

uPVC DRAINAGE SYSTEM

ABOVE AND UNDER GROUND DRAINAGE SYSTEM



INTRODUCTION

MARLEY UAE UPVC DRAINAGE SYSTEM

MARLEY UAE Plumbing & Drainage offer a complete range of Soil and Waste uPVC Drainage System as above and below ground Drainage System, manufactured in UAE in line with BSEN standards, Marley UAE designed for commercial and large-scale developments as well as smaller projects, Products are produced under strict Quality Control.

BELOW GROUND



ABOVED GROUND



MARLEY UAE uPVC Soil and Waste System

The uPVC soil system is available in **43, 56, 82, 110, 160** and **200mm** diameters, with push-fit type and solvent type.

110 and 160mm pipe support components have been designed specifically to support horizontal or vertical suspended uPVC pipework.

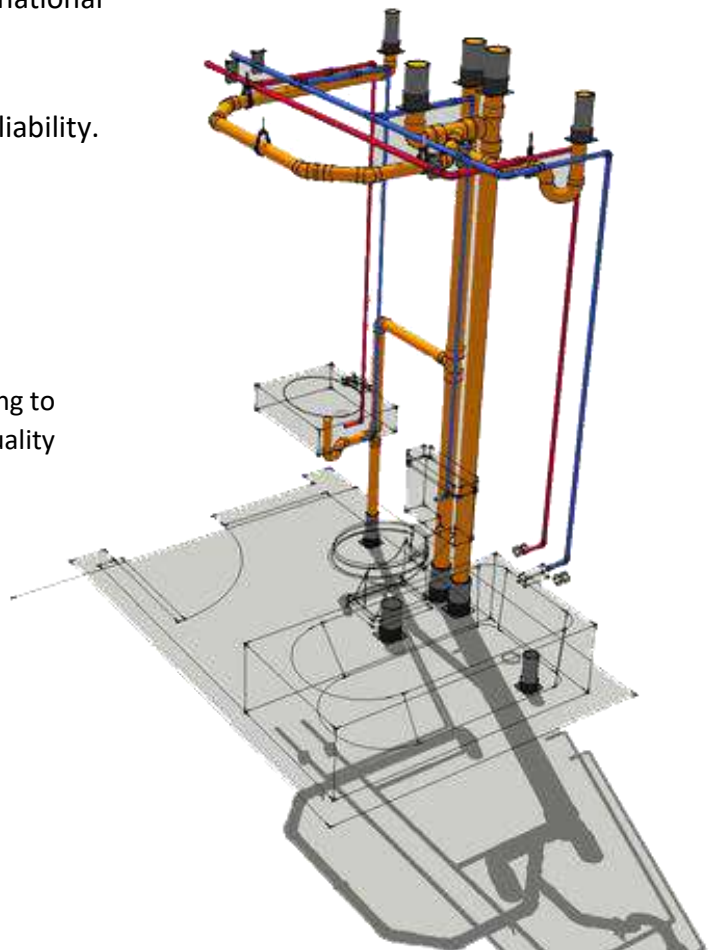
Pipes and fittings are also suitable for use as internal and external rainwater pipes to drain flat roofs and metal gutter systems on commercial and industrial buildings.

Advantages of MARLEY UAE uPVC Drainage System

- All product Supplied are manufactured to a constant high standard
- Precise manufacturing according to international standards.
- Assured timely deliveries
- Maintenance – free system and long term reliability.

Quality Assured Products

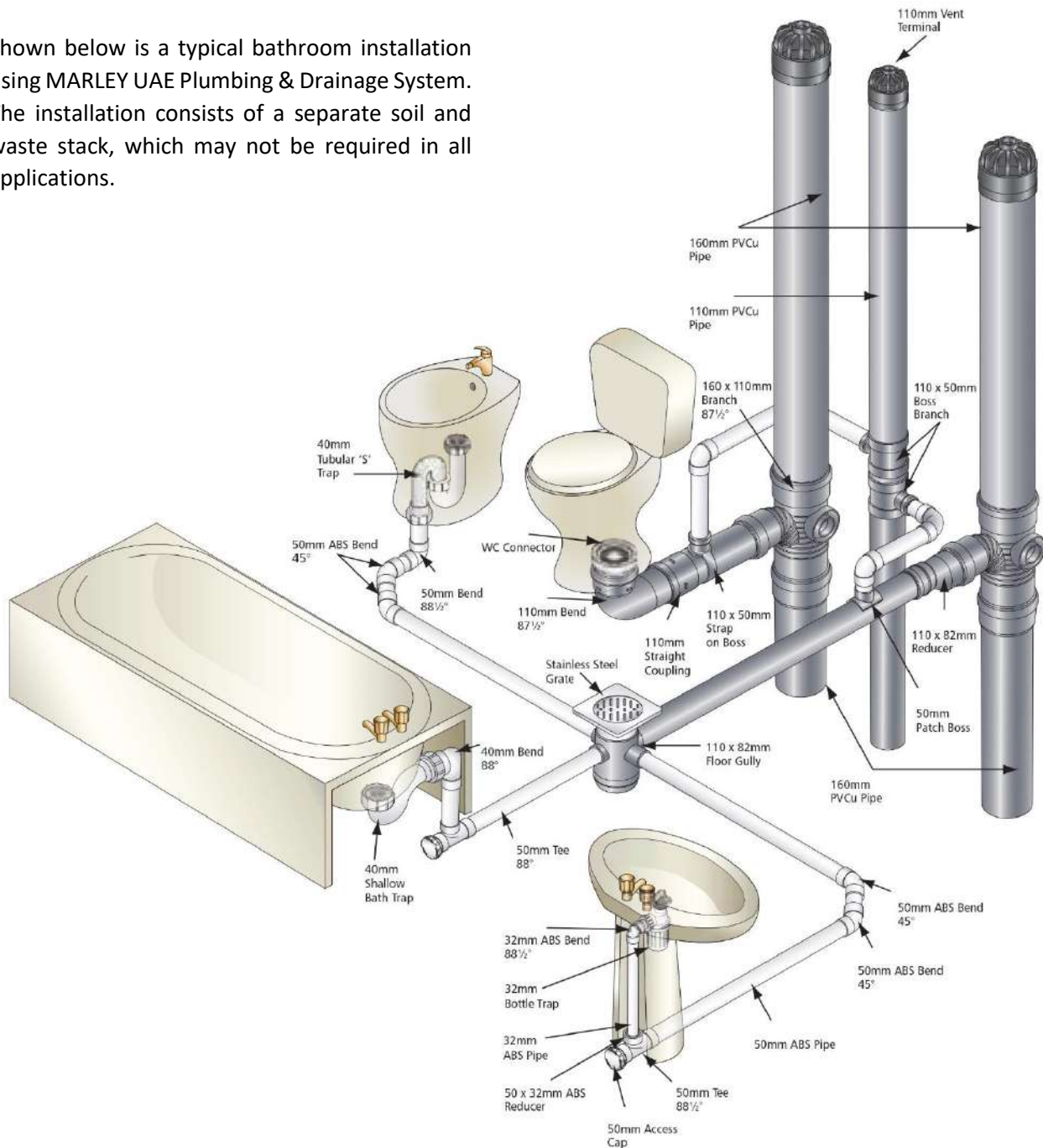
MARLEY UAE Drainage system are manufactured according to the latest European Standards and a very strict Quality Control.



Installation Guidance

Typical soil & waste layout

Shown below is a typical bathroom installation using MARLEY UAE Plumbing & Drainage System. The installation consists of a separate soil and waste stack, which may not be required in all applications.



This diagram shows a range of ways of connecting MARLEY UAE waste and soil stack and the typical connections.

Soil and Waste

Rubber Ring Joints (Push Fits)

The rubber ring joint is integrally molded on one end of the pipe. The joint incorporates a factory fitted rubber sealing ring which is retained in position by a polypropylene lock ring. The opposite (spigot) end of the pipe is chamfered and has a "depth of entry" mark near the end. Each joint is capable of handling some expansion and contraction as well as angular deflection. The seal ring is designed to provide a watertight joint at high and low pressures.

Solvent Joint

Solvent cement jointing is a welding process and not a gluing process. If done correctly, separation will not be possible after the curing period. Jointing pipes should be an interference fit between the components before solvent cement is applied. There are different solvent cements available for applications. Be sure to use the correct cement and that it has not "dried out" prior to use.

Solvent in Hot weather conditions

During hot weather conditions of 35°C and above, special consideration should be given to the process of solvent welding if uPVC pipes and fittings to ensure a leak proof joint.

Solvent cements contains high strength chemical solvent which evaporate faster at elevated temperatures and in windy conditions.

When PVC pipes are stored in open areas or under direct sunlight, the pipe surface temperature will be around 15°C higher than the ambient temperature. the solvent cement attacks the hot surface faster and deeper. Therefore, it is very important to avoid using excess cement during the jointing process to avoid creating pools of cement inside the fitting and pipe sockets. Excess solvent cement should be wiped off the joined surface quickly.

Recommendations for the solvent welding during hot weather conditions

1. Solvent Cement and cleaners should be stored in a cool or shady areas.
2. Pipes and fittings should be stored in a shady area before solvent welding.
3. The surface to be joined should be cooled by wiping with a wet cloth. The surface should be dry before applying the solvent cement.
4. Solvent welding is recommended to be done during the cooler morning hours.
5. The two surface should be joined quickly while they are still wet with cement.
6. Shake or stir the solvent cement well before use.
7. Allow at least 24 hours for the joints to cure before pressurizing the system. For sizes above 8" you should allow at least 48hours.



Rubber Ring Joint



Solvent Weld Joint

Pipe Support and Expansion

- All pipework must be adequately supported whether vertical or horizontal.
- Plastic pipe work expands and contracts with changes in temperature whether ambient temperature or from the nature of the discharge through the pipe. Expansion joints must therefore be provided to accommodate such thermal movement.
- Horizontal pipework requires more frequent support than vertical pipe work for example, soil stacks)
- Suitable sound absorbing brackets with rubber lining should be used to support pipes. Those brackets must be dimensionally compatible to the pipe diameter. The fixed bracket creates fixed point in the pipe system.
- With fixed brackets the pipe or fitting cannot be moved through the bracket after screws are tightened. In order to prevent sliding down of vertical pipes, each individual pipe must be secure on one point by a fixed bracket creates fixed points in the pipe system.
- Every horizontally installed pipe should pipe should always be fixed with one fixed bracket. All remaining pipe brackets in horizontal as well as in vertical installation must be tightened in such a way to allow sliding.
- Fixed brackets must be installed directly above the fitting at the bottom of the pipe end. The sliding brackets must be installed at a distance of maximum of two meters above the fixed bracket.
- Pipe brackets should not be installed in areas of diameter reduction and change of directions in the systems, this is required to allow for the thermal expansion.
- Pipe brackets should be fixed on building materials with high strength in order to assure strong and durable pipe fixing.
- It is recommended that only steel brackets (ei. Not plastic brackets) be used on interior soil stacks which are subject to fire regulations.
- Any point where pipework passes through a floor or wall and is made as a fire stop, it must be treated as a fixed point for the purposes of determining positions of expansion joints.



SUPPORT DISTANCE		
	Maximum Support Distance	
	Vertical	Horizontal
Pipe Size – Soil		
82mm	2 m	1 m
110mm	2 m	1 m
160mm	2 m	1.2 m
Pipe Size – Waste		
32 mm	1.2 m	0.5 m
40 mm	1.2 m	0.5 m
50 mm	1.2 m	0.5 m

Expansion in uPVC Pipes

The PVC piping system expand and contract with changes in the temperature, both from ambient and from the temperature of the fluid passing through the pipework.

The flowing section explain the techniques of estimating and treating the expansion in PVC pipes.

Calculation of Expansion

The co-efficient liner expansion of PVC pipes is relatively small compared to other plastic materials. However, the effects of thermal expansion in the system should be compensated wherever necessary.

The thermal expansion in PVC straight section can be calculated using the below formula:

$$\Delta L = \alpha \times L \times \Delta T$$

Where:

ΔL = expansion (mm)

α = Coefficient of liner expansion (mm/m/°C) = 0.08

L = pipe length in (m)

ΔT = Difference in temperature in (°C)

Material Properties

Material	Un – Plasticized Poly Vinyl Chloride
Color	Orange / Terracotta
Sizes	40mm to 82mm (BS EN 4514) 110mm to 200mm (per BS EN 1401)
Standard Lengths	1 ½" – 2" (4mtr.) 3" - 8" (6mtr.)
Joint type	Rubber Ring Joint (Push fit) as per BS EN 681 Solvent Weld Joint



Material	Un – Plasticized Poly Vinyl Chloride
Color	Grey
Sizes	40mm to 82mm (BS EN 1329-1) 110mm to 200mm (per BS EN 1329-1)
Standard Lengths	1 ½" – 2" (4mtr.) 3" - 8" (6mtr.)
Joint type	Rubber Ring Joint (Push fit) as per BS EN 681 Solvent Weld Joint



1. Corrosion Resistance:

MARLEY UAE uPVC being a non – conductor is totally resistant to all types of galvanic and electromechanical influences which might corrode it. Being nonmetallic, uPVC is resistant to any type of corrosion caused by water as well as a large range of industrial liquids and chemicals. Seepage from high sulphate soils as well as low hardness waters also do not threaten it. This in turn translate into a longer installed life of the uPVC pipe systems.

2. Resistance to Abrasion:

MARLEY UAE uPVC pipes are highly resistant to abrasion due to stress from abrasion fluids of excessive pressure. Test have shown that uPVC pipes are up to 2.5 time more resistant to abrasions when compared to steel.

3. Thermal Expansion:

The coefficient of liner expansion for uPVC in 0.08 mm/m/°K which means less than 1mm per each 1m length is case of a temperature rise of 10°C.

The thermal expansion in drainage system should be treated by using push fit (rubber rings) fittings and sockets which should be located in suitable locations.

4. Effect of frost:

Frost does not affect the performance of the system, however, impact strength is reduced during subzero temperatures.

5. Effect of Sunlight:

Long exposure to sunlight causes the color of uPVC to fade, in addition to the reduction of impact strength. The effect of sunlight does not seriously affect the performance of the system; however, it is always advisable to protect the system from the direct exposure to sunlight by painting the exposed parts with any exterior glass paint.

6. Fire Hazard of uPVC Material:

MARLEY UAE uPVC pipes and fittings as finished product are not classified as hazardous to health as they exhibit no chemical hazard when used under normal conditions and applications.

7. Flammability:

Due to its flame retardant property, uPVC finished products do not participate in fire. uPVC products have a higher ignition temperature than most of the other thermoplastic and organic materials.

8. Fire Fighting:

All common fire extinguishers can be used effectively for fighting involving PVC.

Area of Applications:

- Hotels
- Hospitals
- Commercial Buildings
- Villas
- Schools & University's
- Storm Drainage
- Sewer applications



Standards

MARLEY UAE uPVC Drainage system are manufactured according to the latest European Standards, subjected to very strict Quality Control Policy.

MARLEY UAE PRODUCTION STANDARDS

REFER To:	No.	STANDARD No.	CONCERN To:
British & European Standards	1	BS EN 1329-1	Plastic piping system for soil and waste discharge (low and high temperature) with in building structure – PVCu.
	2	BS EN 1451-1	Plastic piping system for soil and waste discharge (low and high temperature) with in building structure – PVCu.
	3	BS EN 1591-1	Plastic piping system for soil and waste discharge (low and high temperature) within the building structurur – polyethylene.
	4	BS EN 4514	Specification for PVCu soil and ventilating pipes, fittings and accessories.
	5	BS EN 1566-1	Specification for thermoplastics waste pipe and fittings.
	6	BS EN 5255	Specification for thermoplastics waste pipe and fittings
	7	BS EN 14680	Specification for adhesives for non- pressure thermoplastic pipe systems.
	8	BS EN 681-1	Elastomeric seals. Material requirements for pipe joint seals used in water and drainage applications. Part 1 vulcanized rubber.
	9	BS 4660 & BS EN 1401	Thermoplastic ancillary fittings of nominal sizes 110 and 160 for below ground gravity drainage and sewerage.
	10	BS 4962	Specification for plastic pipes and fittings for use as subsoil field drains.
	11	BS EN 14680	Adhesives for non- pressure thermoplastic pipe systems.
	12	BS EN 681-1	Elastomeric seals. Material requirements for pipe joint seals used in water and drainage applications.
	13	BS EN 752	Drain & Sewer System outside buildings
	14	BS EN 1295-1	Structural design of buried pipelines under various conditions of loading. General requirements
	15	BS EN 1610	Construction & testing of Drains & Sewers
	16	BS EN 13476-3	Plastic piping systems for non-pressure drainage and sewerage, structured wall piping systems with smooth bore and profiled external surface.
	17	BS EN ISO 9001	Quality management systems.
	18	BBA 94/2985	Plastic piping systems for soil waste (low & High Temperature) within the the building structure - ABS.
	19	BS EN 295	Vitrified clay pipes & fittings and pipe joints.
	20	BS EN ISO 14001	Environmental management systems requirements with guidance for use.
	21	BBA 88/1977	MARLEY UAE Underground Drainage System.

MARLEY uPVC PRESSURE PIPE SYSTEM

BS 3505 : 1986 / BS 3506 : 1969

Imperial range – BS EN 1452 : 2009

NOMINAL SIZE	Mean outside Diameter		Wall Thickness									
			Class O (Non Pressure)		Class B 6.0 bar*		Class C 9.0bar*		Class D 12.0 bar*		Class E 15.0 bar*	
	MIN	MAX	Individual Value		Individual Value		Individual Value		Individual Value		Individual Value	
			MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
Inches	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
½	21.2	21.5	-	-	-	-	-	-	-	-	1.7	2.1
¾	26.6	26.9	-	-	-	-	-	-	-	-	1.9	2.5
1	33.4	33.7	-	-	-	-	-	-	-	-	2.2	2.7
1 ¼	42.1	42.4	-	-	-	-	-	-	2.2	2.7	2.7	3.2
1 ½	48.1	48.4	1.8	2.2	-	-	-	-	2.5	3.0	3.1	3.7
2	60.2	60.5	1.8	2.2	-	-	2.5	3.0	3.1	3.7	3.9	4.5
2 ½	75.0	75.3	1.8	2.2	-	-	3.0	3.5	3.9	4.5	4.8	5.5
3	88.7	89.1	1.8	2.2	2.9	3.4	3.5	4.1	4.6	5.3	5.7	6.6
4	114.1	114.5	2.3	2.8	3.4	4.0	4.5	5.2	6.0	6.9	7.3	8.4
5	140.0	140.4	2.6	3.7	3.8	4.4	5.5	6.4	7.3	8.4	9.0	10.4
6	168.0	168.5	3.1	3.7	4.5	5.2	6.6	7.6	8.8	10.2	10.8	12.5
7	193.5	194.0	3.1	3.7	5.2	6.0	7.7	8.9	10.1	11.7	12.3	14.5
8	218.8	219.4	3.1	3.7	5.3	6.1	7.8	9.0	10.3	11.9	12.6	14.5
9	244.1	244.8	3.1	3.7	5.9	6.8	8.7	10.0	11.5	13.3	14.1	16.3
10	272.6	273.4	3.1	3.7	6.6	7.6	9.7	11.2	12.8	14.8	15.7	18.1
12	323.4	324.3	3.1	3.7	7.8	9.0	11.5	13.3	15.2	17.5	18.7	21.6
14	355.0	356.0	3.6	4.2	8.5	9.8	12.6	14.5	16.7	19.2	20.5	23.6
16	405.9	406.9	4.1	4.8	9.7	11.2	14.5	16.7	19.0	21.9	23.4	27.0

Standard Length of Pipes are Six (6) Meter.

MARLEY UAE A/C Drain Pipe - White



Code	Nominal O.D	Nominal O.D	Mean O.D (mm)		Wall Thickness	
	(inch)	(mm)	Min.	Max.	Min.	Max.
ADP1L	¾"	26	26.6	26	1.9	2.5
ADP0L	1"	33	33.4	32	2.2	2.7

MARLEY UAE Soil & Waste Pipe BS EN 1329-1 (BS 5255 : 1989)



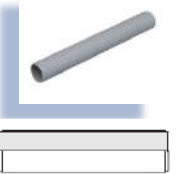
Code	Nominal O.D	Nominal O.D	Mean O.D (mm)		Wall Thickness	
	(inch)	(mm)	Min.	Max.	Min.	Max.
MDGP1	1 ½"	43	42.75	43.05	1.9	2.3
MDGP2	2"	56	55.75	56.05	2.0	2.4

MARLEY UAE Soil, Waste & Ventilation Pipe (BS EN 1329-1) & (BS EN 4514)



Code	Nominal O.D	Nominal O.D	Mean O.D (mm)		Wall Thickness	
	(inch)	(mm)	Min.	Max.	Min.	Max.
MDGP3	3"	82	82	82.3	3.0	3.5
MDGP4	4"	110	110	110.3	3.2	3.8
MDGP6	6"	160	160	160.4	3.2	3.8
MDGP8	8"	200	200	200.5	3.9	4.5

MARLEY UAE Sleeve Pipe - Gray



Code	Nominal O.D	Nominal O.D	Mean O.D (mm)		Wall Thickness	
	(inch)	(mm)	Min.	Max.	Min.	Max.
MDSP3	3"	82	82	82.3	1.6	1.8
MDSP4	4"	110	110	110.3	1.6	1.8
MDSP6	6"	160	160	160.3	2.0	2.2
MDSP8	8"	200	200	200.5	3.0	3.2
MDSP10	10"	250	250	250.5	3.0	3.2

MARLEY UAE Gray UPVC Pipe (Class E / PN16) (BS 3505) (BS EN -1452)



Code	Nominal O.D	Nominal O.D	Wall Thickness		Wall Thickness	
	(inch)	(mm)	Min.	Max.	Min.	Max.
MDGP3EL	3"	82	5.7	6.6		
MDGP4EL	4"	110	7.3	8.4		
MDGP6EL	6"	160	10.8	12.5		
MDGP8EL	8"	200	12.6	14.5		
MDGP10EL	10"	250	15.7	18.1		
MDGP12EL	12"	300	18.7	21.6		

MARLEY UAE UPVC Pipe (Class C / PN10) (BS 3506) (BS EN -1452)



Code	Nominal O.D	Nominal O.D	Wall Thickness		Wall Thickness	
	(inch)	(mm)	Min.	Max.	Min.	Max.
MDBP3CL	3"	82	3.5	4.1		
MDBP4CL	4"	110	4.5	5.2		
MDBP6CL	6"	160	6.6	7.6		
MDBP8CL	8"	200	7.8	9.0		
MDBP10CL	10"	250	9.7	11.2		
MDBP12CL	12"	300	11.5	13.3		

MARLEY UAE Underground & Sewerage (BS EN 1401-1), (BS EN 4514) & (BS 5481)



Code	Nominal O.D	Nominal O.D	Mean O.D (mm)		Wall Thickness	
	(inch)	(mm)	Min.	Max.	Min.	Max.
MDOP3	3"	82	82	82.3	3.0	3.5
MDOP4	4"	110	110	110.3	3.2	3.8
MDOP6	6"	160	160	160.4	3.2	3.8
MDOP8	8"	200	200	200.5	3.9	4.5

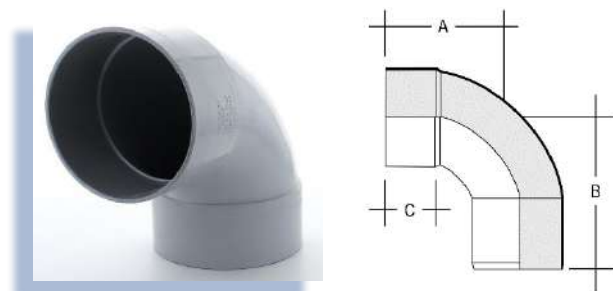
MARLEY UAE Fittings for Aboveground Drainage Systems

MARLEY UAE Pressure Breaker



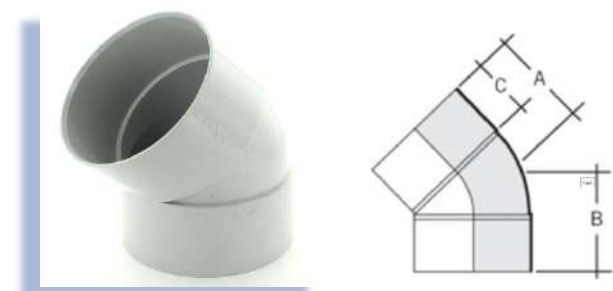
Code	Size	Description	Color
MDPB4	4"	uPVC	G
MDPB6	6"	uPVC	G

MARLEY UAE Elbow 90° (Solvent)



Code	Size	Description	Color
MDE1	1 1/2"	ABS	G
MDE2	2"	ABS	G
MDE3	3"	uPVC	G
MDE4	4"	uPVC	G
MDE6	6"	uPVC	G
MDE8	8"	uPVC	G

MARLEY UAE Elbow 45° (Solvent)



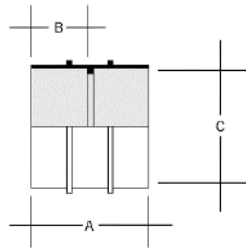
Code	Size	Description	Color
MDE145	1 1/2"	ABS	G
MDE245	2"	ABS	G
MDE345	3"	uPVC	G
MDE445	4"	uPVC	G
MDE645	6"	uPVC	G

MARLEY UAE Elbow 90° with Access (Solvent)



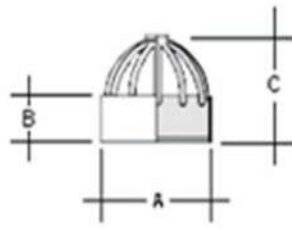
Code	Size	Description	Color
MDE3A	3"	uPVC	G
MDE4A	4"	uPVC	G

MARLEY UAE Socket (Solvent)



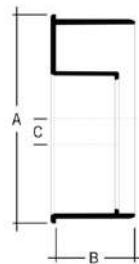
Code	Size	Description	Color
MDS1	1 ½"	ABS	G
MDS2	2"	ABS	G
MDS3	3"	uPVC	G
MDS4	4"	uPVC	G
MDS6	6"	uPVC	G

MARLEY UAE Vent Cowl (Solvent)



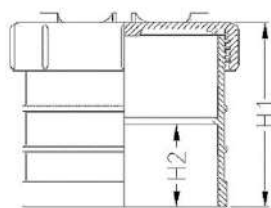
Code	Size	Description	Color
MDVC2	2"	uPVC	G
MDVC3	3"	uPVC	G
MDVC4	4"	uPVC	G
MDVC6	6"	uPVC	G

MARLEY UAE Reducer Push (Solvent)



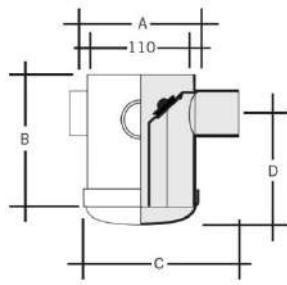
Code	Size	Description	Color
MDRP1.51	1 ½" x 1"	ABS	G
MDRP21.5	2" x 1 ½"	ABS	G
MDRP32	3" x 2"	uPVC	G
MDRP42	4" x 2"	uPVC	G
MDRP43	4" x 3"	uPVC	G
MDRP64	6" x 4"	uPVC	G

MARLEY UAE Plug & Access Cap (Solvent)



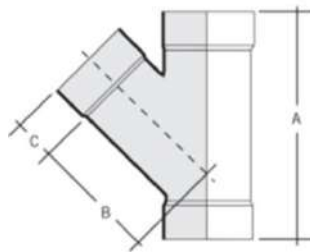
Code	Size	Description	Color
MDPA1	1 ½"	ABS	G
MDPA2	2"	ABS	G
MDPA3	3"	uPVC	G
MDPA4	4"	uPVC	G
MDPA6	6"	uPVC	G

MARLEY UAE Deep Seal Floor Trap (Solvent)



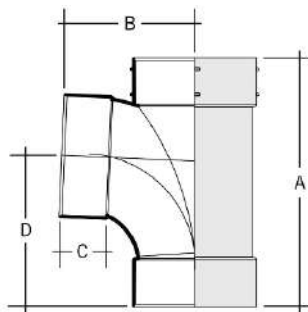
Code	Size	Description	Color
MDFT4322AE	4"X3"X2"X2"	uPVC	G

MARLEY UAE "Y" (Solvent)



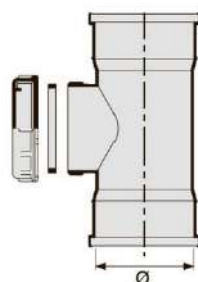
Code	Size	Description	Color
MDY1	1 ½"	ABS	G
MDY2	2"	ABS	G
MDY3	3"	uPVC	G
MDY4	4"	uPVC	G
MDY6	6"	uPVC	G

MARLEY UAE TEE (Solvent)



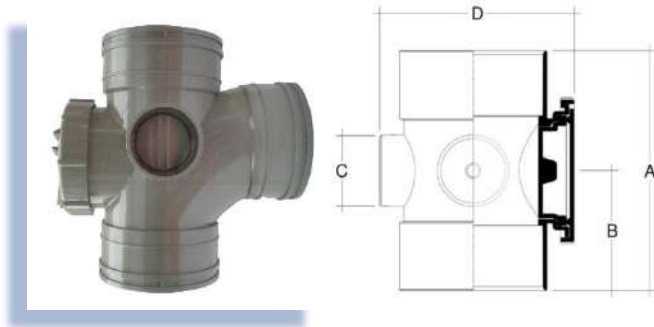
Code	Size	Description	Color
MDT1	1 ½"	ABS	G
MDT2	2"	ABS	G
MDT3	3"	uPVC	G
MDT4	4"	uPVC	G
MDT6	6"	uPVC	G
MDT8	8"	uPVC	G

MARLEY UAE Testing Opening (Door Socket)



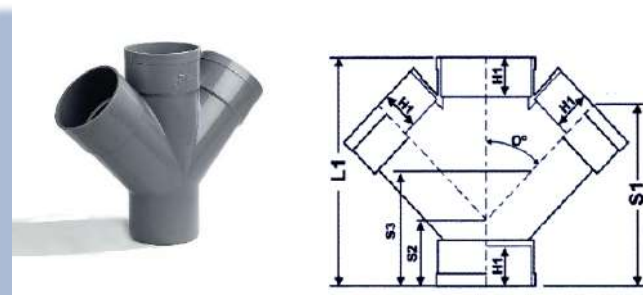
Code	Size	Description	Color
MDTO3	3"	uPVC	G
MDTO4	4"	uPVC	G
MDTO6	6"	uPVC	G

MARLEY UAE TEE with access (Solvent)



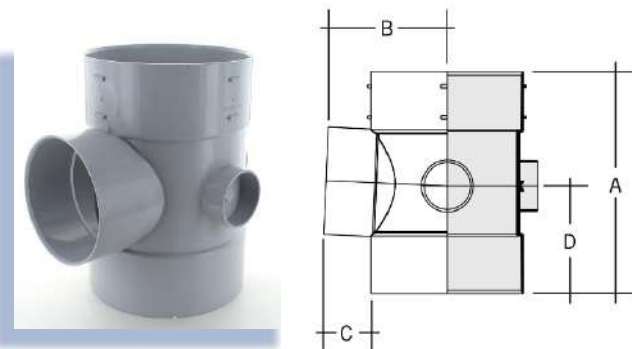
Code	Size	Description	Color
MDT3A	3"	uPVC	G
MDT4A	4"	uPVC	G
MDT6A	6"	uPVC	G

MARLEY UAE Cross "Y" (Solvent)



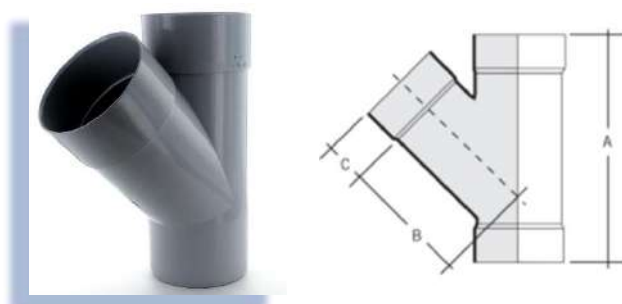
Code	Size	Description	Color
MDCY4	4"	uPVC	G

MARLEY UAE Reducer TEE (Solvent)



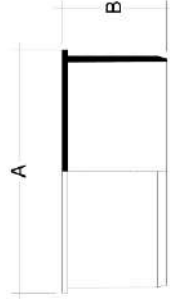
Code	Size	Description	Color
MDRT64	6" x 4"	uPVC	G

MARLEY UAE Reducer Y (Solvent)



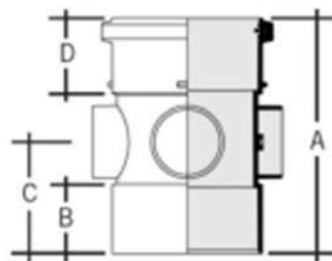
Code	Size	Description	Color
MDRY64	6" x 4"	uPVC	G

MARLEY UAE End Cap (Solvent)



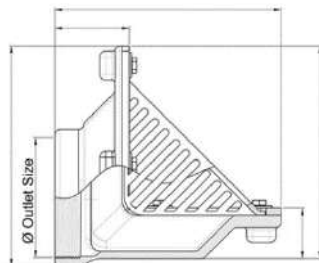
Code	Size	Description	Color
MDEC2	2"	uPVC	G
MDEC3	3"	uPVC	G
MDEC4	4"	uPVC	G
MDEC6	6"	uPVC	G
MDEC8	8"	uPVC	G

MARLEY UAE Boss Connector (Solvent)



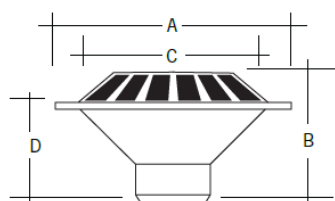
Code	Size	Description	Color
MDBC42	4" x 2"	uPVC	G

MARLEY UAE Rain Water Outlet (Side Parapet)



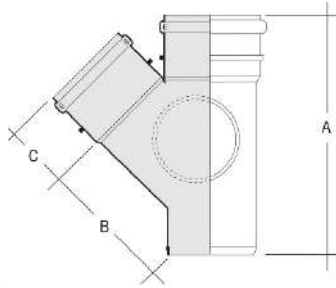
Code	Size	Description	Color
MDRO4SP	4"	uPVC	G

MARLEY UAE Rain Water Outlet (Dome Type)



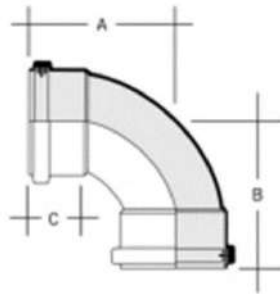
Code	Size	Description	Color
MDRO3DT	3"	uPVC	G
MDRO4DT	4"	uPVC	G

MARLEY UAE “Y” Double Rubber (Push Fit)



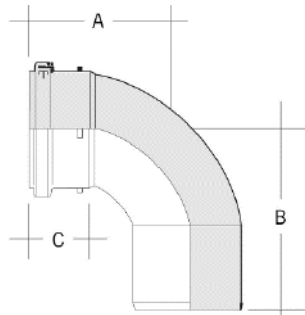
Code	Size	Description	Color
MDY3R2	3"	uPVC	G
MDY4R2	4"	uPVC	G

MARLEY UAE Elbow 90° Double Rubber (Push Fit)



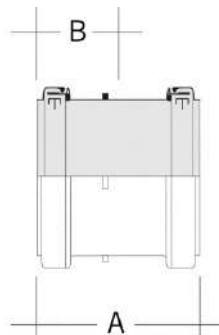
Code	Size	Description	Color
MDE4R2	4"	uPVC	G
MDE6R2	6"	uPVC	G
MDE8R2	8"	uPVC	G

MARLEY UAE Elbow 45° Double Rubber (Push Fit)



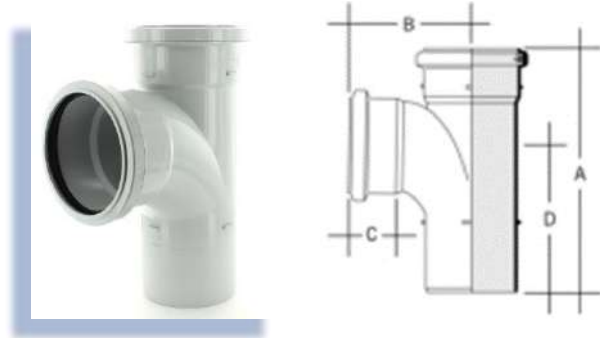
Code	Size	Description	Color
MDE445R2	4"	uPVC	G
MDE645R2	6"	uPVC	G
MDE845R2	8"	uPVC	G

MARLEY UAE Socket Double Rubber (Push Fit)



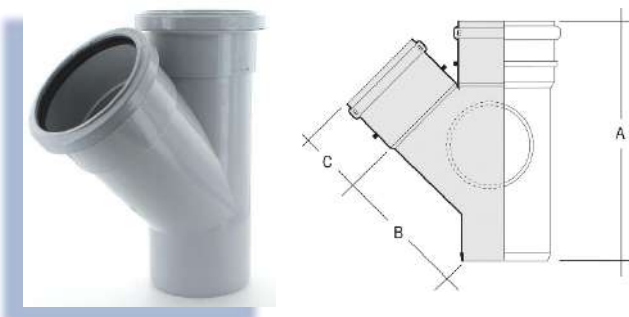
Code	Size	Description	Color
MDS3R2	3"	uPVC	G
MDS4R2	4"	uPVC	G
MDS6R2	6"	uPVC	G
MDS8R2	8"	uPVC	G

MARLEY UAE REDUCER TEE Double Rubber (*Push Fit*)



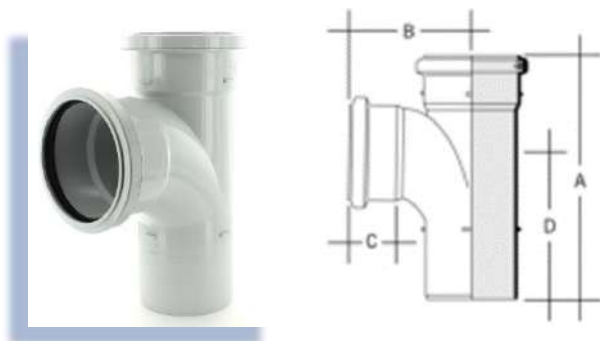
Code	Size	Description	Color
MDRT64R2	6" x 4"	uPVC	G

MARLEY UAE REDUCER Y Double Rubber (*Push Fit*)



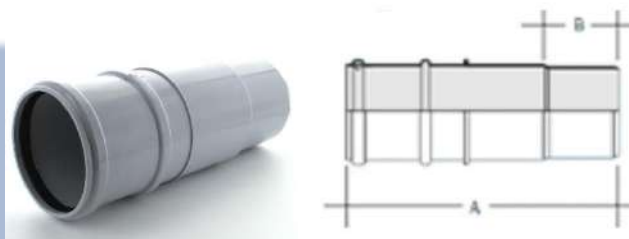
Code	Size	Description	Color
MDRY64R2	6" x 4"	uPVC	G

MARLEY UAE TEE Double Rubber (*Push Fit*)



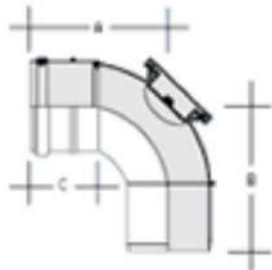
Code	Size	Description	Color
MDT3R2	3"	uPVC	G
MDT4R2	4"	uPVC	G
MDT6R2	6"	uPVC	G

MARLEY UAE Repair Socket (*Push Fit*)



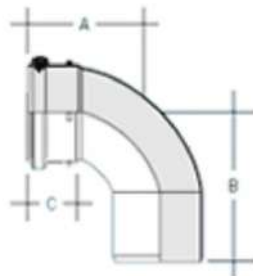
Code	Size	Description	Color
MDRPS3R2	3"	uPVC	G
MDRPS4R2	4"	uPVC	G

MARLEY UAE Elbow 90° with Access Single Rubber (*Push Fit*)



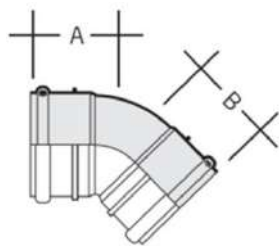
Code	Size	Description	Color
MDE3AR1	3"	uPVC	G
MDE4AR1	4"	uPVC	G

MARLEY UAE Elbow 90° Single Rubber (*Push Fit*)



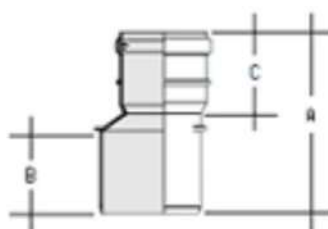
Code	Size	Description	Color
MDE3R1	3"	uPVC	G
MDE4R1	4"	uPVC	G

MARLEY UAE Elbow 45° Single Rubber (*Push Fit*)



Code	Size	Description	Color
MDE345R1	3"	uPVC	G
MDE445R1	4"	uPVC	G
MDE645R1	6"	uPVC	G
MDE845R1	8"	uPVC	G

MARLEY UAE Reducer Socket Single Rubber (*Push Fit*)



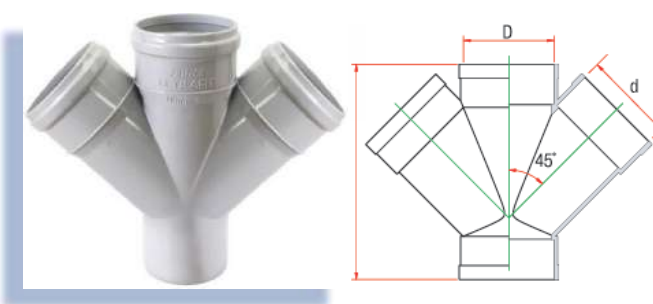
Code	Size	Description	Color
MDRS43R1	4" x 3"	uPVC	G
MDRS64R1	6" x 4"	uPVC	G
MDRS86R1	8" x 6"	uPVC	G

MARLEY UAE Socket Single Rubber (*Push Fit*)



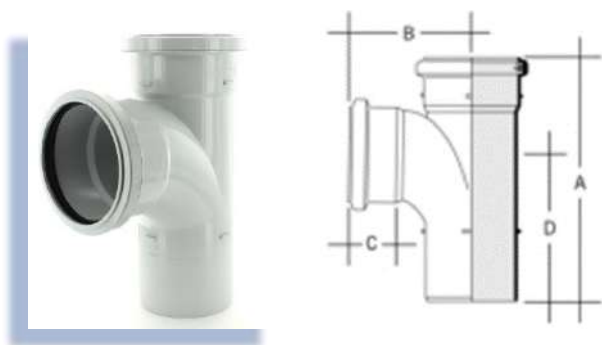
Code	Size	Description	Color
MDS3R1	3"	uPVC	G
MDS4R1	4"	uPVC	G

MARLEY UAE Cross Y Triple Rubber (*Solvent*)



Code	Size	Description	Color
MDY4R3	4"	uPVC	G
MDY6R3	6"	uPVC	G

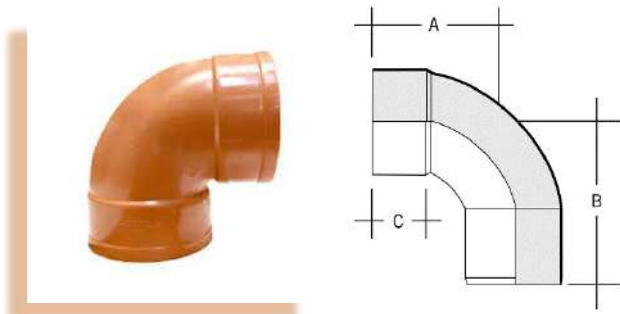
MARLEY UAE TEE Triple Rubber (*Push Fit*)



Code	Size	Description	Color
MDT4R3	4"	uPVC	G
MDT6R3	6"	uPVC	G

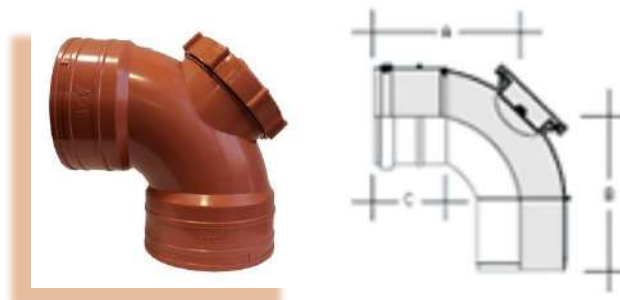
MARLEY UAE Fittings for Belowground Drainage Systems

MARLEY UAE Elbow 90° (Solvent)



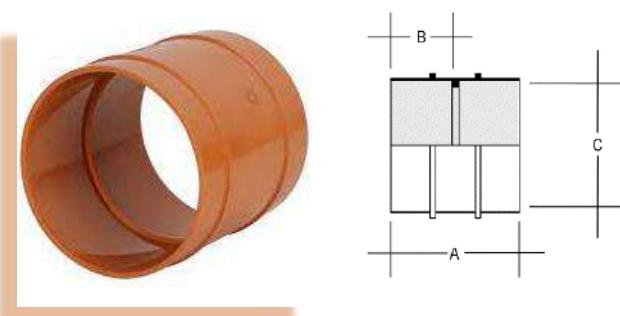
Code	Size	Description	Color
MDE3O	3"	uPVC	O
MDE4O	4"	uPVC	O
MDE6O	6"	uPVC	O

MARLEY UAE Elbow with Access 90° (Solvent)



Code	Size	Description	Color
MDE3AO	3"	uPVC	O

MARLEY UAE Socket (Solvent)



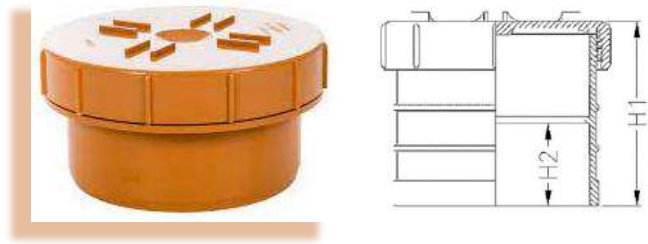
Code	Size	Description	Color
MDS3O	3"	uPVC	O
MDS4O	4"	uPVC	O
MDS6O	6"	uPVC	O
MDS8O	8"	uPVC	O

MARLEY UAE Reducer Push (Solvent)



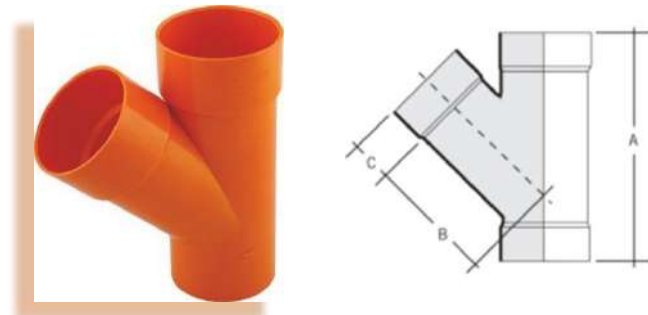
Code	Size	Description	Color
MDRP32O	3" x 2"	uPVC	O
MDRP64O	6" x 4"	uPVC	O

MARLEY UAE Plug and Access (Solvent)



Code	Size	Description	Color
MDPA4O	4"	uPVC	O
MDPA6O	6"	uPVC	O

MARLEY UAE "Y" (Solvent)



Code	Size	Description	Color
MDY3O	3"	uPVC	O
MDY4O	4"	uPVC	O
MDY6O	6"	uPVC	O

MARLEY UAE TEE (Solvent)



Code	Size	Description	Color
MDT3O	3"	uPVC	O
MDT4O	4"	uPVC	O
MDT6O	6"	uPVC	O

MARLEY UAE Testing Opening (Door Socket)



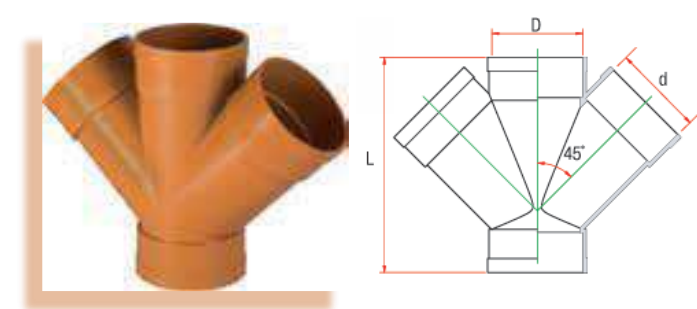
Code	Size	Description	Color
MDTO3O	3"	uPVC	O

MARLEY UAE Gully Trap (Solvent)



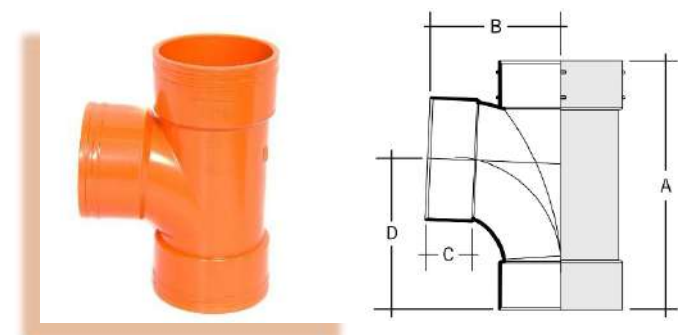
Code	Size	Description	Color
MDGT64	6" x 4"	uPVC	O
MDGT6444	6" x 4" x 4"	uPVC	O
MDGT64444	6" x 4" x 4" x 4" x 4"	uPVC	O

MARLEY UAE Cross "Y" (Solvent)



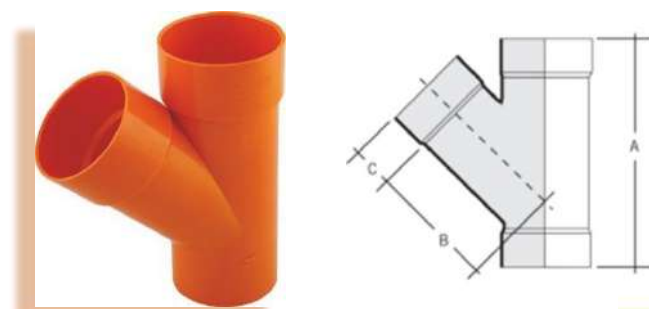
Code	Size	Description	Color
MDCY40	4"	uPVC	O

MARLEY UAE Reducer TEE (Solvent)



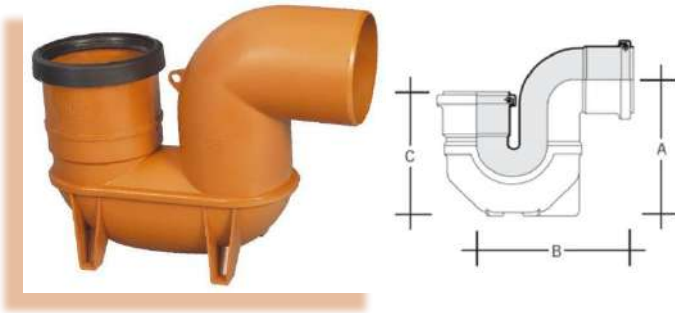
Code	Size	Description	Color
MDRT64O	6" x 4"	uPVC	O

MARLEY UAE Reducer "Y" (Solvent)



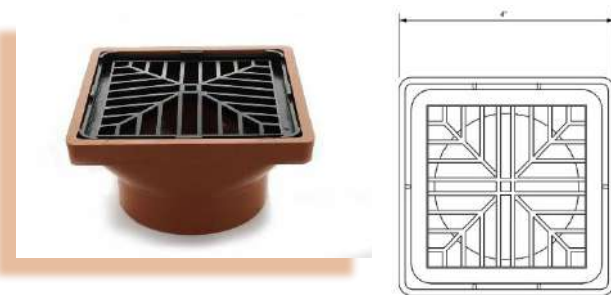
Code	Size	Description	Color
MDRY64O	6" x 4"	uPVC	O

MARLEY UAE 'P' – Trap (Elbow Shap)



Code	Size	Description	Color
MDPT4	4"	uPVC	O

MARLEY UAE Square Hopper Grating



Code	Size	Description	Color
MDSHG4	4"	uPVC	O

MARLEY UAE End Cap



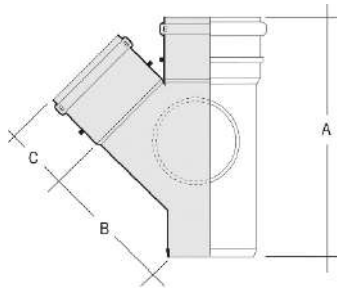
Code	Size	Description	Color
MDEC30	3"	uPVC	O
MDEC40	4"	uPVC	O
MDEC60	6"	uPVC	O

MARLEY UAE "Y" Double Rubber (Push fit)



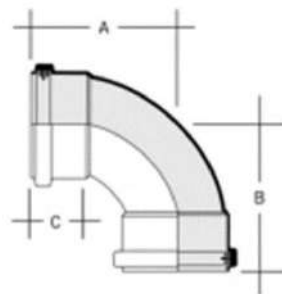
Code	Size	Description	Color
MDY3OR2	3"	uPVC	O
MDY4OR2	4"	uPVC	O

MARLEY UAE Reducer "Y" Double Rubber (Push fit)



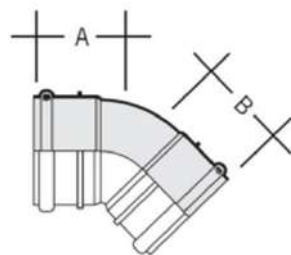
Code	Size	Description	Color
MDRY64OR2	6" x 4"	uPVC	O

MARLEY UAE Elbow 90° Double Rubber (Push Fit)



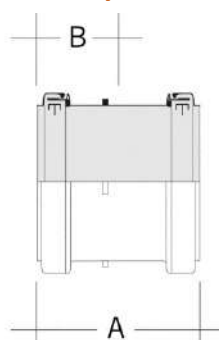
Code	Size	Description	Color
MDE4OR2	4"	uPVC	O
MDE6OR2	6"	uPVC	O

MARLEY UAE Elbow 45° Double Rubber (Push Fit)



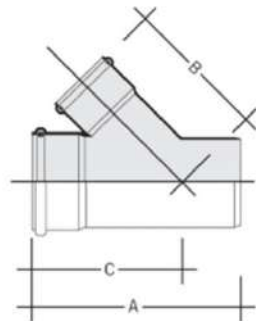
Code	Size	Description	Color
MDE445OR2	4"	uPVC	O
MDE645OR2	6"	uPVC	O
MDE845OR2	8"	uPVC	O

Socket Double Rubber (Push Fit)



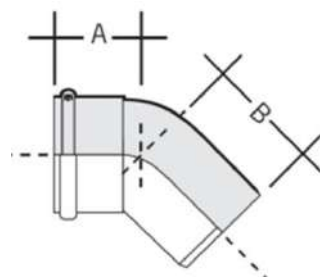
Code	Size	Description	Color
MDS3OR2	3"	uPVC	O
MDS4OR2	4"	uPVC	O
MDS6OR2	6"	uPVC	O
MDS8OR2	8"	uPVC	O

TEE Double Rubber (*Push Fit*)



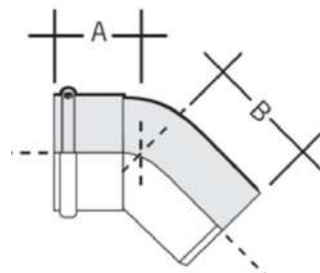
Code	Size	Description	Color
MDT4OR2	4"	uPVC	O

Elbow 90° Single Rubber (*Push Fit*)



Code	Size	Description	Color
MDE3OR1	3"	uPVC	O

MARLEY UAE Elbow 45° Single Rubber (*Push Fit*)



Code	Size	Description	Color
MDE345OR1	3"	uPVC	O

MARLEY UAE Socket Single Rubber (*Push Fit*)



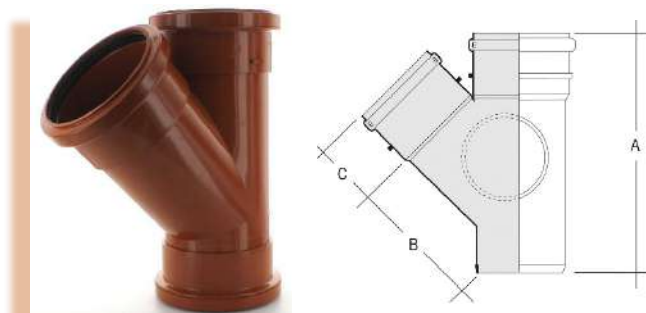
Code	Size	Description	Color
MDS3OR1	3"	uPVC	O

MARLEY UAE Socket Single Rubber (*Push Fit*)



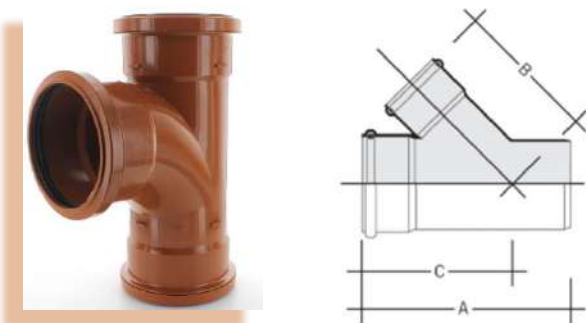
Code	Size	Description	Color
MDRS43OR1	4" X 3"	uPVC	O
MDRS64OR1	6" X 4"	uPVC	O

MARLEY UAE Reducer "Y" Triple Rubber (*Push fit*)



Code	Size	Description	Color
MDY4OR3	4"	uPVC	O
MDY6OR3	6"	uPVC	O

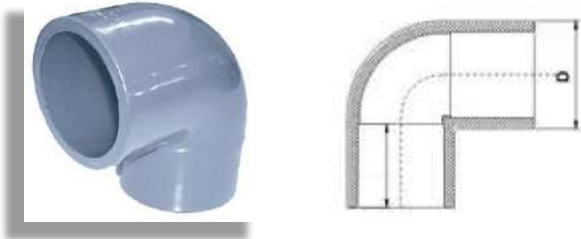
MARLEY UAE TEE Triple Rubber (*Push Fit*)



Code	Size	Description	Color
MDT4OR3	4"	uPVC	O

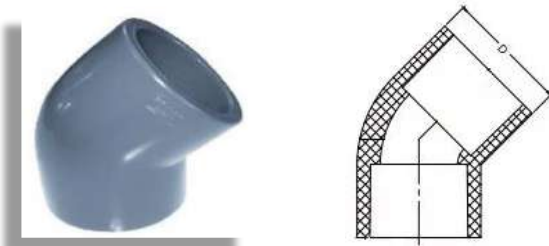
MARLEY UAE uPVC HIGH PRESSURE FITTINGS (Class -E)

MARLEY UAE uPVC H.P (Class –E) Elbow 90°



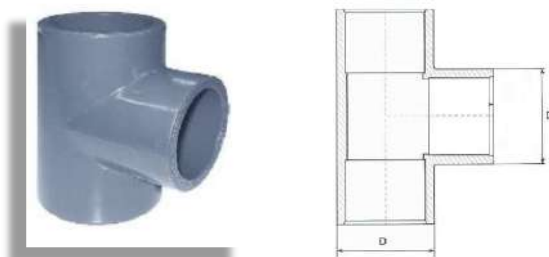
Code	Size	Description	Color
MDECE3	3"	Class E	G
MDECE4	4"	Class E	G
MDECE6	6"	Class E	G
MDECE8	8"	Class E	G

MARLEY UAE uPVC H.P (Class –E) Elbow 45°



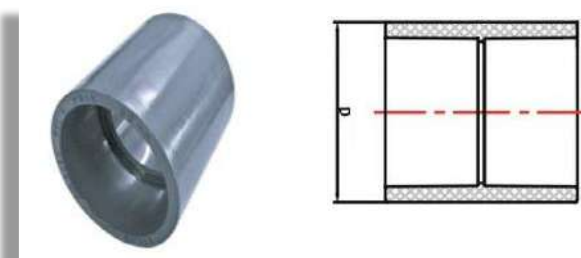
Code	Size	Description	Color
MDECE345	3"	Class E	G
MDECE445	4"	Class E	G
MDECE645	6"	Class E	G
MDECE845	8"	Class E	G

MARLEY UAE uPVC H.P (Class –E) Equal TEE



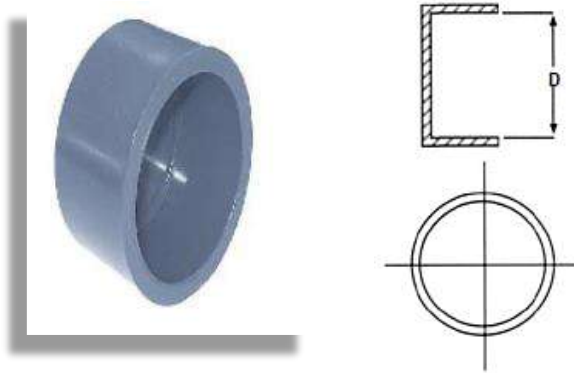
Code	Size	Description	Color
MDTCE3	3"	Class E	G
MDTCE4	4"	Class E	G
MDTCE6	6"	Class E	G
MDTCE8	8"	Class E	G

MARLEY UAE uPVC H.P (Class –E) Socket



Code	Size	Description	Color
MDSCE3	3"	Class E	G
MDSCE4	4"	Class E	G
MDSCE6	6"	Class E	G
MDSCE8	8"	Class E	G

MARLEY UAE uPVC H.P (Class –E) End Cap



Code	Size	Description	Color
MDECCE1.5	1 ½"	Class E	G
MDECCE3	3"	Class E	G
MDECCE4	4"	Class E	G
MDECCE6	6"	Class E	G
MDECCE8	8"	Class E	G

MARLEY UAE Fabricated Products

GREASE TRAPS

Grease Trap Type A



Grease Trap Type B



Grease Trap Type C



Grease Trap Type D

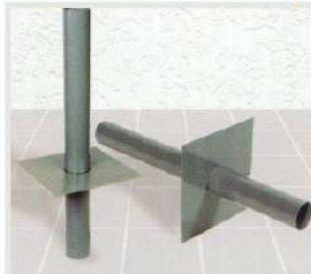


SAND TRAPS

Sand traps are utilized to separate sand and tiny rocks from the drainage lines and avoid reaching the main sewer lines. This is achieved through separation basket with tiny holes which allows easy cleaning and replacement.



PUDDLE FLANGES



CUSTOM P TRAPS



CATCH BASINS



DRY MANHOLES



CUSTOM GULLY TRAPS



Purpose of the Grease Traps:

Grease Traps are design for the interception of greasy waste water Prior to discharge into the sewer. Grease traps separate the grease from the waste water, which will protect the pipes in the system from dogging with grease and also help prevent clogging of the soil in the same manner.



When to use Grease Traps:

In the opinion of the building official grease can be introduce in to the drainage system in quantities that can cause line blockage or hinder sewage disposal. All floor drains located in the food preparation or cooking areas must be connected to the grease interceptor. Services sinks used for the disposal of waste water from mopping of floor surfaces in food preparation and cooking areas must be connected to the grease interceptor.

Where to Install Grease Traps:

The grease trap must be installed in the waste line leading from sinks, drains, food waste grinders, garbage can washers, dumpster drains or other similar fixture.

Effluent from the grease trap is deposited in the septic tank along with the other water carried waste from the facility.

When to Clean Grease Traps:

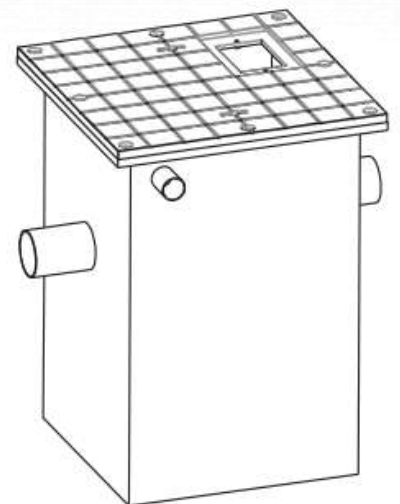
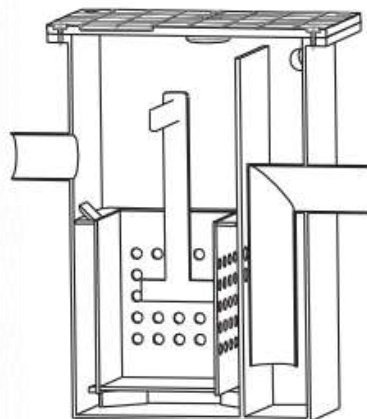
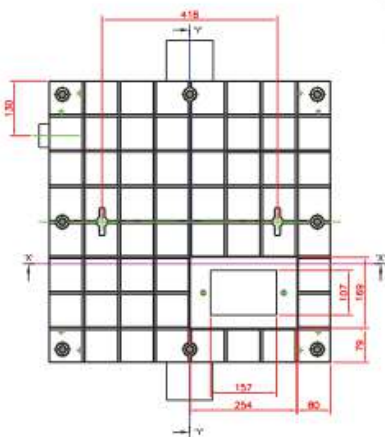
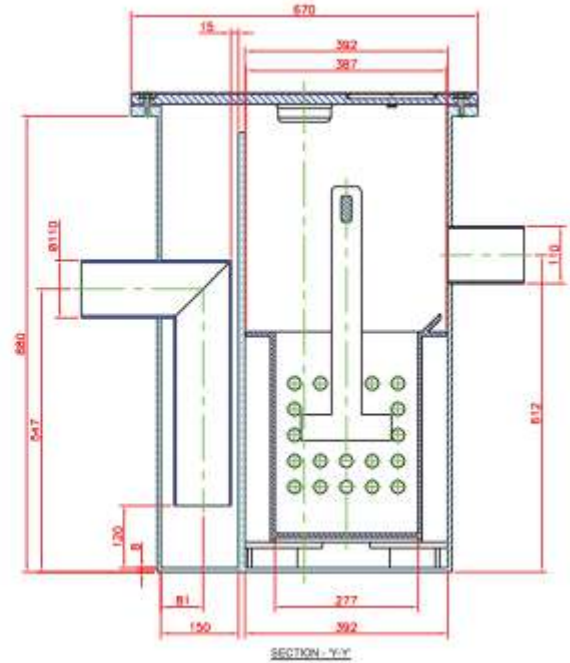
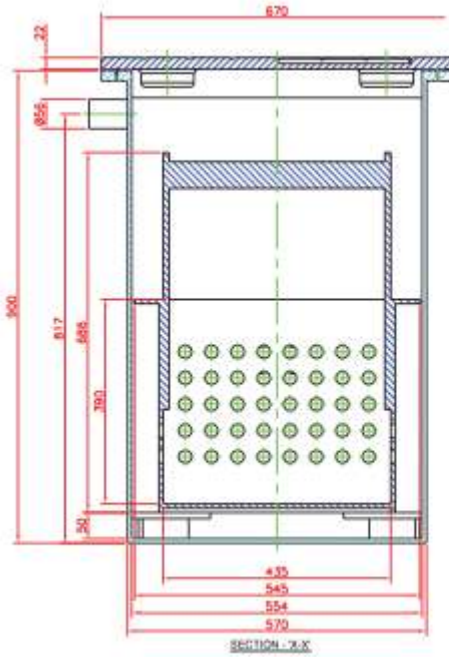
Grease traps should be cleaned regularly to prevent clogging. It is recommended that grease traps be cleaned when 75% of their grease retention capacity is reached.

Material of Grease Traps:

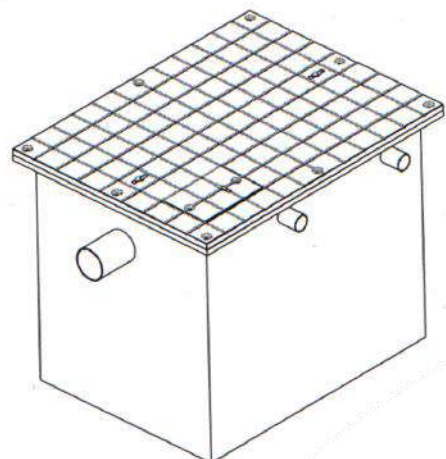
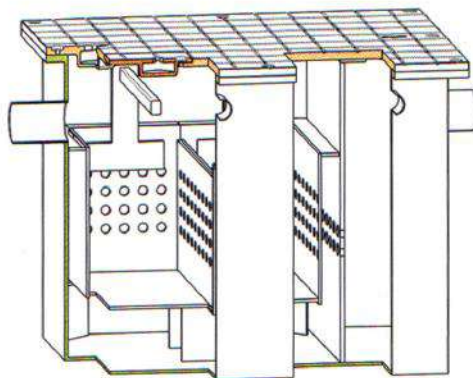
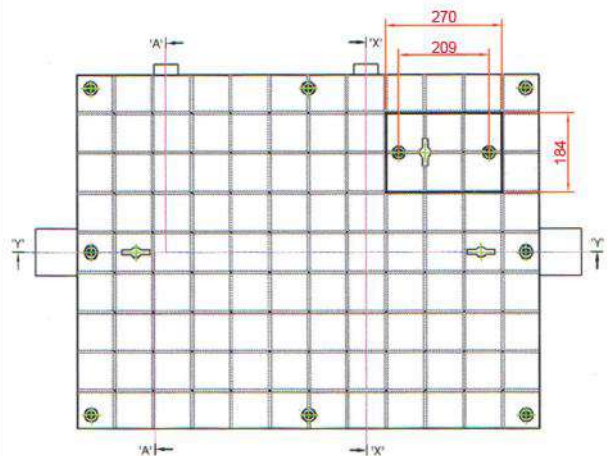
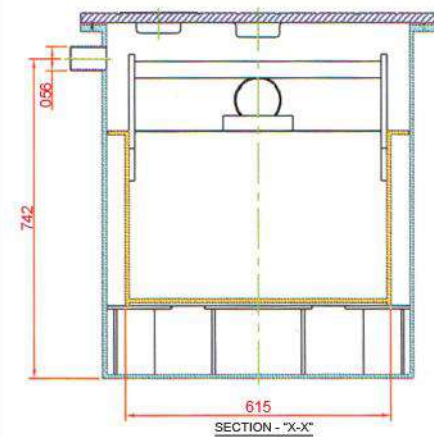
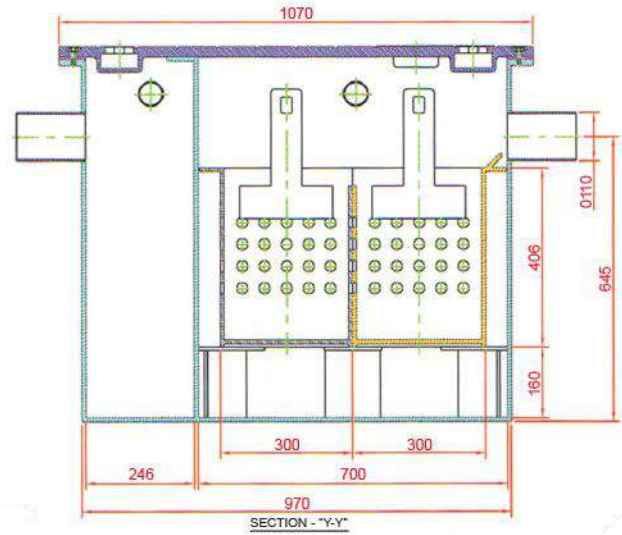
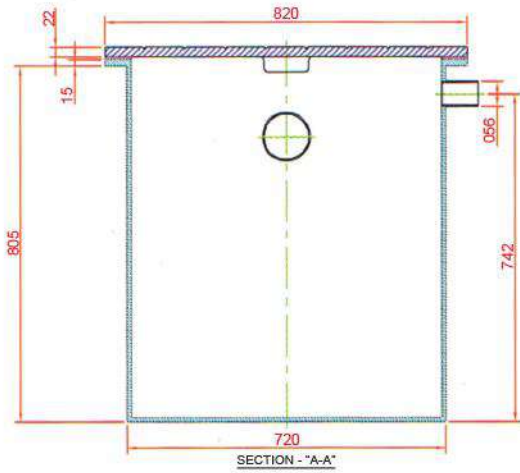
MARLEY Grease Traps are fabricated from uPVC sheets and pipes, which are manufactured according to the international standards for drainage applications (BSEN 1329 and BSEN 1404)

Sizes of Grease Traps:

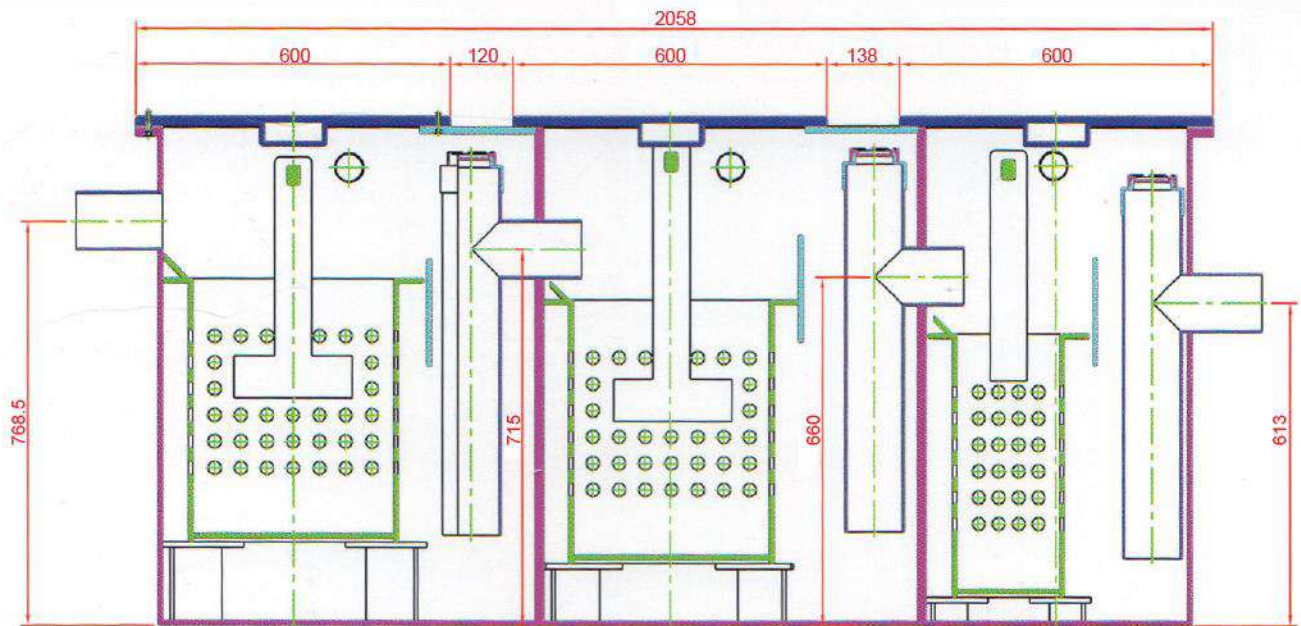
Grease Traps - A



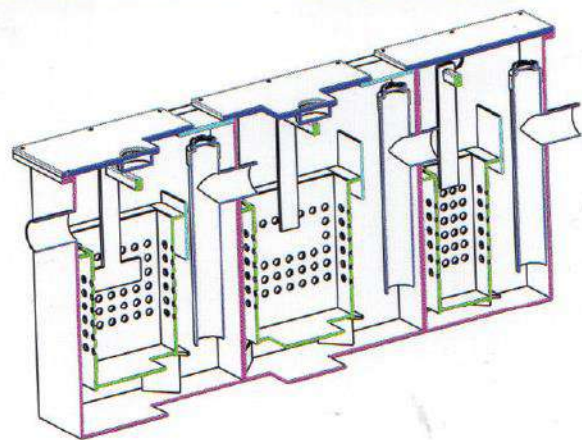
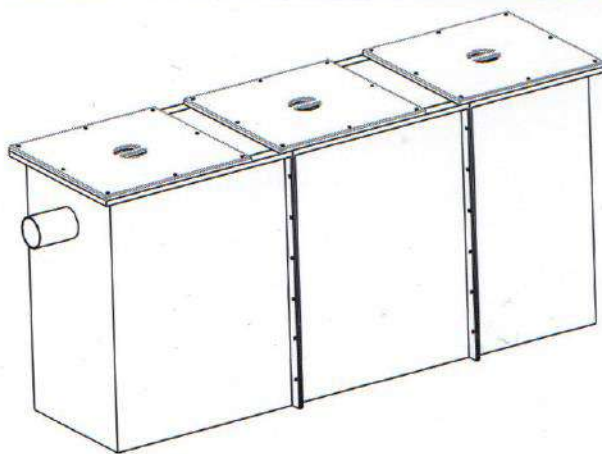
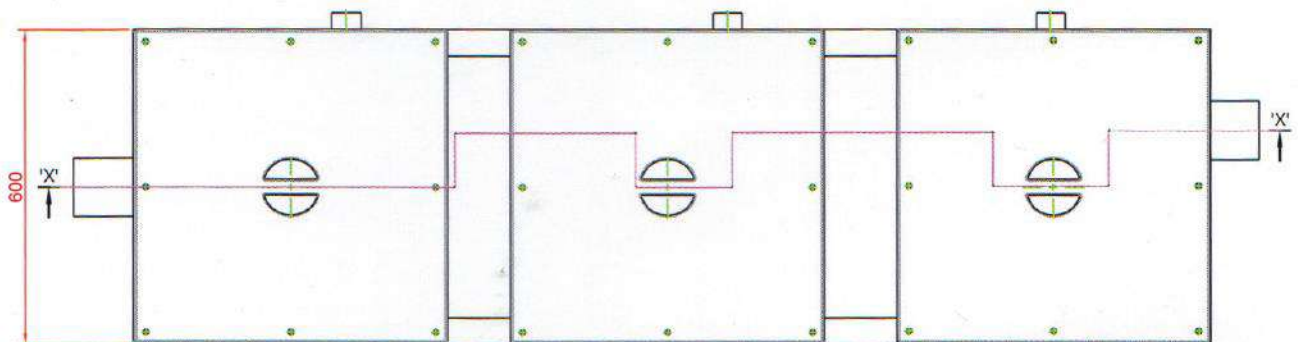
Grease Traps - B



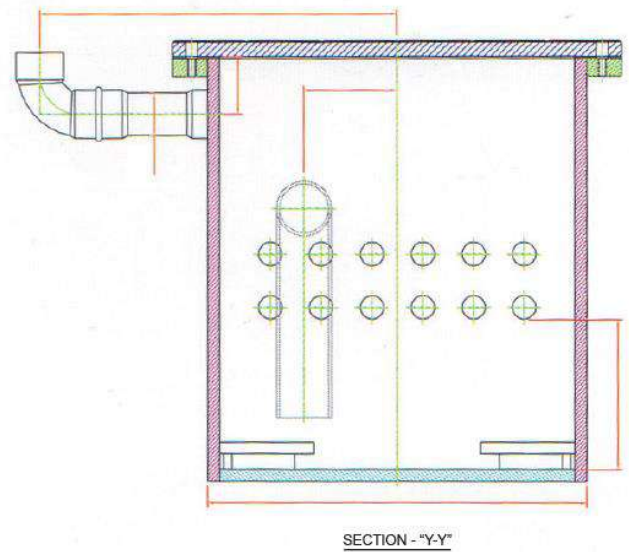
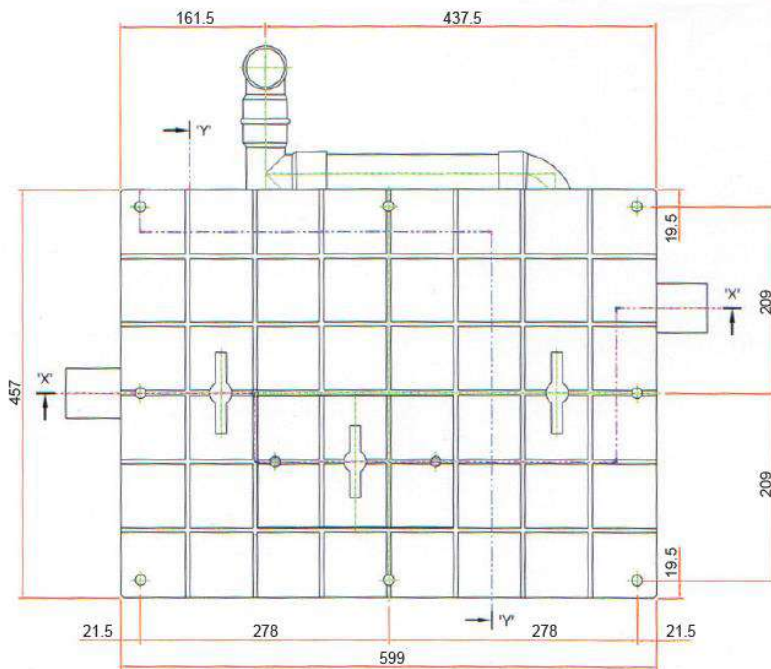
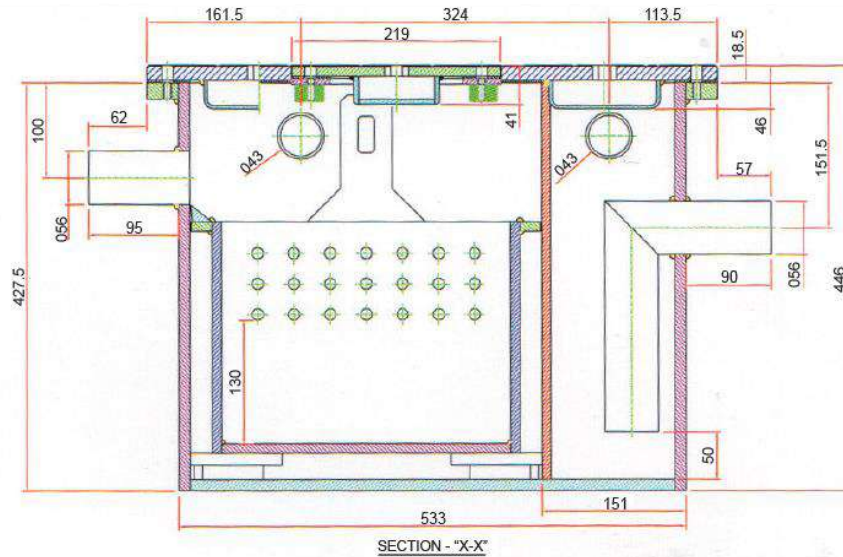
Grease Traps - C



SECTION - "X-X"



Grease Traps - D



ADS
MARLEY
ADVANCE DRAINAGE SYSTEM
UAE

