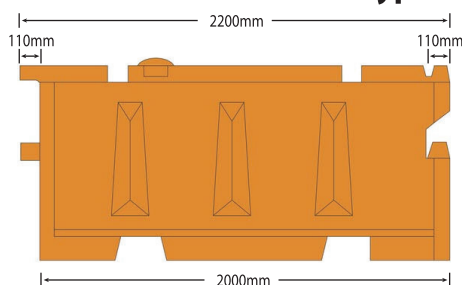
Use CONFIDENTLY

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.

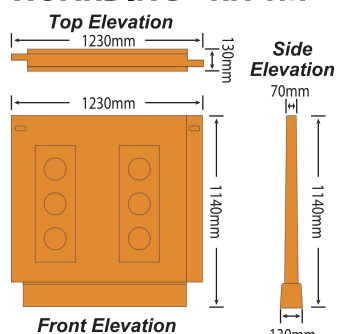
BNH ROAD BARRIERS ~ RB 1ML



BNH ROAD BARRIERS ~ RB 2M-Type A



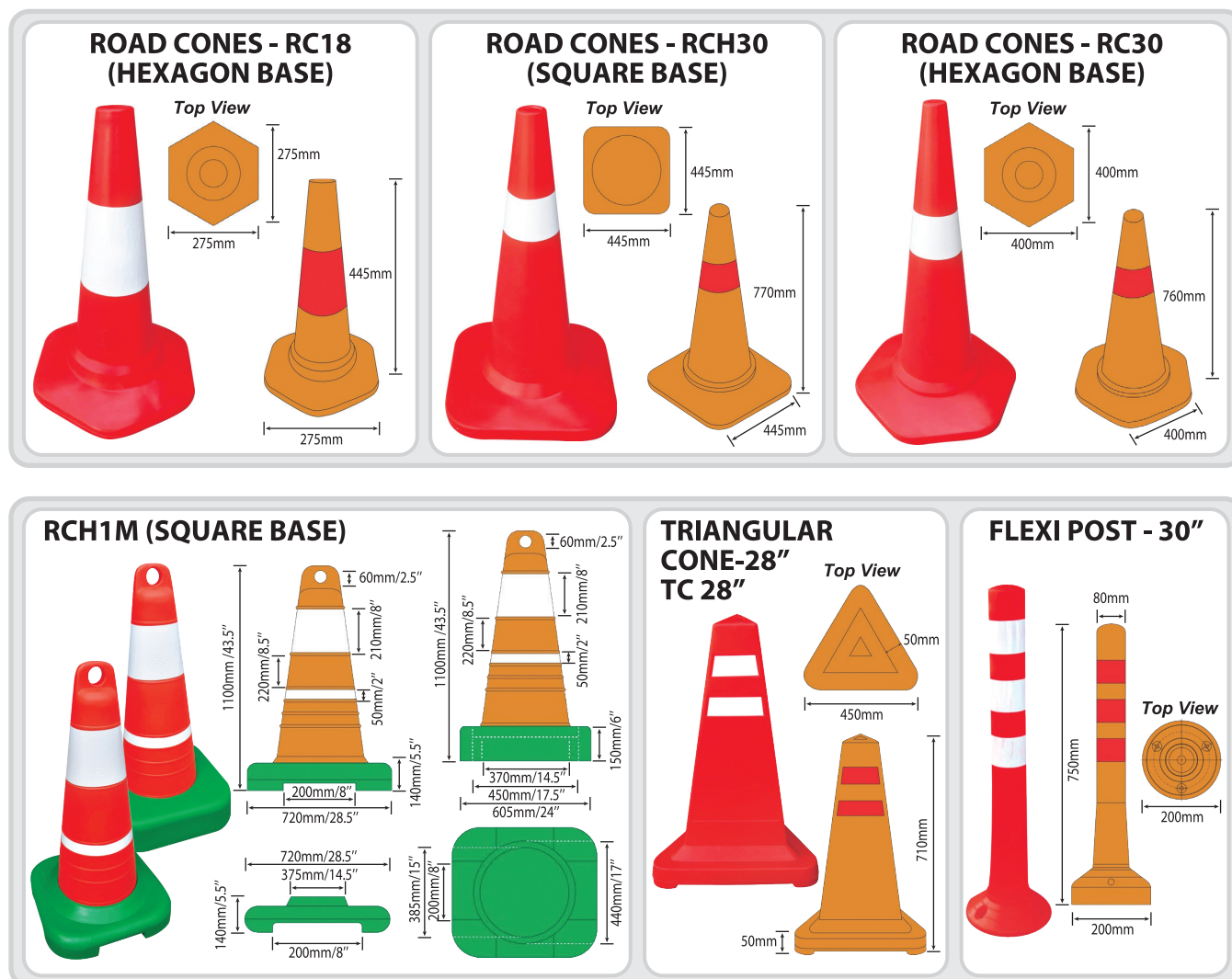
ROAD BARRIERS HOARDING~ RH 1M



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



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)

PERAK, W. MALAYSIA
www.bnh.my

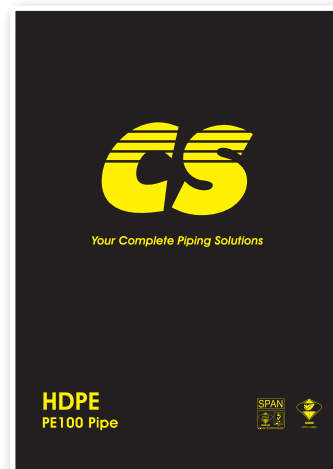
OTHER CS CATALOGUES



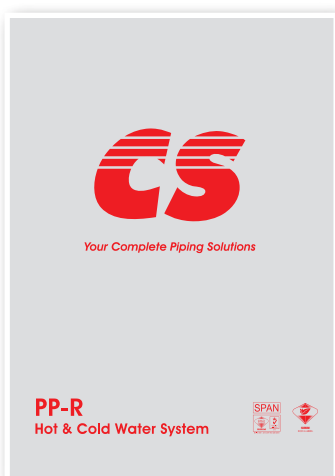
PVC-U Rainwater Drainage System



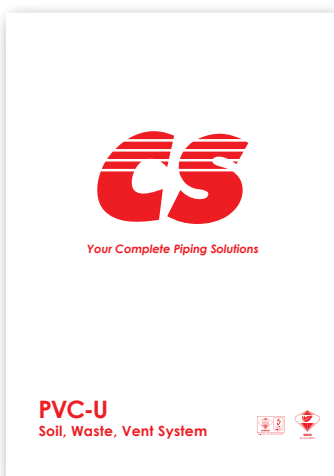
PVC-U Pressure Pipe System



HDPE PE100 Pipe



PP-R Hot & Cold Water System



PVC-U Soil, Waste, Vent System



PVC-U Underground Sewerage System



Water Storage Tank, Waste Water Management
& Road Safety Management

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