



# RAINWATER DRAINAGE SYSTEM

a **LESSO** company

★★★

## LEAD-FREE

### PIPE SYSTEMS

SUITABLE FOR BUILDINGS,  
HOUSES AND CIVIL  
CONSTRUCTION PURPOSES.

**LESSO**





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## PRODUCT RANGE

# RAINWATER SYSTEM

## FEATURES

- Dimensions and performance meet the requirement of standards
- High quality of finish with smooth internal external surface
- Provides low coefficient of flow friction
- Formulated to withstand weathering effect
- Available in several stiffness class to accommodate various installations needs



## ADVANTAGES

- Chemical Resistance
- Non-Conductivity
- Weather Resistance
- No Rot, Rust or Corrosion
- Tough and Durable
- Low Maintenance

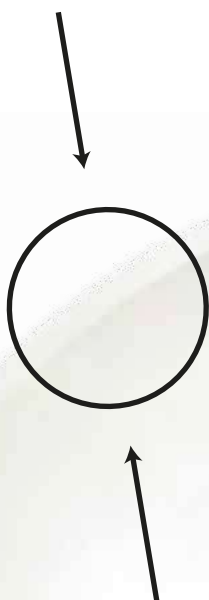
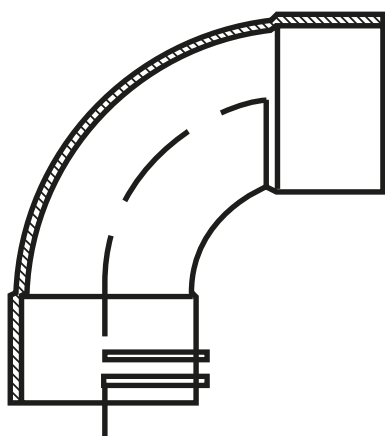


## APPLICATION

Lead-free Rainwater Pipe Systems are suitable for buildings, houses and civil construction purposes



- Enhanced stiffness by 40%
- Additional strength
- Resist negative / vacuum conditions
- Withstand intermittent positive pressure



## PRODUCT RANGE

# HEAVY DUTY BEND

## FEATURES

- Higher stiffness to resist deformation
- Enhanced impact resistance
- Smooth bore with low coefficient of friction
- Prevents algae and microbial growth
- Lead-free



## ADVANTAGES

- Provides additional strength to counter deformation against load during concrete casting
- Additional impact strength to prevent cracking or failure from objects infiltration to the system, especially in high rise buildings
- Resists negative pressure or vacuum condition acting on fittings during unsteady state operation
- Withstand intermittent positive pressure in the event of hydraulic jump or flooding in the system



## APPLICATION

Lowest connection at the bottom of vertical stack of system to the horizontal drainage pipe or sump, which are prone to extreme operating conditions





## QUALITY & CERTIFICATION



## SYSTEM CERTIFICATION

### PIPES

1. Unplasticized Polyvinyl Chloride (PVC-U) Pipes for Rainwater Discharge (Low and High Temperature) within the Building Structure
2. Unplasticized Polyvinyl Chloride (PVC-U) Rainwater Pipes for above ground application
3. Unplasticized Polyvinyl Chloride (PVC-U) Heavy duty Rainwater Pipes for casting and underground application
4. Paling Ecotech Pipes, made from reprocessed material, is lead free and earns high on Green Building Index

### FITTINGS

1. Unplasticized Polyvinyl Chloride (PVC-U) Fittings for Rainwater Discharge (Low and High Temperature) within the Building Structure

### SOLVENT CEMENT

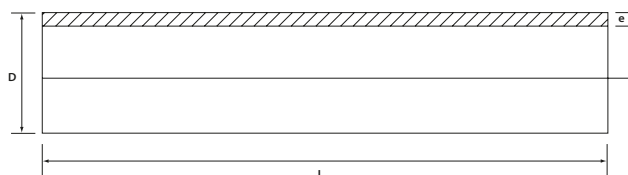
1. Coloursolve Polyvinyl Chloride (PVC) Solvent Cement

## RAINWATER PIPES

Paling Rainwater Piping System has been developed to meet the need of construction industry for a reliable piping system for channelling rainwater from the roof to the drains. The system is suitable for all applications and types of building, including domestic, commercial and industrial.

As the scope of BS EN 12200 Rainwater Goods & Accessories covers rainwater pipes in nominal sizes from 82mm to 160mm only, additional sizes and classes of rainwater pipes have been incorporated in the Paling Rainwater Piping System to meet different requirements of BS EN 1329-1, BS 4514, MS 1063 and BS EN ISO 1452.

The Normal Duty Pipe is intended for exposed installation on the building that do not exceed five storeys in height, such as terrace houses or low-rise shop-houses. The Medium Duty is intended for exposed installation on building exceeding five storeys while the Heavy Duty is designed with higher ring stiffness for use in pipework to be encased in reinforced concrete (RC) columns.



## RAINWATER DRAINAGE SYSTEM /// PIPES

### LIGHT DUTY RAINWATER DOWNPIPE (PLAIN END)

- Recommended for expose installation for low rise (5 Storey and Below)

| CODE NO.          | NOM. SIZE (mm) | SPECIFICATION | PIPE END | MEAN OUTSIDE DIAMETER D (mm) | MIN. WALL THICKNESS e (mm) | LENGTH L (meter) |
|-------------------|----------------|---------------|----------|------------------------------|----------------------------|------------------|
| 1220 082 58 ND 01 | 82             | BS EN 12200-1 | PE       | 82.4 - 82.8                  | 1.8                        | 5.8              |
| 1220 110 58 ND 01 | 110            | BS EN 12200-1 | PE       | 110.0 - 110.3                | 2.2                        | 5.8              |
| 1220 160 58 ND 01 | 160            | BS EN 12200-1 | PE       | 160.0 - 160.4                | 3.2                        | 5.8              |

### NORMAL DUTY RAINWATER DOWNPIPE (PLAIN END)

- Recommended for expose installation (High Rise)

| CODE NO.          | NOM. SIZE (mm) | SPECIFICATION              | PIPE END | MEAN OUTSIDE DIAMETER D (mm) | MIN. WALL THICKNESS e (mm) | LENGTH L (meter) |
|-------------------|----------------|----------------------------|----------|------------------------------|----------------------------|------------------|
| 1220 082 58 MD 01 | 82             | BS 4514/BS EN 12200-1      | PE       | 82.4 - 82.8                  | 3.0                        | 5.8              |
| 1220 110 58 MD 01 | 110            | BS EN 1329-1/BS EN 12200-1 | PE       | 110.0 - 110.4                | 3.2                        | 5.8              |
| 1220 160 58 MD 01 | 160            | BS EN 1329-1/BS EN 12200-1 | PE       | 160.0 - 160.4                | 4.0                        | 5.8              |
| 1220 200 58 MD 01 | 200            | BS EN 1329-1/BS EN 12200-1 | PE       | 200.0 - 200.5                | 4.9                        | 5.8              |
| 1220 250 58 MD 01 | 250            | BS EN 1329-1/BS EN 12200-1 | PE       | 250.0 - 250.5                | 6.2                        | 5.8              |
| 1220 315 58 MD 01 | 315            | BS EN 1329-1/BS EN 12200-1 | PE       | 315.0 - 315.6                | 7.7                        | 5.8              |

### MEDIUM DUTY / PN 10 RAINWATER DOWNPIPE (PLAIN END)

- Recommended for low rise casting & extreme expose installation

| CODE NO.           | NOM. SIZE (mm) | SPECIFICATION                                     | PIPE END | MEAN OUTSIDE DIAMETER D (mm) | MIN. WALL THICKNESS e (mm) | LENGTH L (meter) |
|--------------------|----------------|---------------------------------------------------|----------|------------------------------|----------------------------|------------------|
| 1220 110 58 P10 20 | 110            | BS EN ISO 1452/BS EN 12200-1/BS EN 1329-1/MS 1063 | PE       | 110.0 - 110.3                | 4.2                        | 5.8              |
| 1220 160 58 P10 20 | 160            | BS EN ISO 1452/BS EN 12200-1/BS EN 1329-1/MS 1063 | PE       | 160.0 - 160.4                | 6.2                        | 5.8              |
| 1220 200 58 P10 20 | 200            | BS EN ISO 1452/BS EN 12200-1/BS EN 1329-1/MS 1063 | PE       | 200.0 - 200.5                | 7.7                        | 5.8              |
| 1220 250 58 P10 20 | 250            | BS EN ISO 1452/BS EN 12200-1/BS EN 1329-1/MS 1063 | PE       | 250.0 - 250.5                | 9.6                        | 5.8              |
| 1220 315 58 P10 20 | 315            | BS EN ISO 1452/BS EN 12200-1/BS EN 1329-1/MS 1063 | PE       | 315.0 - 315.6                | 12.1                       | 5.8              |

The thickness comply to PN 10 (BS EN ISO 1452)

### HEAVY DUTY / PN 12.5 RAINWATER DOWNPIPE (PLAIN END)

- Recommended for casting/underground columns

| CODE NO.           | NOM. SIZE (mm) | SPECIFICATION                                     | PIPE END | MEAN OUTSIDE DIAMETER D (mm) | MIN. WALL THICKNESS e (mm) | LENGTH L (meter) |
|--------------------|----------------|---------------------------------------------------|----------|------------------------------|----------------------------|------------------|
| 1220 056 58 P12 20 | 56             | BS EN ISO 1452/BS EN 1329-1/BS EN 12200-1         | PE       | 55.8 - 56.1                  | 3.0                        | 5.8              |
| 1220 082 58 P12 20 | 82             | BS EN ISO 1452/BS EN 12200-1/BS 4514/MS 1063      | PE       | 82.4 - 82.8                  | 4.6                        | 5.8              |
| 1220 110 58 P12 20 | 110            | BS EN ISO 1452/BS EN 1329-1/BS EN 12200-1/MS 1063 | PE       | 110.0 - 110.3                | 5.3                        | 5.8              |
| 1220 160 58 P12 20 | 160            | BS EN ISO 1452/BS EN 1329-1/BS EN 12200-1/MS 1063 | PE       | 160.0 - 160.4                | 7.7                        | 5.8              |
| 1220 200 58 P12 20 | 200            | BS EN ISO 1452/BS EN 1329-1/BS EN 12200-1/MS 1063 | PE       | 200.0 - 200.5                | 9.6                        | 5.8              |
| 1220 250 58 P12 20 | 250            | BS EN ISO 1452/BS EN 1329-1/BS EN 12200-1/MS 1063 | PE       | 250.0 - 250.5                | 11.9                       | 5.8              |
| 1220 315 58 P12 20 | 315            | BS EN ISO 1452/BS EN 1329-1/BS EN 12200-1/MS 1063 | PE       | 315.0 - 315.6                | 15.0                       | 5.8              |

The thickness comply to PN 12.5 (BS EN ISO 1452)

### ECOTECH PIPE (PLAIN END)

- Recommended for use in internal building rainwater downpipe (RWDP) systems in accordance with BS EN 1329-1.

| CODE NO.             | NOM. SIZE (mm) | SPECIFICATION      | PIPE END | OUTSIDE DIAMETER D (mm) | MIN. WALL THICKNESS e (mm) | LENGTH L (meter) | TYPE OF PIPE |
|----------------------|----------------|--------------------|----------|-------------------------|----------------------------|------------------|--------------|
| 1230 082 58 01       | 82             | BS 4514/MS 1063    | PE       | 82.4 - 82.8             | 3.0                        | 5.8              | Normal Duty  |
| 1230 110 58 01       | 110            | BS EN 1329/MS 1063 | PE       | 110.0 - 110.3           | 3.2                        | 5.8              | Normal Duty  |
| 1230 160 58 01       | 160            | BS EN 1329/MS 1063 | PE       | 160.0 - 160.4           | 3.2                        | 5.8              | Normal Duty  |
| 1230 200 58 01       | 200            | BS EN 1329/MS 1063 | PE       | 200.0 - 200.5           | 3.9                        | 5.8              | Normal Duty  |
| 1230 250 58 01       | 250            | BS EN 1329/MS 1063 | PE       | 250.0 - 250.5           | 4.9                        | 5.8              | Normal Duty  |
| 1230 315 58 01       | 315            | BS EN 1329/MS 1063 | PE       | 315.0 - 315.6           | 6.2                        | 5.8              | Normal Duty  |
| 1230 160 58 01 BD 01 | 160            | BS EN 1329/MS 1063 | PE       | 160.0 - 160.4           | 4.0                        | 5.8              | Normal Duty  |
| 1230 200 58 01 BD 01 | 200            | BS EN 1329/MS 1063 | PE       | 200.0 - 200.5           | 4.9                        | 5.8              | Normal Duty  |
| 1230 250 58 01 BD 01 | 250            | BS EN 1329/MS 1063 | PE       | 250.0 - 250.5           | 6.2                        | 5.8              | Normal Duty  |
| 1230 315 58 01 BD 01 | 315            | BS EN 1329/MS 1063 | PE       | 315.0 - 315.6           | 7.7                        | 5.8              | Normal Duty  |

**LIGHT DUTY RAINWATER DOWNPIPE (SOCKET END)**

- Recommended for expose installation for low rise (5 Storey and Below)

| CODE NO.          | NOM. SIZE (mm) | SPECIFICATION | PIPE END | MEAN OUTSIDE DIAMETER D (mm) | MIN. WALL THICKNESS e (mm) | LENGTH L (meter) |
|-------------------|----------------|---------------|----------|------------------------------|----------------------------|------------------|
| 1222 082 58 ND 01 | 82             | BS EN 12200-1 | SE       | 82.4 - 82.8                  | 1.8                        | 5.8              |
| 1222 110 58 ND 01 | 110            | BS EN 12200-1 | SE       | 110.0 - 110.3                | 2.2                        | 5.8              |
| 1222 160 58 ND 01 | 160            | BS EN 12200-1 | SE       | 160.0 - 160.4                | 3.2                        | 5.8              |

**NORMAL DUTY RAINWATER DOWNPIPE (SOCKET END)**

- Recommended for expose installation (High Rise)

| CODE NO.          | NOM. SIZE (mm) | SPECIFICATION              | PIPE END | MEAN OUTSIDE DIAMETER D (mm) | MIN. WALL THICKNESS e (mm) | LENGTH L (meter) |
|-------------------|----------------|----------------------------|----------|------------------------------|----------------------------|------------------|
| 1222 082 58 MD 01 | 82             | BS 4514/BS EN 12200-1      | SE       | 82.4 - 82.8                  | 3.0                        | 5.8              |
| 1222 110 58 MD 01 | 110            | BS EN 1329-1/BS EN 12200-1 | SE       | 110.0 - 110.4                | 3.2                        | 5.8              |
| 1222 160 58 MD 01 | 160            | BS EN 1329-1/BS EN 12200-1 | SE       | 160.0 - 160.4                | 4.0                        | 5.8              |
| 1222 200 58 MD 01 | 200            | BS EN 1329-1/BS EN 12200-1 | SE       | 200.0 - 200.5                | 4.9                        | 5.8              |
| 1222 250 58 MD 01 | 250            | BS EN 1329-1/BS EN 12200-1 | SE       | 250.0 - 250.5                | 6.2                        | 5.8              |
| 1222 315 58 MD 01 | 315            | BS EN 1329-1/BS EN 12200-1 | SE       | 315.0 - 315.6                | 7.7                        | 5.8              |

**MEDIUM DUTY / PN 10 RAINWATER DOWNPIPE (SOCKET END)**

- Recommended for low rise casting &amp; extreme expose installation

| CODE NO.           | NOM. SIZE (mm) | SPECIFICATION                                     | PIPE END | MEAN OUTSIDE DIAMETER D (mm) | MIN. WALL THICKNESS e (mm) | LENGTH L (meter) |
|--------------------|----------------|---------------------------------------------------|----------|------------------------------|----------------------------|------------------|
| 1222 110 58 P10 20 | 110            | BS EN ISO 1452/BS EN 12200-1/BS EN 1329-1/MS 1063 | SE       | 110.0 - 110.3                | 4.2                        | 5.8              |
| 1222 160 58 P10 20 | 160            | BS EN ISO 1452/BS EN 12200-1/BS EN 1329-1/MS 1063 | SE       | 160.0 - 160.4                | 6.2                        | 5.8              |
| 1222 200 58 P10 20 | 200            | BS EN ISO 1452/BS EN 12200-1/BS EN 1329-1/MS 1063 | SE       | 200.0 - 200.5                | 7.7                        | 5.8              |
| 1222 250 58 P10 20 | 250            | BS EN ISO 1452/BS EN 12200-1/BS EN 1329-1/MS 1063 | SE       | 250.0 - 250.5                | 9.6                        | 5.8              |
| 1222 315 58 P10 20 | 315            | BS EN ISO 1452/BS EN 12200-1/BS EN 1329-1/MS 1063 | SE       | 315.0 - 315.6                | 12.1                       | 5.8              |

The thickness comply to PN 10 (BS EN ISO 1452)

**HEAVY DUTY / PN 12.5 RAINWATER DOWNPIPE (SOCKET END)**

- Recommended for casting / underground columns

| CODE NO.           | NOM. SIZE (mm) | SPECIFICATION                                     | PIPE END | MEAN OUTSIDE DIAMETER D (mm) | MIN. WALL THICKNESS e (mm) | LENGTH L (meter) |
|--------------------|----------------|---------------------------------------------------|----------|------------------------------|----------------------------|------------------|
| 1222 056 58 P12 20 | 56             | BS EN ISO 1452/BS EN 1329-1/BS EN 12200-1         | SE       | 55.8 - 56.1                  | 3.0                        | 5.8              |
| 1222 082 58 P12 20 | 82             | BS EN ISO 1452/BS EN 12200-1/BS 4514/MS 1063      | SE       | 82.4 - 82.8                  | 4.6                        | 5.8              |
| 1222 110 58 P12 20 | 110            | BS EN ISO 1452/BS EN 1329-1/BS EN 12200-1/MS 1063 | SE       | 110.0 - 110.3                | 5.3                        | 5.8              |
| 1222 160 58 P12 20 | 160            | BS EN ISO 1452/BS EN 1329-1/BS EN 12200-1/MS 1063 | SE       | 160.0 - 160.4                | 7.7                        | 5.8              |
| 1222 200 58 P12 20 | 200            | BS EN ISO 1452/BS EN 1329-1/BS EN 12200-1/MS 1063 | SE       | 200.0 - 200.5                | 9.6                        | 5.8              |
| 1222 250 58 P12 20 | 250            | BS EN ISO 1452/BS EN 1329-1/BS EN 12200-1/MS 1063 | SE       | 250.0 - 250.5                | 11.9                       | 5.8              |
| 1222 315 58 P12 20 | 315            | BS EN ISO 1452/BS EN 1329-1/BS EN 12200-1/MS 1063 | SE       | 315.0 - 315.6                | 15.0                       | 5.8              |

The thickness comply to PN 12.5 (BS EN ISO 1452)

**ECOTECH PIPE (SOCKET END)**

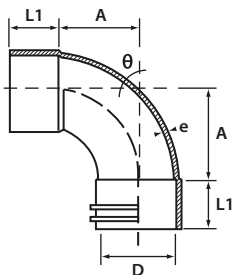
- Recommended for use in internal building rainwater downpipe (RWDP) systems in accordance with BS EN 1329-1 / BS 4514.

| CODE NO.             | NOM. SIZE (mm) | SPECIFICATION      | PIPE END | OUTSIDE DIAMETER D (mm) | MIN. WALL THICKNESS e (mm) | LENGTH L (meter) | TYPE OF PIPE |
|----------------------|----------------|--------------------|----------|-------------------------|----------------------------|------------------|--------------|
| 1232 082 58 01       | 82             | BS 4514/MS 1063    | SE       | 82.4 - 82.8             | 3.0                        | 5.8              | Normal Duty  |
| 1232 110 58 01       | 110            | BS EN 1329/MS 1063 | SE       | 110.0 - 110.3           | 3.2                        | 5.8              | Normal Duty  |
| 1232 160 58 01       | 160            | BS EN 1329/MS 1063 | SE       | 160.0 - 160.4           | 3.2                        | 5.8              | Normal Duty  |
| 1232 200 58 01       | 200            | BS EN 1329/MS 1063 | SE       | 200.0 - 200.5           | 3.9                        | 5.8              | Normal Duty  |
| 1232 250 58 01       | 250            | BS EN 1329/MS 1063 | SE       | 250.0 - 250.5           | 4.9                        | 5.8              | Normal Duty  |
| 1232 315 58 01       | 315            | BS EN 1329/MS 1063 | SE       | 315.0 - 315.6           | 6.2                        | 5.8              | Normal Duty  |
| 1232 160 58 01 BD 01 | 160            | BS EN 1329/MS 1063 | SE       | 160.0 - 160.4           | 4.0                        | 5.8              | Normal Duty  |
| 1232 200 58 01 BD 01 | 200            | BS EN 1329/MS 1063 | SE       | 200.0 - 200.5           | 4.9                        | 5.8              | Normal Duty  |
| 1232 250 58 01 BD 01 | 250            | BS EN 1329/MS 1063 | SE       | 250.0 - 250.5           | 6.2                        | 5.8              | Normal Duty  |
| 1232 315 58 01 BD 01 | 315            | BS EN 1329/MS 1063 | SE       | 315.0 - 315.6           | 7.7                        | 5.8              | Normal Duty  |

All socket ended pipes are for export market only

## HEAVY DUTY SWEEP BEND

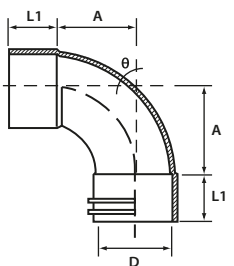
For solvent weld to pipe at both end  
Recommended for casting and lowest connection at the bottom of the stack to horizontal drainage pipe



| CODE NO.       | NOM. SIZE | ANGLE | DIMENSIONS (mm) |     |     | MIN W/T |
|----------------|-----------|-------|-----------------|-----|-----|---------|
|                | (mm)      | °     | L1              | A   | D   | e (mm)  |
| 2201 110 HD 20 | 110       | 87.5° | 51              | 73  | 110 | 5       |
| 2201 160 HD 20 | 160       | 87.5° | 76              | 120 | 160 | 7       |
| 2201 200 HD 20 | 200       | 89°   | 94              | 110 | 200 | 9       |

## SWEEP BEND

For solvent weld to pipe at both end



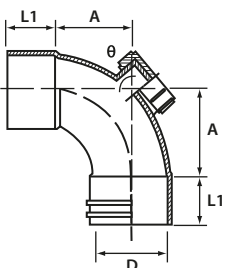
| CODE NO.     | NOM. SIZE | ANGLE | DIMENSIONS (mm) |     |     |
|--------------|-----------|-------|-----------------|-----|-----|
|              | (mm)      | °     | L1              | A   | D   |
| 2201 036 01  | 36        | 87.5° | 24              | 28  | 36  |
| 2201 043 01  | 43        | 87.5° | 28              | 27  | 43  |
| 2201 056 01* | 56        | 87.5° | 30              | 40  | 56  |
| 2201 082 01  | 82        | 87.5° | 45              | 71  | 82  |
| 2201 110 01* | 110       | 87.5° | 51              | 73  | 110 |
| 2201 160 01* | 160       | 87.5° | 76              | 120 | 160 |
| 2201 200 01* | 200       | 89°   | 94              | 118 | 200 |
| 2201 250 01  | 250       | 89°   | 86              | 144 | 250 |
| 2201 315 01  | 315       | 89°   | 102             | 185 | 315 |

\* Available in spigot/spigot and spigot/socket (upon request)

## SWEEP BEND (I/O)

with Inspection Opening

To solvent weld to pipe, fitted with inspection opening



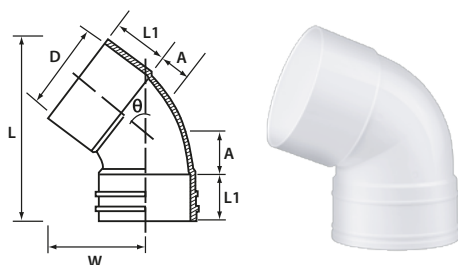
| CODE NO.      | NOM. SIZE | ANGLE | DIMENSIONS (mm) |     |     |
|---------------|-----------|-------|-----------------|-----|-----|
|               | (mm)      | °     | L1              | A   | D   |
| 2202 043 01   | 43        | 87.5° | 28              | 27  | 43  |
| 2202 056 01   | 56        | 87.5° | 30              | 40  | 56  |
| 2202 082 01   | 82        | 87.5° | 45              | 71  | 82  |
| 2202 110 01*  | 110       | 87.5° | 51              | 73  | 110 |
| 2202 160 01*  | 160       | 87.5° | 76              | 120 | 160 |
| 2202 200 01*  | 200       | 89°   | 102             | 137 | 200 |
| 2202 250 01   | 250       | 89°   | 86              | 144 | 250 |
| 2202 315 01 Δ | 315       | 89°   | 102             | 185 | 315 |

\* Available in spigot/spigot and spigot/socket (upon request)

Δ Fabrication item

## 68° BEND

To solvent weld to pipe



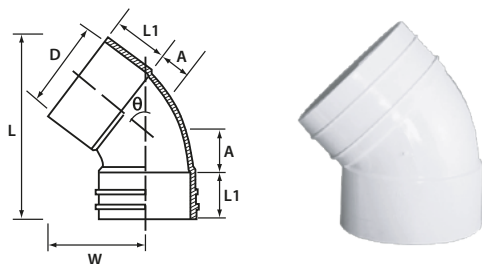
| CODE NO.     | NOM.<br>SIZE<br>(mm) | ANGLE |     | DIMENSIONS<br>(mm) |     |     |     |  |
|--------------|----------------------|-------|-----|--------------------|-----|-----|-----|--|
|              |                      | θ     | L   | L1                 | W   | A   | D   |  |
| 2205 110 01  | 110                  | 68°   | 205 | 52                 | 117 | 56  | 110 |  |
| 2205 160 01  | 160                  | 68°   | 290 | 80                 | 170 | 74  | 160 |  |
| 2205 200 01* | 200                  | 68°   | 370 | 100                | 126 | 96  | 200 |  |
| 2205 250 01Δ | 250                  | 68°   | -   | 70                 | -   | 100 | 250 |  |
| 2205 315 01Δ | 315                  | 68°   | -   | 220                | -   | 81  | 315 |  |

\* Available in spigot/spigot and spigot/socket (upon request)

Δ Fabrication item

## 45° BEND

To solvent weld to pipe



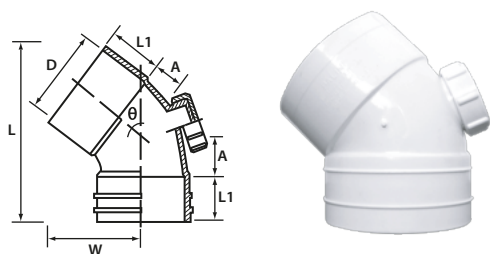
| CODE NO.     | NOM.<br>SIZE<br>(mm) | ANGLE |     | DIMENSIONS<br>(mm) |     |    |     |  |
|--------------|----------------------|-------|-----|--------------------|-----|----|-----|--|
|              |                      | θ     | L   | L1                 | W   | A  | D   |  |
| 2210 036 01  | 36                   | 45°   | 72  | 23                 | 37  | 6  | 36  |  |
| 2210 043 01  | 43                   | 45°   | 84  | 27                 | 45  | 8  | 43  |  |
| 2210 056 01  | 56                   | 45°   | 96  | 30                 | 53  | 10 | 56  |  |
| 2210 082 01  | 82                   | 45°   | 140 | 43                 | 74  | 15 | 82  |  |
| 2210 110 01  | 110                  | 45°   | 170 | 50                 | 93  | 20 | 110 |  |
| 2210 160 01  | 160                  | 45°   | 255 | 76                 | 140 | 30 | 160 |  |
| 2210 200 01  | 200                  | 45°   | 313 | 88                 | 185 | 48 | 200 |  |
| 2210 250 01* | 250                  | 45°   | 380 | 85                 | 230 | 75 | 250 |  |
| 2210 315 01* | 315                  | 45°   | 465 | 102                | 263 | 95 | 315 |  |

\* Available in spigot/spigot and spigot/socket (upon request)

## 45° BEND (I/O)

with Inspection Opening

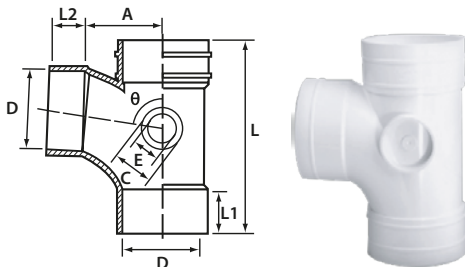
To solvent weld to pipe, fitted with inspection opening



| CODE NO.    | NOM.<br>SIZE<br>(mm) | ANGLE |     | DIMENSIONS<br>(mm) |     |    |     |  |
|-------------|----------------------|-------|-----|--------------------|-----|----|-----|--|
|             |                      | θ     | L   | L1                 | W   | A  | D   |  |
| 2203 056 01 | 56                   | 45°   | 96  | 30                 | 53  | 10 | 56  |  |
| 2203 082 01 | 82                   | 45°   | 140 | 43                 | 74  | 15 | 82  |  |
| 2203 110 01 | 110                  | 45°   | 170 | 50                 | 93  | 20 | 110 |  |
| 2203 160 01 | 160                  | 45°   | 255 | 76                 | 140 | 30 | 160 |  |
| 2203 200 01 | 200                  | 45°   | 302 | 102                | 185 | 70 | 200 |  |

## SWEEP BRANCH

To solvent weld to pipe, with integrally moulded socket to accept drainage pipe or boss adaptor for inspection opening



| CODE NO.       | NOM. SIZE | ANGLE<br>θ | DIMENSIONS (mm) |    |    |     |    |    |     |     |
|----------------|-----------|------------|-----------------|----|----|-----|----|----|-----|-----|
|                | (mm)      |            | L               | L1 | L2 | A   | C  | E  | D   | D1  |
| 2211 036 01    | 36        | 87.5°      | 93              | 23 | 23 | 30  | -  | -  | 36  | 36  |
| 2211 043 01    | 43        | 87.5°      | 109             | 27 | 27 | 31  | -  | -  | 43  | 43  |
| 2211 056 01    | 56        | 87.5°      | 136             | 30 | 30 | 45  | -  | -  | 56  | 56  |
| 2211 056043 01 | 56 X 43   | 87.5°      | 122             | 31 | 27 | 35  | -  | -  | 56  | 43  |
| 2211 082 01    | 82        | 87.5°      | 206             | 45 | 45 | 76  | -  | 43 | 82  | 82  |
| 2211 082056 01 | 82 X 56   | 87.5°      | 190             | 46 | 31 | 60  | -  | #  | 82  | 56  |
| 2211 110 01*   | 110       | 87.5°      | 250             | 50 | 50 | 75  | -  | 56 | 110 | 110 |
| 2211 110056 01 | 110x56    | 87.5°      | 207             | 51 | 31 | 75  | -  | 56 | 110 | 56  |
| 2211 110082 01 | 110x82    | 87.5°      | 220             | 51 | 45 | 75  | -  | 56 | 110 | 82  |
| 2211 160 01    | 160       | 87.5°      | 360             | 77 | 77 | 145 | 82 | 56 | 160 | 160 |
| 2211 160110 01 | 160x110   | 87.5°      | 312             | 76 | 48 | 120 | -  | 56 | 160 | 110 |
| 2211 200 01    | 200       | 89°        | 385             | 75 | 75 | 140 | -  | -  | 200 | 200 |
| 2211 200110 01 | 200x110   | 88°        | 294             | 60 | 48 | 110 | -  | #  | 200 | 110 |
| 2211 200160 01 | 200x160   | 87.5°      | 400             | 90 | 71 | 148 | -  | -  | 200 | 160 |
| 2211 250 01    | 250       | 89°        | 454             | 82 | 82 | 175 | -  | -  | 250 | 250 |
| 2211 250160 01 | 250x160   | 89°        | 350             | 79 | 57 | 136 | -  | -  | 250 | 160 |
| 2211 250200 01 | 250x200   | 89°        | 454             | 90 | 90 | 180 | -  | -  | 250 | 200 |
| 2211 315 01    | 315       | 89°        | 548             | 90 | 90 | 180 | -  | -  | 315 | 315 |
| 2211 315200 01 | 315x200   | 89°        | 417             | 91 | 69 | 175 | -  | -  | 315 | 200 |
| 2211 315250 01 | 315x250   | 89°        | 470             | 90 | 80 | 181 | -  | -  | 315 | 250 |

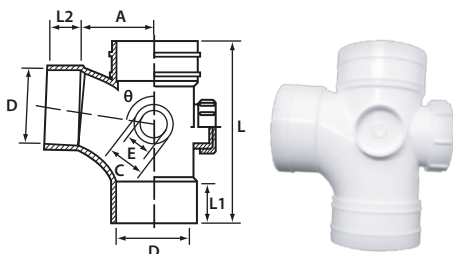
\* Available in spigot/spigot and spigot/socket (upon request)

# With boss adaptor

## SWEEP BRANCH (I/O)

with Inspection Opening

To solvent weld to pipe, with integrally moulded socket to accept drainage pipe  
Fitted with inspection opening



| CODE NO.        | NOM. SIZE | ANGLE<br>θ | DIMENSIONS (mm) |     |     |     |    |    |     |     |
|-----------------|-----------|------------|-----------------|-----|-----|-----|----|----|-----|-----|
|                 | (mm)      |            | L               | L1  | L2  | A   | C  | E  | D   | D1  |
| 2212 043 01     | 43        | 87.5°      | 109             | 27  | 27  | 31  | -  | -  | 43  | 43  |
| 2212 056 01     | 56        | 87.5°      | 136             | 30  | 30  | 45  | -  | -  | 56  | 56  |
| 2212 082 01     | 82        | 87.5°      | 206             | 45  | 45  | 76  | -  | 43 | 82  | 82  |
| 2212 110 01*    | 110       | 87.5°      | 250             | 50  | 50  | 75  | -  | 56 | 110 | 110 |
| 2212 160 01     | 160       | 87.5°      | 360             | 77  | 77  | 145 | 82 | 56 | 160 | 160 |
| 2212 160110 01  | 160x110   | 87.5°      | 312             | 76  | 48  | 120 | -  | 56 | 160 | 110 |
| 2212 200 01     | 200       | 89°        | 403             | 102 | 102 | 150 | -  | #  | 200 | 200 |
| 2212 200160 01  | 200x160   | 89°        | 337             | 75  | 65  | 150 | -  | -  | 200 | 160 |
| 2212 250 01     | 250       | 89°        | 454             | 82  | 82  | 175 | -  | -  | 250 | 250 |
| 2212 250200 01Δ | 250x200   | 89°        | 454             | 90  | 90  | 180 | -  | -  | 250 | 200 |
| 2212 315 01Δ    | 315       | 89°        | 548             | 90  | 90  | 180 | -  | -  | 315 | 315 |
| 2212 315250 01Δ | 315x250   | 89°        | 470             | 90  | 80  | 181 | -  | -  | 315 | 250 |

\* Available in spigot/spigot and spigot/socket (upon request)

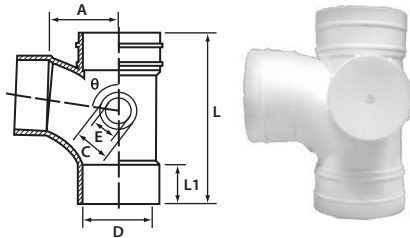
Δ Fabrication item

# With boss connector

## SWEEP BRANCH Left and Right (I/O)

with Inspection Opening (L/R)

To solvent weld to pipe, fitted with inspection opening from left / right

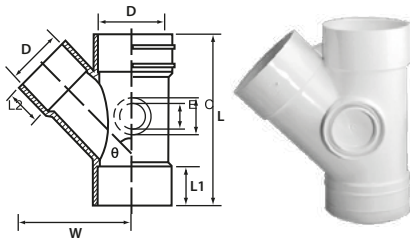


| CODE NO.        | NOM. SIZE<br>(mm) | ANGLE<br>θ | DIMENSIONS<br>(mm) |    |    |    |    |     |
|-----------------|-------------------|------------|--------------------|----|----|----|----|-----|
|                 |                   |            | L                  | L1 | A  | C  | E  | D   |
| 2212 110 LE 01• | 110               | 87.5°      | 250                | 52 | 80 | 56 | 76 | 110 |
| 2212 110 RI 01# | 110               | 87.5°      | 250                | 52 | 80 | 56 | 76 | 110 |

- Branch with left opening
- # Branch with right opening

## 45° Y BRANCH

To solvent weld to pipe, with integrally moulded socket to accept drainage pipe or boss adaptor for inspection opening



| CODE NO.       | NOM. SIZE<br>(mm) | ANGLE<br>θ | DIMENSIONS<br>(mm) |     |     |     |    |    |     |     |
|----------------|-------------------|------------|--------------------|-----|-----|-----|----|----|-----|-----|
|                |                   |            | L                  | L1  | L2  | W   | C  | E  | D   | D1  |
| 2213 056 01    | 56                | 45°        | 152                | 30  | 30  | 96  | -  | -  | 56  | 56  |
| 2213 082 01    | 82                | 45°        | 205                | 44  | 44  | 136 | -  | 43 | 82  | 82  |
| 2213 110 01    | 110               | 45°        | 266                | 51  | 51  | 175 | 75 | 56 | 110 | 110 |
| 2213 110056 01 | 110x56            | 45°        | 226                | 52  | 31  | 120 | -  | #  | 110 | 56  |
| 2213 110082 01 | 110x82            | 45°        | 257                | 52  | 45  | 150 | -  | #  | 110 | 82  |
| 2213 160 01    | 160               | 45°        | 405                | 75  | 75  | 251 | -  | #  | 160 | 160 |
| 2213 160110 01 | 160x110           | 45°        | 317                | 77  | 50  | 200 | 82 | 56 | 160 | 110 |
| 2213 200 01    | 200               | 45°        | 451                | 71  | 71  | 300 | -  | -  | 200 | 200 |
| 2213 200160 01 | 200x160           | 45°        | 410                | 70  | 58  | 265 | -  | -  | 200 | 160 |
| 2213 250 01    | 250               | 45°        | 573                | 84  | 84  | 385 | -  | -  | 250 | 250 |
| 2213 250160 01 | 250x160           | 45°        | 410                | 84  | 63  | -   | -  | -  | 250 | 160 |
| 2213 250200 01 | 250x200           | 45°        | 463                | 85  | 73  | -   | -  | -  | 250 | 200 |
| 2213 315 01Δ   | 315               | 45°        | 1035               | 200 | 200 | 610 | -  | -  | 315 | 315 |

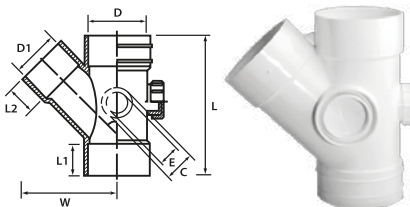
Δ Fabrication item

# With boss adaptor

## 45° Y BRANCH (I/O)

with Inspection Opening

To solvent weld to pipe, with integrally moulded socket to accept drainage pipe  
Fitted with inspection opening

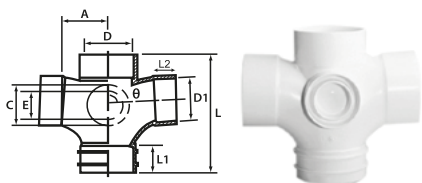


| CODE NO.        | NOM. SIZE<br>(mm) | ANGLE<br>θ | DIMENSIONS<br>(mm) |    |    |     |    |    |     |     |
|-----------------|-------------------|------------|--------------------|----|----|-----|----|----|-----|-----|
|                 |                   |            | L                  | L1 | L2 | W   | C  | E  | D   | D1  |
| 2214 056 01     | 56                | 45°        | 152                | 30 | 30 | 96  | -  | -  | 56  | 56  |
| 2214 082 01     | 82                | 45°        | 205                | 44 | 44 | 136 | -  | 43 | 82  | 82  |
| 2214 110 01     | 110               | 45°        | 266                | 51 | 51 | 175 | 75 | 56 | 110 | 110 |
| 2214 110082 01* | 110x82            | 45°        | 266                | 51 | 45 | 175 | 75 | 56 | 110 | 82  |
| 2214 160110 01  | 160x110           | 45°        | 317                | 77 | 50 | 200 | 82 | 56 | 160 | 110 |

\* Combination item comprising Branch (2213 110) and Bush Socket Reducer (2236 110 082)

## SWEEP DOUBLE BRANCH

To solvent weld to pipe, with integrally moulded socket to accept drainage pipe or boss adaptor for inspection opening



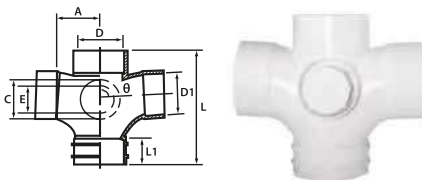
| CODE NO.        | NOM. SIZE | ANGLE | DIMENSIONS (mm) |    |    |     |    |    |     |     |
|-----------------|-----------|-------|-----------------|----|----|-----|----|----|-----|-----|
|                 | (mm)      | °     | L               | L1 | L2 | A   | C  | E  | D   | D1  |
| 2216 056 01     | 56        | 87.5° | 136             | 28 | 28 | 48  | -  | 43 | 56  | 56  |
| 2216 082 01     | 82        | 87.5° | 204             | 45 | 45 | 65  | -  | #  | 82  | 82  |
| 2216 110 01     | 110       | 87.5° | 246             | 50 | 50 | 80  | 82 | 56 | 110 | 110 |
| 2216 110056 01  | 110x56    | 87.5° | 207             | 52 | 32 | 78  | -  | #  | 110 | 56  |
| 2216 110082 01  | 110x82    | 87.5° | 220             | 52 | 45 | 78  | -  | #  | 110 | 82  |
| 2216 160 01     | 160       | 89°   | 320             | 60 | 60 | 105 | -  | -  | 160 | 160 |
| 2216 200 01     | 200       | 89°   | 385             | 70 | 70 | 135 | -  | -  | 200 | 200 |
| 2216 200 110 01 | 200x110   | 89°   | 282             | 68 | 48 | 115 | -  | -  | 200 | 110 |
| 2216 200 160 01 | 200x160   | 89°   | 325             | 68 | 58 | 110 | -  | -  | 200 | 160 |
| 2216 250110 01  | 250x110   | 89°   | 282             | 68 | 48 | 124 | -  | -  | 250 | 110 |
| 2216 250160 01  | 250x160   | 89°   | 300             | 68 | 58 | 122 | -  | -  | 250 | 160 |

# With boss adaptor

## SWEEP DOUBLE BRANCH (I/O)

with Inspection Opening

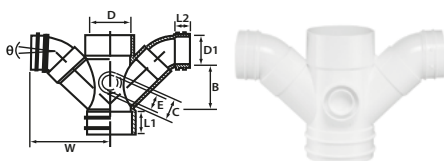
Socket Plug connected to integrally moulded socket to provide inspection opening



| CODE NO.    | NOM.<br>SIZE | ANGLE | DIMENSIONS<br>(mm) |    |    |    |    |     |     |
|-------------|--------------|-------|--------------------|----|----|----|----|-----|-----|
|             | (mm)         | °     | L                  | L1 | A  | C  | E  | D   | D1  |
| 2217 056 01 | 56           | 87.5° | 136                | 30 | 48 | -  | 43 | 56  | 56  |
| 2217 110 01 | 110          | 87.5° | 246                | 50 | 80 | 82 | 56 | 110 | 110 |

## SWEEP REDUCING DOUBLE BRANCH

To solvent weld to pipe, with integrally moulded socket to accept drainage pipe or socket plug for inspection opening



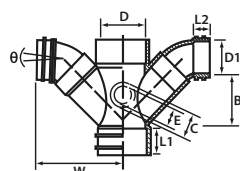
| CODE NO.       | NOM. SIZE | ANGLE | DIMENSIONS (mm) |    |     |     |    |    |     |     |
|----------------|-----------|-------|-----------------|----|-----|-----|----|----|-----|-----|
|                | (mm)      | °     | L1              | L2 | W   | B   | C  | E  | D   | D1  |
| 2216 160110 01 | 160x110   | 87.5° | 77              | 50 | 254 | 115 | 82 | 56 | 160 | 110 |

Combination of 2218 160 110 and 41° Bend

## SWEEP REDUCING DOUBLE BRANCH (I/O)

*with Inspection Opening*

Socket Plug connected to integrally moulded socket to provide inspection opening

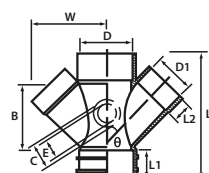


| CODE NO.       | NOM.<br>SIZE | ANGLE | DIMENSIONS<br>(mm) |    |     |     |    |    |     |     |
|----------------|--------------|-------|--------------------|----|-----|-----|----|----|-----|-----|
|                | (mm)         | Θ     | L1                 | L2 | W   | B   | C  | E  | D   | D1  |
| 2217 160110 01 | 160x110      | 87.5° | 77                 | 50 | 254 | 115 | 82 | 56 | 160 | 110 |

Combination item comprising Reducing Double Branch and 41° Bend

## 45° REDUCING DOUBLE BRANCH

with integrally moulded socket to accept drainage pipe

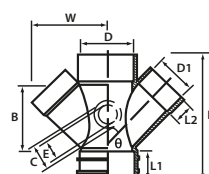


| CODE NO.       | NOM. SIZE | ANGLE |     | DIMENSIONS (mm) |    |     |     |    |    |     |     |
|----------------|-----------|-------|-----|-----------------|----|-----|-----|----|----|-----|-----|
|                | (mm)      | Θ     | L   | L1              | L2 | W   | B   | C  | E  | D   | D1  |
| 2218 160110 01 | 160x110   | 45°   | 320 | 71              | 50 | 195 | 153 | 82 | 56 | 160 | 110 |

## 45° REDUCING DOUBLE BRANCH (I/O)

*with Inspection Opening*

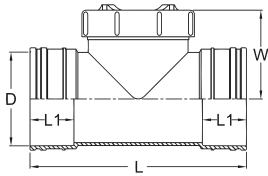
To solvent weld to pipe, with integrally moulded socket to accept drainage pipe. Fitted with socket plug for inspection opening



| CODE NO.       | NOM. SIZE | ANGLE |     | DIMENSIONS (mm) |    |     |     |    |    |     |     |
|----------------|-----------|-------|-----|-----------------|----|-----|-----|----|----|-----|-----|
|                | (mm)      | Θ     | L   | L1              | L2 | W   | B   | C  | E  | D   | D1  |
| 2219 160110 01 | 160x110   | 45°   | 320 | 71              | 50 | 195 | 153 | 82 | 56 | 160 | 110 |

## TEST OPENING

Allow access opening at any straight location with solvent weld together two lengths of soil or waste pipes

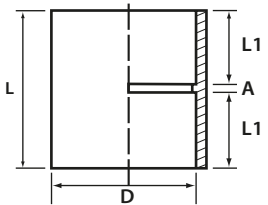


| CODE NO.   | NOM.<br>SIZE<br>(mm) | DIMENSIONS<br>(mm) |     |     |     |
|------------|----------------------|--------------------|-----|-----|-----|
|            |                      | L                  | L1  | W   | D   |
| TO82       | 82                   | 212                | 46  | 83  | 82  |
| TO110      | 110                  | 256                | 52  | 105 | 110 |
| TO160      | 160                  | 312                | 77  | 132 | 160 |
| TO200      | 200                  | 380                | 102 | 150 | 200 |
| TO82MF     | 82                   | 212                | 46  | 83  | 82  |
| TO110MF    | 110                  | 256                | 52  | 105 | 110 |
| TO160MF 01 | 160                  | 312                | 77  | 132 | 160 |

SNOW product

## STRAIGHT COUPLER

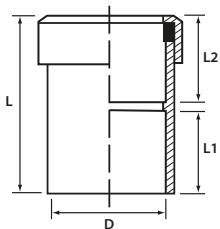
To solvent weld together two lengths of soil or waste pipes



| CODE NO.    | NOM.<br>SIZE<br>(mm) | DIMENSIONS<br>(mm) |     |   |     |
|-------------|----------------------|--------------------|-----|---|-----|
|             |                      | L                  | L1  | A | D   |
| 2225 036 01 | 36                   | 50                 | 24  | 2 | 36  |
| 2225 043 01 | 43                   | 59                 | 28  | 3 | 43  |
| 2225 056 01 | 56                   | 66                 | 32  | 2 | 56  |
| 2225 082 01 | 82                   | 97                 | 47  | 3 | 82  |
| 2225 110 01 | 110                  | 110                | 53  | 4 | 110 |
| 2225 160 01 | 160                  | 167                | 82  | 4 | 160 |
| 2225 200 01 | 200                  | 184                | 90  | 4 | 200 |
| 2225 250 01 | 250                  | 225                | 110 | 5 | 250 |
| 2225 315 01 | 315                  | 206                | 100 | 5 | 315 |

## EXPANSION COUPLER

To provide expansion joint for pipe connection or other material pipe connection

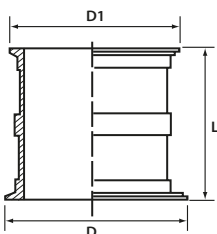


| CODE NO.    | NOM.<br>SIZE<br>(mm) | DIMENSIONS<br>(mm) |    |     |     |
|-------------|----------------------|--------------------|----|-----|-----|
|             |                      | L                  | L1 | L2  | D   |
| 2226 082 01 | 82                   | 113                | 47 | 63  | 82  |
| 2226 110 01 | 110                  | 133                | 53 | 75  | 110 |
| 2226 160 01 | 160                  | 190                | 82 | 104 | 160 |

Upon request

## PIPE SLEEVE

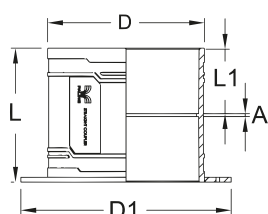
For cast into RC floor slab / concrete wall to provide a through socket for pipes



| CODE NO.    | NOM.<br>SIZE<br>(mm) | DIMENSIONS<br>(mm) |     |     |
|-------------|----------------------|--------------------|-----|-----|
|             |                      | L                  | D   | D1  |
| 2252 036 01 | 36                   | 112                | 72  | 56  |
| 2252 043 01 | 43                   | 112                | 79  | 68  |
| 2252 056 01 | 56                   | 112                | 92  | 76  |
| 2252 082 01 | 82                   | 112                | 120 | 104 |
| 2252 110 01 | 110                  | 112                | 147 | 131 |
| 2252 160 01 | 160                  | 163                | 199 | 184 |

## FABRICATED PIPE SLEEVE

For cast into RC floor slab / concrete wall for socket connection with pipes from top and bottom



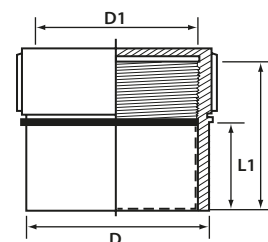
| CODE NO.     | NOM.<br>SIZE<br>(mm) | DIMENSIONS<br>(mm) |     |   |     |     |
|--------------|----------------------|--------------------|-----|---|-----|-----|
|              |                      | L                  | L1  | A | D   | D1  |
| 2252 200 01Δ | 200                  | 184                | 90  | 4 | 200 | 289 |
| 2252 250 01Δ | 250                  | 225                | 110 | 5 | 250 | 342 |
| 2252 315 01Δ | 315                  | 206                | 100 | 5 | 315 | 406 |

Δ Fabrication item

## SOCKET PLUG

with Screw on Cap

To plug the socket open-end of a pipeline to allow for later accessibility

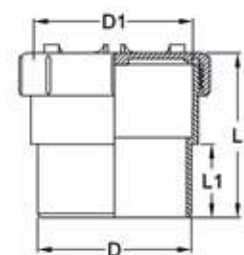


| CODE NO.       | NOM.<br>SIZE<br>(mm) | DIMENSIONS<br>(mm) |     |     |     |
|----------------|----------------------|--------------------|-----|-----|-----|
|                |                      | L                  | L1  | D   | D1  |
| 2229 036 01    | 36                   | 45                 | 23  | 36  | 32  |
| 2229 043 01    | 43                   | 50                 | 26  | 43  | 43  |
| 2229 056 01    | 56                   | 46                 | 28  | 56  | 52  |
| 2229 082046 01 | 82                   | 46                 | 23  | 82  | 76  |
| 2229 082067 01 | 82                   | 67                 | 44  | 82  | 76  |
| 2229 160 01    | 160                  | 120                | 102 | 160 | 145 |

# use for side opening of 82 mm, not as plug for normal socket

## ACCESS CAP AND PLUG (M/F)

To plug the socket open-end of a pipeline to allow for later accessibility as well as future connection by removing the cap

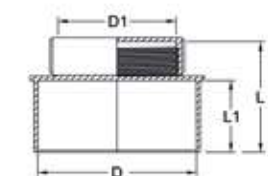


| CODE NO. | NOM.<br>SIZE<br>(mm) | DIMENSIONS<br>(mm) |    |      |
|----------|----------------------|--------------------|----|------|
|          |                      | L                  | L1 | D/D1 |
| AC100MF  | 110                  | 114                | 52 | 110  |
| AC150MF  | 160                  | 173                | 77 | 160  |

D is Spigot, D1 is Socket  
SNOW product

## END CAP WITH ACCESS OPENING

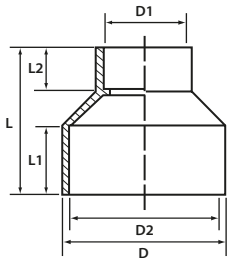
As an end cap to plug the open-end of a pipeline to allow for later



| CODE NO.       | NOM.<br>SIZE<br>(mm) | DIMENSIONS<br>(mm) |    |     |     |
|----------------|----------------------|--------------------|----|-----|-----|
|                |                      | L                  | L1 | D   | D1  |
| 2229 110082 01 | 110                  | 86                 | 50 | 110 | 76  |
| 2229 200 01    | 200                  | 113                | 68 | 200 | 160 |
| 2229 250 01    | 250                  | 152                | 79 | 250 | 200 |
| 2229 315 01    | 315                  | 165                | 90 | 315 | 200 |

## CONCENTRIC REDUCER

To allow for change in pipe diameter with both end socket connect directly with pipe

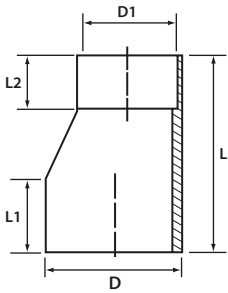


| CODE NO.         | NOM.<br>SIZE<br>(mm) | DIMENSIONS<br>(mm) |    |    |     |     |     |
|------------------|----------------------|--------------------|----|----|-----|-----|-----|
|                  |                      | L                  | L1 | L2 | D   | D1  | D2  |
| 2239 110056 01   | 110x56               | 109                | 50 | 28 | -   | 56  | 110 |
| 2239 160110 01 # | 160x110              | 145                | 75 | 49 | 160 | 110 | -   |

# D for 160mm is spigot

## LEVEL INVERT REDUCER (M/F)

To allow for change in pipe diameter with larger spigot end into socket for fitting or socketed pipe

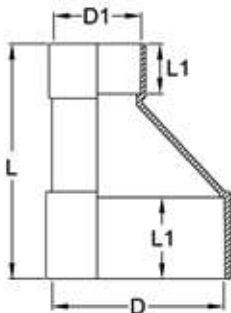


| CODE NO.       | NOM.<br>SIZE<br>(mm) | DIMENSIONS<br>(mm) |    |    |     |    |
|----------------|----------------------|--------------------|----|----|-----|----|
|                |                      | L                  | L1 | L2 | D   | D1 |
| 2244 056036 01 | 56x36                | 73                 | 25 | 28 | 56  | 36 |
| 2244 082056 01 | 82x56                | 105                | 45 | 27 | 82  | 56 |
| 2244 110056 01 | 110x56               | 150                | 56 | 31 | 110 | 56 |
| 2244 110082 01 | 110x82               | 126                | 50 | 43 | 110 | 82 |

D is spigot

## LEVEL INVERT REDUCER (F/F)

To allow for change in pipe diameter with both end socket connect directly with pipes

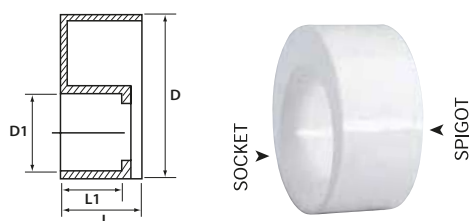


| CODE NO.       | NOM.<br>SIZE<br>(mm) | DIMENSIONS<br>(mm) |     |    |     |     |
|----------------|----------------------|--------------------|-----|----|-----|-----|
|                |                      | L                  | L1  | L2 | D   | D1  |
| 2244 200110 01 | 200x110              | 192                | 70  | 50 | 200 | 110 |
| 2244 200160 01 | 200x160              | 250                | 100 | 76 | 200 | 160 |
| 2244 250110 01 | 250x110              | 194                | 60  | 48 | 250 | 110 |
| 2244 250160 01 | 250x160              | 222                | 85  | 58 | 250 | 160 |
| 2244 250200 01 | 250x200              | 210                | 85  | 70 | 250 | 200 |
| 2244 315200 01 | 315x200              | 265                | 99  | 70 | 315 | 200 |
| 2244 315250 01 | 315x250              | 255                | 103 | 83 | 315 | 250 |

D and D1 are both socket

## BUSH / SOCKET REDUCER

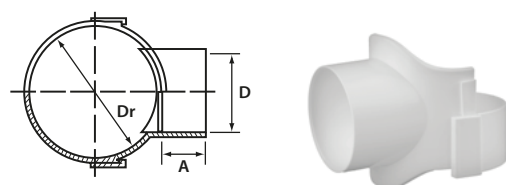
To allow for change in fittings socket diameter



| CODE NO.       | NOM.<br>SIZE<br>(mm) | DIMENSIONS<br>(mm) |    |     |     |
|----------------|----------------------|--------------------|----|-----|-----|
|                |                      | L                  | L1 | D   | D1  |
| 2236 043036 01 | 43x36                | 22                 | 19 | 43  | 36  |
| 2236 056036 01 | 56x36                | 28                 | 18 | 56  | 36  |
| 2236 056043 01 | 56x43                | 28                 | 21 | 56  | 43  |
| 2236 082056 01 | 82x56                | 38                 | 28 | 82  | 56  |
| 2236 110056 01 | 110x56               | 50                 | 27 | 110 | 56  |
| 2236 110082 01 | 110x82               | 50                 | 37 | 110 | 82  |
| 2236 160110 01 | 160x110              | 71                 | 48 | 160 | 110 |
| 2236 200160 01 | 200x160              | 90                 | 71 | 200 | 160 |
| 2236 250110 01 | 250x110              | 78                 | 48 | 250 | 110 |
| 2236 250160 01 | 250x160              | 78                 | 59 | 250 | 160 |
| 2236 315110 01 | 315x110              | 90                 | 48 | 315 | 110 |
| 2236 315160 01 | 315x160              | 90                 | 59 | 315 | 160 |
| 2236 315200 01 | 315x200              | 90                 | 75 | 315 | 200 |
| 2236 315250 01 | 315x250              | 90                 | 80 | 315 | 250 |

## BOSS CONNECTOR WITH BRACKET

To allow additional inlet / branch by boring the pipe, connect with solvent cement  
Incorporate a bracket specially designed to hold the boss connector in place during installation

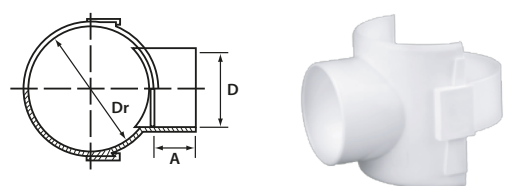


| CODE NO.       | NOM.<br>SIZE<br>(mm) | DIMENSIONS<br>(mm) |    |    |
|----------------|----------------------|--------------------|----|----|
|                |                      | Dr                 | D  | A  |
| 2243 082036 01 | 82x36*               | 82                 | 36 | 19 |
| 2243 082043 01 | 82x43*               | 82                 | 43 | 26 |
| 2243 082056 01 | 82x56                | 82                 | 56 | 31 |
| 2243 110082 01 | 110x82               | 110                | 82 | 45 |

\* Combination of Boss Connector & Bush Socket Reducer

## BOSS CONNECTOR WITH BRACKET

To allow additional inlet / branch by boring the pipe, connect with solvent cement  
Incorporate a bracket specially designed to hold the boss connector in place during installation

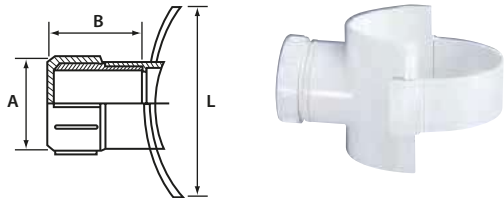


| CODE NO.       | NOM.<br>SIZE<br>(mm) | DIMENSIONS<br>(mm) |    |    |
|----------------|----------------------|--------------------|----|----|
|                |                      | Dr                 | D  | A  |
| 2243 110036 01 | 110x36*              | 110                | 36 | 19 |
| 2243 110043 01 | 110x43*              | 110                | 43 | 22 |
| 2243 110056 01 | 110x56               | 110                | 56 | 30 |
| 2243 160082 01 | 160x82               | 160                | 82 | 45 |

\* Combination of Boss Connector & Bush Socket Reducer

## INSPECTION OPENING & FRAME

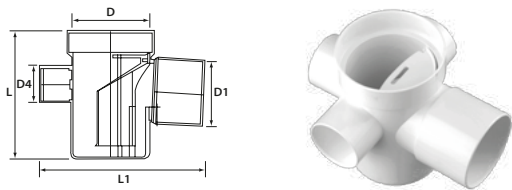
Allow inspection opening at the pipeline



| CODE NO.       | NOM.<br>SIZE<br>(mm) | DIMENSIONS<br>(mm) |    |    |
|----------------|----------------------|--------------------|----|----|
|                |                      | L                  | A  | B  |
| 2238 082056 01 | 82x56                | 92                 | 52 | 47 |
| 2238 110056 01 | 110x56               | 122                | 52 | 47 |
| 2238 110082 01 | 110x82               | 122                | 76 | 67 |
| 2238 160082 01 | 160x82               | 175                | 76 | 71 |

## TOP REMOVABLE TRAPPED FLOOR GULLY

Top cleaning access with integrally moulded socket 56 mm to accept drainage pipes

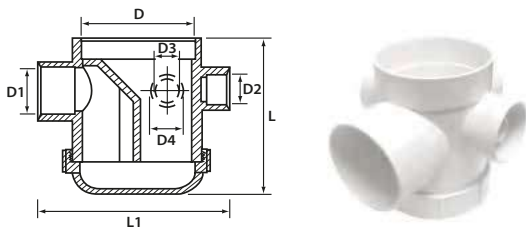


| CODE NO.    | NOM.<br>SIZE<br>(mm) | DIMENSIONS<br>(mm) |     |     |    |          |
|-------------|----------------------|--------------------|-----|-----|----|----------|
|             |                      | L                  | L1  | D   | D1 | D2-D3-D4 |
| 2260 110 01 | 110x82               | 174                | 220 | 110 | 82 | 56       |

## FLOOR GULLY WITH TRAP

with Trap & Inspection Opening

Bottom cleaning access with integrally moulded socket 56 mm to accept drainage pipes and air-con pipe

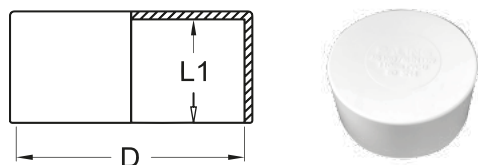


| CODE NO.       | NOM.<br>SIZE<br>(mm) | DIMENSIONS<br>(mm) |     |     |    |       |    |
|----------------|----------------------|--------------------|-----|-----|----|-------|----|
|                |                      | L                  | L1  | D   | D1 | D2-D4 | D3 |
| 2259 110082 01 | 110x82               | 170                | 200 | 110 | 82 | 56    | 15 |

**1** and **3** are equipped with 15 mm inlet to accept air-con pipe

## PUSH ON CAP

End cap to plug the open end of a pipeline

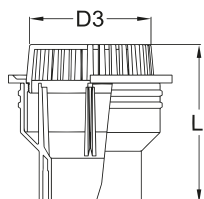


| CODE NO.       | NOM.<br>SIZE<br>(mm) | DIMENSIONS<br>(mm) |     |
|----------------|----------------------|--------------------|-----|
|                |                      | L1                 | D   |
| 2230 POC56 01  | 56                   | 30                 | 56  |
| 2230 POC82 01  | 82                   | 45                 | 82  |
| 2230 POC110 01 | 110                  | 52                 | 110 |
| 2230 POC160 01 | 160                  | 77                 | 160 |

SNOW product

## BALCONY OUTLET GRATING

Suitable for Normal & Medium duty pipe through grating  
2 in 1 - receive rainwater from the top connection and balcony

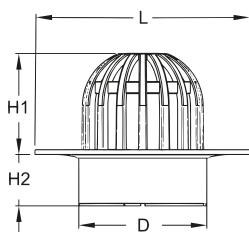


| CODE NO. | NOM. SIZE<br>(mm) | DIMENSIONS<br>(mm) |     |
|----------|-------------------|--------------------|-----|
|          |                   | D3                 | L   |
| B03SB213 | 82                | 119                | 199 |
| B04SB213 | 110               | 148                | 205 |
| B06SB213 | 160               | 198                | 237 |

SNOW product

## HEAVY DUTY DOME GRATING

To cap open end of rainwater stack at flat roof



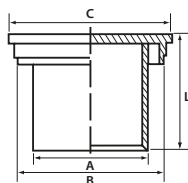
| CODE NO.        | NOM. SIZE<br>(mm) | DIMENSIONS<br>(mm) |     |    |     |
|-----------------|-------------------|--------------------|-----|----|-----|
|                 |                   | L                  | H1  | H2 | D   |
| 2264 110 HD 01  | 110               | 210                | 110 | 64 | 110 |
| 2264 160 HD 01  | 160               | 270                | 130 | 88 | 160 |
| 2264 200 HD 01  | 200               | 305                | 130 | 90 | 200 |
| 2264 250 HD 01Δ | 250               | 300                | 130 | 90 | 250 |
| 2264 315 HD 01Δ | 315               | 350                | 130 | 90 | 315 |

Δ Fabrication item

D is spigot

## GRATING

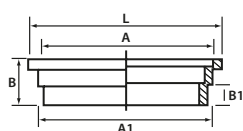
Can be seated into 82 mm or 110 mm drainage pipes for floor wells



| CODE NO.       | NOM. SIZE<br>(mm)                                               | DIMENSIONS<br>(mm) |     |
|----------------|-----------------------------------------------------------------|--------------------|-----|
|                |                                                                 | L                  | C   |
| 2254 110082 01 | 110x82                                                          | 73                 | 110 |
| A - 75 mm      | Seats inside 82 mm pipe bore                                    |                    |     |
| B - 110 mm     | Seats on 110 mm short length pipe solvent welded to Floor Gully |                    |     |

## EXTENTION GRATING COLLAR

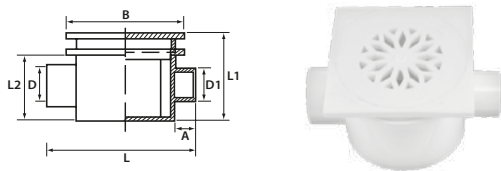
To be used as a collar for grating



| CODE NO.    | NOM. SIZE<br>(mm) | DIMENSIONS<br>(mm) |     |     |    |    |
|-------------|-------------------|--------------------|-----|-----|----|----|
|             |                   | L                  | A   | A1  | B  | B1 |
| 2255 110 01 | 110x14            | 118                | 110 | 110 | 33 | 14 |

## FLOOR GULLY WITH TRAP

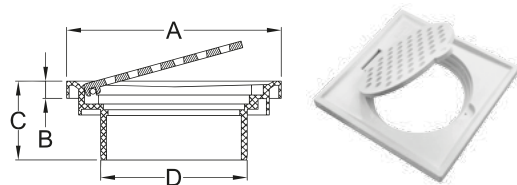
Floor Gully comes complete with water trap, extension grating collar and grating together with span-in-cover, outlet may be rodded by removing grating



| CODE NO.       | NOM. SIZE<br>(mm) | DIMENSIONS<br>(mm) |    |    |    |     |    |    |
|----------------|-------------------|--------------------|----|----|----|-----|----|----|
|                |                   | L                  | L1 | L2 | A  | B   | D  | D1 |
| 2258 110046 01 | 110x43            | 162                | 85 | 71 | 32 | 118 | 43 | 38 |

## SQUARE FLAT GRATING

with Edge, with or without Spigot

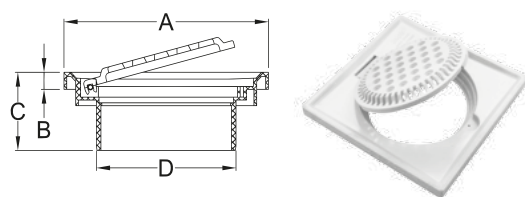


| CODE NO. | NOM. SIZE<br>(mm) | DIMENSIONS<br>(mm) |    |    |     |
|----------|-------------------|--------------------|----|----|-----|
|          |                   | A                  | B  | C  | D   |
| G150E    | 150x150           | 150x150            | 12 | 24 | 102 |
| G15030E  | 150x150           | 150x150            | 12 | 55 | 102 |

SNOW product

## SQUARE DOMED GRATING

with Edge, with or without Spigot

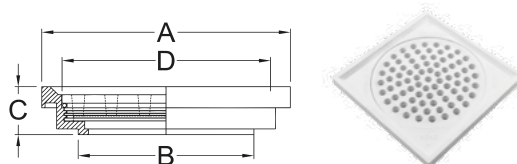


| CODE NO. | NOM. SIZE<br>(mm) | DIMENSIONS<br>(mm) |    |    |     |
|----------|-------------------|--------------------|----|----|-----|
|          |                   | A                  | B  | C  | D   |
| G150ED   | 150x150           | 150x150            | 12 | 24 | 102 |
| G15030ED | 150x150           | 150x150            | 12 | 55 | 102 |

SNOW product

## SQUARE SCREW FLAT GRATING (HEAVY DUTY)

with Edge, with or without Spigot

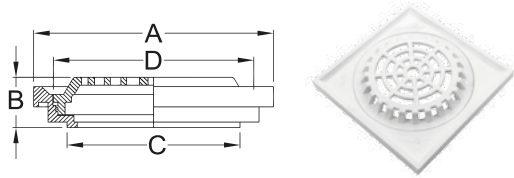


| CODE NO.  | NOM. SIZE<br>(mm) | DIMENSIONS<br>(mm) |     |      |        |
|-----------|-------------------|--------------------|-----|------|--------|
|           |                   | A                  | B   | C    | D      |
| G150SFE   | 150x150           | 150x150            | 106 | 29.5 | Thread |
| G15030SFE | 150x150           | 150x150            | 102 | 55   | Thread |

SNOW product

## SQUARE SCREW DOMED GRATING (HEAVY DUTY)

with Edge, with or without Spigot



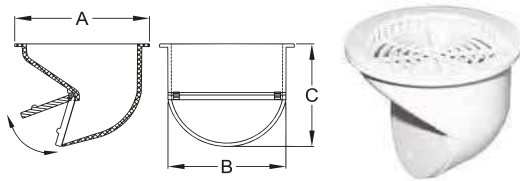
| CODE NO. | NOM.<br>SIZE<br>(mm) | DIMENSIONS<br>(mm) |    |     |        |
|----------|----------------------|--------------------|----|-----|--------|
|          |                      | A                  | B  | C   | D      |
| G150SD   | 150x150              | 150x150            | 22 | 103 | Thread |
| G15030SD | 150x150              | 150x150            | 55 | 102 | Thread |

SNOW product

## (MIS) ANTI-MOSQUITO DEVICE

Place in floor grating

Incorporate valve to allow one way water flow and prevent insect in the pipeline access into your home



| CODE NO. | NOM.<br>SIZE<br>(mm) | DIMENSIONS<br>(mm) |    |    |
|----------|----------------------|--------------------|----|----|
|          |                      | A                  | B  | C  |
| AMD98R   | 98                   | 98                 | 87 | 42 |
| AMD98S   | 98                   | 98                 | 87 | 80 |

SNOW product

## SOLVENT CEMENT



| CODE NO. | DESCRIPTION                            | GMS | TIN /<br>CARTON |
|----------|----------------------------------------|-----|-----------------|
| 60500 12 | Paling Coloursolve fast dry<br>(Green) | 500 | 20              |

## SOLVENT CEMENT REQUIREMENT FOR PVC-U PIPES & FITTINGS

| NOMINAL SIZE OF PIPE OR FITTING<br>(mm) | AMOUNT OF SOLVENT CEMENT REQUIRED PER JOINT<br>(g) | NO. OF POSSIBLE JOINTS |       |
|-----------------------------------------|----------------------------------------------------|------------------------|-------|
|                                         |                                                    | 100 g                  | 500 g |
| 15                                      | 1.3                                                | 76                     | 383   |
| 20                                      | 2.0                                                | 55                     | 250   |
| 25                                      | 2.5                                                | 40                     | 200   |
| 32                                      | 3.2                                                | 30                     | 156   |
| 40                                      | 5.0                                                | 20                     | 100   |
| 50                                      | 7.2                                                | 13                     | 69    |
| 80                                      | 12.0                                               | 8                      | 41    |
| 100                                     | 15.5                                               | 6                      | 32    |
| 155                                     | 26.0                                               | 2                      | 19    |
| 200                                     | 49.0                                               | 1                      | 10    |
| 250                                     | 75.5                                               | -                      | 6     |
| 315                                     | 108                                                | -                      | 4     |

## RECOMMENDATIONS ON BRUSH:

A : Pipes with diameter 25mm and below - use brush as accompanied and affixed to can

B : Pipes with diameter 32mm to 50mm - use 1" brush

C : Pipes with diameter 75mm to 200mm - use 2" brush

## PHYSICAL AND CHEMICAL PROPERTIES

**Flash point:** 15°C

### Flammable Mixture (UN No. 1133)

This solvent cement material will ignite at ambient temperatures. Colourless vapours may travel considerable distance to ignition sources and cause flash fires or explosions.

### Hazard Identification

May cause eyes and skin irritation, burns or dermatitis.

### Storage

Store in well-ventilated area. Keep away from heat, sparks and flame.

### Safety Advice

- Keep out of reach of children.
- Keep away from sources of ignition - No Smoking.
- Avoid contact with eyes.
- In case of fire, use chemical powder, foam or carbon dioxide.



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These systems are suitable for various applications and building types, including domestic, commercial, industrial and civil construction projects. Paling products are accurately designed to consistently exceed the performance aspects specified under widely recognized standards.

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Paling products are manufactured under an effective system of inspection, testing, supervision and control.



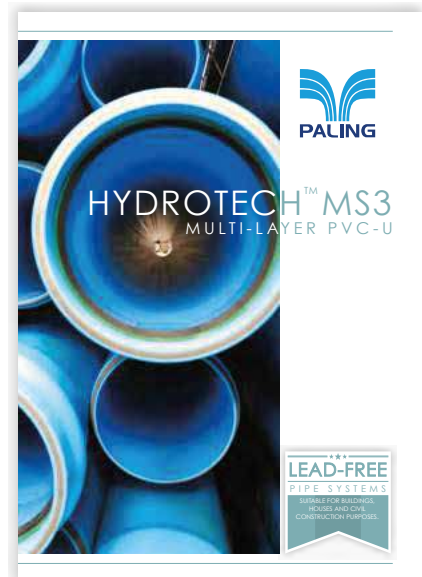
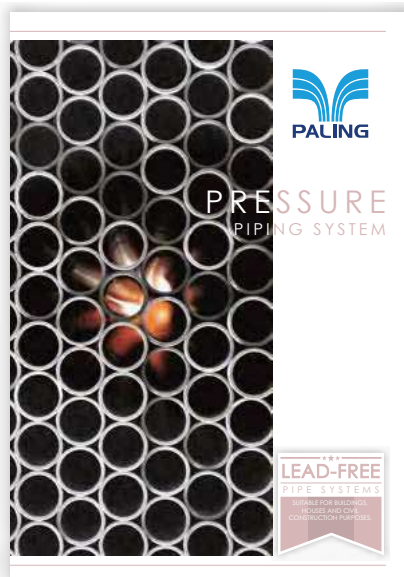
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NOTE :

: DATE



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