



  
**WEIDA**  
[www.weida.com.my](http://www.weida.com.my)

PRODUCT CATALOGUE



# Quality Products From Premium Materials



Our products are made from superior premium quality under proper quality standard and control. All of our products are certified and/or approved by the following bodies:

- SPAN
- SIRIM
- IKRAM





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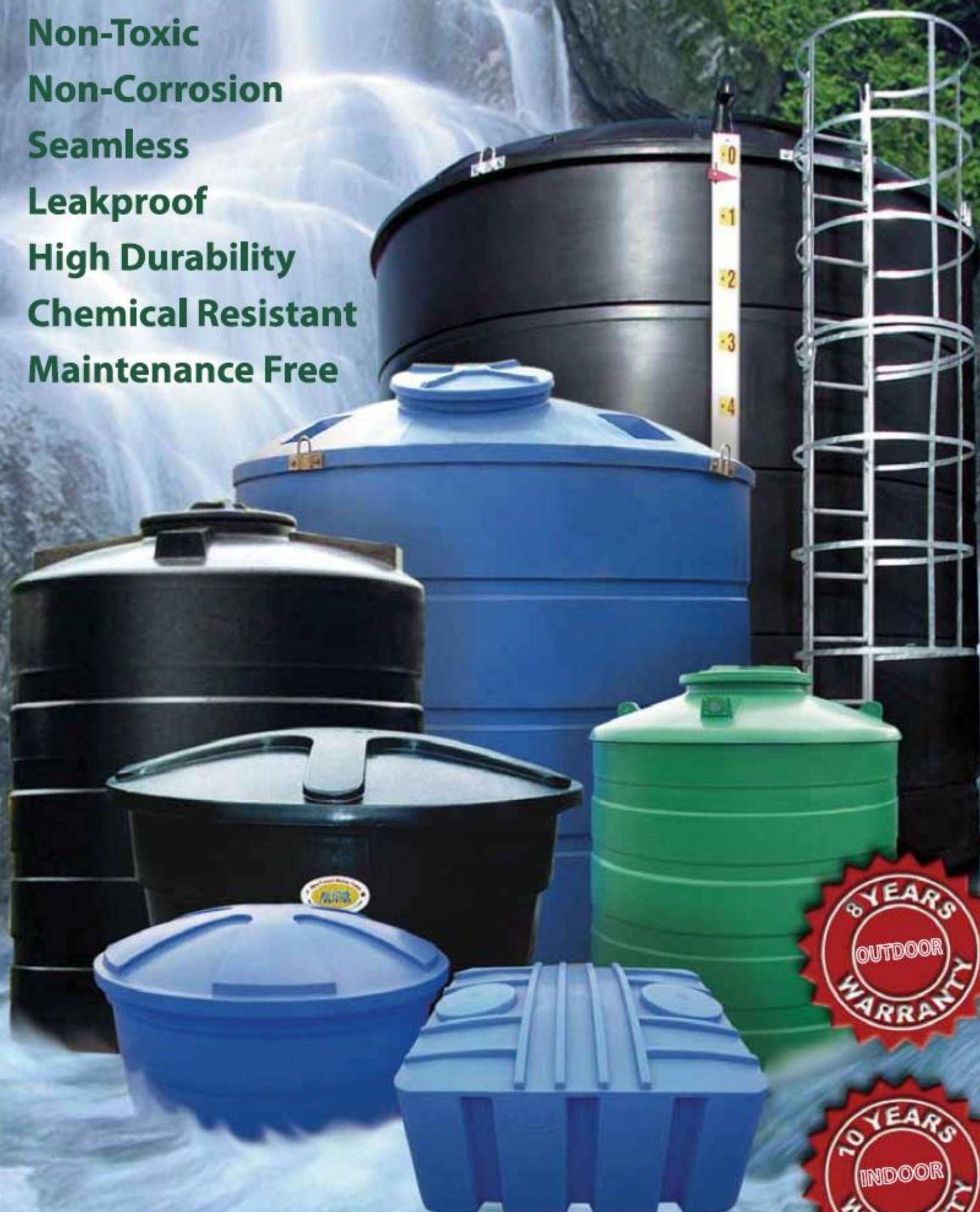






POLYETHYLENE TANK

**UV Resistant**  
**Non-Toxic**  
**Non-Corrosion**  
**Seamless**  
**Leakproof**  
**High Durability**  
**Chemical Resistant**  
**Maintenance Free**





## PRODUCT FEATURES AND ADVANTAGE



### STANDARDS

Designed to ASTM D1998-91. Full compliance with Malaysian Standard MS1225 Part 1 : 2007 and Part 2 : 2006.

SIRIM Product Certification License.



### STRONG, SEAMLESS AND LEAKPROOF

One-piece seamless construction guarantees leak proof tanks that are strong and rugged.



### LIGHTWEIGHT FOR EASY HANDLING

Lightweight and rugged properties facilitate easy and fast handling, transportation and installation.



### FOOD/POTABLE WATER COMPLIANT

Manufactured from virgin food grade Polyethylene resins from reputable manufacturers. Does not impart any toxicity, taste or odour. Confirmatory Lab Tests and Certificates for potable water.



### EXTENSIVE RANGE

Available from 315 litres (70 gallons) to 45,000 litres (10,000 gallons) in a wide range of shapes and configurations to suit specific requirement.



### MODULAR INSTALLATION SYSTEM

Simple connections of several modular tanks. Multiple tanks system can be installed to cater to large storage capacity requirements.



### COMPLETE RANGE OF ACCESSORIES

Can be supplied with accessories like inlet and outlet connections, valves, level indicators, fittings, ladder, access opening, pumping systems, stirrers and sensors.



### MAINTENANCE FREE

No painting or corrosion-protection coating required.



### CHEMICAL AND UV RESISTANT

Polyethylene is resistant to most chemicals making Polystor ideal as storage for a wide range of chemicals.

The UV resistance allows the tanks to last more than 20 years.



### QUALITY ASSURANCE

Consistent quality achieved through systematic product and material testing programme.

Quality Control (QC) ensures premium quality with standard warranty of 10 years.



### COMPREHENSIVE TECHNICAL SUPPORT

Technical services are provided to customers in the planning, designing and construction of the tank system.



### NATIONWIDE NETWORK

With factories and offices in Sarawak, Sabah and West Malaysia, we offer comprehensive, reliable and efficient customer services throughout the nation.

### CUSTOMIZE TANK SIZE / CAPACITY

Our company is capable and feasible to tailor made customize tank to suit project requirement in term of dimensional or capacity.

## APPLICATIONS

### ■ Small Tanks

Domestic Household  
Shophouses  
Schools  
Clinics  
Government/Teacher's Quarters  
Aquaculture  
Plantations  
Construction Sites

### ■ Medium Tanks

Commercial Complexes  
Factories

Apartments/Condominiums  
Resorts  
Parks/Gardens  
Farms  
Mosques/Temples/Churches

### ■ Large Tanks

Public Water Supply  
Schools  
Hotels/Resorts  
Factories/Processing Plants  
Commercial Buildings/Shophouses  
Government Buildings  
Office Complexes  
Apartments/Condominiums

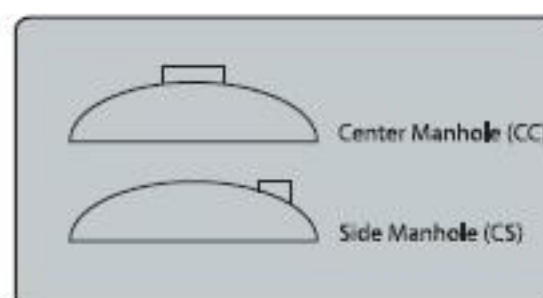
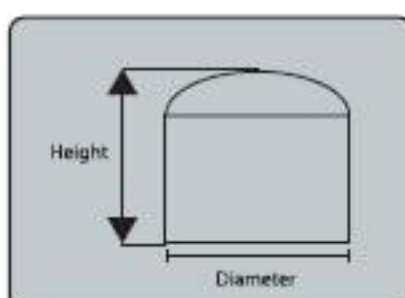


## Range of Products :

- Cylindrical Tank
- Rectangular Tank
- Square Tank
- Tapered Tank – Round & Square

### Cylindrical Tank

- Small-sized Tank
- Medium-sized Tank
- Large-sized Tank



SMALL SIZED TANKS						
MODEL	CAPACITY (EFFECTIVE)		DIMENSIONS			
	GALLONS	LITRES	DIAMETER		OVERALL HEIGHT	
			MM	INCHES	MM	INCHES
R10CC	200	1,000	1,220	48	1,290	51
R11CD	250	1,125	1,366	54	1,295	51
R12CC	260	1,200	1,220	48	1,490	59
R15CC	330	1,500	1,220	48	1,790	70
R18CC	400	1,800	1,300	51	1,760	69

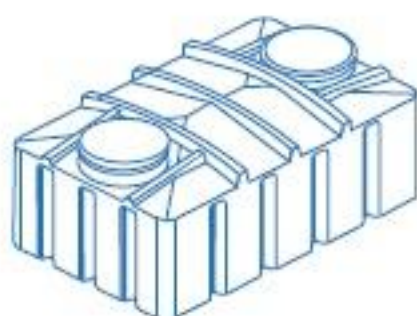
MEDIUM SIZED TANKS						
MODEL	CAPACITY (EFFECTIVE)		DIMENSIONS			
	GALLONS	LITRES	DIAMETER		OVERALL HEIGHT	
			MM	INCHES	MM	INCHES
R27CC	600	2,700	1,500	59	2,030	80
R40CS-(S)	890	4,000	2,390	94	1,034	41
R40CC	1,000	4,500	1,750	69	2,175	86
R55CS	1,200	5,500	2,010	79	2,155	85
R68CS	1,500	6,800	2,400	94	1,980	78
R68CS-(2)	1,500	6,800	1,600	63	3,917	154
R72CS	1,800	7,200	2,080	82	2,920	115
R90CS	2,000	9,000	2,580	102	2,400	95

LARGE SIZED TANKS						
MODEL	CAPACITY (EFFECTIVE)		DIMENSIONS			
	GALLONS	LITRES	DIAMETER		OVERALL HEIGHT	
			MM	INCHES	MM	INCHES
R135CS-(2)	3,000	13,500	3,060	120	2,650	104
R135CS-(3)	3,000	13,500	2,500	98	3,300	130
R150CS	3,300	15,000	2,400	94	3,900	150
R180CS	4,000	18,000	3,060	120	3,400	130
R230CS-(2)	5,000	23,000	3,060	120	3,900	150
R230CS-(3)	5,000	23,000	3,700	146	2,830	111
R270CS	6,000	27,000	3,060	120	4,600	180
R300CS	6,700	30,000	3,000	118	4,880	190
R320CS	7,000	32,000	3,200	126	4,680	180
R360CS	8,000	36,000	3,300	130	5,150	200
R450CS	10,000	45,000	3,300	130	6,400	250

Model : Series/Body Type/Opening Type  
 CC = Non Stackable, Manhole At Centre  
 CS = Non Stackable, Manhole At Side



## Rectangular & Square Tank



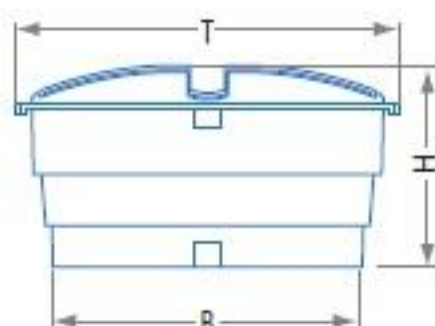
MODEL	CAPACITY (MAXIMUM)		DIMENSIONS					
	GALLONS	LITRES	LENGTH		WIDTH		OVERALL HEIGHT	
			MM	INCHES	MM	INCHES	MM	INCHES
RT2.0CB	50	230	1,100	44	600	24	330	13
RT2.3CC	50	230	900	36	700	28	450	18
RT4.5CB(2)	100	450	1,300	52	800	32	520	21
RT6.2CB	150	680	1,350	54	705	28	800	32
SQ6.8CB	150	680	1,100	44	1,100	44	625	26
SQ9.0CB(2)	200	900	1,220	49	1,230	49	680	27
SQ11CB	250	1,100	1,360	54	1,360	54	840	34

## Tapered Tank

### ROUND TAPERED TANK SERIES

MODEL	CAPACITY		DIMENSIONS						LIST PRICE (RM)
	EFFECTIVE	MAXIMUM	TOP		BOTTOM		HEIGHT		
	GALLONS (LITRES)		MM	INCHES	MM	INCHES	MM	INCHES	
R-N70/100	70 (318)	100 (455)	1,240	49	1,020	40	680	27	190.00
R-N100/150	100 (455)	150 (682)	1,310	52	990	39	850	33	245.00
R-N150/200	150 (682)	200 (909)	1,520	60	1,220	48	800	31	330.00
R-N150/200(S)	150 (91)	200 (909)	1,290	51	1,000	39	1,050	41	330.00
R-N200/250	200 (909)	250 (1136)	1,560	61	1,220	48	1,060	42	460.00
R-N200/250(S)	200 (909)	250 (1136)	1,290	51	960	38	1,185	47	410.00
R-N250/300(2)	250 (1135)	300 (1362)	1,635	64	1,325	52	1,080	42	490.00
R-N250/300(S)	250 (1135)	300 (1362)	1,575	62	1,335	53	970	38	490.00
R-N300/350	300 (1362)	350 (1589)	1,610	63	1,260	50	1,400	55	600.00
R-N350/400	350 (1589)	400 (1816)	1,615	64	1,270	50	1,500	59	650.00
R-N400/500	400 (1816)	500 (2270)	1,855	73	1,425	56	1,470	58	820.00
R-N500/600	500 (2270)	600 (2724)	1,880	74	1,535	60	1,445	57	1,000.00

– Round & Square

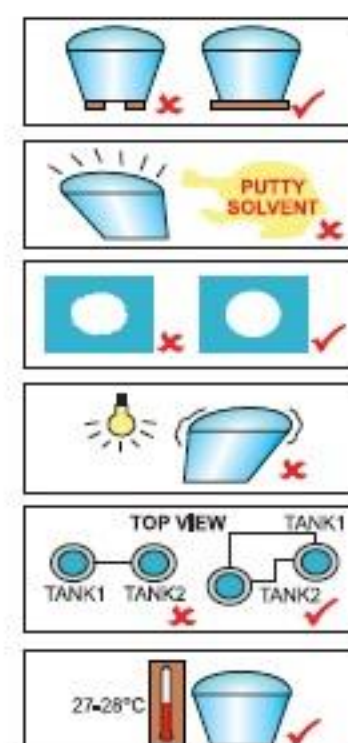


### SQUARE TAPERED TANK SERIES

MODEL	CAPACITY		DIMENSIONS						LIST PRICE (RM)
	EFFECTIVE	MAXIMUM	TOP		BOTTOM		HEIGHT		
	GALLONS (LITRES)		MM	INCHES	MM	INCHES	MM	INCHES	
S-N100/150	100 (455)	150 (682)	1,340	54	1,030	41	700	28	290.00
S-N150/200	150 (682)	200 (909)	1,512	60	1,160	46	710	28	385.00
S-N200/250	200 (909)	250 (1136)	1,594	64	1,215	48	825	33	480.00
S-N250/300	250 (1136)	300 (1362)	1,596	64	1,175	47	1,100	44	620.00

## TAPERED TANK INSTALLATION INSTRUCTIONS

- The base shall be adequately and uniformly supported over its whole area. Do not place water tank on separated beams or uneven surfaces.
- Do not use any putty, solvent or joining compound. Plastics or rubber sealing washer or PTFE tapes should be used.
- Circular holes for fixing pipes shall have a clean edge, free from notches, and shall be made with a sharp hollow punch, cut with a hole saw or drilled with a sharp cutter.
- Tank should not be positioned closed to heaters, electrical bulbs or other heat sources.
- Pipe interconnections between tanks shall be by indirect angled connections or direct straight connections with flexible expansion joints.
- Tanks should be used for storage of liquid below 40°C.





## PROJECT REFERENCE



Kulim Hi-tech Industrial Park, Kulim, Kedah



JBA, Kuantan



PPR Kampung Gambang, Pahang



JBA, Temerloh



Leisure Commerce Square, Bandar Sunway



DBKL Bangsar Apartment, KL



Guthrie Bukit Jelutong



# POLYCHEM<sup>®</sup>

POLYETHYLENE CHEMICAL TANK





## INTRODUCTION

**POLYCHEM** are one piece seamless tanks produced from polyethylene using rotational moulding process which offer superior quality as they are corrosion resistant, flexible and will not break or shatter under normal expansion and contraction. **POLYCHEM** tanks are competitively priced and suitable as storage tanks for a wide range of chemicals and can be used by water and wastewater industries and any industry that require storage of chemicals.

## PRODUCT FEATURES AND ADVANTAGES

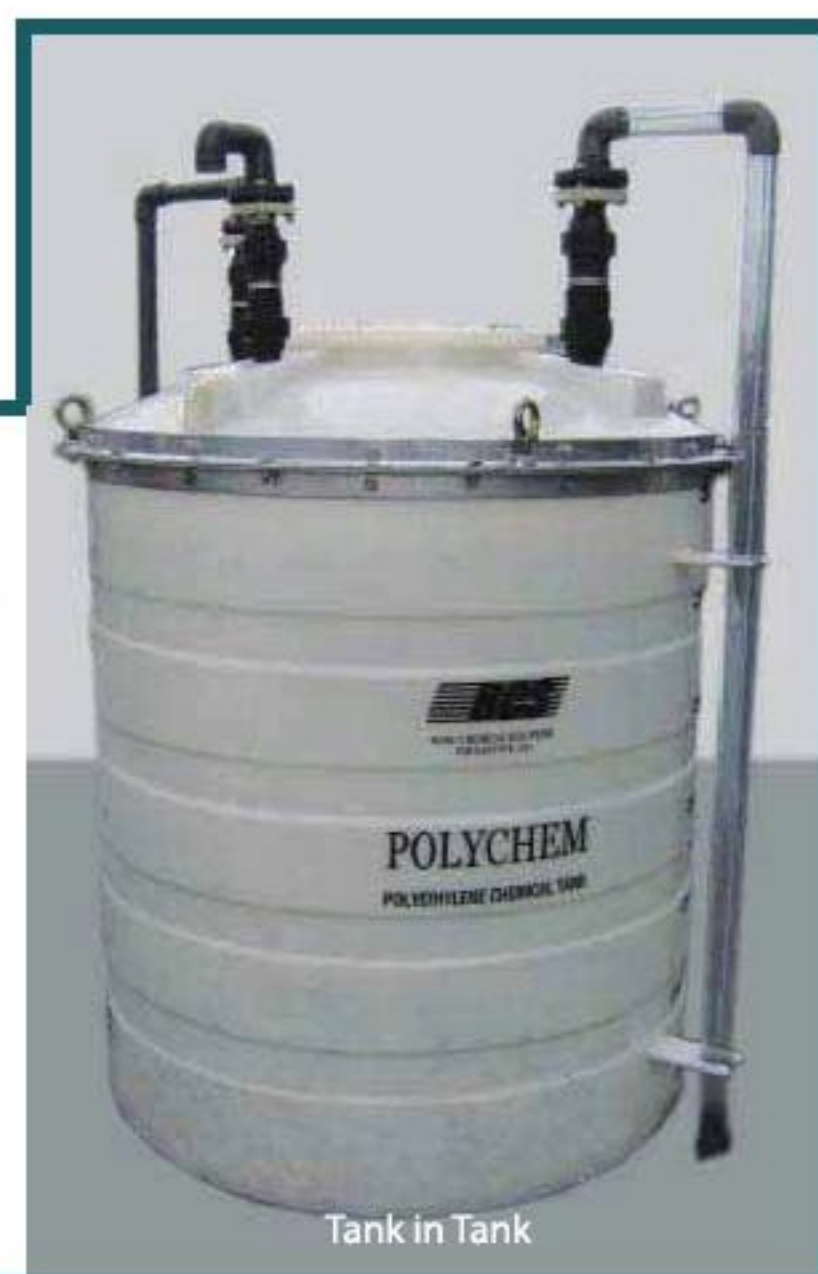
- **STANDARDS**  
Designed to ASTM D 1998-06
- **STRONG, SEAMLESS AND LEAK PROOF**  
One-piece seamless construction guarantees leak proof tanks that are strong and rugged.
- **LIGHTWEIGHT FOR EASY HANDLING**  
Lightweight and rugged properties facilitate easy and fast handling, transportation and installation.
- **EXTENSIVE RANGE**  
Available from 100 litres to 45,000 litres.
- **CUSTOMISATION**  
Can be customised to meet customer requirements.
- **COLOUR**  
Available in black or natural (translucent) colour only.
- **TYPES OF TANKS**  
Available in Single Layer Tank (Flat Bottom and Cone Bottom) Containment Tank and Tank in Tank to suit different level of safety requirements.
- **MAINTENANCE FREE**  
No painting or corrosion-protection coating required.
- **CHEMICAL AND UV RESISTANT**  
Polyethylene is UV resistant and chemically inert against a wide range of chemicals.
- **QUALITY ASSURANCE**  
Consistent quality achieved through systematic product and material testing programme.
- **COMPREHENSIVE TECHNICAL SUPPORT**  
Technical services are provided to customers in the planning, designing and construction of the tank system.



Containment Tank



Chemical Dosing Tank



Tank in Tank



## RANGE OF PRODUCTS

MODEL	CAPACITY	DIAMETER		HEIGHT	
	litres	mm	inches	mm	inches
<b>Tank with Detachable Cover</b>					
R1.0D	100	430	17	730	29
R1.5D	150	500	20	884	35
R2.5D	250	600	24	955	38
R3.5D	350	660	26	1,020	40
R5.5D	550	860	34	1,010	40
R10D	1,000	1,220	48	1,250	49
R12D	1,200	1,220	48	1,450	57
R15D	1,500	1,220	48	1,750	69
<b>Tank with Dome Top</b>					
R10CC	1,000	1,220	48	1,290	51
R12CC	1,200	1,220	48	1,490	59
R15CC(3)	1,500	1,220	48	1,790	70
R18CC	1,800	1,300	51	1,760	69
R27CC	2,700	1,500	59	2,030	80
R40CS(S)	4,000	2,390	94	1,034	41
R40CC	4,000	1,750	69	2,175	86
R55CS	5,500	2,010	79	2,155	85
R68CS	6,800	2,400	94	1,980	78
R68CS-2	6,800	1,600	63	3,917	154
R72CS	7,200	2,080	82	2,920	115
R90CS	9,000	2,580	102	2,400	95
R135CS(2)	13,500	3,060	120	2,650	104
R135CS(3)	13,500	2,500	98	3,300	130
R150CS	15,000	2,400	94	3,900	150
R180CS	18,000	3,060	120	3,400	130
R230CS(2)	23,000	3,060	120	3,900	150
R230CS(3)	23,000	3,700	146	2,830	111
R270CS	27,000	3,060	120	4,600	180
R300CS	30,000	3,000	118	4,880	190
R320CS	32,000	3,200	126	4,680	180
R360CS	36,000	3,300	130	5,150	200
R450CS	45,000	3,300	130	6,400	250

(1 inch = 25.4mm)

**MODEL:**  
Series/Capacity/Body Type/  
Opening Type

**Series:**  
R = Round

**Capacity:**  
XX00 (in litres)

**Body Type:**  
C = Cylindrical

**Opening Type:**  
C = Center Manhole  
D = Detachable Cover  
S = Side Manhole

## POLYETHYLENE RESIN

Polyethylene resins used to manufacture **POLYCHEM** is an ethylene octane copolymer specifically designed for applications requiring excellent environmental stress crack resistance and impact strength combined with low warpage. It is fully heat and UV stabilised resulting in good colour retention and long life expectancy. The resins complies with U.S. FDA 21 CFR 177.1520© 3.1a.

PHYSICAL PROPERTIES	TEST METHOD	VALUES	
Resin Properties <sup>(1)</sup>			
Melt Index, g/10 min	ISO 1133	4	
Density, g/cc	ISO 1183	0.935	
Melting Point, °C	DSC	125	
Vicat Softening Point, °C	ISO 306 (Method A/120)	118	
Crystallisation Point, °C	DSC	105	
Deflection Temperature Under Load	ISO 75	75	
Mechanical Properties <sup>(1)</sup>		Values <sup>(2)</sup>	Values <sup>(3)</sup>
Hardness Shore D	ISO R868	57	—
Tensile Yield, MPa	ISO R527	17	17
Ultimate Tensile, MPa	ISO R527	24.7	21.8
Ultimate Elongation, %	ISO R527	800	700
Flexural Modulus, 1% Secant, MPa	ISO 178	640	—
Tear Resistance, MPa	DIN 53515	145	140
ESCR 50 °C, 100% Antarox, h	ASTM D-1693	>1000	—
10% Antarox, h		—	400
Falling Dart Impact, 23°C, J/mm	ISO 6603/2	17	17
- 20°C, J/mm		23	—

(1) Typical values, not to be construed as specifications. Users should confirm results with their own tests.

(2) Compression moulded samples

(3) Rotomolded plates of 3-4 mm thickness.



## General Chemical Resistance Chart

CHEMICAL CLASS	POLYETHYLENE RESINS
Acids, Inorganic	
Weak	E
Strong	E
Strong Oxidising	G
Acids, Organic	
Weak	E
Strong	E
Alcohols	E
Aldehydes	E
Amines	
Aliphatic	E
Aromatic	E
Bases	E
Beverages	E
Condiments	E
Esters	G
Foodstuffs	E
Glycols	
Polyglycols	E
Polyglcol ethers	E
Hydrocarbons	
Aliphatic	N
Aromatic	N
Chlorinated	N
Insecticides	G
Ketones	G
Oils	
Essential Oils	F
Vegetable Oils	E
Pharmaceuticals	E
Salts	E

E – Excellent  
F – Fair

G – Good  
N – Not Recommended

This table should be used as a guide only.  
Source of Information: Dow Plastics

## Optional Fittings and Accessories

TYPES OF FLANGES



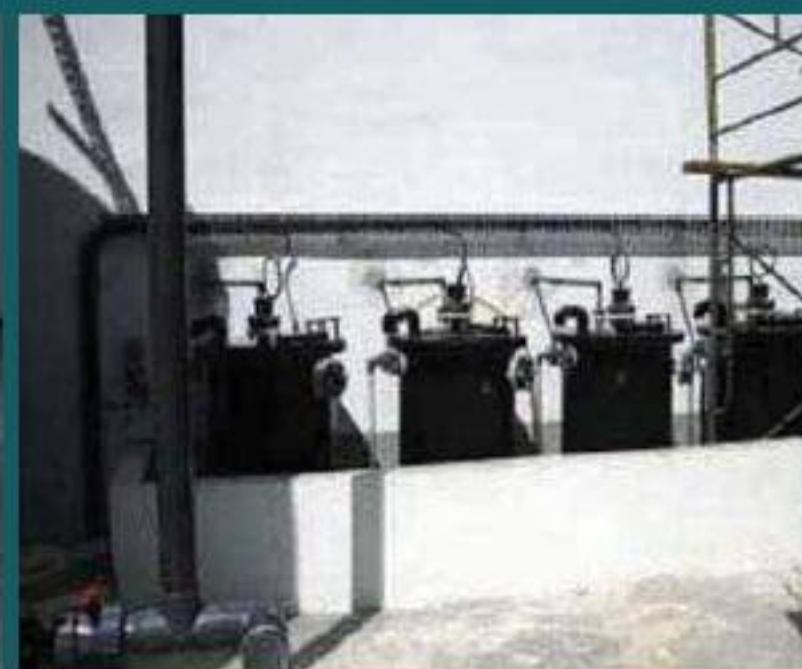
MANHOLES



LEVEL INDICATOR



LUG





# ECOSEPT®

## SEPTIC TANK

### Advanced Rotational Molding Manufacturing Process:

- Premium engineering grade HDPE material for corrosion proof, lightweight, robust and impact resistant product
- Product and process designed to suit local sewage loading parameters and requirements
- Designed to be structurally strong using latest computer simulation and analysis software
- Prefabricated in a leak proof one piece seamless unit for fast and easy installation

### High Performance Bio-Filter Media For:

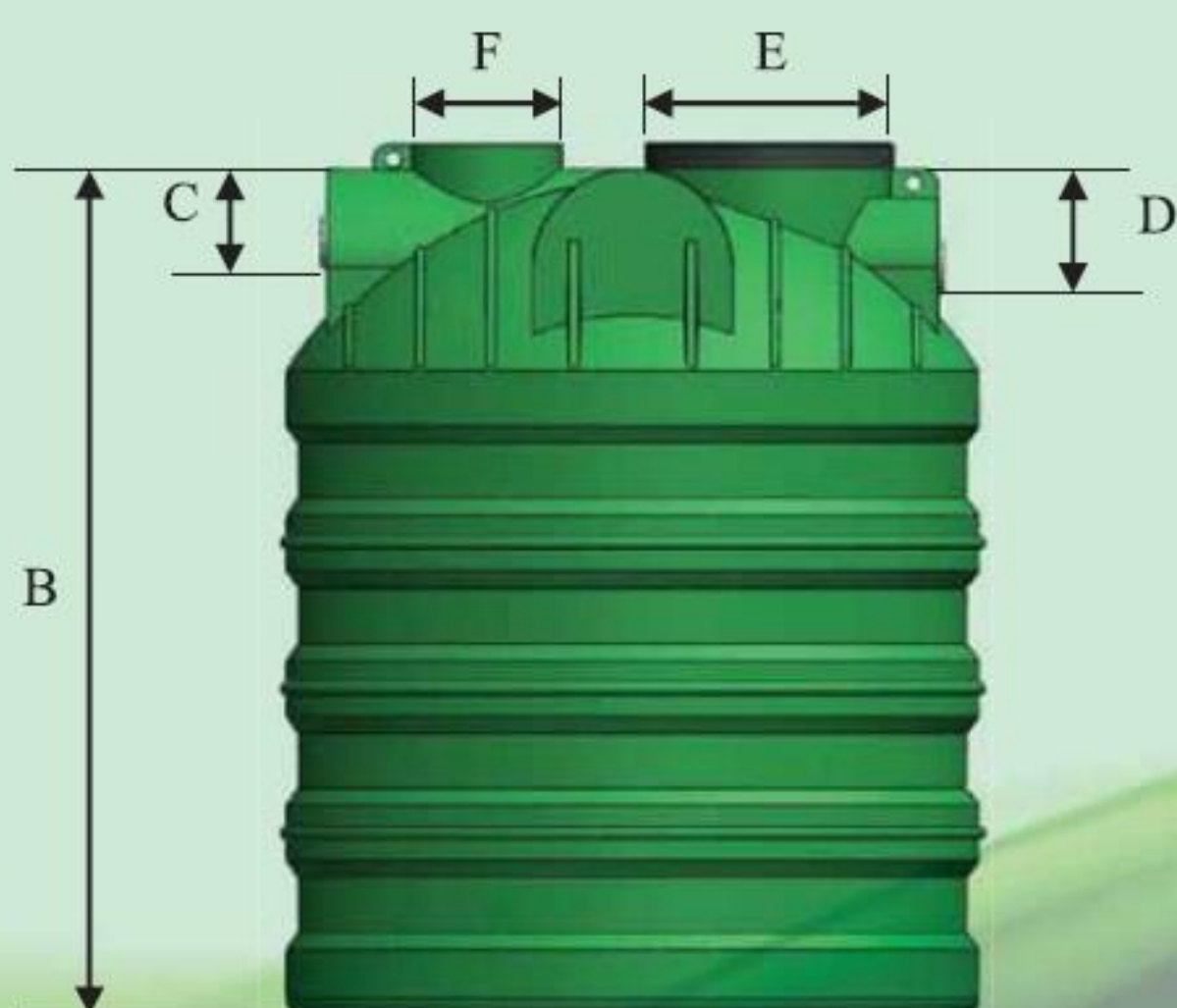
- Effective filtration and non-clogging of effluent
- Excellent chemical resistance and corrosion proof
- Enhanced microorganism growth with optimal surface area to volume ratio

### Approval/ Standard

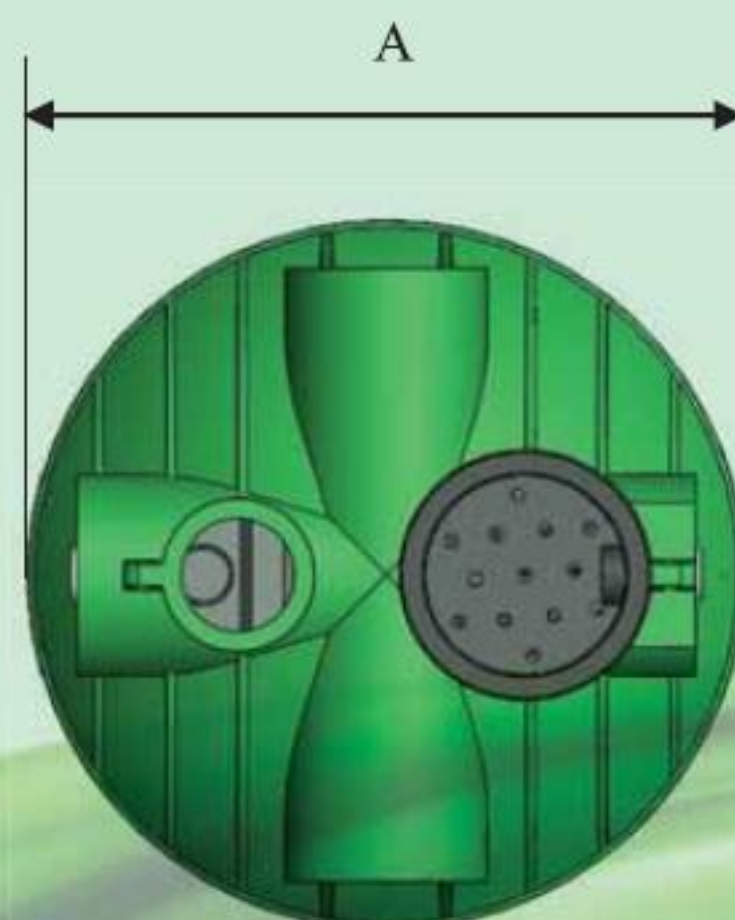
- Approved to Canadian Standard CSA-B66
- Designed to comply with SPAN Malaysian Sewerage Industry Guidelines Volume 5.







**FRONT VIEW**



**TOP VIEW**

- \* Diagram above is for illustration purposes only and is not to scale.
- \* Alternative inlet positions are provided to suit site requirements.

MODEL		ES-3	ES-5C2	ES-5	ES-8	ES-10	ES-40C2	ES-40C1	ES-50
POPULATION EQUIVALENT		6	8	10	15	17	20	27	30
EFFECTIVE VOLUME	Litres	>2000	>2700	>3400	>4800	>5800	>6800	>8800	>10900
INLET/OUTLET DIAMETER	mm	100	100	100	100	100	100/150	100/150	100/150
DETENTION TIME	hours	>24	>24	>24	>24	>24	>24	>24	>24

DIMENSION		ES-3	ES-5C2	ES-5	ES-8	ES-10	ES-40C2	ES-40C1	ES-50
A	mm dia.	1420	1625	1830	1925	2132	2270	2400	2600
B	mm	1760	1740	1717	2137	2122	2190	2435	2575
C	mm	179	179	179	179	179	231	231	231
D	mm	254	254	254	254	254	306	306	306
E	mm	510 dia.	530 dia.	530 dia.	530x630	530x630	530x630	530x630	530x630
F	mm	310 dia.	310 dia.	310 dia.	310 dia.	310 dia.	310 dia.	310 dia.	310 dia.

Effluent to Standard B- Environmental Quality (Sewage and Industrial Effluents) Regulation, 1979



# **WEIDALINE<sup>®</sup>**

## **SUBSOIL DRAINAGE PIPE**

- **Light Weight**
- **Unmatched Durability**
- **Long Lengths**
- **Chemically Inert**
- **Fast & Easy Installation**
- **Flexible**
- **High Structural Strength**
- **Abrasion Resistance**



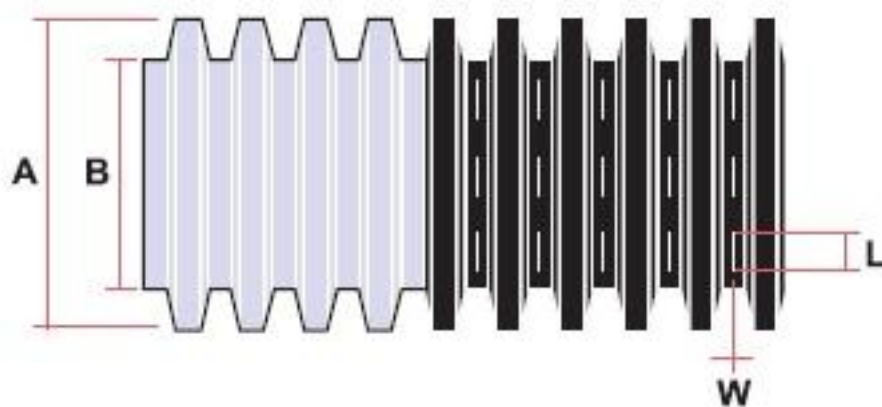
## INTRODUCTION

**WEIDALINE HDPE** corrugated subsoil drainage pipe is made from virgin High Density Polyethylene resin. It is tough, has high strain, chemically inert to all soils and most chemicals which will ensure many years of trouble free service.

## STANDARDS

- **AS 2439 Part 1**  
Specification for Perforated Plastics Drainage and Effluent Pipe and Fitting, Part 1:  
Perforated Drainage and Associated Fittings.
- **BS 4926**  
Specification for Plastic Pipes and Fittings for Use As Subsoil Field Drains.
- **ASTM F405**  
Standard Specification for Corrugated Polyethylene (PE) Pipe and Fittings.

## PRODUCT DATA



NOMINAL DIAMETER (mm)	OUTSIDE DIAMETER (mm) A	INSIDE DIAMETER (mm) B	PERFORATION SIZE (mm) W x L	NO. OF ROWS	WATER ENTRANCE AREA (sq mm/m)
100	100	86	1.2 X 8.0	6	2,300
160	160	138	1.5 X 5.0	6	2,100

## COIL LENGTH

NOMINAL DIA. (mm)	COIL LENGTH (m)
100	100
160	50

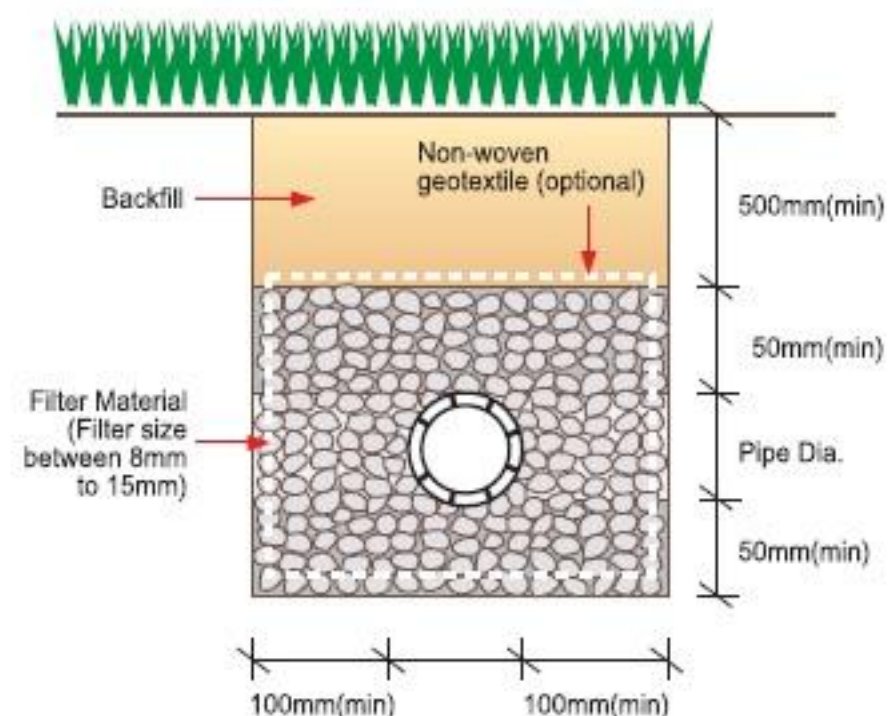
## TYPICAL SPACING AND DEPTH

SOIL TYPE	EFFECTIVE SPACING	DEPTH
Sand	20.0m - 30.0m	1.8m - 2.0m
Loam	9.0m - 15.0m	1.2m - 1.6m
Clay	2.5m - 7.0m	0.6m - 1.0m

## FILTER MATERIAL AND FILTER FABRIC

Filter material must be aggregate or coarse sand with diameter between 8mm to 15mm. In condition where there are fine sand or coarse slit soils, non-woven filter fabric may be used by wrapping it around the filter material. It is not recommended that it be wrap around the pipe itself.

## TYPICAL TRENCH





## APPLICATIONS

- Golf Course
- Retaining Structure
- Airport Runway
- Landscaping
- Road Edge Drainage
- Sports Fields
- Landfill
- Parks
- Sludge Drying Beds
- Storage Yards
- Agriculture



## FABRICATED FITTINGS



The most commonly required fittings, "Tee", Y and end cap are held in stock. Other special configured fittings are manufactured to order.

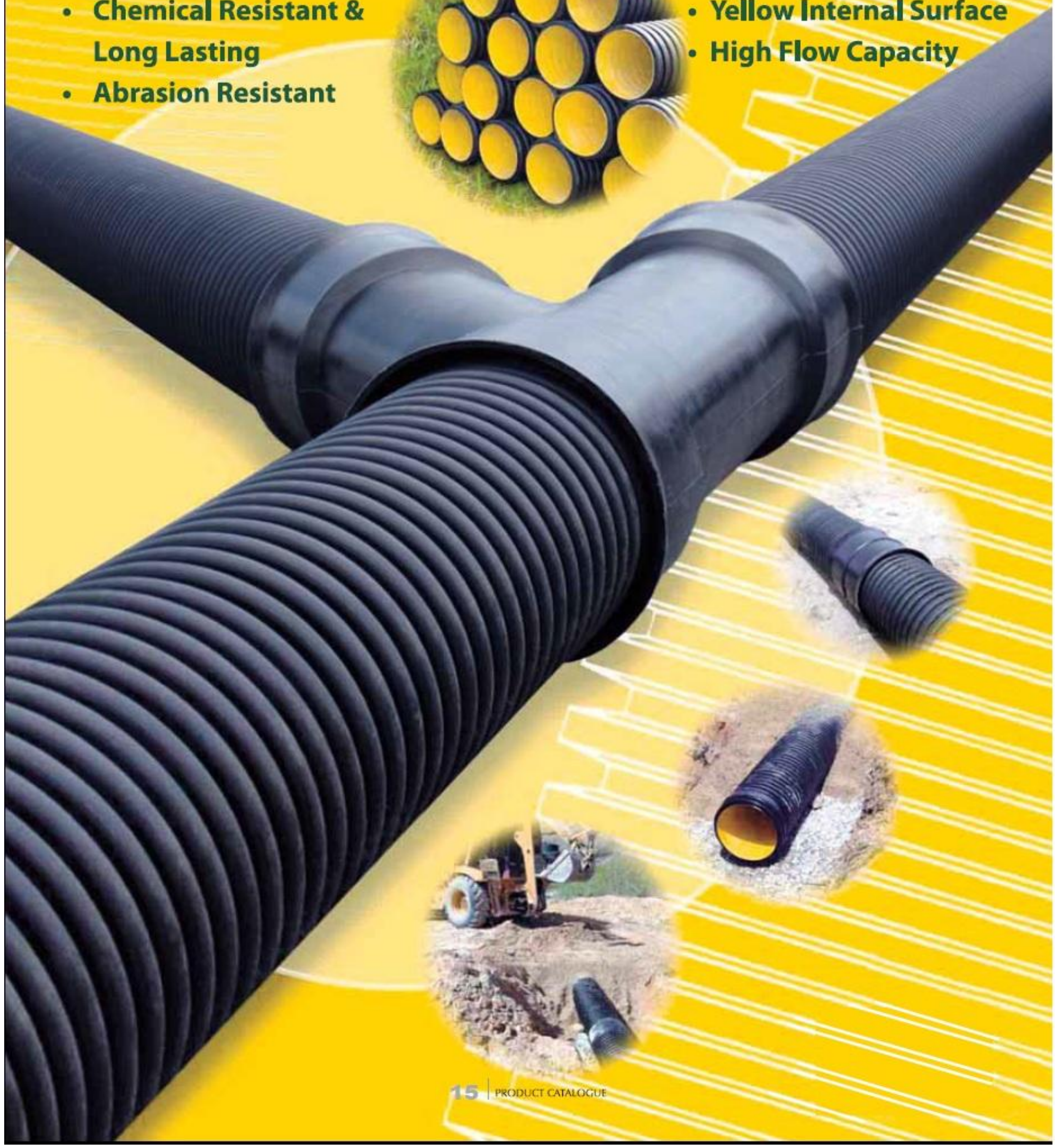


# WEIDA®

## DOUBLE WALL CORRUGATED HDPE PIPE

- Lightweight
- "Flexible" Pipe Material
- Chemical Resistant & Long Lasting
- Abrasion Resistant

- Longer Lengths & Less Joints
- Yellow Internal Surface
- High Flow Capacity





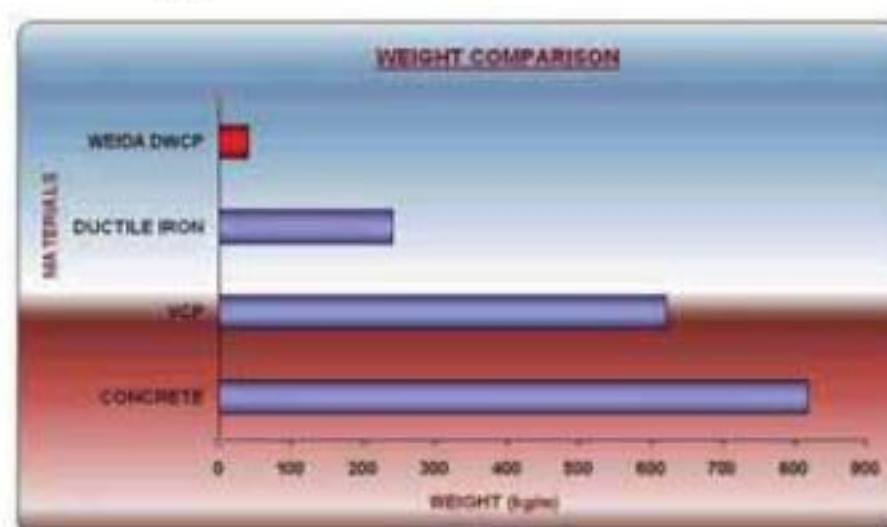
## INTRODUCTION

**Weida HDPE Double Wall Corrugated Sewer Pipe (DWCP) System** provides the complete solution to your sewage pipe works needs. **WEIDA DWCP** comes in a range of common diameter sizes and lengths, coupled with an extensive range of pipe fittings, joints and accessories.

## ADVANTAGES OF HDPE

### • LIGHTWEIGHT

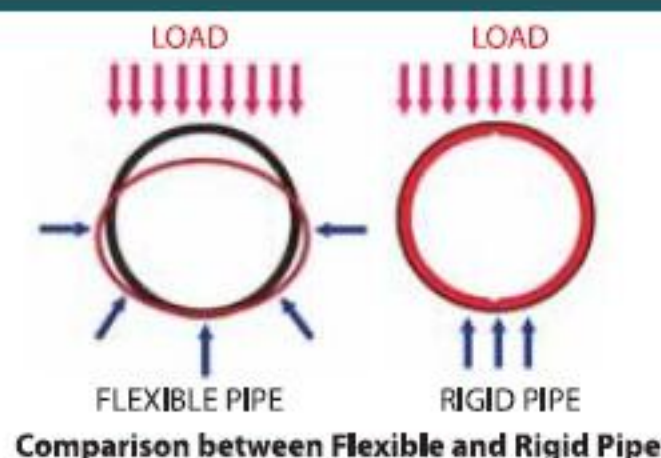
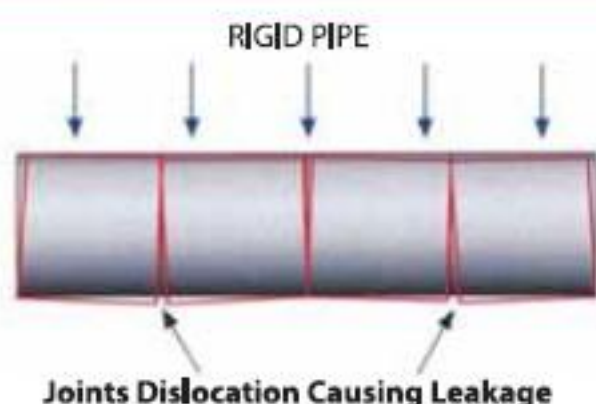
HDPE pipe is lighter than traditional piping materials. Transportation, handling and laying becomes easy, quick and cost-effective.



Weight Comparison of Various Types of Pipes (Based on 900mm Pipes)

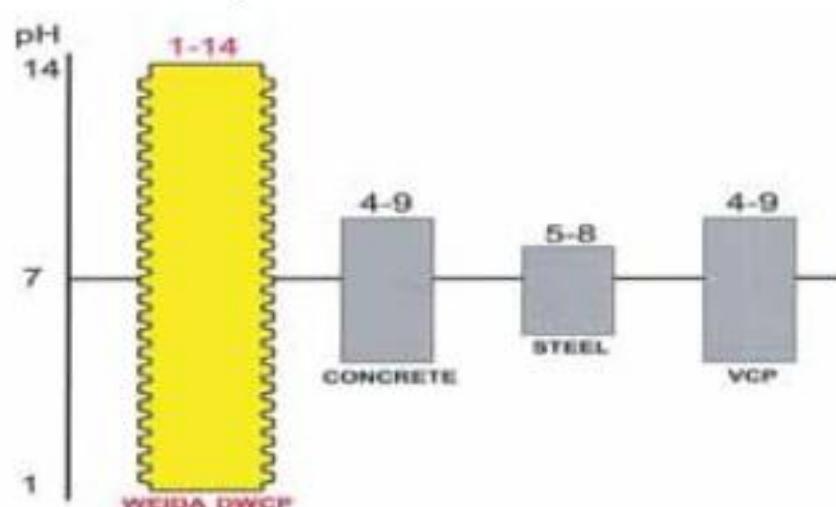
### • "FLEXIBLE" PIPE MATERIAL

While rigid pipes crack and dislocate due to soil movement and overloading, flexible HDPE pipes bends and deflects to conform to the soil condition.



### • CHEMICAL RESISTANT & LONG LASTING

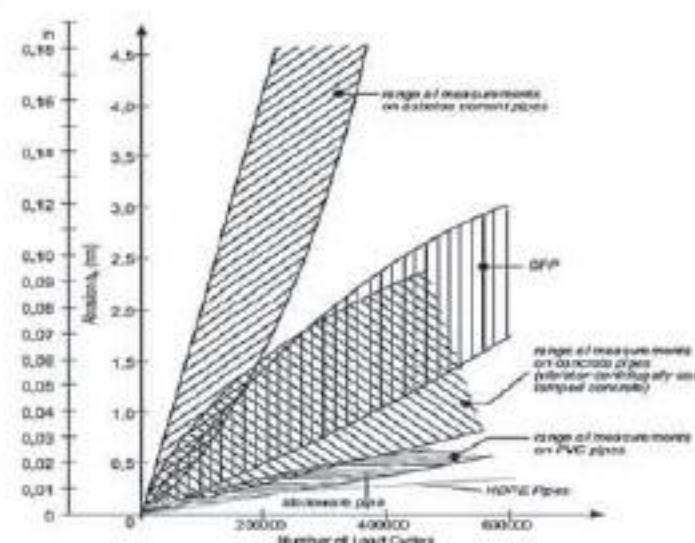
HDPE is highly resistant to chemical attacks from extremes of pH in soils and sewerage effluents. Unlike other traditional piping materials, it is applicable over a wide range of pH. A buried HDPE pipe does not decay or corrode, and can virtually last for tens of years.



Applicable pH Range for Various Types of Material

### • ABRASION RESISTANT

**WEIDA DWCP** is very long lasting because HDPE material exhibits outstanding resistance to abrasion. The smooth finish produced from HDPE enables conveying or discharging fluids with abrasive material much easier & quicker.



Abrasion Test for Various Types of Material



## ADVANTAGES OF WEIDA DWCP

- LONGER LENGTHS & LESS JOINTS**

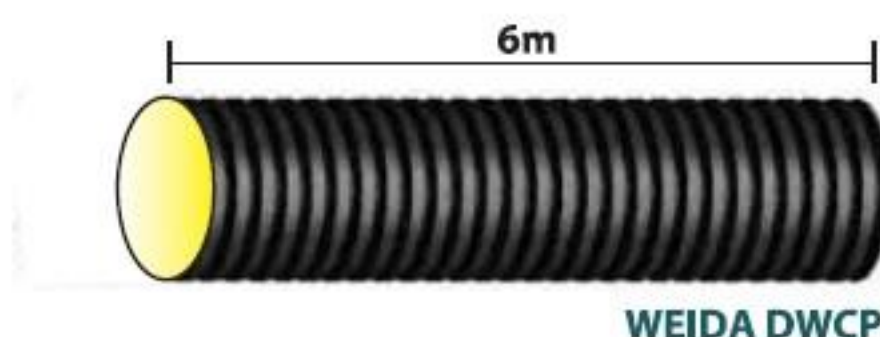
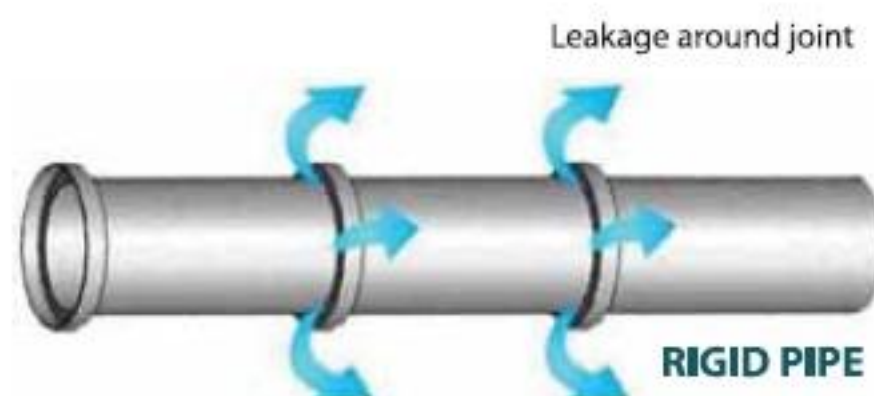
Unlike vitrified clay pipes (VCP) and concrete pipes (CP) that comes in length of 1.5-2m, **WEIDA DWCP** is available in longer lengths of 6m, which reduces the number of joints and leakages.

- YELLOW INTERNAL SURFACE**

The bright internal surface makes pipe inspection via CCTV easy.

- HIGH FLOW CAPACITY**

The low Manning's "n" values below indicates that **WEIDA DWCP** has lower flow resistance and higher flow volume compared to steel pipes and concrete pipes.



### Comparison Of Pipe Wall Roughness Manning's "n" Values

Weida DWCP	Corrugated Steel Pipe	Reinforced Concrete Pipe
0.010 - 0.012	0.022 - 0.026	0.011 - 0.015

Source: Corrugated Polyethylene Pipe Association

## PRODUCT STANDARD

**WEIDA DWCP** has the following certification and approval:

- DIN 16961 Part 1 & 2 – Thermoplastic Pipes and Fittings With Profiled Outer And Smooth Inner Surfaces
- Suruhanjaya Perkhidmatan Air Negara (SPAN)

### FITTINGS



### SIZES AVAILABLE



NORMAL DIAMETER	mm	150	225	300	375	450	600	750
	inches	6	9	12	15	18	24	30

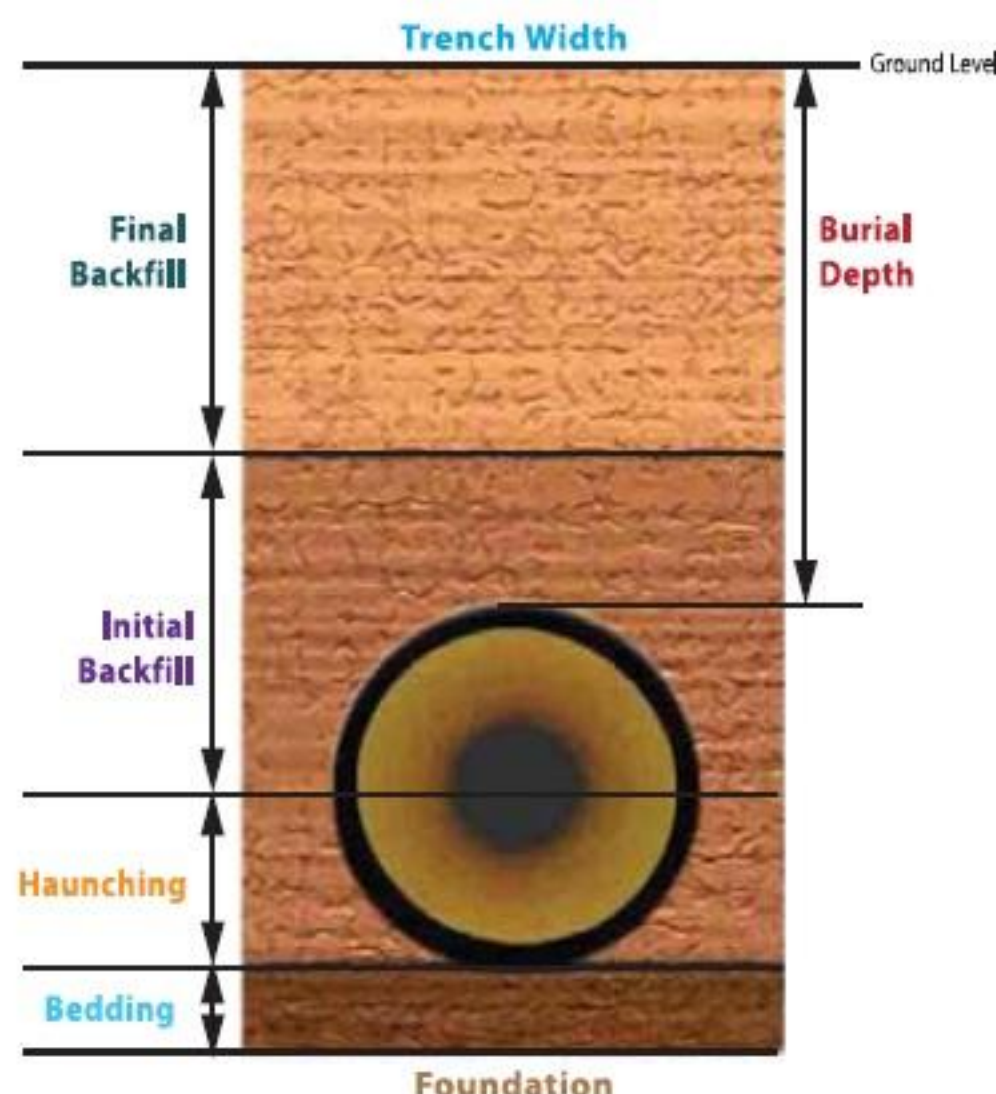


## DESIGN AND INSTALLATION

A good sewer network is the result of proper pipeline design and sound installation practices. The pipeline should be designed for adequate flow capacities; whilst maintaining the pipe's structural integrity during its lifespan in service. Installation should be properly done to ensure pipe deflection is within acceptable limits and the installed pipeline remains on grade conforming to the intended design.



Size	Trench Width (mm)
100mm (4")	400
150mm (6")	500
225mm (9")	600
300mm (12")	800
375mm (15")	850
450mm (18")	900
600mm (24")	1200
750mm (30")	1500
Suggested Minimum Trench Width	



The limits of burial depends largely on the type of backfill material, degree of compaction and the imposed load over the pipe.

The minimum burial depth for H-25 vehicular loads are 300mm (1ft)\*.

\* (Base on Class 3 backfill, compacted to 90% Standard Proctor Density)  
H-25 load represents a 25 tons truck of American Highway Standard (AASHTO)

The maximum burial depth typically ranges from 4-18m\*\*, depending on applications and engineering design.

\*\* (Source: Corrugated Polyethylene Pipe Association)

The various layers of backfill and their functions are as follows:

Foundation	To provide a hard support base for the bedding layer
Bedding	To establish line & grade and to provide firm pipe support
Haunching	To provide resistance against soil and traffic loading
Initial backfill	To give pipe support and protect pipes from stones in the final backfill
Final backfill	To satisfy loading, pavements and other requirements

The recommended design and installation manual for **WEIDA DWCP** is The Complete Corrugated Polyethylene Pipe Design Manual and Installation Guide by the Corrugated Polyethylene Pipe Association (CPPA), USA.

The standard reference for HDPE sewer installation is the ASTM D 2321 : Standard Practice for Underground Installation of Thermoplastic Pipes for Sewer and Other Gravity Flow Applications.



Backfilling of sewer pipe



Trench excavating



## CONNECTIONS: Pipe To Fitting / Double-end Sockets



Clean pipe ends, rubber rings and internal faces of the socket with soap water



Insert rubber ring onto the second valley of the pipe



Pipe is pushed into the socket to complete the connection



Align and insert socket into pipe



Align the next pipe with the socket and repeat Step 1 and 2



Push socket into pipe carefully, ensuring that the socket ends are protected from damage

## MANHOLE CONNECTIONS



Grouting WEIDA DWCP to a concrete manhole



Connection of WEIDA DWCP to Floline 3-W manhole



# WEIDALINE<sup>®</sup>

## DOUBLE WALL SUBSOIL DRAINAGE PIPE

- High flow Capacity
- Smooth Inner Layer
- Economical and Cost Effective
- High Impact Strength
- Corrosion Resistant
- Chemical Resistant
- Abrasion Resistant
- UV Light Resistant
- Light Weight
- Flexibility
- Long Length and Full Range of Fittings
- Fast and Easy Installation
- Easy Handling and Transport





## INTRODUCTION

According to Manual Saliran Mesra Alam Malaysia (MSMAM), subsoil drainage systems are provided to drain away subsurface water. It is essential for:

- Increase the stability of the ground and footings of buildings and road construction.
- Lower the water tables.
- Alleviate groundwater pressures.
- Increase soil strength in road construction.
- Reduce the hydrostatic and hydrodynamic pressure in road construction and retaining structure.

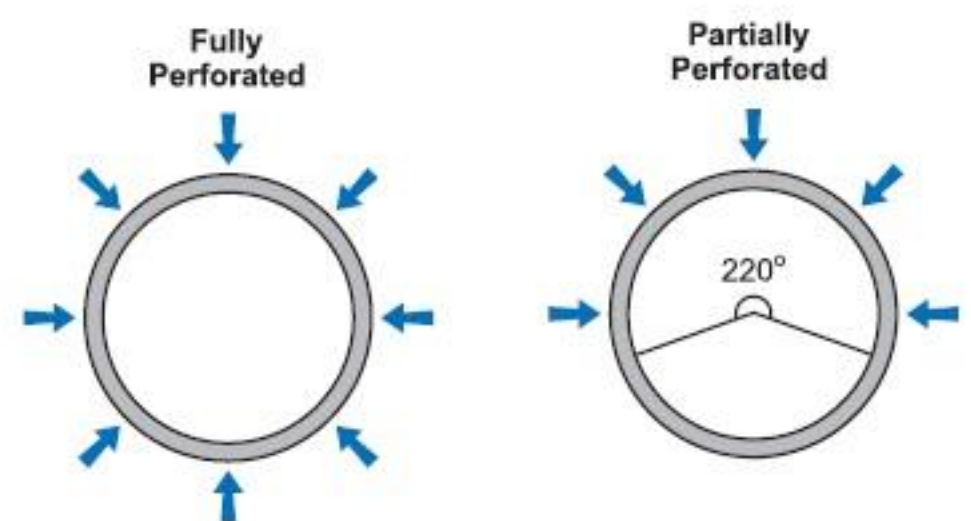
To achieve the above objectives, **WEIDALINE HDPE Double Wall Corrugated Drainage and Subsoil Pipe System** has provided an effective and cost saving system compared to traditional pipe such as concrete porous pipes.

**WEIDALINE HDPE Double Wall Corrugated Drainage and Subsoil Pipe System** is offered in both perforated and non-perforation form. Its corrugated outer profile and smooth inner profile produces high flow capacity to suit variety of drainage applications.

**WEIDALINE HDPE Double Wall Corrugated Drainage and Subsoil Pipe** is made from virgin High Density Polyethylene Resin. It is tough, has high strain, chemically inert to all soils and most chemicals which will ensure many years of trouble free services.

## PERFORATIONS

The perforations of **WEIDALINE HDPE DOUBLEWALL CORRUGATED PIPE** is designed in accordance with DIN 4262-1. It is uniformly slotted in rows at the valley of corrugations to maximise the water entrance area. Therefore, the area of perforations are more than 50cm<sup>2</sup>/m. It has 2 types of perforations: fully perforated pipe and partially perforated pipe.



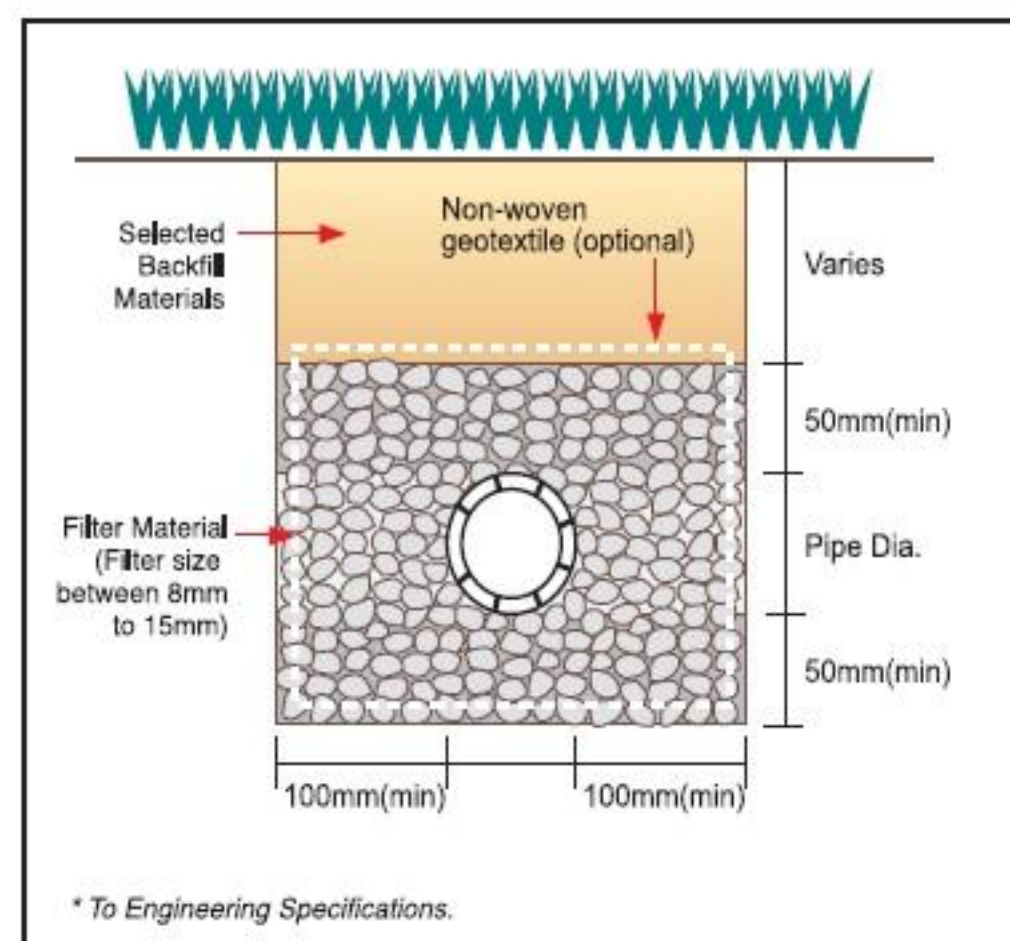
## PRODUCT SPECIFICATION

NOMINAL DIAMETER (mm)	OUTSIDE DIAMETER (mm)	INSIDE DIAMETER (mm)	MIN. PERFORATION SIZE (mm) W x L	NO. OF PERFORATION (no./m)	WATER ENTRANCE AREA (cm <sup>2</sup> /m)
100	120	100	1.2 X 30.0	4 X 75	108
150	175	150	1.2 X 30.0	4 X 50	72
225	260	225	1.2 X 35.0	6 X 35	88
300	350	300	1.2 X 40.0	6 X 22	62
375	445	375	1.2 X 45.0	6 X 20	65
450	525	450	1.2 X 45.0	6 X 17	55
600	695	600	1.2 X 40.0	8 X 14	53
750	892	750	1.2 X 55.0	8 X 10	52

## TYPICAL SPACING AND DEPTH

SOIL TYPE	EFFECTIVE SPACING (m)	Depth (m)
Sand	12 - 20	1.8 - 2.0
Loam	8 - 12	1.2 - 1.6
Clay	2 - 6	0.6 - 1.0

## TYPICAL TRENCH DESIGN





## FILTER MATERIAL

Filter material must be aggregate with maximum size 20mm. In condition where there are fine sand or coarse silt soils, non-woven filter fabric may be used by wrapping it around the filter material.

## FITTINGS



## APPLICATIONS



Golf course and Sports Field



Highway and Road



Airport Runway



Landscaping, Park and Gardens

- Golf course and Sports Field
- Highway and Road
- Landscaping
- Land Drainage
- Landfill and Earthworks
- Perimeter and Concealed Drain
- Airport Runway
- Pavement
- Park and Gardens
- Retaining Structures and Slope Stability
- Agriculture
- Sludge Drying Beds

## STANDARDS

### DIN 16961: Part 1 & 2

Thermoplastics Pipes and Fittings with Profiled Outer and Smooth Inner Surfaces

### DIN 4262: Part 1

PVC-U and PE-HD Subsoil and Multi-Purpose Drain Pipes for use in Road Construction and Civil Engineering



# **FLOLINE 3-W<sup>®</sup>**

**TRIPLE WALL PROFILED HDPE PIPE**

**UNMATCHED**  
**STRUCTURE STRENGTH**  
**AND PERFORMANCE**



- ***CULVERTS***
- ***STORM DRAINS***
- ***SEWER PIPES***



## INTRODUCTION

**FLOLINE 3-W High Density Polyethylene (HDPE)** pipes are designed and manufactured in a unique triple-wall profile construction with smooth internal and external helical walls, through an advanced extrusion-winding process to provide the following advantages:

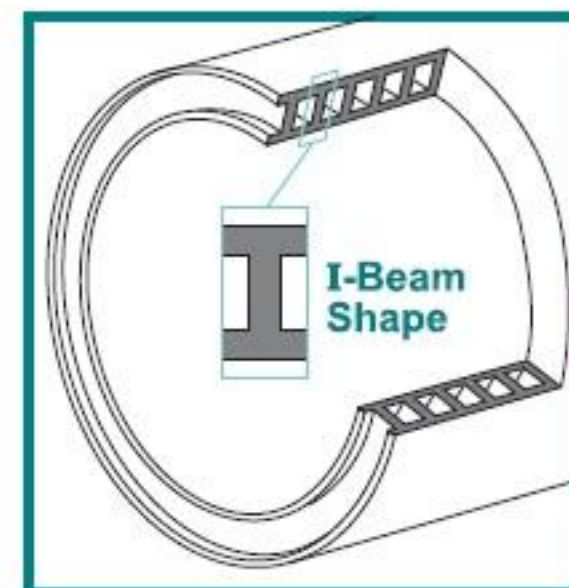
- It is superior in quality and performance compared to the common single or double-walled PE pipes available in the market today.
- It is ideal for underground or aboveground gravity and non-pressure applications in the civil works, waste management, agriculture and aquaculture sectors.

## SPECIAL TRIPLE WALL CONSTRUCTION

Unlike the conventional single, double or triple wall profiled pipes which have layered walls, the profile on **FLOLINE 3-W** pipes resembles a series of I-Beam sections. I-Beam sections, having a very high strength-to-weight ratio, is the most widely used shape for structural members in building construction.

This unique design provides **FLOLINE 3-W** pipes with exceptionally high strength in ring and bending stiffness which increases the long-term load bearing capabilities and reduces the stringent requirements on bedding and backfilling for flexible pipes.

**FLOLINE 3-W** pipes have a stiffness of up to 392kPa at 5% deflection as per ASTM 2412 test and Stiffness Class of SERIES 5 (DIN16961).



## HDPE MATERIAL

**FLOLINE 3-W** pipes are manufactured using premium engineering-grade HDPE material which features the following advantages.

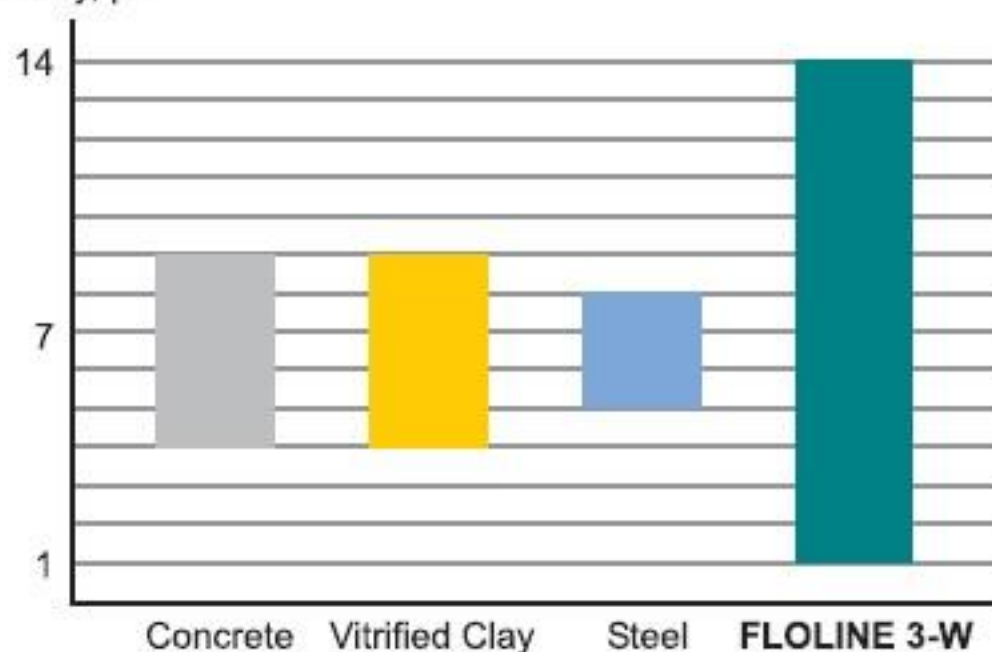
### CHEMICAL RESISTANT & LONG LASTING

It does not corrode like steel pipes. HDPE material is chemically inert, making **FLOLINE 3-W** pipes suitable for use in soil with extreme pH. HDPE does not degrade nor decay and can last for years.

### LIGHTWEIGHT

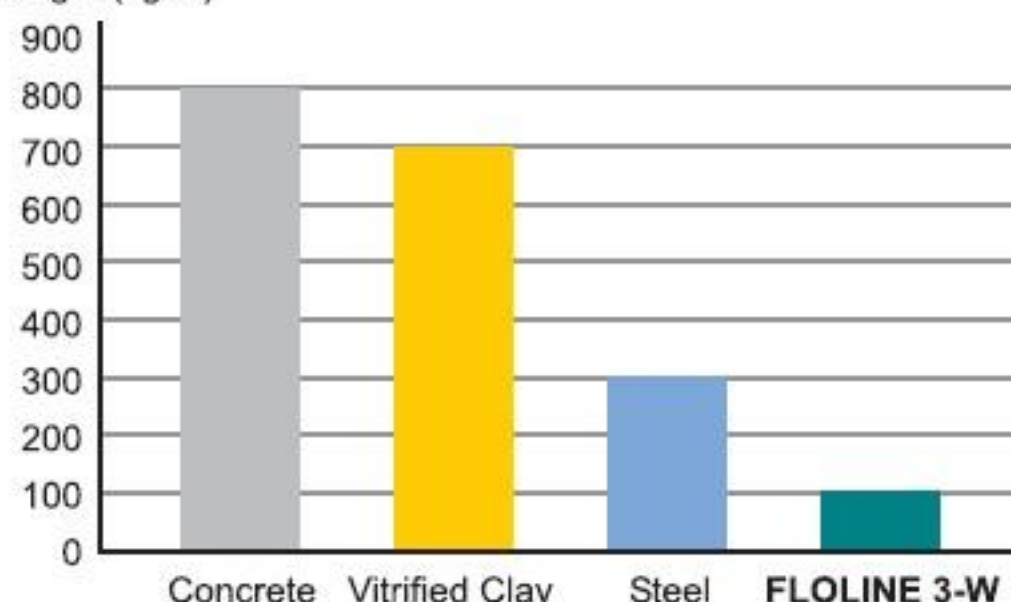
With a density lower than water, HDPE is among the lightest pipe material available. This feature makes large **FLOLINE 3-W** pipes easy to transport, handle and install.

Acidity, pH



Applicable pH range for various types of material

Weight (kg/m)



Weight comparison of various types of pipes  
(Based on 900mm Pipes)



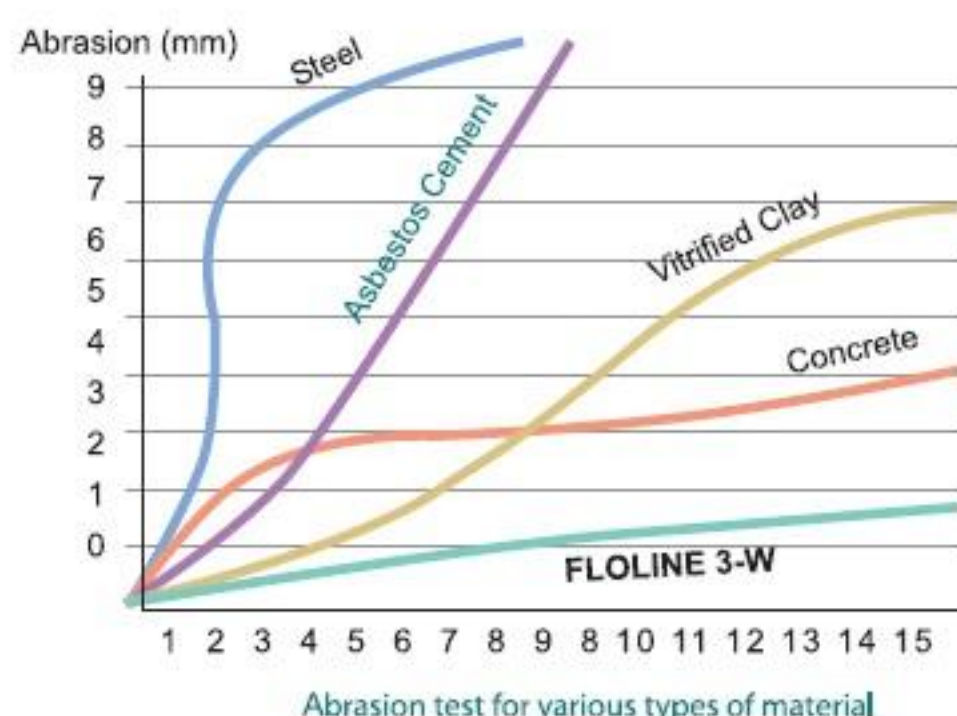
## ABRASION RESISTANT

Abrasion tests have shown that HDPE material is more resistant to abrasion than conventional materials like steel, clay or concrete. As such **FLOLINE 3-W** pipes are more suitable and long lasting in conveying or discharging fluids which contain abrasive material.

## BURIAL DEPTHS

The allowable depths for the burial of **FLOLINE 3-W** pipes depend on the type of backfill material, installation conditions, imposed loads and the pipe stiffness class. Unlike rigid pipes, the load bearing capacity of a flexible pipe depends on the relative interaction between the pipe and its surrounding soil.

For shallow cover applications under traffic loading, a minimum cover over the top of the pipe is needed to provide the pipe-soil system with sufficient load bearing capacity. Typically, a 20-tonne vehicle crossing requires a minimum cover of 0.9m (3'92) subject to soil condition. Under good soil conditions and installation practices,

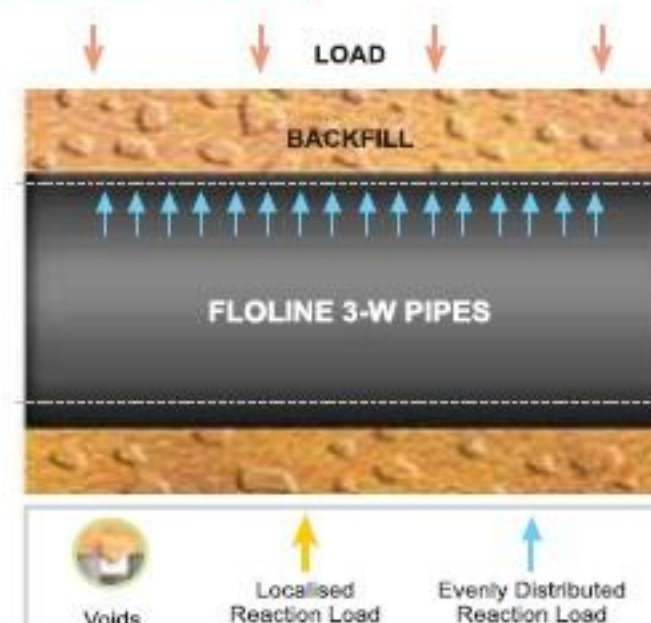


**FLOLINE 3-W** pipes can be buried up to between 10 to 20 metres deep depending on the pipe stiffness class.

## SMOOTH INTERNAL AND EXTERNAL WALLS

The smooth internal wall in the pipe and the ability of HDPE to resist scaling and abrasion provides **FLOLINE 3-W** pipes with a lower Mannings Flow Coefficient (i.e. lesser flow resistance, higher flow capacities) compared to other pipes.

The smooth external wall on **FLOLINE 3-W** pipes, not only provides high bending rigidity and stiffness, but makes burial installation much easier compared to pipes with external corrugation.



Burial loads on Pipes with Illustration of the Effect of Corrugated and Smooth External Walls

## PRODUCT STANDARD

**FLOLINE 3-W** pipes are certified to DIN 16961 Part 1 & Part 2: thermoplastics pipes and fittings with profiled outer and smooth inner surfaces. **FLOLINE 3-W** pipes are designed to meet the following standards.

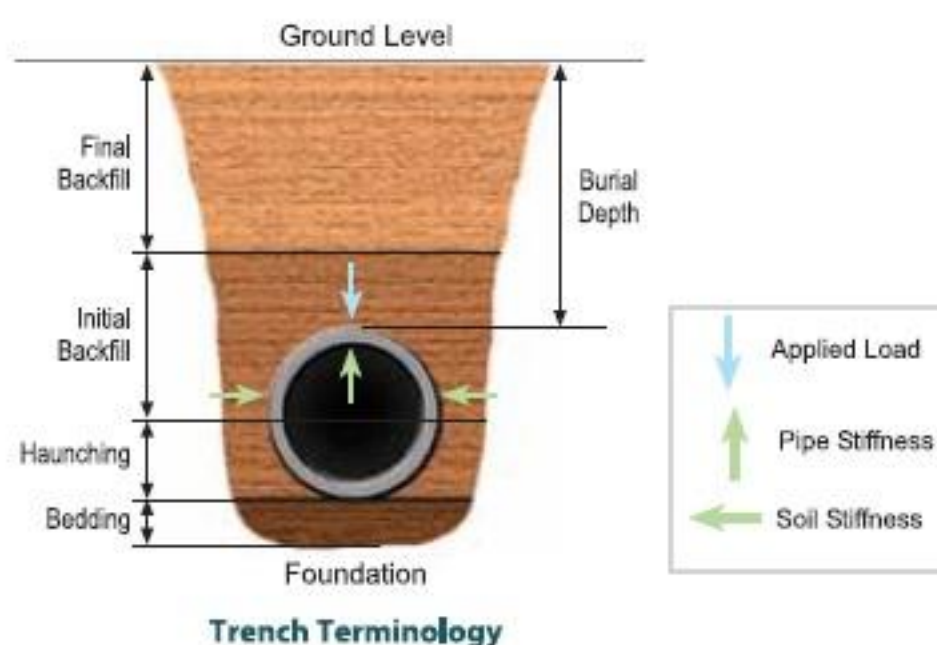
<b>ASTM F 894</b>	Standard Specification For Polyethylene (PE) Large Diameter Profile Wall Sewer and Drain Pipe.
<b>AASHTO M 294</b>	Corrugated Polyethylene Pipe, 12 to 24 inch Diameter.





## INSTALLATION

The "Handling and Installation Guide for **FLOLINE 3-W** HDPE pipes" provides comprehensive information and instructions on handling, laying, joining and burying **FLOLINE 3-W** pipes. Generally, the standard practice for installations of flexible pipes follows ASTM D 2321-89: Underground Installation of Thermoplastic Pipe for Sewer and other Gravity Flow Application.



## AVAILABILITY IN LONG LENGTHS

The continuous extrusion-winding manufacturing process can produce **FLOLINE 3-W** pipes in a very long lengths. Unlike pipes that come in short discrete lengths, **FLOLINE 3-W** pipes require less number of joints for the same length of pipeline system. This means minimum risks of leakage and lower installation costs.



## SIZES AVAILABLE

**FLOLINE 3-W** pipes are available in compliance with the following sizes:

Nominal Diameter	mm	300	450	600	750	900	1200	1500	1800	2000	2500	3000	3350
	Inches	12	18	24	30	36	48	60	72	80	100	120	134

Standard length: 6m, 9m and 12m.

## PIPE FITTING



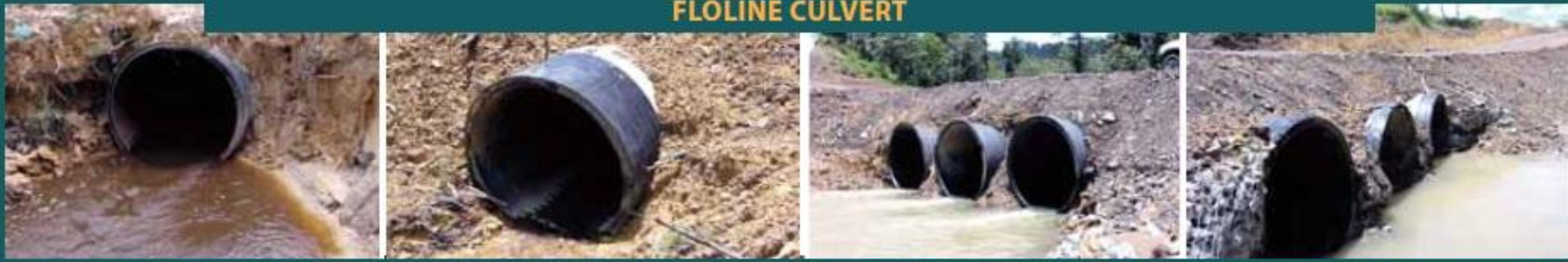
## PIPE JOINTING





## APPLICATIONS OF FLOLINE 3-W

### FLOLINE CULVERT



### PIPE AND FLAPGATE



### FLOLINE ECOTRAP (VERTICAL/HORIZONTAL)



### WASTEWATER PIPELINE



### FLOLINE RAIN HARVESTOR (UNDERGROUND)



### FLOLINE RAIN HARVESTOR (ABOVEGROUND)



### ON SITE DETENTION PIPE SYSTEM



### FLOLINE MANHOLE/PUMP SUMP





# **FLOLINE 3-W<sup>®</sup>**

**HDPE FLAPGATE**

## ***HDPE FLAPGATE***

**Specially Designed To Be Used With  
Engineering Grade Floline 3-W Pipes**



- **CULVERTS**
- **STORM DRAINS**
- **SEWER PIPES**
- **IRRIGATION CONDUITS**



## PRODUCT FEATURES AND ADVANTAGES

Self operating – high water level at upstream pushes open the flap to discharge water while high water level downstream pushes onto the flap to close the gate.

No lifting device or mechanisms required to operate.

High density polyethylene construction for long service life:

- Lightweight
- Corrosion-proof
- Impact resistant and durable
- UV resistant

Requires minimal maintenance:

- No protective coating to apply
- No lubrication required

Easy installation:

- Flapgate is pre-assembled onto pipe
- Saves time and cost



Size range:

SIZE RANGE (DIAMETER) (mm)								
Round Flapgate	600	750	900	1200	1500	2000	2500	3000
Square Flapgate	1 x 1		1.2 x 1.2		1.5 x 1.5		2.0 x 2.0	

## APPLICATIONS

- Tidal and flood control
- Storage and distribution of irrigation into agricultural schemes
- To prevent back flow of water at the end of washout line
- Prevent intrusion of salt water during high tides
- Increase agriculture yield
- Suitable for use in pipeline, sewer, water and waste water application

## FLAPGATES FOR WATER CONTROL





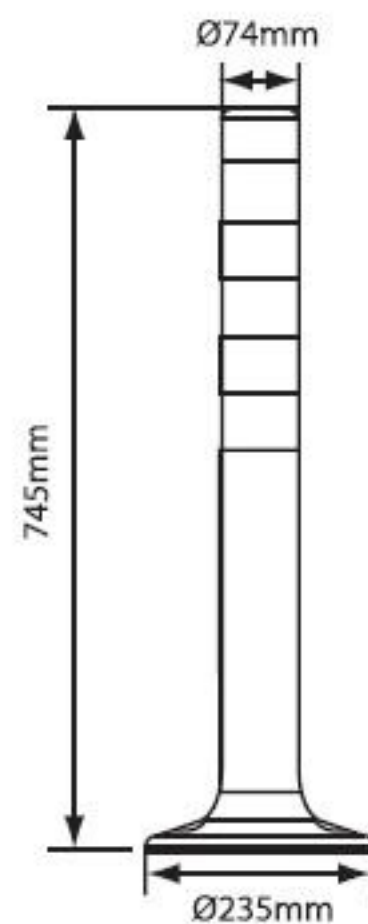
# WEIDA DELINEATOR

## TRAFFIC SAFETY EQUIPMENT



### PRODUCT FEATURES AND ADVANTAGES

- High Impact Resistance
- UV Stabilised
- Lightweight
- One Piece Moulded
- High Elasticity
- Clear Reflective Stickers
- Highly Durable





# TrafSAFE™

## PE ROAD BARRIER



**RB100**

### PRODUCT FEATURES

- Helps prevent accidents
- Control traffic flow
- One piece moulded
- Weather resistant
- UV stabilized
- Provide energy-absorbing barrier protection, reducing impact
- Lightweight, easy to deploy and remove without cranes or heavy equipment
- Alternating white and red sections provide superior visibility
- Optional parts – Hoarding Panel to increase height of the Road Block

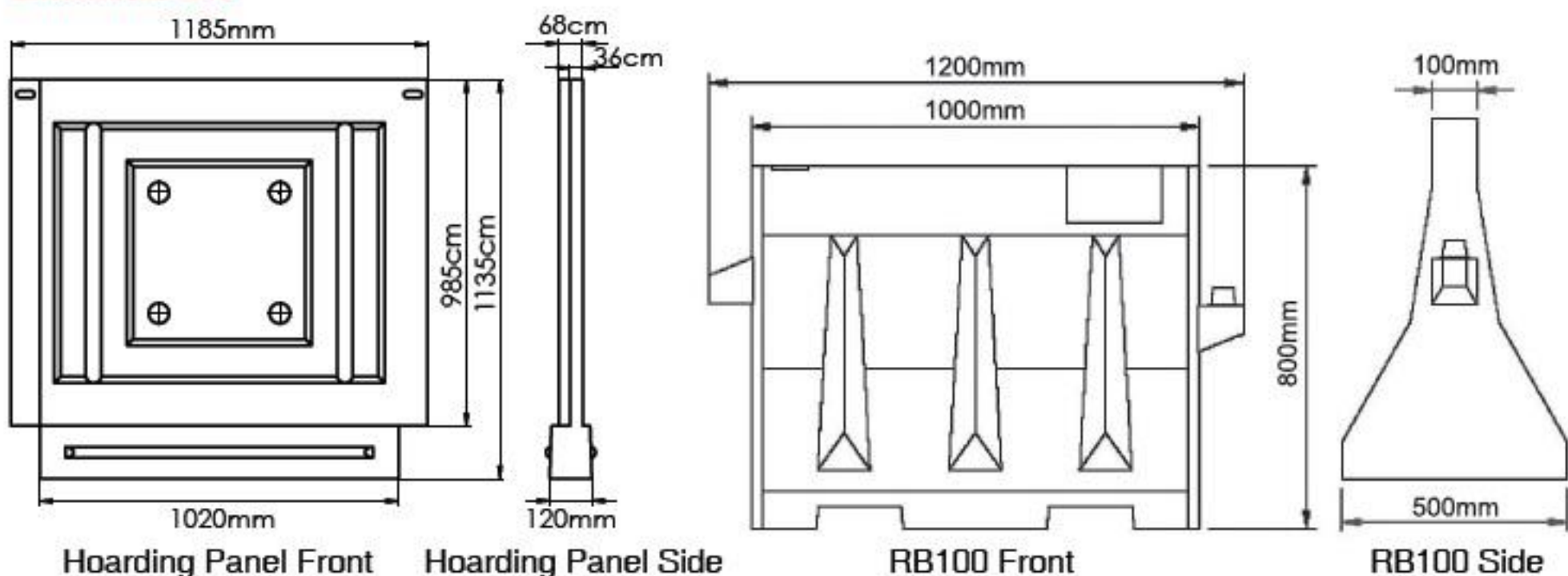
DESCRIPTION	L1	L2	W1	W2	H1
RB100	1000mm	1200mm	100mm	500mm	800mm
Hoarding Panel	1020mm	1185mm	68mm	120mm	985mm *1135mm

\* For Hoarding Panel



**Hoarding Panel**

### DIMENSION





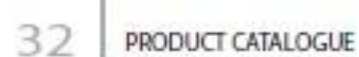
**TrafSAFE™**  
**PE ROAD BARRIER**

**RB200**

**PRODUCT FEATURES**

- Helps prevent accidents
- Control traffic flow
- One piece moulded
- Weather resistant
- Provide energy-absorbing barrier protection, reducing impact
- Alternating white and red sections provide superior visibility
- Lightweight, easy to deploy and remove without cranes or heavy equipment
- UV stabilized

## DIMENSION





# POLYBIN

## INTRODUCTION

**POLYBIN** are made of high quality polyethylene which are attractively designed and come in an array of colours to blend in with any surrounding for both indoor and outdoor applications for a cleaner and healthier environment.

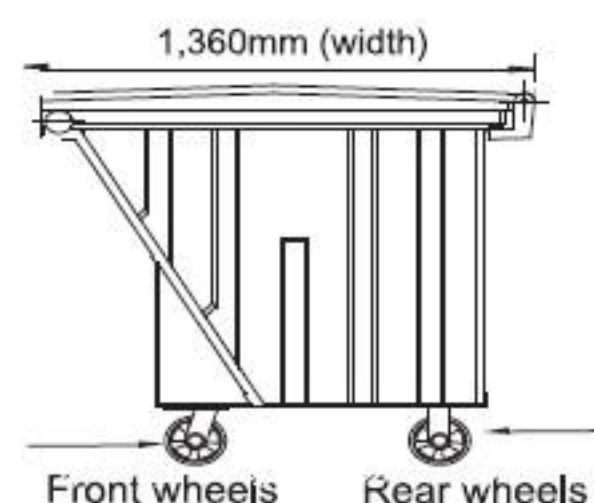
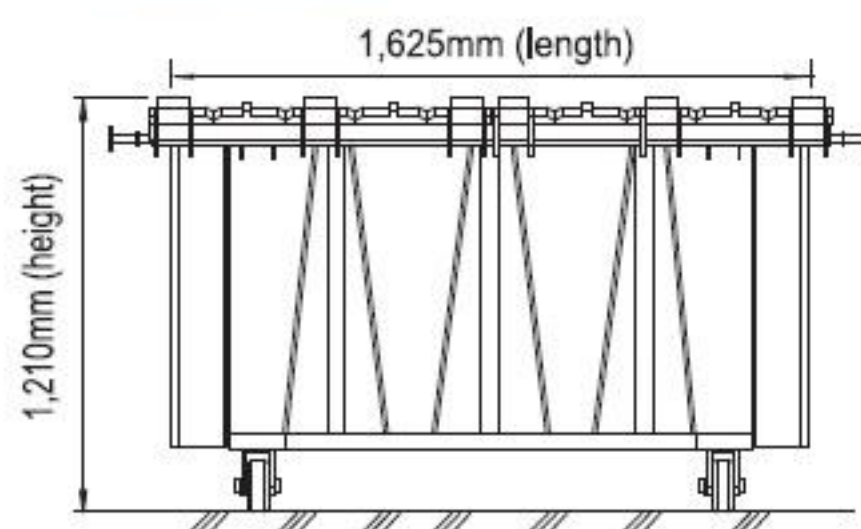
## PRODUCT FEATURES AND ADVANTAGES

- Tough, durable, impact and weather resistant
- Light weight and ergonomically designed for easy handling
- Easy mobility and flexibility
- Non-corrodible rust-proof and resistant to most chemicals
- Smooth interior and exterior for easy cleaning



## LEACH BIN

**CAPACITY** : 1100L  
**COLOUR** : GREEN / BLUE  
**TOP** : 1,625mm (L) x 1,360mm (W)  
**Base** : 1,470mm (L) x 820mm (W)  
**Height** : 1,210mm



## WHEELED BIN

**CAPACITY** : 660L / 120L / 240L  
**COLOUR** : GREEN

	660L	120L	240L
Length	: 1,250mm	480mm	600mm
Width	: 770mm	555mm	740mm
Height	: 1,180mm	930mm	1,070mm





## CLASSICAL BIN

STANDING BIN

**CAPACITY** : 85L  
**COLOUR** : GREEN / BLUE / YELLOW  
**DIAMETER** : 610mm  
**HEIGHT** : 1,090mm



## NEXUS BIN

STANDING BIN

**CAPACITY** : 150L  
**COLOUR** : MARBLE/SANDSTONE/  
 PINK GRANITE/ MILESTONE /  
 WHITE MARBLE  
**SIZE** : 630mm (Top Dia.) X  
 603mm (Bottom Dia.) X  
 1,150mm (Height)



## HARLEQUIN BIN

STANDING BIN

**CAPACITY** : 110L  
**COLOUR** : GREEN / BLUE / YELLOW  
**DIAMETER** : 540mm  
**HEIGHT** : 1,015mm



## BREGO BIN

STANDING BIN

**CAPACITY** : 45L  
**COLOUR** : GREEN / BLUE / YELLOW  
**WIDTH** : 520mm  
**DEPTH** : 270mm  
**HEIGHT** : 780mm



## ROBIN

STANDING BIN

**CAPACITY** : 70L  
**COLOUR** : GREEN / BLUE / YELLOW  
**DIAMETER** : 360mm  
**HEIGHT** : 800mm



## WIZARD BIN

STANDING BIN

**COLOUR** : GREEN / BLUE / YELLOW

	60L	85L
<b>LENGTH</b>	390mm	500mm
<b>WIDTH</b>	390mm	500mm
<b>HEIGHT</b>	760mm	970mm



## MERLIN BIN

HANGING BIN

**CAPACITY** : 40L  
**COLOUR** : GREEN / BLUE / YELLOW  
**WIDTH** : 460mm  
**DEPTH** : 360mm  
**HEIGHT** : 570mm



## DURABIN BIN

STANDING BIN

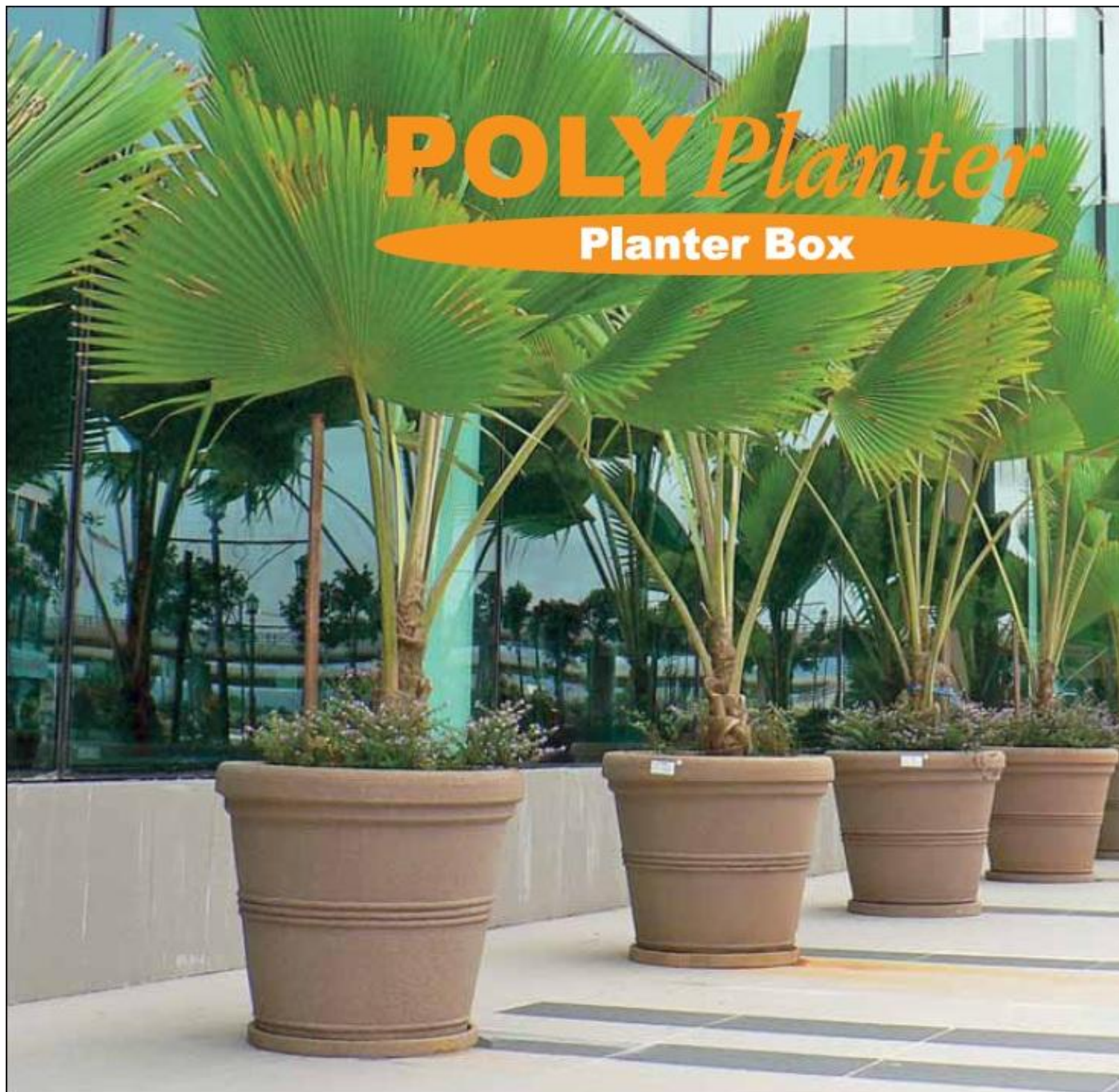
**CAPACITY** : 68L  
**COLOUR** : Silver / Black  
**TOP DIA.** : 535mm  
**BOTTOM DIA.** : 360mm  
**HEIGHT** : 710mm





# POLY Planter

## Planter Box



### PRODUCT COLOUR



TERRACOTTA



WHITE MARBLE



GOLDEN SAND

### INTRODUCTION

**POLYPLANTER** revolutionizes the basic concept and surpasses the obsolete function of conventional ceramic planters. Scientifically designed to make plants flourish, **POLYPLANTER** has a non-evaporating wall. So soil doesn't dry up quickly. **POLYPLANTER** is also non-porous, so it discourages bacteria growth, leading to optimal growth of plants. Discover a simpler and more economical way in gardening with **POLYPLANTER**.

### PRODUCT FEATURES AND ADVANTAGES

#### HDPE CONSTRUCTION

- leak proof one piece seamless unit
- strong, rugged and durable
- hygienic and maintenance free
- lightweight for easy handling
- weather resistant (UV stabilised)
- environmental friendly

#### DESIGN AND MANUFACTURING

- attractive and user friendly design
- comes in various shapes and sizes
- available in solid and stone effect colours



## A. BOWL PLANTER



Model	Upper Dia.	Bottom Dia.	Height
PP-78	78	50	67.5
PP-90	90	50	78

Model	Upper Dia.	Bottom Dia.	Height
BR-60	58	22	28
BR-120	120	56	56

Model	Upper Dia.	Bottom Dia.	Height
DS-65	65	40	42
DS-80	80	53	51

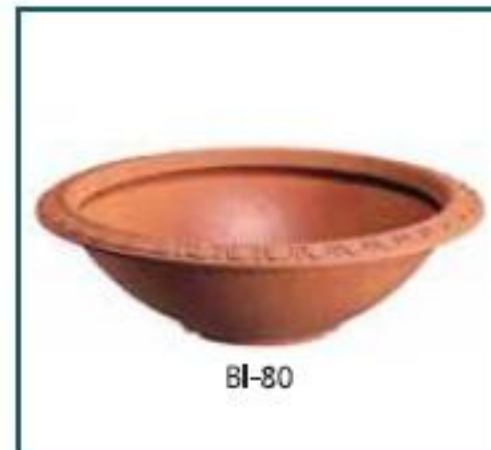


Model	Upper Dia.	Bottom Dia.	Height
GL-50	50	27	28.5

Model	Upper Dia.	Bottom Dia.	Height
FI-85	85	47.5	76.5

Model	Upper Dia.	Middle Dia.	Height
SI-65	41	65	51
SI-80	49.5	80	60

Model	Upper Dia.	Bottom Dia.	Height
LF-50	52	18.5	23



Model	Upper Dia.	Depth	Height
LI-45	44	22.5	24.5

Model	Upper Dia.	Bottom Dia.	Height
BI-80	80	29.5	22

## B. SQUARE & RECTANGULAR POLYPLANTER



Model	Width	Length	Height
FA-60	25	60	23

Model	Width	Length	Height
IT-40	40	40	43.5

Model	Width	Length	Height
BQ-60	60	60	53

\* All measurements are in cm.



# POLYTRAP<sup>®</sup>

## SOLIDS AND GREASE INTERCEPTOR

### INTRODUCTION

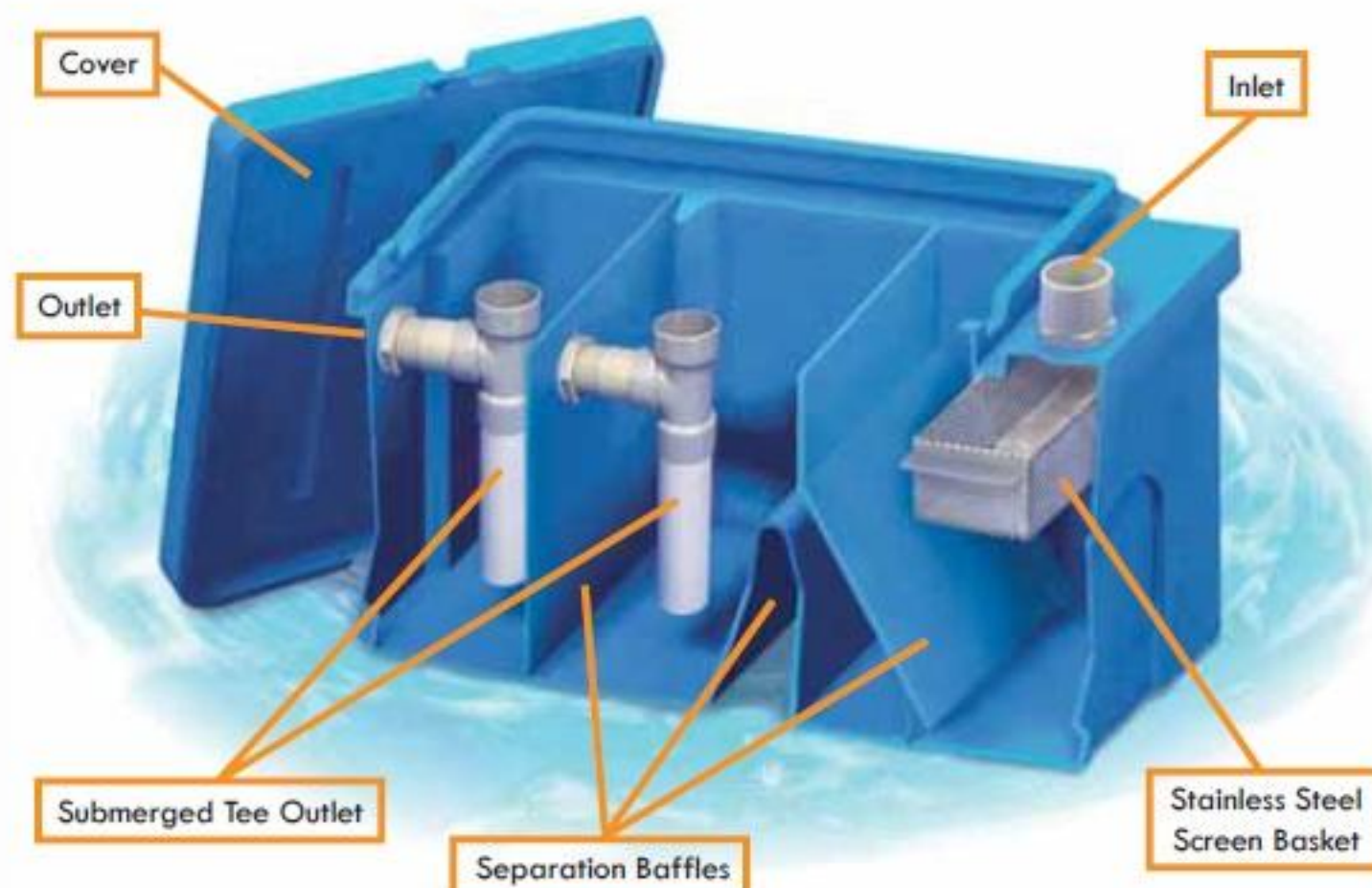
Oil grease and fats are major and serious sources of pollution to drains, streams, rivers, waste water treatment systems and the environment. POLYTRAP eliminates solids, oil, grease and fats at source.

### PRODUCT FEATURES AND ADVANTAGES

- **Easy Installation:**  
Simple, fast inlet and outlet connections and installation.
- **Versatile and Compact:**  
Suitable for domestic and commercial applications with small foot print. Designed for installation under small sinks on both new and existing kitchen.
- **Durable and Reliable:**  
Molded from engineering grade High Density Polyethylene (HDPE). High strength, durable and complete corrosion proof.
- **Multi-Baffle Design:**  
Effectively reduces flow velocity to trap more grease.
- **Easy Maintenance:**  
Convenient top access for easy cleaning and grease removal.



MODEL	CAPACITY (litres)	DIMENSIONS (mm)				TYPICAL APPLICATIONS
		HEIGHT	WIDTH	LENGTH	OUTLET HEIGHT	
PT-30N	30	375	400	520	245	Household kitchen & Individual food stall
PT-50N	50	400	480	690	255	
PT-100N	100	450	500	880	345	Coffeeshops & Cafes
PT-200N	200	526	635	990	360	Restaurants & Canteens





# WEIDACAGE III

## INNOVATIVE SYSTEMS FOR AQUACULTURE

### INTRODUCTION

Weida Group has a specialist unit- 'AQUAPOSS' – subscribing to a world-wide specialist network, offering both aquaculture operation, consultation and engineering services. Some of the key support service offered are:-

- Extension & training
- Common farm services
- Marketing channel to local and overseas
- Farm management, feeds, fish fries
- Equipment & accessories
- Research & Development in aquaculture

### PRODUCT FEATURES AND ADVANTAGES

- Non-toxic, non-degradable
- UV stabilised
- Module system
- Strong and durable
- Flexible cage configuration / arrangement
- Fast & easy assembly, disassembly and installation
- Integrated system with complete range of accessories
- Reversible surfaces for easy fouling control
- Anti-slip surfaces
- Maintenance free
- Comprehensive instruction manual

### FLOAT MODULE SPECIFICATIONS

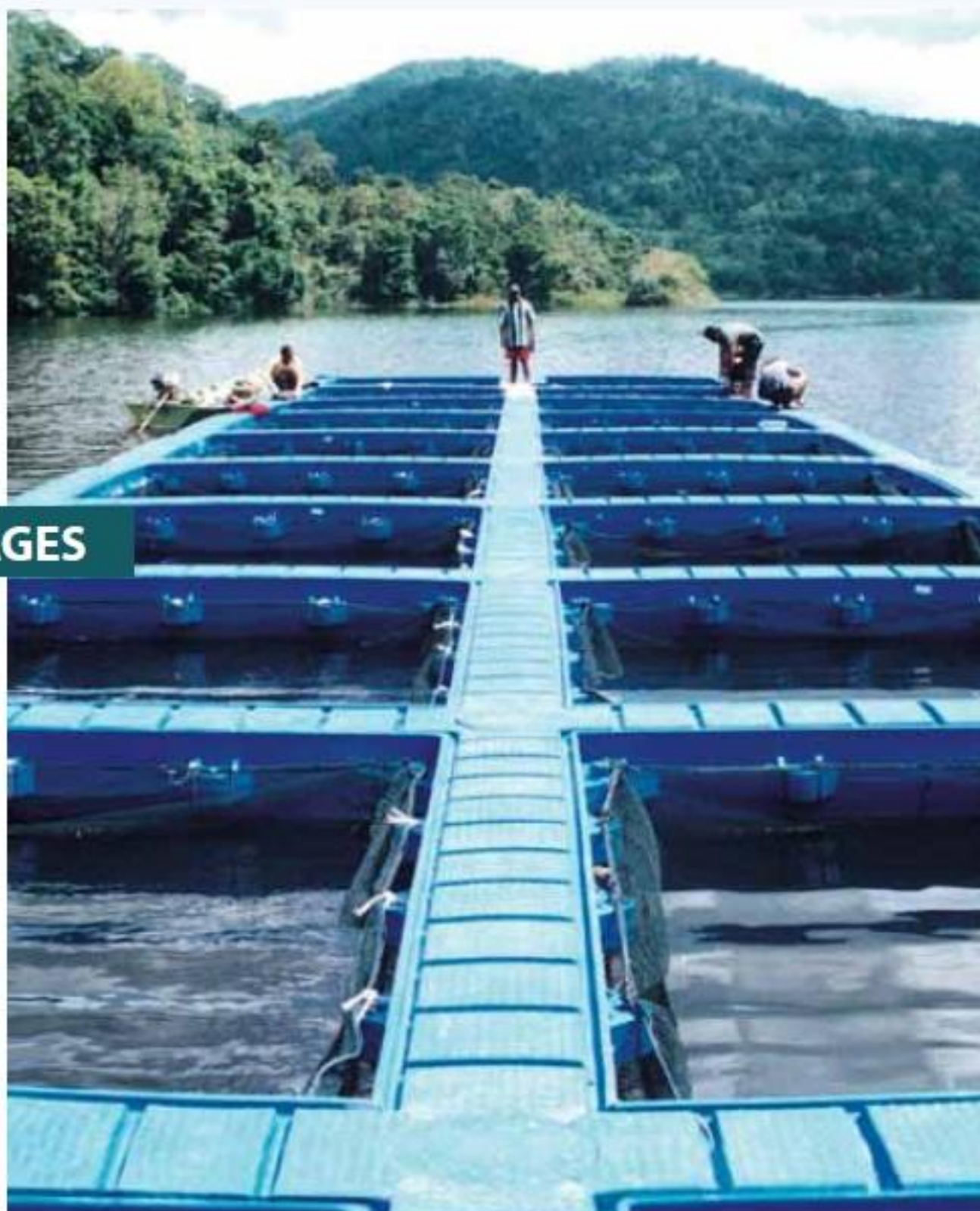
Length : 3450mm, 6434mm

Width : 450mm

Height : 350mm

Material : High Density Polyethylene (HDPE)

Colour : Blue



### ACCESSORIES



- A Net Stretcher Post  
(For Each Corner)
- B Net Bar
- C Net Hook
- D PE Net Post  
(Various Lengths)
- E Net

Standard Cage Sizes :- 3000mm x 3000mm



# AQUATANK

- UV Resistant
- Strong, Seamless and Leakproof
- Non-Corrosive
- Long-Lasting

## THE NEW GENERATION AQUATIC SOLUTION



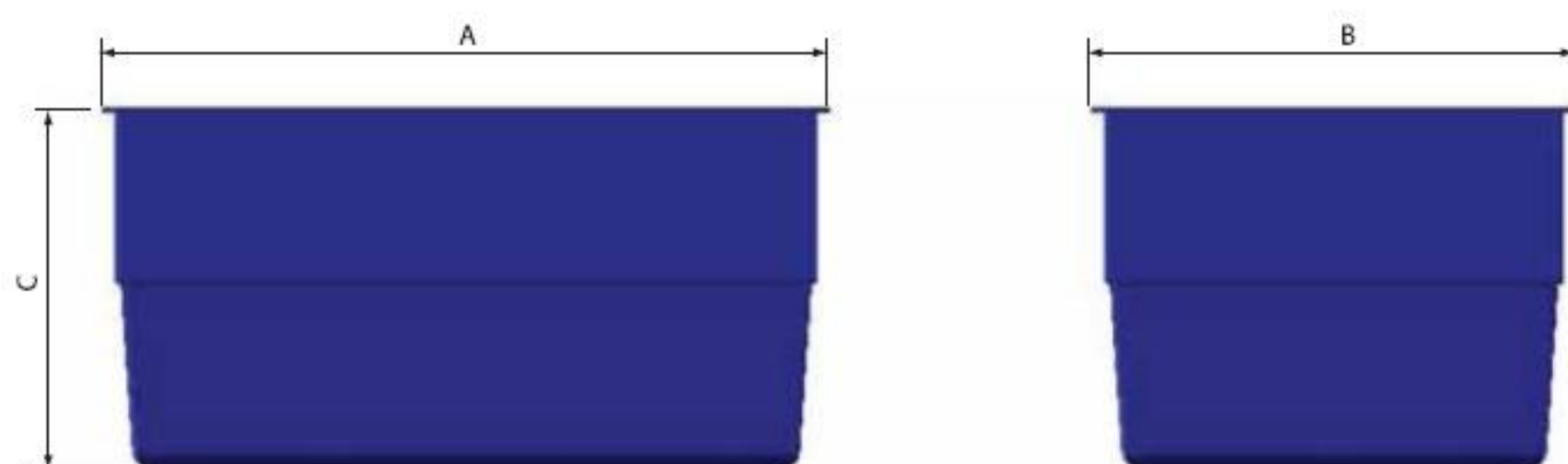


## CONICAL FISHERY TANK



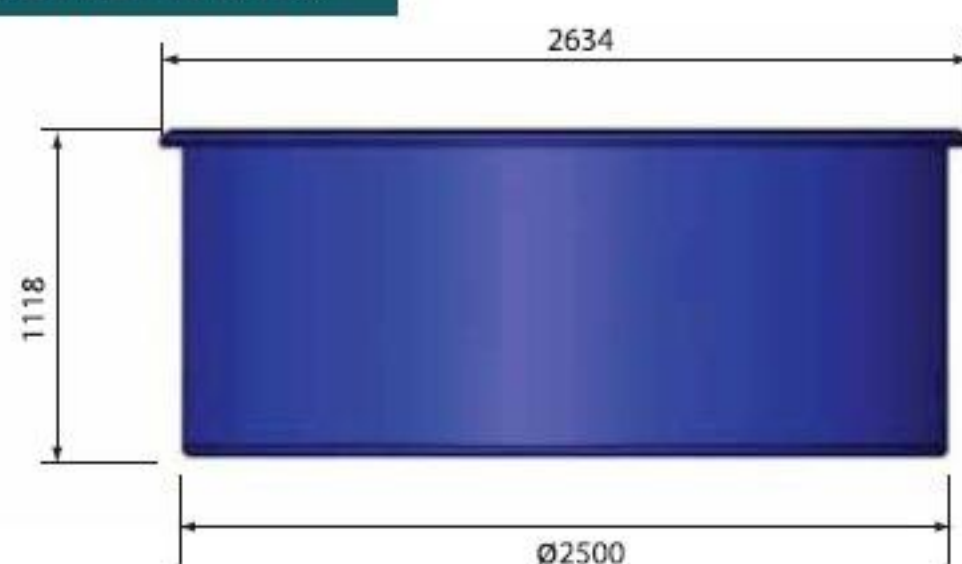
MODEL	CAPACITY	A	B	C	D	E	F	G	H
<b>CB30</b>	<b>3000 litres</b>	2198	2030	1206	200	180	1780	1668	248
<b>CB35</b>	<b>3500 litres</b>	2418	2250	1143	200	180	2010	1597	254

## RECTANGULAR TANK

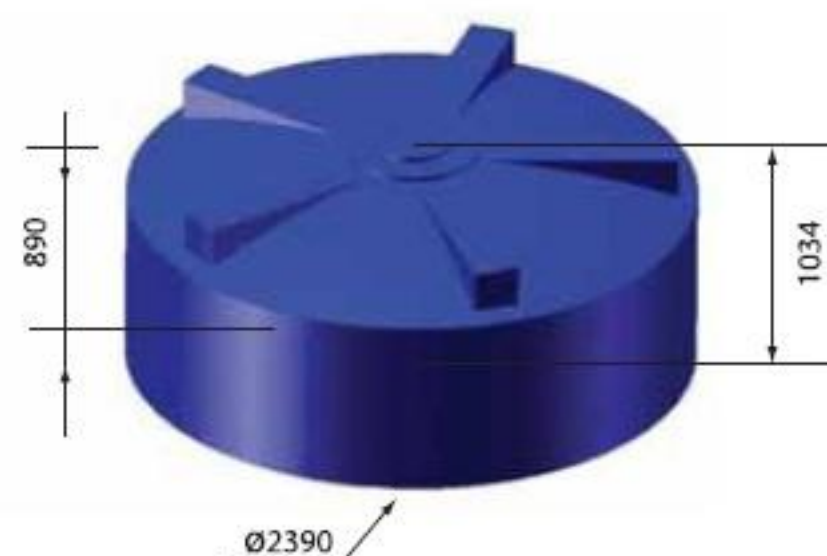


MODEL	CAPACITY	A	B	C
<b>RT643</b>	<b>750 litres</b>	1830	1219	914
<b>RT843</b>	<b>1020 litres</b>	2438	1219	914

## ROUND TANK



MODEL	CAPACITY
<b>FB50</b>	<b>5000 litres</b>



MODEL	CAPACITY
<b>R40 CSS</b>	<b>4000 litres</b>



The image features a large, close-up photograph of a hand cupped together, holding a splash of clear water. The background is a bright, clear blue sky. Overlaid on the lower half of the image is a 3D cutaway diagram of a house showing its internal plumbing system. The diagram illustrates the path of rainwater from the roof, through a filter, into an aboveground tank, and then into an underground tank. The house is shown in a cross-section, revealing the kitchen, living area, and basement. The roof is dark grey, and the interior is furnished with a sink, stove, and various pipes. The underground tank is shown as a large, dark, cylindrical container buried in the ground. The overall theme is rainwater harvesting and sustainable water management.

# Rainwater Harvesting Series

Filter

Aboveground  
Rainwater Tank

Underground  
Rainwater  
Tank



## UNDERGROUND RAINWATER TANK

WEIDA underground tank Rainwater Harvester is a contemporary solution for rainwater capture and rainwater harvesting. It is a lightweight and economical underground tank complete with access manholes and covers, internal pipings and fittings for fast installation on-site. It is also very durable and highly resistant to chemical and physical cracking caused by external pressure.

### UNDERGROUND RAINWATER HARVESTOR (VERTICAL)

#### Product Features:

- Capacity: 1200 liters, 2000 liters & 3000 liters
- Colour: Black
- Lightweight
- Economical
- Chemical resistant
- Leak proof one piece seamless unit
- Quick installation
- Strong, rugged & durable

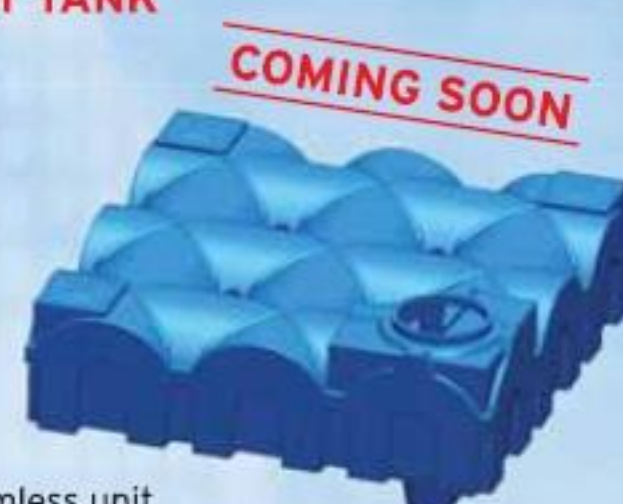


More details on page 44

### UNDERGROUND FLAT TANK (HORIZONTAL)

#### Product Features:

- Capacity: 1500 liters & 3000 liters
- Colour: Blue
- Lightweight
- Low installation cost
- Chemical resistant
- Leak proof one piece seamless unit
- Easy & quick installation - Small & little excavation
- Ideal for additional installation on existing properties



## ABOVEGROUND RAINWATER TANK

WEIDA above ground tank Rainwater Tank is the answer to water supply fluctuations & disruptions. Its unique design and construction makes it visually discreet, attractive and easy to install. Clean rainwater can be utilized via gravity flow from the outlet, without the use of a pumping system.

### AQUA SLIM Model: AST-250

#### Product Features:

- Capacity: 1137 liters
- Dimension : 0.37m (W) X 2.04m (L) X 2.04m (H)
- Colour: Variety of stone effect colours to suit landscape
- Space saving
- Easy installation especially on narrow passages & along sidewalls of the house

AQUA SLIM™



#### Color :

- Beige
- Rivergum



More details on page 46

### BACFREE 750

#### Product Features:

- Capacity: 750 liters
- Dimension: 0.70m (W) X 1.20m (L) X 1.12m (H)
- Colour: Marble Grey
- Suit limited space application and narrow passageways
- Can be connected to increase storage capacity
- One piece seamless unit without any joints
- Excellent surface finish



### RAINSAVER TANK (Model: RST400)

#### Product Features:

- Capacity: 1800 liters
- Dimension : 1.30m (D) X 1.65m (H)
- Colour: Blue
- Built-in first flush diverter - initial 25 liters will be kept away from entering the tank
- Simple to install
- Maintenance free
- Leak proof one piece seamless unit



RAINSAVER TANK  
PE RAINWATER HARVESTING TANK



More details on page 45

### DD 750

#### Product Features:

- Capacity: 750 liters
- Dimension : 0.9m (W) X 0.6m (L) X 1.8m (H)
- Inlets/outlets are flexible & can be positioned anywhere
- Made from durable HDPE and is UV-resistant
- Blends beautifully with the exterior of a house



#### Color :

- Beige
- Grey
- Green



## PRE-TANK FILTERS

### FILTERMAX (Model: RHF200)

The Cyclone Filter allows rainwater collection and coarse contaminants separation at the same time. Cyclone effect is created inside and channels unwanted contaminants through the center of the chamber at the same time filtered water is collected at the lower part of the chamber via filter mesh.

#### Product Features:

- Roof area of application: Up to 200m<sup>2</sup>
- Easy installation from gutter to rainwater tank
- Over 90% of rainwater collection efficiency
- Tough, durable and corrosion free
- Complete with internal filter mesh

#### Color :

- Beige
- Dark Blue



More details on page 47

### FIRST FLUSH DIVERTER

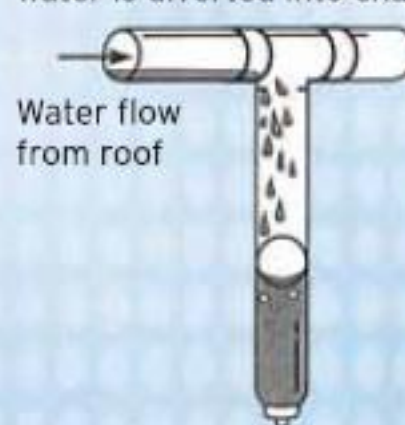
The First Flush Diverter functions as a by-pass tank for the initial influx of water from the roof. It improves water quality and reduces tank maintenance by preventing first flush of water from the roof surface, which is usually contaminated with dirt, bird droppings, dust particles and other materials.

#### Product Features:

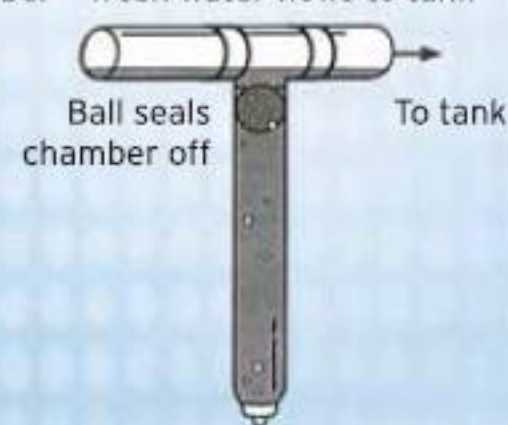
- Size: 100mm pipe
- Diversion capacity: 1m of 100mm pipe holds 8.8 liters
- Colour: White
- Easy installation, just add pipe and glue
- Improves water quality, protects pumps & internal appliances
- Prevent dirt, sediments, mosquito eggs, insects from entering the rainwater tank



First flush of contaminated water is diverted into chamber



Once chamber is full, fresh water flows to tank



## IN-TANK INTEGRAL FILTERS

### 3P COMPACT FILTER

The 3P Compact Filter is the ideal solution for rainwater filter inside rainwater tank. It is recommended to use where there is little room and no height difference between inlet and outlet. The 3P Compact Filter is ideally suited for use in conjunction with Overflow Siphon Duo.

#### Product Features:

- Colour: Blue
- Easy installation
- Roof area of application: Up to 150m<sup>2</sup>
- Low maintenance depending on contamination
- Mesh size of filter cartridge 0.7 x 1.7mm



### OVERFLOW SIPHON DUO

The Overflow Siphon Duo is installed inside the rainwater tank between the filter and the tank wall overflow outlet. Adequate overflow is essential for optimum tank water quality, so that the water remains fresh.

#### Product Features:

- Colour: Blue
- Lightweight
- Complete with odour barrier and skimming effect on tank water surface
- Easy installation - Installation errors will be avoided because of the fix height displacement in the overflow siphon therefore securing the function.





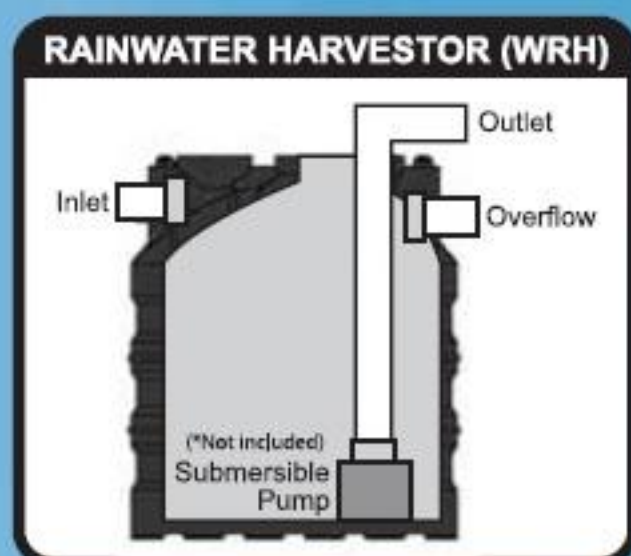
# UNDERGROUND RAINWATER HARVESTOR VERTICAL

## HDPE CONSTRUCTION

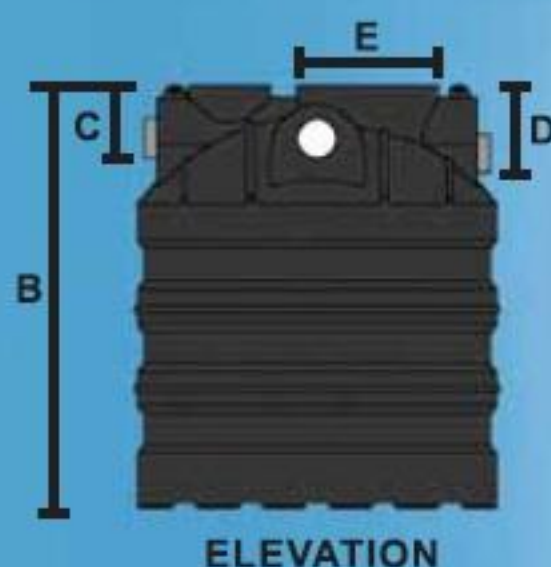
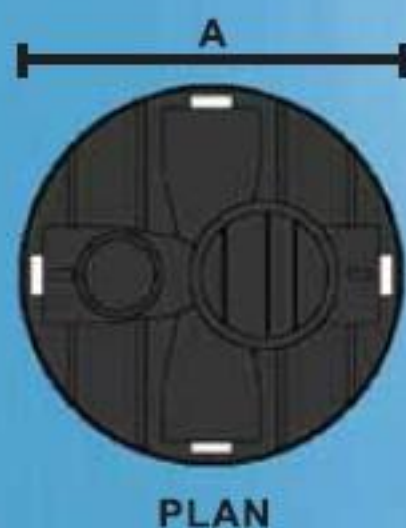
- Leakproof one piece seamless unit
- Strong, rugged and durable
- Impact resistant and corrosion proof
- Chemical resistant and maintenance free
- Lightweight and economical
- Corrosion proof and chemical resistant, impact resistant with superior structural strength
- Prefabricated complete with access manholes and covers, internal pipings and fitting for fast installation on-site

## DESIGN AND MANUFACTURE

- Strong structural design using the latest computer analysis techniques
- Manufactured by the most modern moulding process using premium grade polyethylene resins



\*Note: Submersible pump not inclusive



MODEL	WRH	WRH	WRH
Litre	1200	2000	3000
Inlet/Outlet (mm) dia.	100	100	100
DIMENSIONS			
A (mm) dia.	1300	1450	1625
B (mm)	1330	1760	1740
C (mm) dia.	210	210	220
D (mm) dia.	260	260	270
E (mm) dia.	510	510	530





# RAINSAVER TANK RST 400

## PE RAINWATER HARVESTING TANK

### PRODUCT FEATURES

**Our RainSaver tank is the answer to water supply fluctuations & disruptions.**

The **RAINSAVER TANK** features a built in first flush diverter to prevent the initial 25 liters of rainwater run off containing fine debris from entering the tank. When the diverter is full, the ball float will float up, blocking the inlet to the diverter. Rainwater is thus diverted to the **RAINSAVER TANK**. The first flush diverter will then reset itself by slowly draining off the initial rainwater and debris via the drainage pipeline, after which it will be empty and ready for the next rainfall.

#### • CONSUMER BENEFITS

Clean rainwater (which has no contact with soil, dissolved salts and minerals) can be utilized as a water source.

#### • PREMIUM GRADE POLYETHYLENE MATERIAL

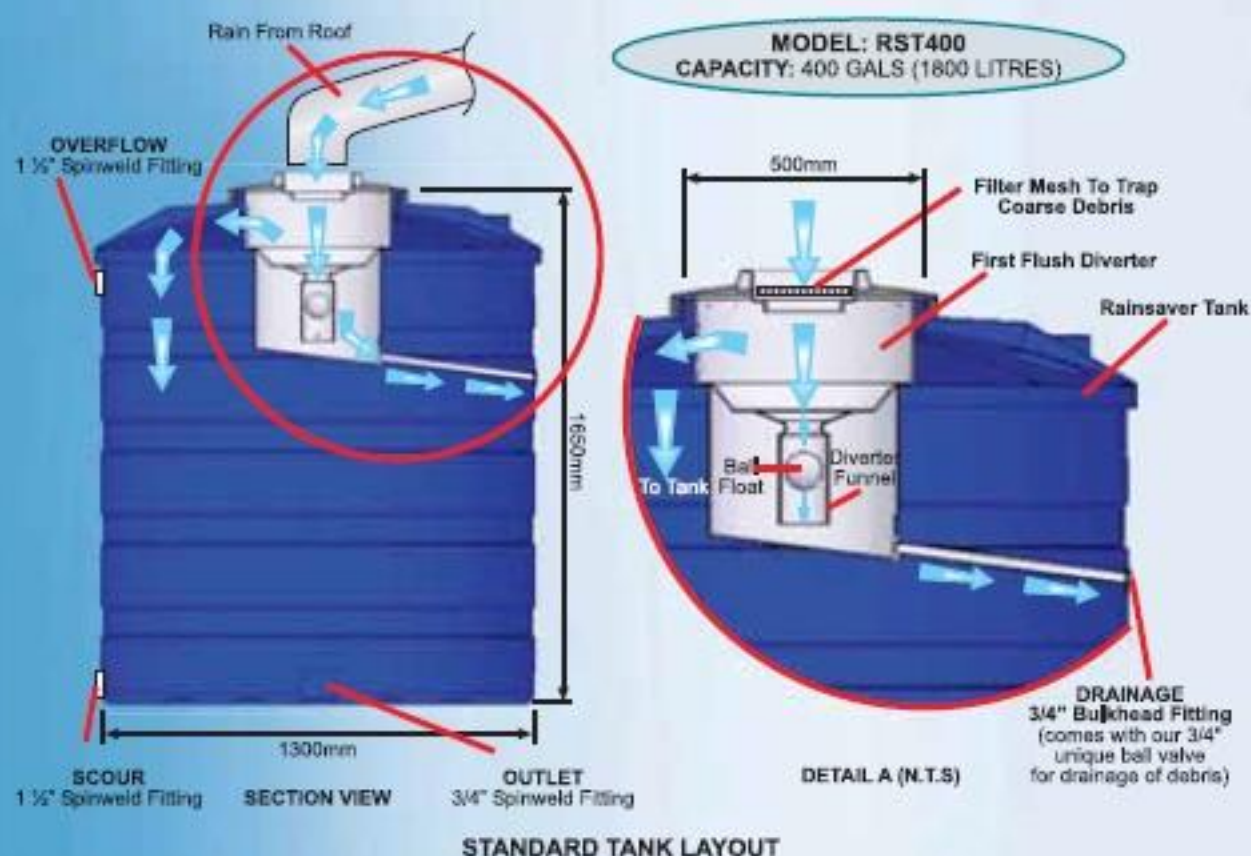
Our **RAINSAVER TANK** is produced using specially formulated polyethylene material to provide exceptional durability and maximum UV protection for outdoor use.

#### • SEAMLESS TANK DESIGN

Manufactured as a single piece molding without any joints or welds through an advanced rotational molding process, the **RAINSAVER TANK** is leak proof.



Ensuring the constant supply of fresh, clean water...



MODEL	CAPACITY		DIMENSIONS (mm)	
	Gallons	Litres	Diameter (D)	Overall Height (H)
<b>RST400</b>	400	1800	1,300	1,650



Less space is no longer a problem  
Introducing...

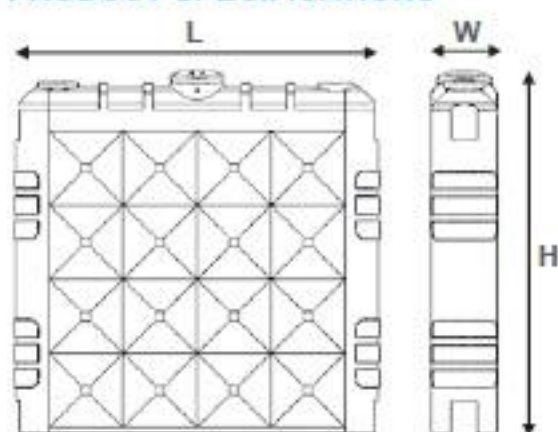
# AQUASLIM™

## AST-250

### PRODUCT COLORS



### PRODUCT SPECIFICATIONS



CAPACITY		DIMENSIONS (mm)		
Gallons	Litres	L	W	H
220	1137	2040	365	2045

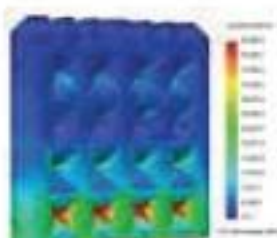
### RANGE OF FITTING SIZES

STANDARD TANK LAYOUT	
Inlet	1" Spinweld Fitting
Overflow	3/4" Spinweld Fitting
Outlet	1" Spinweld Fitting
Scour	1" Spinweld Fitting

RAINHARVESTING APPLICATIONS	
Inlet	4" uPVC Socket w/ seal (max.)
Overflow	2" Spinweld (max.)
Outlet	2" Spinweld (max.)
Scour	2" Spinweld (max.)

### PRODUCT FEATURES

The AQUASLIM (AST-250) is the latest innovation in WEIDA's range of premium water storage tanks. Its unique design and construction makes it visually discreet, attractive and easy to install. With its slim profile it gives the end user the advantage and ease of installation on narrow passages and along sidewalls of the house. It is an ideal choice and blends perfectly with urban buildings.



Designed with optimal functionality and performance in mind using the latest design and simulation software tools.



Advanced raw material formulation ensures excellent UV protection, weatherability and color fastness.



Polymer compounding technology creates a product that has excellent durability and high impact strength. Our tanks are built tough.



Growth of harmful algae and bacteria inside the tank is prevented and stored water is always maintained clean and safe for consumption.

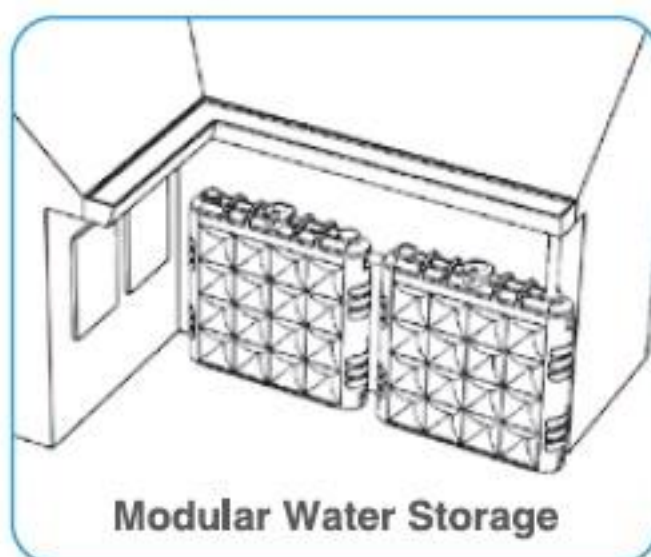


Stringent quality control measures are employed in every stage of manufacturing the product. Our clients are ensured quality products every time.



We provide a 10-year product warranty against any manufacturing defects. Our technical personnel are always ready to assist in any enquiries regarding our products.

### APPLICATIONS



Note: Product to be coupled with WEIDA's Filtermax rain filter to become an efficient rainwater collection system.



# FilterMAX™ RHF200

Malaysia  
**Good design**

## PRODUCT FEATURES

- Unique design that allows rainwater collection and coarse contaminants separation at the same time
- Easy installation from gutter to rainwater storage tank
- High water collection efficiency, over 90% of rainwater is collected
- Tough, durable and corrosion free construction

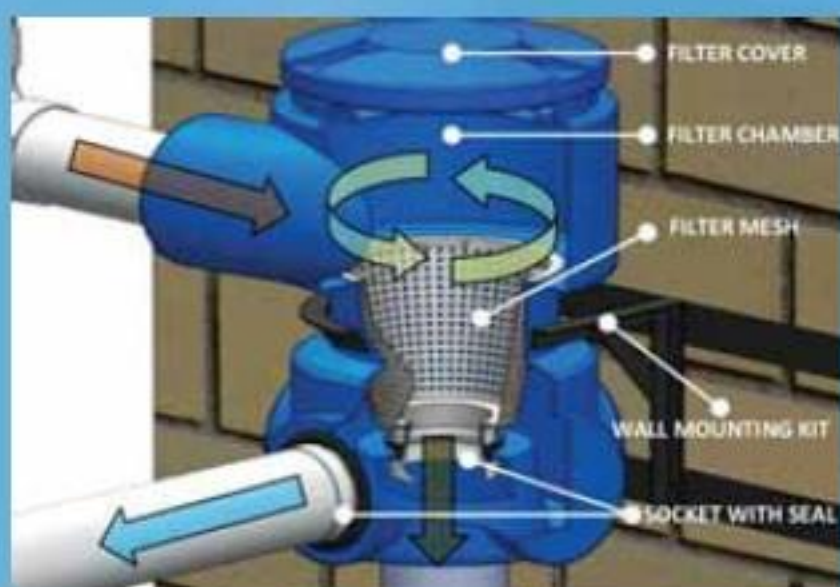


TYPICAL SITE INSTALLATION

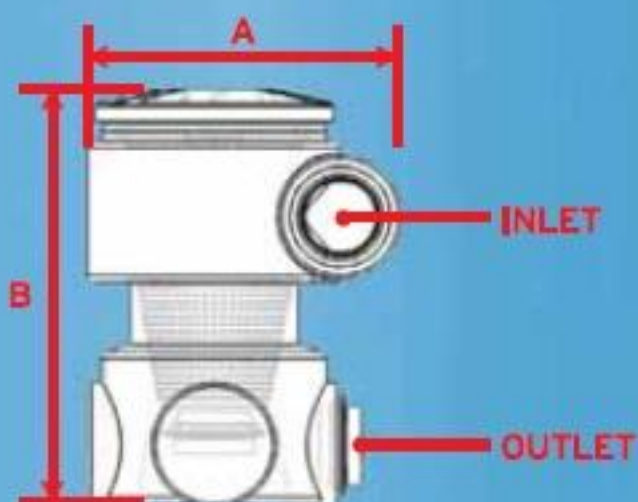


**Cleaner and  
Efficient Way  
to Collect Rainwater!**

## HOW IT WORKS



- ➔ Rainwater with contaminants such as leaves and twigs from the roof enters the gutter downpipes through the filter's inlet
- ➔ Cyclone effect is created inside and channels the unwanted contaminants to be discharged at the center of the chamber at the same time the filtered water is collected at the lower part of the chamber via the filter mesh
- ➔ The contaminants are flushed down through the drain pipe
- ➔ Clean filtered rainwater free from contaminants is channeled to the first flush diverter of the storage tank



MODEL RHF-200	
A	442.5 mm
A1	355.0 mm
B	590.0 mm
B1	180.0 mm
B2	87.5 mm
ROOF AREA	Up to 200 sq. mtr
RECOMMENDED INLET/OUTLETØ	4 in / 102 mm

## AVAILABLE COLORS





## ROJO PARTFILL

The Rojo Partfill is a low valve intended for use in rainwater tank. The purpose of the float valve is to automatically maintain a low level of water in the tank during periods of no or low rainfall. This allows services led by the tank to continue while leaving capacity in the tank for refilling by the next rainfall.

### Product Features:

- Colour: Black/Grey (Body), Yellow (Floater)
- Self-operate
- Corrosion free
- Ideal for use with majority types of rainwater tank
- Valve can be locked in off position using the lock off switch
- It is installed through the side wall of the tank and above overflow level

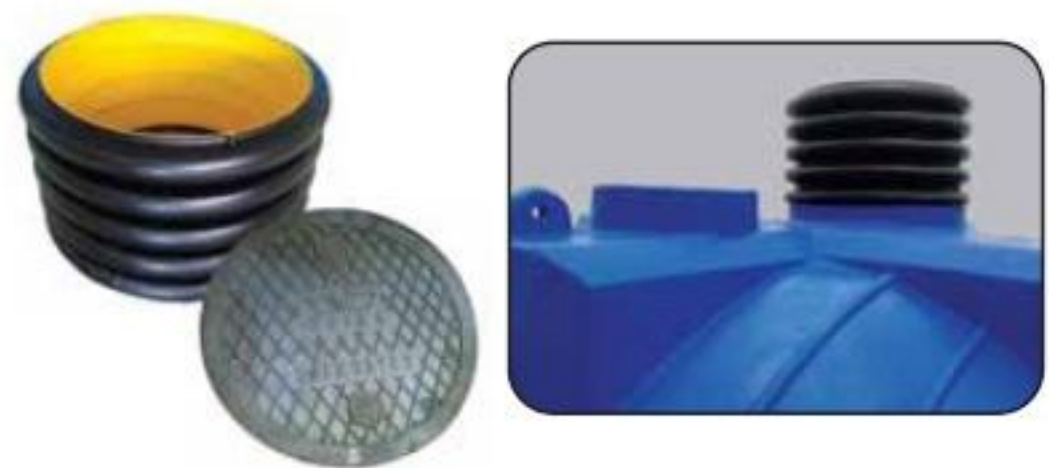


## MANHOLE EXTENSION / COVER

With a Manhole Extension/Cover, you can add easy accessibility to your underground rainwater tanks. Manhole extensions are made from the same high quality polyethylene as the underground rainwater tanks, giving you a high resistance to outside elements including rust and corrosion.

### Product Features:

- Colour: Black with yellow inner (Manhole Extension)
- Cast iron Manhole cover
- Poly construction for high resistance to rust and corrosion
- Engineering and structurally designs
- Manhole Extension : 450mm diameter X 300mm length
- Manhole Cover: 450mm diameter







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