



**YOUR TOTAL SOLUTION
FOR PIPES SYSTEM**





Chin Lean Plastic Factory Sdn. Bhd. was incorporated in the year 1979. The company starts with a humble beginning producing PVC hose and small diameter uPVC pipes for commercial use to a more sophisticated manufacturing facility producing a range of uPVC pipes, PVC hose, insert tubes and uPVC fittings both for projects as well as for commercial usage. Chin Lean Plastic Factory Sdn. Bhd. is located on a well planned, modern facilities with ample local workforce of more than 100 workers in a small town of Langkap in the state of Perak Darul Ridzuan.

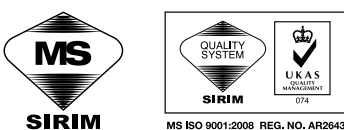
The company involved in the manufacturing of quality uPVC

pipes during the early 90's with the receipts of Sirim certification for its product. The company's major market covers the whole of Peninsular Malaysia as well as Sabah and Sarawak, dealing with major hardware shop and also exports to neighbouring countries like Singapore and Brunei.

The company also has been supplying quality uPVC pipes to water management authorities like Lembaga Air Perak (L.A.P.) and SAJ Holding Sdn. Bhd. for the water reticulation projects. With our own fleet of lorry transport, the company is able to deliver our products to any corner of Peninsular Malaysia at the shortest possible time.

We produce uPVC pipes of consistent quality product with continuity as the company received certificate of Quality System and product certification as listed below:

- 1993** received product certification from SIRIM awards
- 2002** received ISO MS 9001:2000 from SIRIM QAS International Sdn. Bhd.



As part of our continuous improvement, Chin Lean reserve the right to change specification without notice.



uPVC Bell-Mouth Pressure Pipe Joint (RRJ)



SELLOC S-21 uPVC Bell-Mouth pipe is complied to MS628: Part 2: Section 2.1 with available diameter from 100mm to 300mm for water pressure application. Pipe designed has a very high performance with integrated system sealing where the seal and mandrel act together as a tool to form the pipe socket during manufacture. The main principal of the joint is the use of rubber sealing ring for good sealing purpose, easy and quickly to install. It is automatically compressed to form an effective seal when the spigot ends insert into the socket.

PRODUCT FEATURES

Application: Water supply
 Product range:
 DN 100mm to DN 300mm
 Maximum working pressure:
 9 bar to 15 bar.
 Material: Unplasticized Polyvinyl Chloride (uPVC / PVC-U)
 Length: 6 meter & 5.8 meter (upon customer request)
 Colour: Grey / Blue

RUBBER TYPE

Rubber ring seal is made from material of black EPDM rubber (Ethylene Propylene Diene Monomer) complied to BS EN 681 with dual hardness seal consisting of:

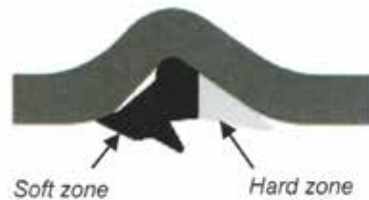
Soft zone – The flexible rubber is designed with a combined compression and lip seal acting on both spigot and socket to maximize the seal effectively

Hard zone – the reinforcement

rubber, bonded to flexible rubber to holds the seal firmly in place

PRODUCT FUNCTION

The seal become part of socket



forming tool used to shape it's own seal groove reducing Irregularities and tolerances in the socket. The seal is Equally effective under both positive and negative pipe pressure (vacuum).

Under positive pressure rubber section is pressed forward, giving a still more effective seal. The higher pressure giving the greater sealing force.

Under negative pressure the rubber section pressed backwards, it expands radially and

seals effectively against both the socket and spigot. The sealing action of the front rubber edge prevents sand or soil from entering the seal.

MARKING

Printing by inject printer as following identification (as shown at bottom of the page)

ADVANTAGES

- Long life span
- Cost effective
- Lightweight
- No heavy equipment needed
- Fast and easy to assemble & dismantle

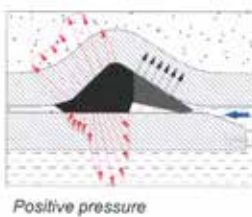
QUALITY ASSURANCE

Quality Management System complied to **ISO 9001:2008** by SIRIM QAS International Sdn. Bhd. Certificate No.: **AR 2643**

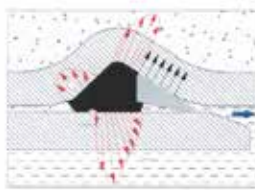
CERTIFICATION

This pipe certified by SIRIM QAS International Sdn. Bhd. since 1993 with certificate No.: **PC007103**

- Standard reference: **MS628: Part 2: Section 2.1**



Positive pressure



Negative pressure

As part of our continuous improvement, Chin Lean reserve the right to change specification without notice.

Certification Body Logo	Manufacturer Logo & Name	Standard Reference	Nominal Diameter	Nominal Pressure	Material	License No.	Date Shift & Time	Machine No.
SIRIM	CHINLEAN	MS628:1:1999	100MM	PN12	uPVC	PC007106	121101A 12:00	(8)



uPVC Conduit for Underground Telecommunication Cables



CHINLEAN® uPVC conduit has smooth wall constructed to provide reliable mechanical protection to the telecommunication cables contained therein and is used in a wide range of underground installation. These conduit complied with standard of MS1034.

MATERIAL PROPERTIES

Specific gravity: 1.4
 Specific heat: 1000J/kg/°C
 Thermal conductivity: 1.6W/m/°C
 Coefficient of linear expansion: 6×10^{-5} mm/mm/°C

Vicat softening point: 81°C
 Modulus of elasticity in bend: 3000N/mm²
 Tensile strength at yield: 45N/mm²
 Elongation at break: 80%

MARKING

All conduit are printed with used silk screen printer, the following details at approximately meter intervals.

ADVANTAGES

- Efficient use of material
- Lighter weight per unit length
- Superior strength

- Long pipe lengths
- Improved handling and durability
- High performance and cost efficiency
- High impact strength
- Easy handling/ installation

QUALITY ASSURANCE

Chin Lean Plastic has established the Quality Management System complied to **ISO 9001:2008** assessed by SIRIM QAS International Sdn. Bhd. to ensure quality system and quality product fulfill to the requirements. Certificate No.: **AR 2643**

CERTIFICATION

CHINLEAN® uPVC underground drainage and sewer pipe is certified by SIRIM QAS International Sdn. Bhd. certification body of Malaysian since 2002 with certificate No.: **PC007108**

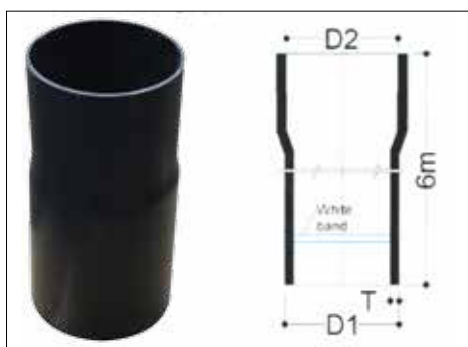
- Standard reference: **MS 1034.**

APPLICATION

uPVC telecommunication conduit are suitable for use in: High speed Broadband (HSBB), Closed-circuit television (CCTV) and fiber optic cable.

PRODUCT FEATURES

Material: Unplasticized Polyvinyl Chloride (uPVC)
 Size: 107mm
 Colour: Black
 Length: 6 meter with socket ended
 Joint: Solvent cement weld



Nominal Size	Outside Diameter (D1)		Socket inside diameter (D2)		Wall thickness (T)	
	Min.	Max.	Min.	Max.	Min.	Max.
107	107.0	108.0	108.5	109.0	2.6	3.0

All dimensions in millimeter (mm)

Certification Body Logo	Manufacturer Logo & Name	Standard Reference	Nominal Size	Material	Designation	Approval No.	Date Shift & Time
SIRIM	CHINLEAN	MS1034	107mm	UPVC	TCM	PC007108	121011 B

As part of our continuous improvement, Chin Lean reserve the right to change specification without notice.



uPVC Underground Drainage and Sewer Piping Systems



CHINLEAN® uPVC drainage and sewer is smooth internal and external wall pipes manufacturer with comply to MS979: Part 1 (BS 4660) for diameter up to 155mm and MS979: Part 2 (BS 5481) for pipes diameter 200mm and above.

Vicat softening point: 79°C
 Modulus of elasticity in bend: 3000N/mm²
 Tensile strength at yield: 45N/mm²
 Elongation at break: 80%

Superior flow characteristics – it's very smooth bore and chemical resistance characteristics ensure no scale or built up corrosion, thus producing a high flow capacity.

APPLICATION

Pipes application for the conveyance of normal domestic effluents Including foul and surface water sewers.

PRODUCT FEATURES

Material: Unplasticized Polyvinyl Chloride (uPVC)
 Colour: Golden Brow
 Length: 6 meter & 5.8 meter
 Joint: Solvent cement weld

MATERIAL PROPERTIES

Specific gravity: 1.4
 Specific heat: 1000J/kg/°C
 Thermal conductivity: 1.6W/m/°C
 Coefficient of linear expansion: 6 x 10⁻⁵mm/mm/°C

MARKING

All drainage and sewer pipes are printed, the following details at approximately meter intervals. The fittings has clearly and durably marked by moulded impression for each cavity of products.

ADVANTAGES

High Impact Strength – to ensures a greater resistance to the rigorous pipe laying conditions.

Easy Handling / Installation – the ease of handling, installation and transport provide overall project savings.

Chemical Resistance – a high level of chemical resistance to the wide range of substances found in both effluent and contaminated soils.

QUALITY ASSURANCE

Chin Lean Plastic is established the Quality Management System has been complies to **ISO 9001:2008** assessed by SIRIM QAS International Sdn. Bhd. to ensure quality system and quality product fulfill to the requirements. Certificate No.: **AR 2643**

CERTIFICATION

CHINLEAN® uPVC underground drainage and sewer pipe is certified by SIRIM QAS International Sdn. Bhd. certification body of Malaysian since 1996 with certificate No.:

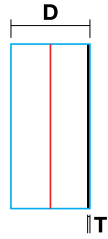
PC007102 (MS979: Part 2) and **PC007105 (MS979: Part 1)**



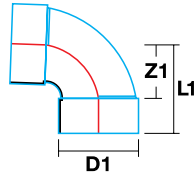
Certification Body Logo	Manufacturer Logo & Name	Standard Reference	Nominal Size	Material	Designation	Date Shift & Time	Machine No.
SIRIM	CHINLEAN	MS979:1	100mm	UPVC	U.G PC007105	150408 C 21:12	(8)

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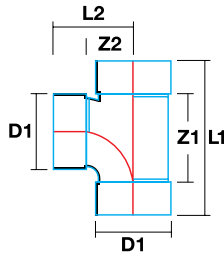
Product Dimension



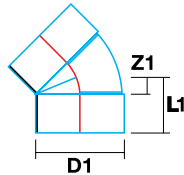
UPVC Underground Pipes		
Nominal Size (DN) (mm)	Outside Diameter (D) (mm)	Wall Thickness (mm)
100	110.0 - 110.4	3.2
155	160.0 - 160.6	4.1
200	200.0 - 200.6	4.9
250	250.0 - 250.7	6.1
315	315.0 - 315.9	7.7



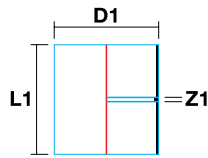
Nominal Size (DN) (mm)	Dimension (mm)		
	D1	L1	Z1
100	110.2	124	75
155	160.2	178	120
200	200.4	189	115



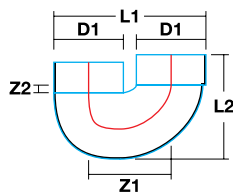
Nominal Size (DN) (mm)	Dimension (mm)				
	D1	L1	L2	Z1	Z2
100	110.2	236	137	140	89
155	160.2	321	178	205	120



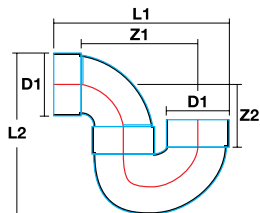
Nominal Size (DN) (mm)	Dimension (mm)		
	D1	L1	Z1
100	110.2	72	24
155	160.2	93	35
200	200.4	130	59



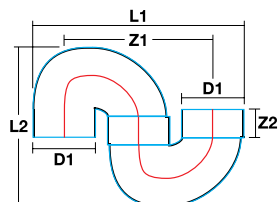
Nominal Size (DN) (mm)	Dimension (mm)		
	D1	L1	Z1
100	110.2	100	4
155	160.2	120	4
200	200.4	200	4



Nominal Size (DN) (mm)	Dimension (mm)				
	D1	L1	L2	Z1	Z2
100	110.2	250	163	137	17



Nominal Size (DN) (mm)	Dimension (mm)				
	D1	L1	L2	Z1	Z2
100	110.2	318	280	211	107



Nominal Size (DN) (mm)	Dimension (mm)				
	D1	L1	L2	Z1	Z2
100	110.2	392	262	274	50

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uPVC Pressure Pipe with Solvent Cement Joint (SCJ)



CHINLEAN® uPVC Pressure pipes are superior material for water conveying system with higher internal pressure with major use in cold water service and industrial use. This piping system ranging sizes from DN 15mm to DN 300mm, in pressure ratings from 6 bar to 15 bar and high pressure up to 40 bar of Class 7. The pipes complied to standard of MS628: Part 1 (BS3505) and (BS3506).

PIPE CATEGORIES

uPVC pressure pipes are specified by:
Nominal size (DN): Measurement of out-side diameter of pipes in millimeter (mm)

Class of pipes: maximum working pressure in units Bar, MPa or Psi

Type of joint: Solvent cement joints (SCJ)

PRODUCT FEATURES

Main Application: Water supply

Other application: Industrial use, telecommunication, electrical, mining

Material: Unplasticized Polyvinyl Chloride (uPVC / PVC-U).

Product range: Supplied in plain end size DN 15 to DN 300mm or socket at one end for solvent weld connection for DN 80mm to DN 300mm

Maximum working pressure: 6 bar to 15 bar for water supplier

and 22 to 40 for industrial use Working temperature:

uPVC pipe generally can be used at temperatures between 20°C to 50°C. Temperature up to 60°C can be accommodated if at a reduced pressure rating and service life are acceptable

Length: 6 meter & 5.8 meter (upon customer request)

Colour: Grey / Blue

MARKING

Printing by inject printer, as following identification: Pressure pipes marked by inject printer, and fittings has clearly and durable marked by moulded impression for each cavity of products

CLASSIFICATION OF PIPES			
Pressure	Maximum Working Pressure (Bar / MPa / Psi)		Standard
	20°C	30°C	
Pipes Class			
Class B	6 / 0.6 / 87	4.8 / 0.48 / 70	MS 672
PN 9	9 / 0.9 / 131	7.2 / 0.72 / 104	MS 628.1
PN 12	12 / 1.2 / 174	9.6 / 0.96 / 139	MS 628.1
PN 15	15 / 1.5 / 218	12.0 / 1.2 / 174	MS 628.1
Class 7	15mm	40 / 4.0 / 580	32 / 3.2 / 464
	20mm	32 / 3.2 / 464	25.6 / 2.6 / 371
	25mm	32 / 3.2 / 464	25.6 / 2.6 / 371
	32mm	28 / 2.8 / 406	22.4 / 2.2 / 325
	40mm	25 / 2.5 / 363	20.0 / 2.0 / 290
	50mm	22 / 2.2 / 319	17.6 / 1.8 / 255

QUALITY ASSURANCE

Quality Management System complied to **ISO 9001:2008** by SIRIM QAS International Sdn. Bhd. Certificate No.: **AR 2643**



uPVC PRESSURE FITTINGS WITH SOLVENT CEMENT JOINT

A range of fitting manufactured is available for use with **CHINLEAN®** uPVC pressure pipes in the size as shown.

Standard Reference: **MS628: Part 2: Section 2.1 (BS4346: Part 1)**

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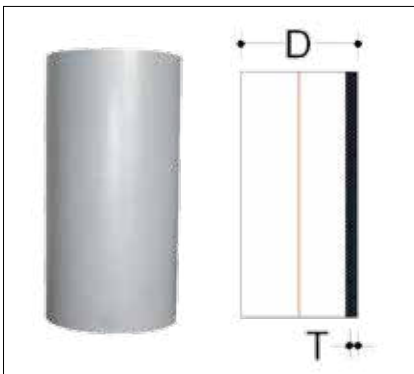
Certification Body Logo	Manufacturer Logo & Name	Standard Reference	Nominal Diameter	Nominal Pressure	Material	License No.	Date Shift & Time	Machine No.
SIRIM	CHINLEAN	MS628:1:1999	100MM	PN12	uPVC	PC007106	121101A 12:00	(8)



Pipes Dimension & Product Range



PIPES RANGE			
Product Description	No. of Size	Size (mm)	Standard
Pipes (Plain End)			
Class B	6	80, 100, 155, 200, 250, 300	MS 762
PN 9	7	50, 80, 100, 155, 200, 250, 300	MS 628.1
PN 12	10	32, 40, 50, 65, 80, 100, 155, 200, 250, 300	MS 628.1
PN 15	12	15, 20, 25, 32, 40, 50, 80, 100, 155, 200, 250, 300	MS 628.1
Class 7	5	15, 20, 25, 32, 40, 50	MS 762
Pipes (with Socket End)			
Class B	6	80, 100, 155, 200, 250, 300	MS 762
PN 9	6	80, 100, 155, 200, 250, 300	MS 628.1
PN 12	6	80, 100, 155, 200, 250, 300	MS 628.1
PN 15	6	80, 100, 155, 200, 250, 300	MS 628.1



PIPES DIMENSION							
Nominal Diameter (DN)		Outside Diameter (D)	Wall Thickness T(mm)				
mm	Inch	No. of Size	Class B (MS 762)	PN9 (MS628.1)	PN12 (MS628.1)	PN15 (MS628.1)	Class 7
15	1/2"	21.2 - 21.5				1.7 - 2.1	3.7 - 4.3
20	3/4"	26.6 - 26.9				1.9 - 2.5	3.9 - 4.5
25	1"	33.4 - 33.7				2.2 - 2.7	4.5 - 5.2
32	1 1/4"	42.1 - 42.4			2.2 - 2.7	2.7 - 3.2	4.8 - 5.5
40	1 1/2"	48.1 - 48.4			2.5 - 3.0	3.1 - 3.7	5.1 - 5.9
50	2"	60.2 - 60.5		2.5 - 3.0	3.1 - 3.7	3.9 - 4.5	5.5 - 6.3
65	2 1/2"	75.7 - 76.3*			3.9 - 4.5		
80	3"	88.7 - 89.1	2.9 - 3.4	3.5 - 4.1	4.6 - 5.3	5.7 - 6.6	
100	4"	114.1 - 114.5	3.4 - 4.0	4.5 - 5.2	6.0 - 6.9	7.3 - 8.4	
155	6"	168.0 - 168.5	4.5 - 5.2	6.6 - 7.6	8.8 - 10.2	10.8 - 12.5	
200	8"	218.8 - 219.4	5.3 - 6.1	7.8 - 9.0	10.3 - 11.9	12.6 - 14.5	
250	10"	272.6 - 273.4	6.6 - 7.6	9.7 - 11.2	12.8 - 14.8	15.7 - 18.1	
300	12"	323.4 - 324.3	7.8 - 9.0	11.5 - 13.3	15.2 - 17.5	18.7 - 21.6	

* Dimension of outside diameter is complied to standard of JIS K 6741.84

FITTINGS RANGE		
Product Description	No. of Size	Size (mm)
90° Elbow	13	15, 20, 25, 32, 40, 50, 65*, 80, 100*, 155*, 200#, 250#, 300#
Reducing Elbow	3	20x15, 25x20, 25x20
P/T Elbow	6	15, 20, 25, 32*, 40*, 50*
45° Elbow	6	50*, 80*, 100*, 155*, 200#, 250#
Tee	12	15, 20, 25, 32, 40, 50, 65*, 80*, 100*, 155*, 200#, 250#
Reducing Tee	33	20x15, 25x15, 25x20, 32x15, 32x20, 32x25, 40x15*, 40x20, 40x25, 40x32, 50x15*, 50x20, 50x25, 50x32, 50x40, 65x40*, 65x50*, 80x25, 80x32, 80x40, 80x50, 80x65*, 100x40*, 100x50, 100x80, 155x80*, 155x100*, 200x100#, 200x155#, 250x155#, 250x200#, 300x200#, 300x250#
P/T Tee	2	15, 20
D/E Socket	13	15, 20, 25, 32, 40, 50, 65*, 80, 100, 155*, 200#, 250#, 300#
Reducing Socket	29	20x15, 25x15, 25x20, 32x15, 32x20, 32x25, 40x15*, 40x20, 40x25, 40x32, 50x15*, 50x20, 50x25, 50x32, 50x40, 65x40*, 65x50*, 80x50*, 80x65*, 100x50*, 100x80*, 155x80*, 155x100*, 200x100#, 200x155#, 250x155#, 250x200#, 300x200#, 300x250#
Valve Socket	10	15, 20, 25, 32, 40, 50, 65*, 80, 100*, 155#
P/T Socket	9	15, 20, 25, 32, 40, 50, 65*, 80, 100
Tank Connector	6	15, 20, 25, 32, 40, 50
Jam Nut	6	15, 20, 25, 32, 40, 50
End Cap	11	15, 20, 25, 32, 40, 50, 65*, 80, 100, 155*, 200#
Reducing Bush	10	20x15, 25x15, 25x20, 32x25*, 40x25*, 40x32*, 50x25*, 50x32*, 50x40*, 100x80*
Plug	8	15, 20, 25, 32, 40, 50, 80*, 100*
Flange	9	40*, 50*, 65*, 80*, 100*, 155*, 200#, 250#, 300#
Pipe Clip	8	15*, 20*, 25*, 32*, 40*, 50*, 80*, 100*

* Other source # Imported F Fabricated

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uPVC Pressure Fittings Product Ranges

* Other source # Imported F Fabricated



90° Elbow

Size (mm)		
15	50	200 ^F
20	65 [*]	250 ^F
25	80	300 ^F
32	100 [*]	
40	155 [*]	



Reducing Elbow

Size (mm)		
20x15		
25x15		
25x20		



P/T Elbow

Size (mm)		
15	25	40 [*]
20	32 [*]	50 [*]



45° Elbow

Size (mm)		
50 [*]	100 [*]	200 ^F
80 [*]	155 [*]	250 ^F



Tee

Size (mm)		
15	40	100 [*]
20	50	155 [*]
25	65 [*]	200 ^F
32	80 [*]	250 ^F



Reducing Tee

Size (mm)		
20x15	50x20	100x40 [*]
25x15	50x25	100x50
25x20	50x32	100x80
32x15	50x40	155x80 [*]
32x20	65x40 [*]	155x100 [*]
32x25	65x50 [*]	200x100 ^F
40x15 [*]	80x25	200x155 ^F
40x20	80x32	250x155 ^F
40x25	80x40	250x200 ^F
40x32	80x50	300x200 ^F
50x15 [*]	80x65 ^F	300x250 ^F



P/T Tee

Size (mm)	
15	20



DE Socket

Size (mm)		
15	50	200 ^F
20	65 [*]	250 ^F
25	80	300 ^F
32	100	
40	155 [*]	



Reducing Socket

Size (mm)		
20x15	50x15 [*]	100x80
25x15	50x20	155x80 [*]
25x20	50x25	155x100 [*]
32x15	50x32	200x100 ^F
32x20	50x40	200x155 ^F
32x25	65x40 [*]	250x155 ^F
40x15 [*]	65x50 [*]	250x200 ^F
40x20	80x50	300x200 ^F
40x25	80x65 [*]	300x250 ^F
40x32	100x50	



Valve Socket

Size (mm)		
15	40	100 [*]
20	50	155 ^F
25	65 [*]	
32	80	



P/T Socket

Size (mm)		
15	32	65 [*]
20	40	80
25	50	100



Tank Connector

Size (mm)		
15	25	40
20	32	50



Jam Nut

Size (mm)		
15	25	40
20	32	50



End Cap

Size (mm)		
15	40	100
20	50	155 [*]
25	65 [*]	200 ^F
32	80	



Reducing Bush

Size (mm)		
20x15	40x20 [*]	50x40 [*]
25x15	40x25 [*]	100x80 [*]
25x20	50x25 [*]	
32x25 [*]	50x32 [*]	



Plug

Size (mm)		
15	32	80 [*]
20	40	100 [*]
25	50	



Flange

Size (mm)		
40 [*]	80 [*]	200 [*]
50 [*]	100 [*]	250 [*]
65 [*]	155 [*]	300 [*]



Pipe Clip

Size (mm)		
15 [*]	32 [*]	80 [*]
20 [*]	40 [*]	100 [*]
25 [*]	50 [*]	

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CHINLEAN® PVC Solvent Cement NO. 70



CHINLEAN® No. 70 PVC Solvent Cement is clear colour, highly soluble fast-dry, high strength and stable quality, designed for all classes of uPVC pressure pipes and fittings from 15mm to 100mm diameters. When it is used in uPVC pipes it will instantly dissolve and blend with the pipe to produce a film of 0.4mm thick, so that the fitting gap will be strong and stable.

APPLICATION

NO. 70 Solvent Cement is suitable on all types of uPVC pipe applications of use like potable water pressure systems, irrigation, conduit, industrial pipe applications, sewer, drain, waste and vent systems.

ADVANTAGES

- Superior bonding strength
- Fast Setting
- Waterproof Bonding

SPECIFICATIONS

Colour: Transparent
Resin: PVC
Density: Approx. 0.96g/ml
Viscosity: 1,000cps @ 23°C

STANDARDS AND CERTIFICATION LISTINGS

Standard; MS628: Part2: Section 2.2 (equivalent to BS 4346 Part 3). Certified by; SIRIM QAS International Sdn. Bhd. Certificate no. of: PC007118. Listed in List of local building material / product

from IRKAM QA Services Sdn. Bhd.

BRUSH SIZE

Up to 25mm: Ø8mm round brush
32 to 50mm: 1" flat brush
65 to 100mm: 2" flat brush

AVAILABILITY

NO. 70 PVC Solvent Cement is available in 500g weight metal cans. 20 cans per carton box (508mm x 220mm x 225mm)

SAFETY & FIRST AID DIRECTIONS

Avoid contact with eyes, skin and mouth. In case of contact with eyes, flush with water immediately for 15 minutes. Use in well ventilated area. Keep out of reach of children

CAUTION

Do not decant or dilute, and the useful life of solvent cement can be conserved by replacing the lid or cap, as applicable immediately after each time of use.

SHIPPING

Proper Shipping Name: Adhesive
Hazard Class: 3
Number: UN 1133
Label Required: Flammable Liquid

STORE

Highly inflammable, keep away from heat source or naked flames. Store in dry and cool place.



Installation – Solvent Cement Weld Joint



01 Cut the pipe square and deburr



02 Mark the spigot at a distance equal to the internal depth of the socket



03 Using the clean cloth, wipe away all loose dirt and moisture from bonding surface



04 Using a clean brush apply a thin, uniform coat of **CHINLEAN® No. 70** solvent cement to the both internal surface of socket, and then to the external surface (pic. 05) of the spigot up to the mark



05



06 Immediately push the spigot straight (**DO NOT TWISTING**) into the socket as far as the mark. Hold the jointing for 20 to 30 seconds

Installation – uPVC Bell-Mouth Pressure Pipe Joint (RRJ)



01 Each pipes should be checked to make sure free from scratch, sand, mud, foreign matter or other damage. Clean the spigot and socket end of pipes.



02 **DO NOT REMOVE RUBBER SEALING RING** from the groove of Bell-Mouth Pipe



03 Make sure the spigot have the the chamfer and witness mark



04 Lubricate the spigot by using correct lubricant, and **DO NOT LUBRICATE THE RING or THE GROOVE**

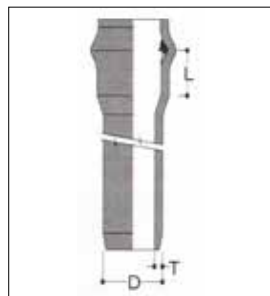


05 Carefully align the pipes before attempting the thrust home. Push the spigot into the socket until the witness mark remains just visible. Jointing may be assisted by the use of a crowbar and block



06 In this position clearance is automatically allowed for expansion and contraction, so do not push the pipe pass the witness mark

As part of our continuous improvement, Chin Lean reserve the right to change specification without notice.



uPVC Bell-Mouth Pressure Pipe Joint

Nominal Size (DN) (mm)	Outside Diameter (OD)	Wall Thickness (T) (mm)			Insertion Length (L)
		PN 9	PN 12	PN 15	
100	114.1 - 114.5	4.5 - 5.2	6.0 - 6.9	7.3 - 8.4	88
155	168.0 - 168.5	6.6 - 7.6	8.8 - 10.2	10.8 - 12.5	107
200	218.8 - 219.4	7.8 - 9.0	10.3 - 11.9	12.6 - 14.5	138
250	272.6 - 273.4	9.7 - 11.2	12.8 - 14.8	-	168
300	323.4 - 324.3	11.5 - 13.3	15.2 - 17.5	-	203

Installation of uPVC Pipe Below Ground

TRENCHING AND BEDDING

uPVC pipe may be laid with the same as pipe of other materia, detail of trenching and embedment will vary depending on the soil condition, authorities body or type of project. The trench should be as narrow as practical, but should be still sufficient to allow the proper placing and compaction of bedding material to fill at the side of the pipes. Recommended minimum trench width by standard is 200mm wider than outside diameter of pipes as showed in <table 12>.

Trench depth should be enough to allow for the bedding/underlay, pipes diameter and the minimum recommended pipes cover as showed in <table 13>. Particular attention should be given when the pipe passed under roadway or other load bearing structure.

PIPE EMBEDMENT MATERIAL

The material of embedment should be free from sharp edges to avoid scratch of pipe, sand or granular material are strongly recommended.

The embedment divided by three zone (as showed in following typical cross-section figure):

Bedding or Underlay – The material directly under the pipe usually recommended 75mm to 150mm the thickness layer.

Side Support – The material directly beside the pipe and top of bedding with minimum 100mm width are recommended.

Pipe Overlay – The material directly the top of the pipes the minimum 150mm.

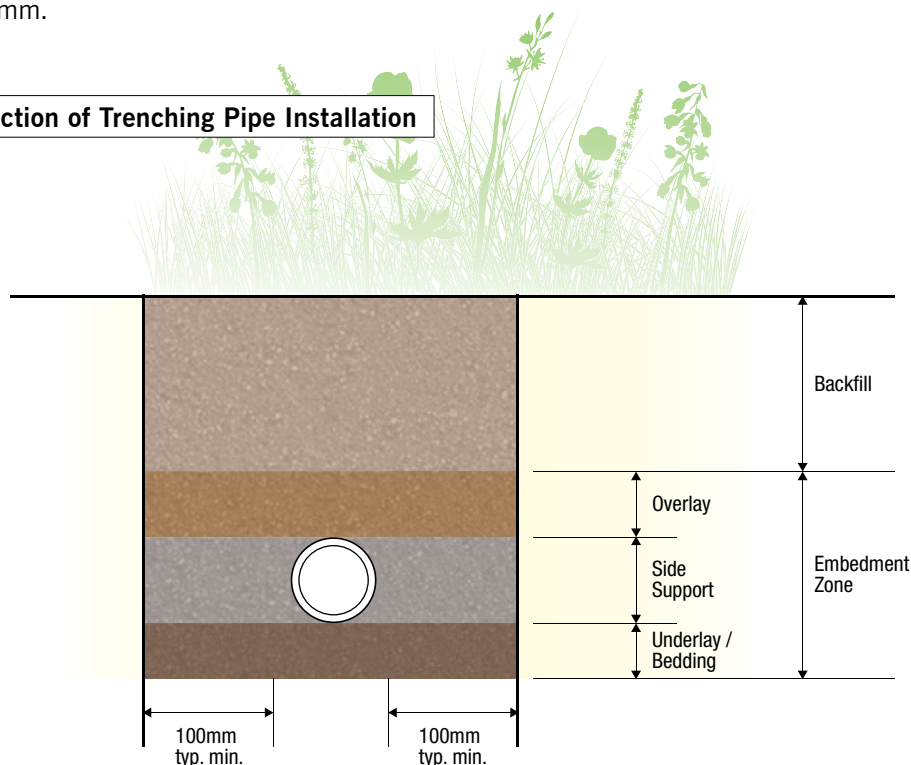
RECOMMENDED TRENCH WIDTH		
Nominal Pipe (mm)	Trench Width (mm)	
	minimum	maximum
80 - 100	300	700
150 - 200	450	800
225 - 400	600	900

<table 12>

RECOMMENDED COVER DEPTH	
Loading	Cover (mm)
No vehicle loading	300
Vehicle loading:	
Not a roadway	450
Sealed roadway	600
Under undersealed roadway	750
Construction equipment loading	750
Embarkment conditions	750

<table 13>

Typical Cross-Section of Trenching Pipe Installation



Installation

HANDLING AND STORAGE

The installation guideline according to standard of MS: 628:Part 3.

uPVC pipes are strong lightweight than metal pipe, the result easily to handling. More care should be taken to avoid unnecessary damage to the pipes or for the safety of the workers and during transporting, handling and storage.

Do not dropped or thrown onto hard surfaces which are free from surface irregularities such as stones, branches or other sharp projections during storage.

Please be sure to keep them away from petroleum product, solvent, greases and avoids to direct sunlight or high temperature.

STACKING

Acceptable stacking height and distance between stack is usually depend on site condition. Adequate space should be allowed for transport equipment manoeuvre without causing damage.

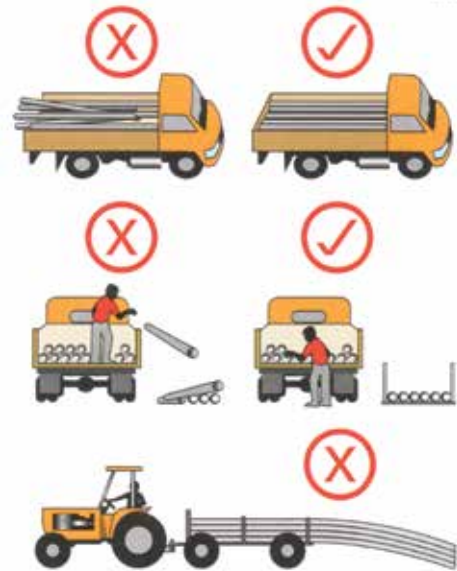
Stacking Bundles – Timber crate containing pipes may be in stack up to 2m in height and should be stacked timber to timber.

Stacking Individual Pipes – Stack should not exceed 7 layers in height with maximum 1.5m and not more than 3m width of the bottom layer. When using pyramid stacking the maximum height should not be more than 1m.

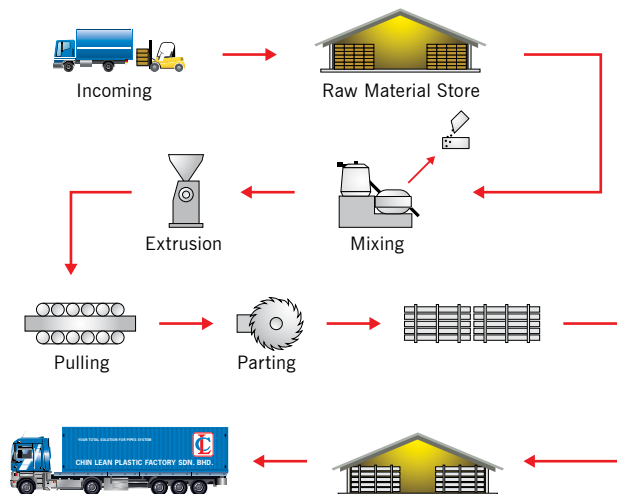
LAYING

Before laying, the pipes should be checked to ensure that:

- The pipe free from cut or scratches (if the surface layer with cut depth more than 1mm should not be used in pressure applications)
- The inside of pipe is free from foreign matter
- The diameter and pressure rating (class) match with the requirement



MANUFACTURING PROCESS FLOW



MATERIAL PROPERTIES		
Property	Value	Unit
Specific gravity	1400	kg/m ³
Specific heat	1000	J/kg/°C
Thermal conductivity	1.6	W/m/°C
Coefficient of linear expansion	6 x 10 ⁻⁵	mm/mm/°C
Vicat softening point	79	°C
Modulus of elasticity in bend	3000	N/mm ²
Tensile strength at yield @ 20°	45	N/mm ²
Elongation at break	80	%

QUALITY CONTROL PROCEDURE

These quality control procedures normally include:

- Raw materials, PVC compound, processing parameters in terms of temperature, pressure and energy input.
- Visual inspection and dimension of diameter, wall thickness and length.
- Production tests carried out one sample every 8 hours:
 - 1) Impact Tests – to check the general toughness of the pipe and its ability to withstand the normal shocks which may be expected during handling, transportation and installation during normal use.
 - 2) Longitudinal Reversion Tests – designed to show up any excessive built-in (residual) stresses in the pipes and fittings.

3) Tensile strength – to determine the strength over elongation characteristics of pipe material when applied tension force to the sample piece.

ADVANTAGES

Corrosion Resistance – Sanitary drains generate significant volumes of Hydrogen Sulphide gas from bacterial action, which results in the generation of dilute Sulphuric and sulphurous acids especially in turbulent areas. PVC-u has excellent resistance to Sulphuric Acid.

Weather Resistance – SWV pipes and fittings provided long term UV protection when installed above ground because there have additive Titanium Dioxide inside the PVC compounded

Handling / Installation – The ease of handling, installation and transport provide overall project savings.

Flexibility – There is flexibility to cope with water & soil movements, subsidence and expansive clays.

Superior flow characteristics - It's very smooth bore and chemical resistance characteristics ensure no scale or built up corrosion, thus producing a high flow capacity.

Easily Machined / Cut – It may be cut and machined with simple tools, ready for jointing, anywhere on the pipe barrel.

Chemical Resistance – PVC-u pipe has excellent resistance to a wide range of chemicals at ambient temperatures. PVC should not be used with aldehydes, ethers, esters, aromatics, chlorinated hydrocarbons, ketones, benzene mixtures or similar solvents.



Product Description

CHINLEAN SWV pipe is a smooth external and internal surface with solid wall PVC-u pipe to give an extra rigid durable pipe system, manufactured and tested in accordance to **MS 1063: 2000** (Equivalence to **BS EN 1329-1**)

This is an excellence piping system intended to be used for soil and waste discharge pipework to conveyance the domestic waste water at low and high temperature, ventilating and rainwater pipework within the building structure.

CHINLEAN SWV pipe specified by:

- Diameter
- Application area code

Nominal Size (Pipes Diameter)

This is specified by their nominal diameter or size in millimeter, the size range covers from DN 36 mm to DN 315mm (see Dimension section)

Application Area Code

All SWV pipes and fittings marked with code “B”, “BD” and “D” to indicate the application area for which they are intended as follow:

“**B**” Intended to use above ground inside the building, or for components outside the building fixed into the wall.

“**BD**” Intended for above ground use for both inside the building, or for components outside the building fixed into the wall and buried in building structures.

“**D**” For the area under and within 1m from the building where the pipes and fittings are buried in ground and are connected to the underground drainage and sewerage system.

Note: “D” application area is recommended to use of Underground Sewerage Pipe (MS 979.1 & MS 979.2 / BS 4660 & BS 5841) as alternative

Service Temperature

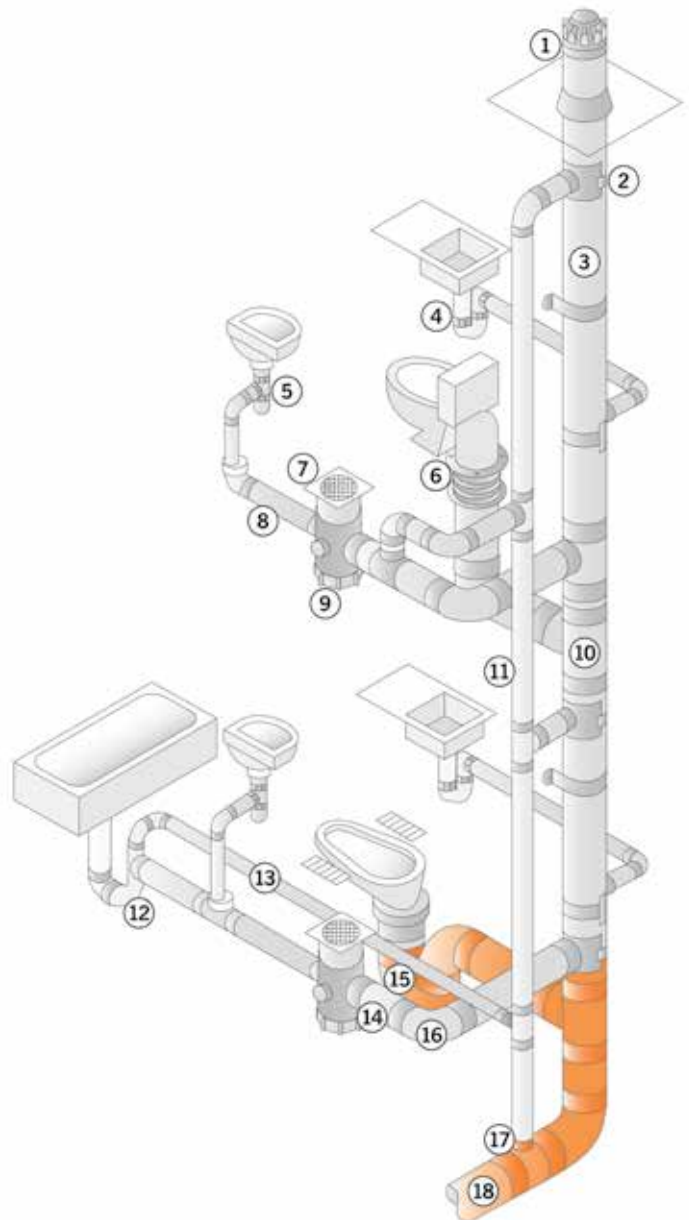
May be used to carry liquids when subjected to a continuous flow with maximum temperature of 76°C. Intermittent discharges of up to 100°C may occur, provided that duration of less than 90 seconds is observed.

Colour

The colour of pipes and fittings is classified by application area as follow:

- “B” code : White
- “BD” code: White
- “D” code : Brown

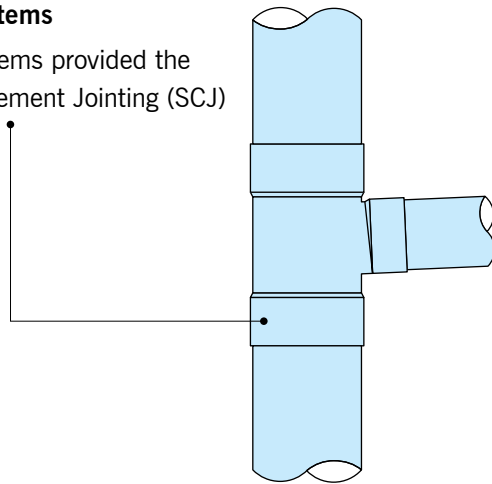
Part	Name
1	Vent Cowl
2	Boss Connector
3	Discharge Stack Pipe
4	Tubular Trap
5	Bottle Trap
6	Pipe Sleeve
7	Grating
8	Branch Discharge Pipe
9	Floor Gully Trap
10	Equal Single Branch
11	Ventilating Stack Branch
12	‘P’ Trap
13	Branch Ventilating Pipe
14	Branch Discharge Pipe
15	‘P’ Trap (‘U’ Body)
16	Swept Bend
17	Reducing Branch
18	Drain Pipe



Product Description

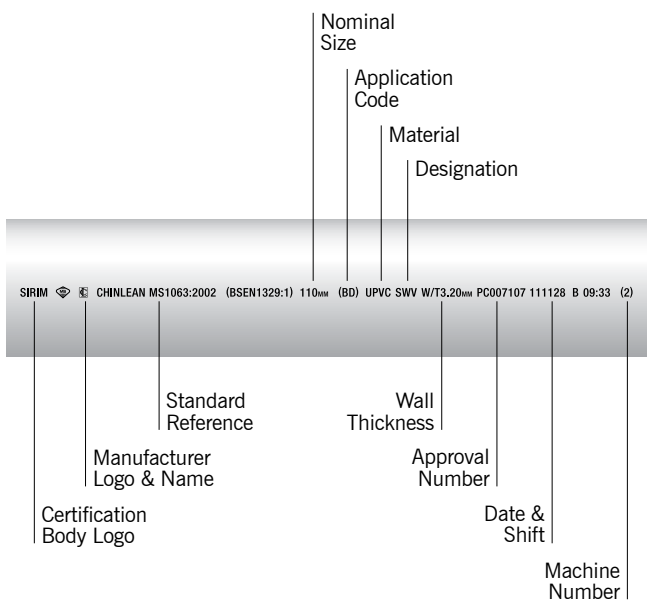
Joint Systems

SWV systems provided the Solvent Cement Jointing (SCJ)



Marking

All SWV pipes are marked by printer, the following details at approximately meter intervals. The SWV fittings has clearly and durably marked by moulded impression for each cavity of products.



RELATED STANDARD REFERENCES

- **MS 1063: 2000** – Plastics piping system for soil, ventilating and waste discharge (low and high temperature) within the building structure - PVC-u pipes and fittings
- **MS 1402-1: 2006** Code of practice for sanitary system in buildings - Design
- **BS EN 1329-1** (Revision of BS 4514 and BS 5255) – Plastics piping system for soil, ventilating and waste discharge (low and high temperature) within the building structure – PVC-u pipes and fittings
- **BS EN 12056-2: 2000** Gravity drainage system inside building – Sanitary pipework, layout and calculation

QUALITY ASSURANCE

CHINLEAN Plastic is established the Quality Management System has been complies to ISO 9001:2000 assessed by SIRIM QAS International Sdn. Bhd. to ensure quality system and quality product fulfill to the requirements. Certificate No.: **AR 2643**

CERTIFICATION

CHINLEAN SWV pipe is certified by SIRIM QAS International Sdn. Bhd. certification body of Malaysian since 1992 with certificate No.: **PC007107 (Pipes)** and **PC007109 (Fittings)**



As part of our continuous improvement, Chin Lean reserve the right to change specification without notice.



Product Range

* Other Source # 'D' application area is recommended to use of Underground Sewerage Pipes (MS979.1 & MS979.2 / BS4660 & BS5841) as alternative.

Product Description	No. of Size	Size (mm)
Pipes		
PVC-u SWV Pipe - Application Code 'B'	9	36, 43, 56, 82, 110, 160, 200, 250, 315
PVC-u SWV Pipe - Application Code 'BD' & 'D' #	6	82, 110, 160, 200, 250, 315
Fittings		
88° Swept Bend	6	36, 43, 56, 82, 110, 160
88° Swept Bend with Inspection Opening I/O	4	56, 82, 110, 160
45° Bend	9	36, 43, 56, 82, 110, 160, 200*, 250*, 315*
45° Bend with Inspection Opening I/O	4	56, 82, 110, 160
90° Bend	5	82, 110, 200*, 250*, 315*
90° WC Connecting Bend M/F	1	110
90° WC Connecting Bend M/F with Inspection Opening I/O	1	110
Equal Single Branch (88°)	9	36, 43, 56, 82, 110, 160, 200*, 250*, 315*
Equal Single Branch (88°) with Inspection Opening I/O	5	43, 56, 82, 110, 160
Reducing Branch (88°)	8	110x56, 110x82, 160x110, 200x110*, 200x160*, 250x160*, 250x200*, 315x160*
Reducing Branch (88°) with Inspection Opening I/O	3	110x56, 110x82, 160x110
2-Way Junction (88°)	3	56, 110, 200*
Reducing 2-Way Junction (88°)	1	160x110
45° 'Y' Branch	3	56, 82, 110
45° 'Y' Branch with Inspection Opening I/O	3	56, 82, 110
45° Reducing 'Y' Branch	1	160x110
45° Reducing Double 'Y' Branch	1	160x110
Straight Coupling	9	36, 43, 56, 82, 110, 160, 200*, 250*, 315*
Bush Socket Reducer M/F	7	43x36, 56x36, 56x43, 82x56, 110x56, 110x82, 160x110
Level Invert Reducer F/F	7	56x36, 82x56, 110x56, 11x82, 160x110, 200x110*, 200x160*
Concentric Reducer F/F	7	56x36, 82x56, 110x56*, 110x82, 160x110, 200x160*, 315x200*
Pipe Sleeve	4	56, 82, 110, 160
Boss Connector	5	82x56, 110x56, 110x82, 160x82, 160x110
Vent Cowl	4	56, 82, 110, 160
Floor Gully Trap	2	110x56, 110x82
'P' Trap	3	56, 82, 110
'P' Trap with vent	2	56x36, 110x56
'S' Trap	1	110
'U' Body (M/F)	1	110
'U' body with Inspection Opening I/O (M/F)	1	110
'U' Body with Vent (M/F)	1	110x56
'P' Trap ('U' Body)	1	110
'P' Trap with Inspection Opening I/O ('U' Body)	1	110
'S' Trap ('U' Body) (M/F)	1	110
'S' Trap with Inspection Opening I/O ('U' Body) (M/F)	1	110
'S' Trap with Vent ('U' Body) (M/F)	1	110x56

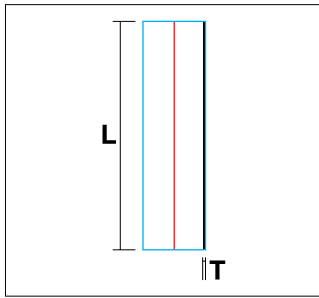
As part of our continuous improvement, Chin Lean reserve the right to change specification without notice.

Product Dimension

* Other source # This application area code is recommended to use of Underground Sewerage Pipe as (MS979.1/MS979.2) as alternative



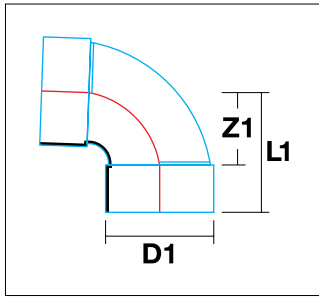
SWW Pipes



Nominal Size (DN) (mm)	Outside Diameter (D)	Wall Thickness (T) / Application area		Length (L) (m)
		'B'	'BD' & 'D'*	
36	36.2 - 36.5	3.0	-	4 / 6
43	42.8 - 43.1	3.0	-	4 / 6
56	55.8 - 56.1	3.0	-	4 / 6
82	82.4 - 82.8	3.0	3.0	4 / 6
110	110.0 - 110.3	3.2	3.2	4 / 6
160	160.0 - 160.4	3.2	4.0	4 / 6
200	200.0 - 200.5	3.9	4.9	6
250	250.0 - 250.5	4.9	6.2	6
315	315.0 - 315.6	6.2	7.7	6



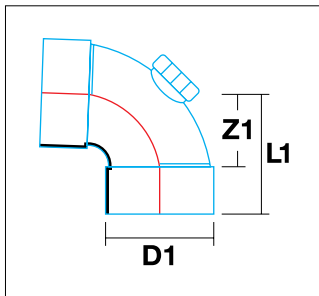
88° Swept Bend



Nominal Size (DN) (mm)	Dimension (mm)			Code
	D1	L1	Z1	
36	36.3	52	33	F32UB
43	42.9	57	35	F40UB
56	55.9	65	37	F50UB
82	82.6	125	82	F82UB
110	110.2	124	75	F110UB
160	160.2	178	120	F160UB



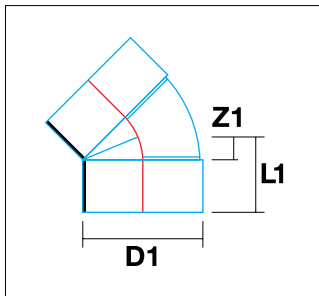
88° Swept Bend with Inspection Opening (I/O)



Nominal Size (DN) (mm)	Dimension (mm)			Code
	D1	L1	Z1	
56	55.9	65	37	F50UBD
82	82.6	125	82	F82UBD
110	110.2	124	75	F110UBD
160	160.2	178	120	F160UBD



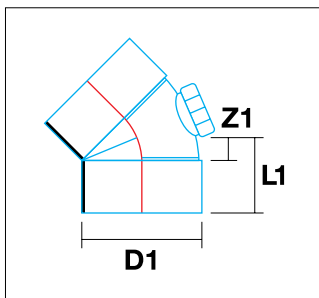
45° Bend



Nominal Size (DN) (mm)	Dimension (mm)			Code
	D1	L1	Z1	
36	36.3	28	9	F3245UB
43	42.9	32	10	F4045UB
56	55.9	41	13	F5045UB
82	82.6	62	19	F8245UB
110	110.2	72	24	F11045UB
160	160.2	93	35	F16045UB
200	200.3			F20045UB
250*	250.3			F25045UB
315*	315.3			F31545UB



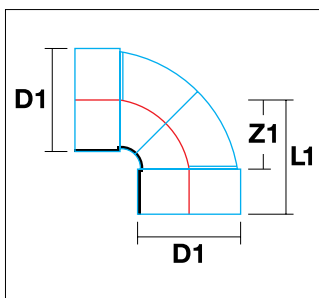
45° Bend with Inspection Opening (I/O)



Nominal Size (DN) (mm)	Dimension (mm)			Code
	D1	L1	Z1	
56	55.9	41	13	F5045UBD
82	82.6	62	19	F8245UBD
110	110.2	72	24	F11045UBD
160	160.2	93	35	F16045UBD



90° Bend



Nominal Size (DN) (mm)	Dimension (mm)			Code
	D1	L1	Z1	
82	82.6	102	52	F8290UB
110	110.2	122	73	F11090UB
200*	200.3			F200UB
250*	250.3			F250UB
315*	315.3			F315UB

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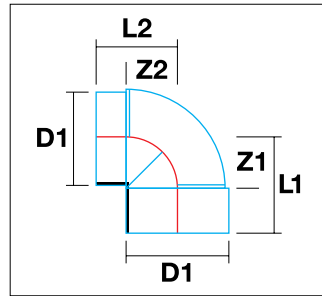


Product Dimension

* Other source



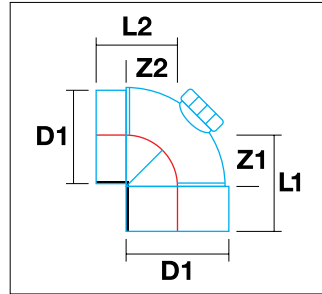
90° WC Connecting Bend M/F



Nominal Size (DN) (mm)	Dimension (mm)					Code
	D1	L1	L2	Z1	Z2	
110	110.2	104	85	56	59	F110WCCB



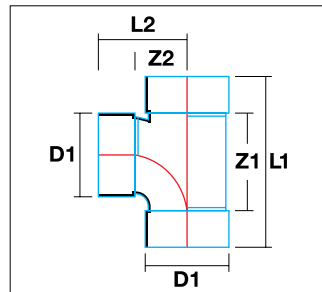
90° WC Connecting Bend M/F with Inspection Opening (I/O)



Nominal Size (DN) (mm)	Dimension (mm)					Code
	D1	L1	L2	Z1	Z2	
110	110.2	104	85	56	59	F110WCCBH



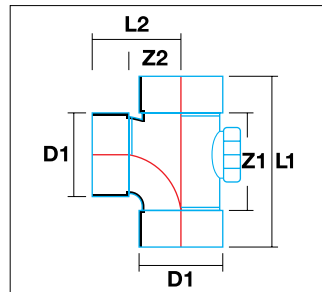
Equal Single Branch (88°)



Nominal Size (DN) (mm)	Dimension (mm)					Code
	D1	L1	L2	Z1	Z2	
36	36.3	81	50	43	30	F32UT
43	42.9	97	56	53	34	F40UT
56	55.9	126	73	70	45	F50UT
82	82.6	192	117	106	74	F82UT
110	110.2	236	137	140	89	F110UT
160	160.2	321	178	205	120	F160UT
200*	200.3					F200UT
250*	250.3					F250UT
315*	315.3					F315UT



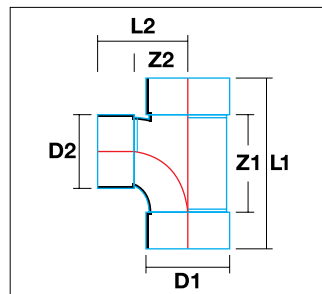
Equal Single Branch (88°) with Inspection Opening (I/O)



Nominal Size (DN) (mm)	Dimension (mm)					Code
	D1	L1	L2	Z1	Z2	
43	42.9	97	56	53	34	F40UTD
56	55.9	126	73	70	45	F50UTD
82	82.6	192	117	106	74	F82UTD
110	110.2	236	137	140	89	F110UTD
160	160.2	321	178	205	120	F160UTD



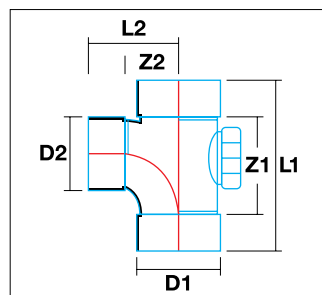
Reducing Branch (88°)



Nominal Size (DN) (mm)	Dimension (mm)					Code	
	D1	D2	L1	L2	Z1		Z2
110x56	110.2	55.9	200	94	102	65	F11050UT
110x82	110.2	82.6	200	114	102	70	F11082UT
160x110	160.2	110.2	276	176	160	118	F160110UT
200x110*	200.3	110.2					F200110UT
200x160*	200.3	160.2					F200160UT
250x160*	250.3	160.2					F250160UT
250x200*	250.3	200.3					F250200UT
315x160*	315.3	160.2					F315160UT



Reducing Branch (88°) with Inspection Opening (I/O)



Nominal Size (DN) (mm)	Dimension (mm)					Code	
	D1	D2	L1	L2	Z1		Z2
110x56	110.2	55.9	200	94	102	65	F11050UTD
110x82	110.2	82.6	200	114	102	70	F11082UTD
160x110	160.2	110.2	276	176	160	118	F160110UTD

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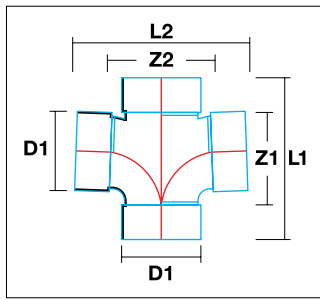


Product Dimension

* Other source



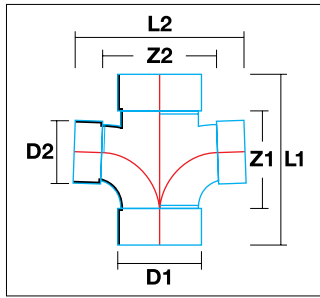
2-Way Junction (88°)



Nominal Size (DN) (mm)	Dimension (mm)					Code
	D1	L1	L2	Z1	Z2	
56	55.9	126.0	146	70	90	F502WJ
110	110.2	236.0	274	140	178	F110UCT
200*	200.3					F200UCT



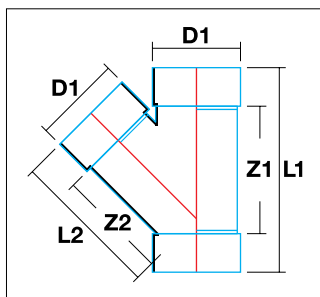
Reducing 2-Way Junction (88°)



Nominal Size (DN) (mm)	Dimension (mm)						Code
	D1	D2	L1	L2	Z1	Z2	
160x110	160.2	110.2	276	332	160	236	F1601102WY



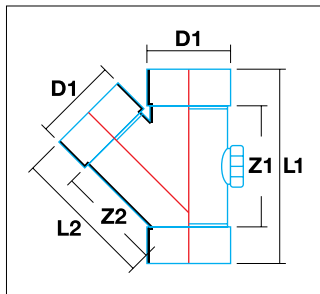
45° 'Y' Branch



Nominal Size (DN) (mm)	Dimension (mm)					Code
	D1	L1	L2	Z1	Z2	
56	55.9	136	98	80	70	F5045YT
82	82.6	202	146	116	103	F8245YT
110	110.2	256	188	160	140	F110UYT



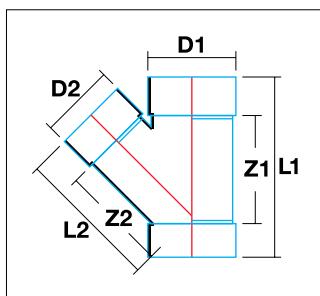
45° 'Y' Branch with Inspection Opening (I/O)



Nominal Size (DN) (mm)	Dimension (mm)					Code
	D1	L1	L2	Z1	Z2	
56	55.9	136	98	80	70	F50UYTD
82	82.6	202	146	116	103	F82UYTD
110	110.2	256	188	160	140	F110UYTD



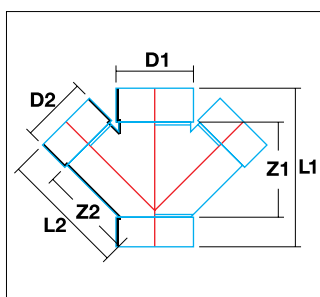
45° Reducing 'Y' Branch



Nominal Size (DN) (mm)	Dimension (mm)						Code
	D1	D2	L1	L2	Z1	Z2	
160x110	160.2	110.2	276	233	160	175	F160110YT



45° Reducing Double 'Y' Branch



Nominal Size (DN) (mm)	Dimension (mm)						Code
	D1	D2	L1	L2	Z1	Z2	
160x110	160.2	110.2	276	233	160	175	F160110DYT

As part of our continuous improvement, Chin Lean reserve the right to change specification without notice.

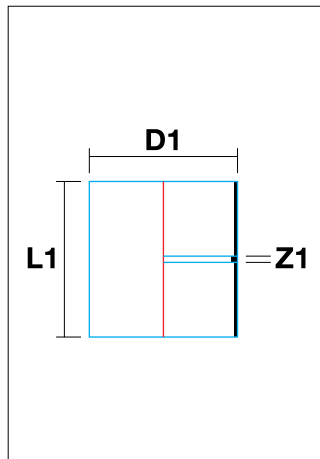


Product Dimension

* Other source



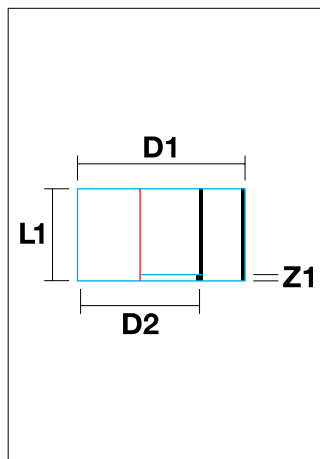
Straight Coupling



Nominal Size (DN) (mm)	Dimension (mm)			Code
	D1	L1	Z1	
36	36.3	40	2	F32US
43	42.9	47	3	F40US
56	55.9	59	3	F50US
82	82.6	90	4	F82US
110	110.2	100	4	F110US
160	160.2	120	4	F160US
200*	200.3			F200US
250*	250.3			F250US
315*	315.3			F300US



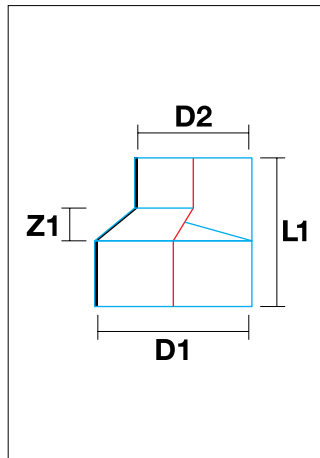
Bush Socket Reducer M/F



Nominal Size (DN) (mm)	Dimension (mm)				Code
	D1	D2	L1	Z1	
43x36	42.9	36.3	21	2	F4032UB
56x36	55.9	36.3	27	8	F5032UB
56x43	55.9	42.9	27	5	F5040UB
82x56	82.6	55.9	42	14	F8250UB
110x56	110.2	55.9	47	19	F11050UB
110x82	110.2	82.6	47	4	F11082UB
160x110	160.2	110.2	58	10	F160110UB



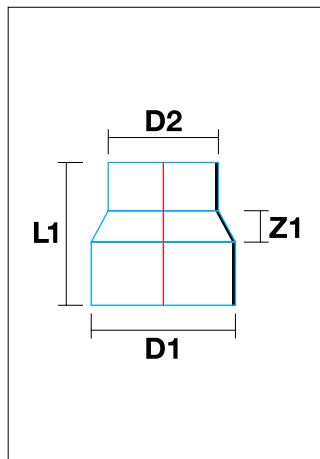
Level Invert Reducer F/F



Nominal Size (DN) (mm)	Dimension (mm)				Code
	D1	D2	L1	Z1	
56x36	55.9	36.3	62	15	F5032CIR
82x56	82.6	55.9	97	26	F8250CIR
110x56	110.2	55.9	110	34	F11050CIR
110x82	110.2	82.6	120	29	F11082CIR
160x110	160.2	110.2	137	31	F160110CIR
200x110*	200.3	110.2			F200110CIR
200x160*	200.3	160.2			F200160CIR



Concentric Reducer F/F



Nominal Size (DN) (mm)	Dimension (mm)				Code
	D1	D2	L1	Z1	
56x36	55.9	36.3	62	15	F5032US
82x56	82.6	55.9	92	21	F8250US
110x56*	110.2	55.9			F11056US
110x82	110.2	82.6	112	21	F11082US
160x110	160.2	110.2	126	20	F160110US
200x160*	200.3	160.2			F200160US
315x200*	315.3	200.3			F315200US

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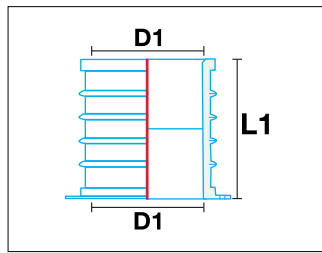


Product Dimension

* Other source # This application area code is recommended to use of Underground Sewerage Pipe as (MS979.1/MS979.2) as alternative



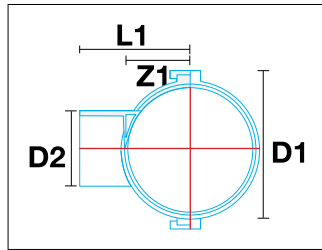
Pipe Sleeve



Nominal Size (DN) (mm)	Dimension (mm)		Code
	D1	L1	
56	55.9	109	F50PS
82	82.6	110	F82PS
110	110.2	110	F110PS
160	160.2	166	F160PS



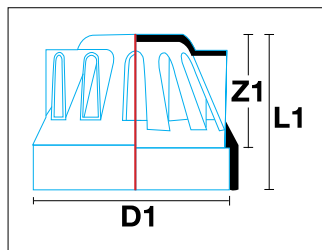
Boss Connector



Nominal Size (DN) (mm)	Dimension (mm)				Code
	D1	D2	L1	Z1	
82x56	82.6	55.9	72	43	F8250UBC
110x56	110.2	55.9	80	55	F11050UBC
110x82	110.2	82.6	94	55	F11082UBC
160x82	160.2	82.6	126	82	F16082UBC
160x110	160.2	110.2	138	82	F160110UBC



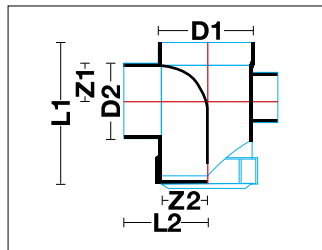
Vent Cowl



Nominal Size (DN) (mm)	Dimension (mm)			Code
	D1	L1	Z1	
56	55.9	70	45	F50UVC
82	82.6	70	45	F82UVC
110	110.2	90	65	F110UVC
160	160.2	135	85	F160UVC



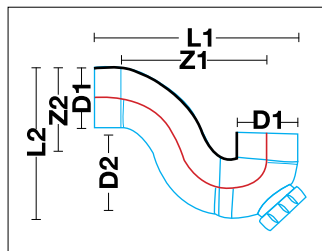
Floor Gully Trap



Nominal Size (DN) (mm)	Dimension (mm)						Code
	D1	D2	L1	L2	Z1	Z2	
110x56	110.2	55.9	176	86	44	55	F11050UFGT
110x82	110.2	82.6	176	98	45	55	F11082UFGT



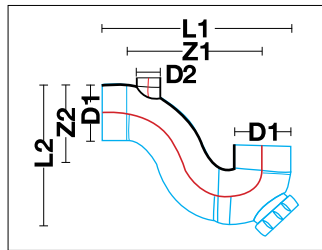
'P' Trap



Nominal Size (DN) (mm)	Dimension (mm)					Code
	D1	L1	L2	Z1	Z2	
56	55.9	233	183	174	84	F50PTR
82	82.6	427	205	332	115	F82UPTR
110	110.2	383	284	272	115	F110UPTR



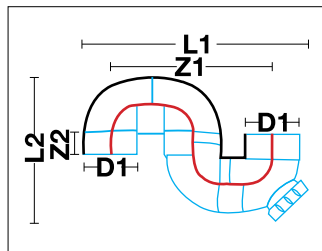
'P' Trap with vent



Nominal Size (DN) (mm)	Dimension (mm)						Code
	D1	D2	L1	L2	Z1	Z2	
56x36	55.9	36.3	233	196	174	84	F5032PTRV
110x56	110.2	55.9	383	303	272	115	F11050PTRV



'S' Trap



Nominal Size (DN) (mm)	Dimension (mm)					Code
	D1	L1	L2	Z1	Z2	
110	110.2	450	275	333	53	F110ST

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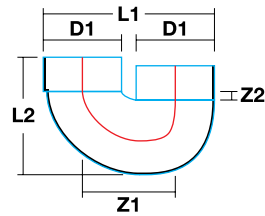


Product Dimension

* Other source



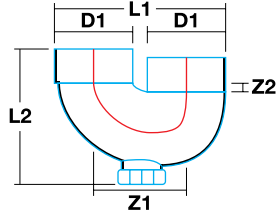
'U' Body (M/F)



Nominal Size (DN) (mm)	Dimension (mm)					Code
	D1	L1	L2	Z1	Z2	
110	110.2	250	163	137	15	F110UTB



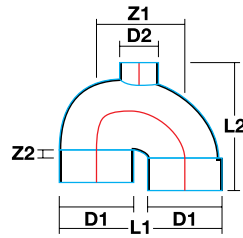
'U' Body with Inspection Opening (I/O) (M/F)



Nominal Size (DN) (mm)	Dimension (mm)					Code
	D1	L1	L2	Z1	Z2	
110	110.2	250	200	137	15	F110UTBD



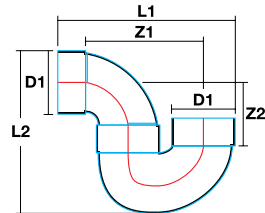
'U' Body with Vent (M/F)



Nominal Size (DN) (mm)	Dimension (mm)						Code
	D1	D2	L1	L2	Z1	Z2	
110x56	110.2	55.9	250	194	137	15	F11050UTBV



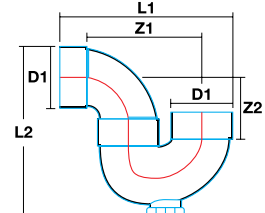
'P' Trap ('U' Body)



Nominal Size (DN) (mm)	Dimension (mm)					Code
	D1	L1	L2	Z1	Z2	
110	110.2	318	280	211	107	F110UPTB



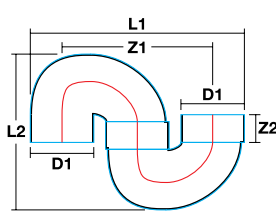
'P' Trap with Inspection Opening (I/O) ('U' Body)



Nominal Size (DN) (mm)	Dimension (mm)					Code
	D1	L1	L2	Z1	Z2	
110	110.2	318	314	211	107	F110UPTBD



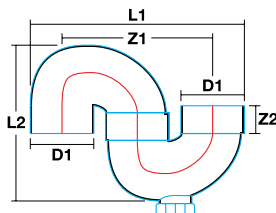
'S' Trap ('U' Body) M/F



Nominal Size (DN) (mm)	Dimension (mm)					Code
	D1	L1	L2	Z1	Z2	
110	110.2	392	262	274	50	F110USTB



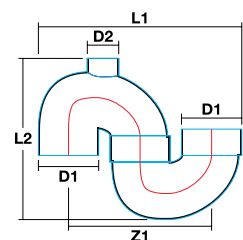
'S' Trap with Inspection Opening (I/O) ('U' Body) M/F



Nominal Size (DN) (mm)	Dimension (mm)					Code
	D1	L1	L2	Z1	Z2	
110	110.2	392	302	274	50	F110USTBD



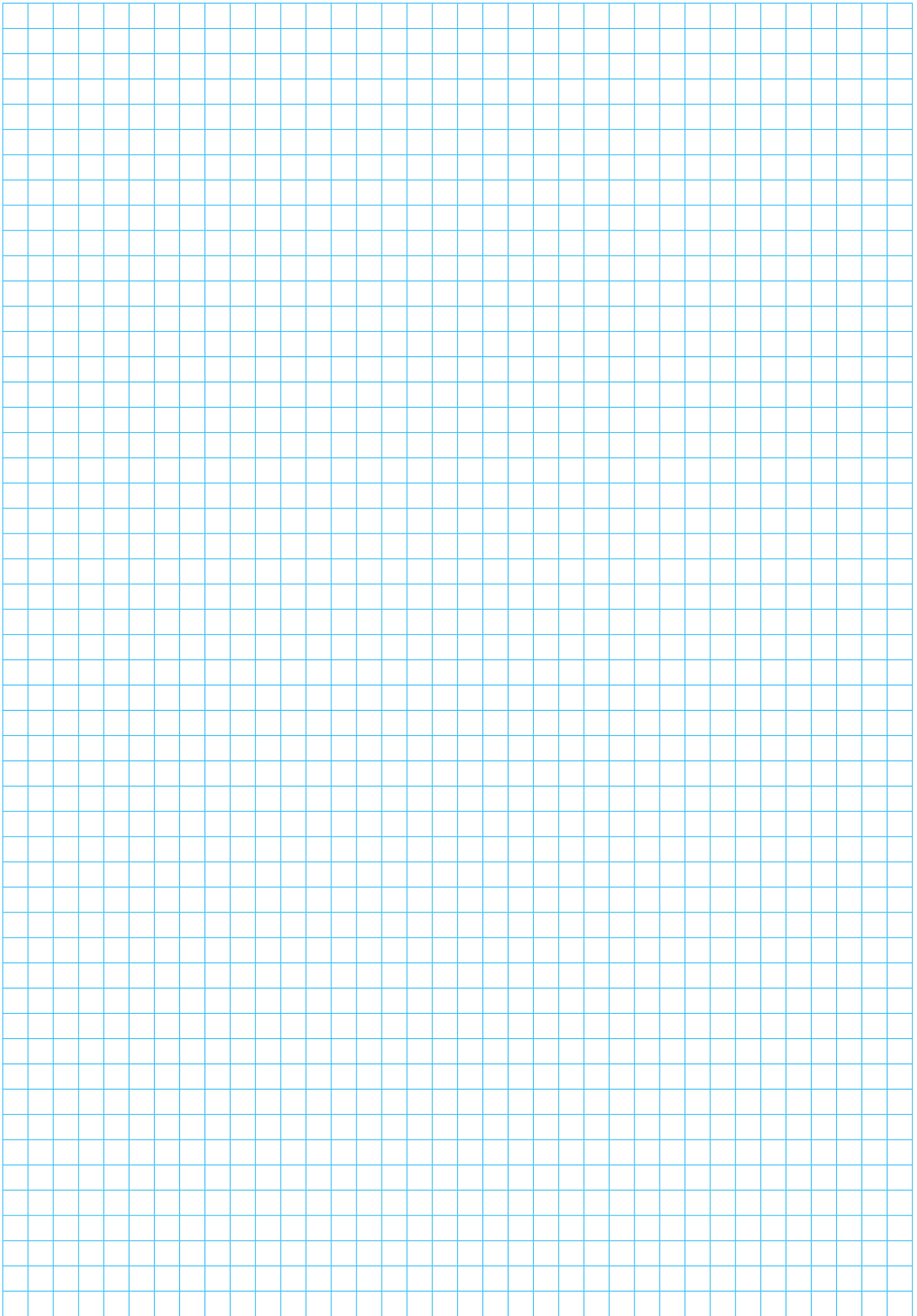
'S' Trap Vent ('U' Body) M/F



Nominal Size (DN) (mm)	Dimension (mm)						Code
	D1	D2	L1	L2	Z1	Z2	
110x56	110.2	55.9	392	296	274	50	F110STBV

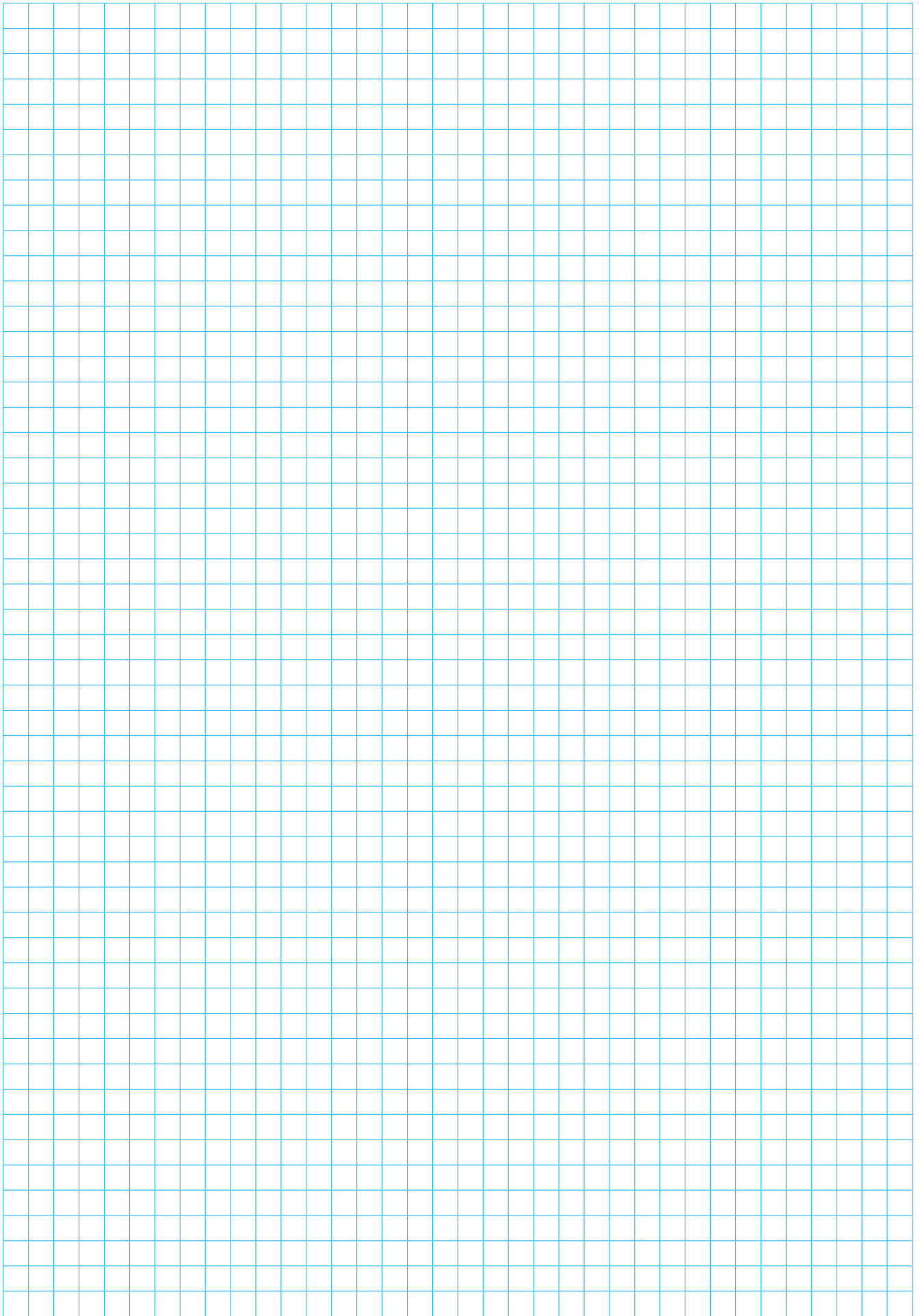
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Other Products



PVC-U PRESSURE PIPE

SIRIM certified:

- MS 628-1 (BS-3505)
- MS 628-2-2.2 (BS 4346-2)
- Bell Mouth
- (BS 3506)

Application:

Piping system for water supply and industrial use



PVC-U TELECOMMUNICATION CABLES PIPE

SIRIM certified:

- MS 1034

Application:

Conduit for underground telecommunication cables



PVC-U PRESSURE FITTINGS

Complied to:

- MS 628-2-2.2 (BS 4346-1)

Application:

Fitting for water supply



POLYETHYLENE (PE) WATER TANK

SIRIM certified:

- MS 1225-1 & 2

Application:

Cold water storage



PVC-U SOIL WASTE VENTILATING (SWV) PIPES

SIRIM certified:

- MS 1063 (BS EN1329.1 - Revision of BS 4514 & BS 5255)

Application:

Piping system soil, waste and ventilating discharge within building structure



POLYETHYLENE (PE) SEPTIC TANK

Complied to:

- CSA B66

Application:

Individual sewage treatment plant



PVC-U SOIL WASTE VENTILATING (SWV) FITTINGS

SIRIM certified:

- MS 1063 (BS EN1329.1 - Revision of BS 4514 & BS 5255)

Application:

Fittings for soil, waste and ventilating discharge within building structure



CL POLYETHYLENE (PE) ROAD BARRIER, HOARDING & ROAD CONE



PVC-U SEWERAGE PIPE

SIRIM certified:

- MS 979-1 (BS 4660) & MS 979-2 (BS 5481)

Application:

Underground sewerage pipes



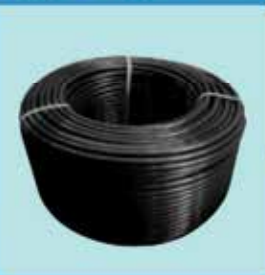
PVC GARDEN HOSE

Complied

- BS 3746

Application:

Reinforcing hose and flexible hose



HIGH-DENSITY POLYETHYLENE (HDPE) PRESSURE PIPE

SIRIM certified:

- MS 1058-2

Application:

HDPE piping system for water supply



PVC / TPE INSERT TUBE (GASKET) GLAZING

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