

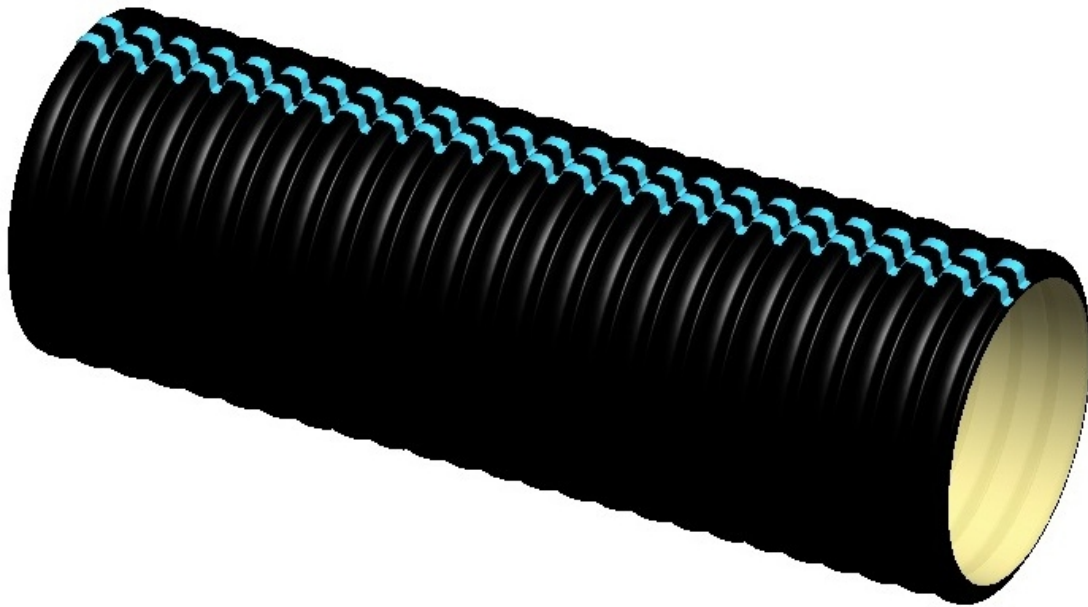
# MAXIpipe

## Corrugated Drainage Pipe

**MAXIdrain**  
Punched & Unpunched Drain Coil

**MAXIsock**  
Punched Drain Coil with sock

**MAXItwin**  
Twin-wall Punched Drain Pipe



## Advantages for engineers & contractors

Maxipipe is a corrugated pipe for non-pressure applications. Using modern co-extrusion techniques, the pipes can be manufactured with a smooth bore for optimum hydraulic performance and a corrugated outside for a high stiffness-to-weight ratio.

Combining the strength and toughness of advanced polymer systems with a unique wall structure, Maxipipe provides an environmentally sensitive and cost-effective piping solution for drainage and sewerage applications in nominal sizes from 100-750mm.

### Limitation of liability

No liability will be accepted by RD Manufacturing Ltd, nor is any guarantee, warranty or undertaking given or implied in respect of any act or omission by RD Manufacturing Ltd in respect to any injury, loss or damaged suffered by a customer, loss or damage suffered by a customer for or user of the MAXIpipe range, which may in any degree be attributed to the use of such products or their installation and testing or to the use of data, design materials or advice given by RD Manufacturing Ltd as to the use of these products or their installation or testing and not withstanding any want of care on the part of RD Manufacturing Ltd in compiling or giving any such advice or information.

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## Design & Performance advantages for engineers

High Density Polyethylene (HDPE) and Polypropylene (PP) Maxipipe are proven performers in the municipal, industrial, farming and forestry pipe markets. Engineered for gravity flow systems, an extensive range of Maxipipe designs are available to meet New Zealand standards and project requirements. Design and performance advantages include:

### STRENGTH

The corrugated exterior provides this product with its inherent minimum pipe stiffness. The smooth inner provides longitudinal stiffness which enables alignment and grade to be maintained in the trench during installation

### IMPACT RESISTANCE

Maxipipe can take bumps during handling, moving and installation. The combination of the flexible material and its unique corrugated exterior makes Maxipipe capable of sustaining impact in both warm and cold weather installations.

### UV RESISTANCE

Maxipipe contains carbon black additives to protect the product from ultraviolet light and all colours contain a minimum 0.2% HALS for up to 2 years UV protection when stored outdoors. This gives Maxipipe maximum weather resistance where continuous exposure to the elements is expected.

### CHEMICAL RESISTANCE

HDPE and PP have the highest chemical resistance of all traditional sewer products. Maxipipe gives the gravity flow sewer the same exceptional performance that HDPE and PP have exhibited in other civil applications, remaining tough and resistant under conditions that could seriously damage conventional materials.

### PH RESISTANCE

HDPE and PP provide excellent resistance to both acidic and alkaline environments in the range of 1.25 to 14.

### ABRASION RESISTANCE

Abrasion is the wearing of a pipe material surface caused by an abrasive material such as gravel or rock being carried by the flow. Tests indicate that HDPE (and to a slightly higher degree PP) is highly resistant to abrasion, giving it significant advantages over other pipe materials in abrasive environments.

### HYDRAULIC PERFORMANCE

Research and years of service have shown HDPE and PP smooth bore pipes offer flow characteristics that are superior to traditional materials such as concrete and vitrified clay. Using the Colebrook-White formula for water velocity in a smooth bore pipe, in laminar conditions widely recognised as the most accurate, the roughness coefficient  $k$  is as follows:

HDPE and PP	0.003 - 0.015
Concrete	0.030 - 0.150
Vitrified Clay	0.150 - 0.600

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## Installation advantages for contractors

The design and construction of Maxipipe offers a distinct weight advantage over conventional pipe. It provides ease of handling, positioning, installing and connecting which conventional pipes cannot match. Installation advantages include:

### SAVINGS ON INSTALLATION

Due to its light weight, less manpower and machinery is needed to transport, handle and connect Maxipipe compared with concrete pipe.

### FITTINGS

Maxipipe comes with a full range of fittings which are fabricated and plastic-welded. Standard fittings are readily available and custom-made fittings can be fabricated to suit special projects.

### FASTER INSTALLATION

Standard 6m lengths are easily handled using minimal equipment. Longer lengths mean less joins and less chance of leakage. Comparative production rates from US operators show corrugated pipe can be installed 25% faster than concrete pipe of the same diameter. Nominal diameters from 225-750mm are available in standard EPDM rubber ring spigot/socket configuration in 6m and 3m nominal lengths.

### IMPACT TOUGHNESS

Maxipipe is highly resistant to the rigours of installation handling in New Zealand's tough environment. Maxipipe can be installed with confidence in the hottest of summer and coldest of winter conditions.

### SAFER HANDLING

At less than 10% of the weight per metre of concrete pipe, Maxipipe gives the installer a big safety advantage. For example, a 2.4m length of 750mm diameter concrete pipe weighs more than 1700kg and an equal length of 750mm Maxistorm weighs less than 70kg.

### QUICK ON-SITE CUTTING

Maxipipe can be trimmed in minutes using a handsaw, jigsaw or chainsaw.

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