



WEIDALINE[®]

DOUBLEWALL SUBSOIL DRAINAGE PIPE



INTRODUCTION

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

- increase the stability of the ground and footings of buildings and road construction.
- lower the water tables
- alleviate groundwater pressures
- increase soil strength in road construction.
- reduce the hydrostatic and hydrodynamic pressure in road construction and retaining structure.

To achieve the above objectives, Weidaline Doublewall Subsoil Drainage Pipe has provided an effective and cost saving system compared to traditional pipe such as concrete porous pipe.

Weidaline Doublewall Subsoil Drainage Pipe is available in both perforated and non-perforated form. It's corrugated outer profile and smooth inner profile produces high flow capacity to suit variety of drainage applications.

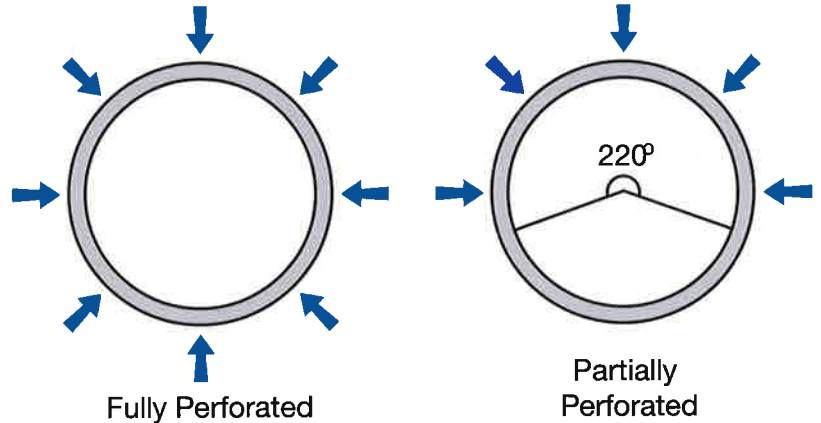
Weidaline Doublewall Subsoil Drainage Pipe are made from new material that are tough, has high strain and chemically inert to all soils and most chemicals which will ensure many years of trouble free service.

ADVANTAGES

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

PERFORATIONS

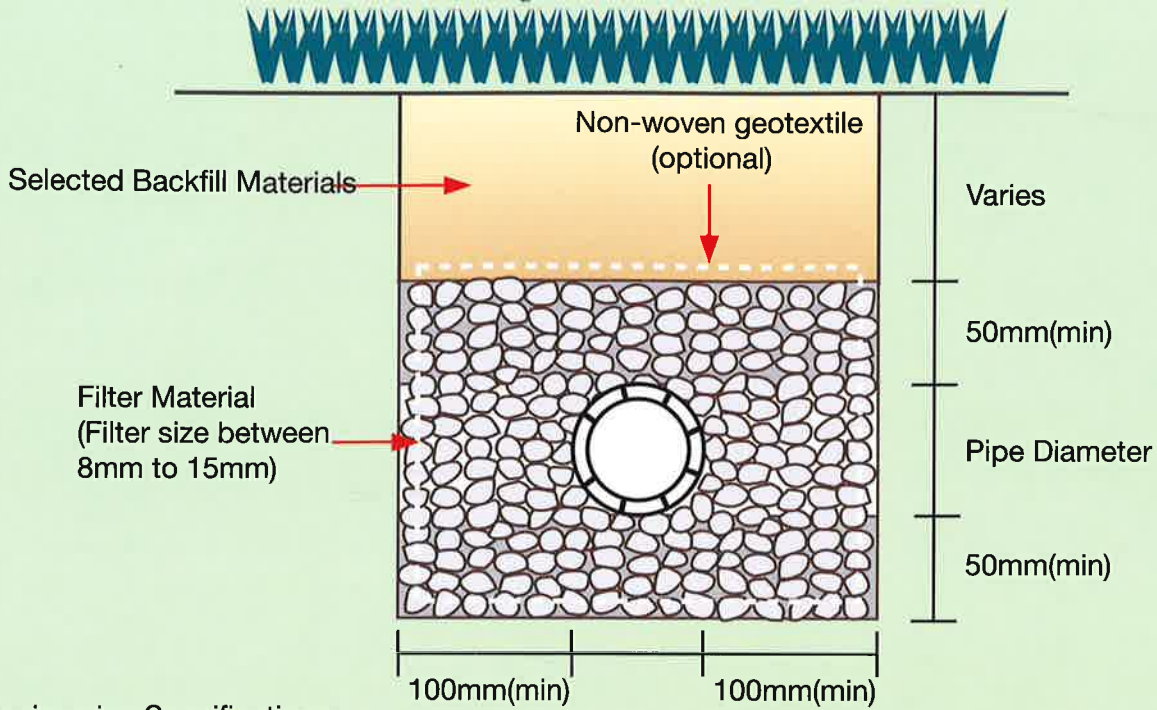
The perforations of Weidaline Doublewall Subsoil Drainage Pipe is designed in accordance with DIN 4262-1. It is uniformly slotted in rows at the valley of corrugations to maximise the water entrance area. Therefore, the area of perforations are more than 50cm²/m. It has 2 types of perforations: fully perforated and partially perforated.



PRODUCT SPECIFICATION

Nominal Diameter (mm)	Outside Diameter (mm)	Inside Diameter (mm)	Min Perforation Size (mm) W x L	No. of Perforation (No./m)	Water Entrance Area (cm ² /m)
100	120	100	1.2 x 30.0	4 x 75	108
150	175	150	1.2 x 30.0	4 x 50	72
225	260	225	1.2 x 36.0	6 x 35	88
300	350	300	1.2 x 40.0	6 x 22	62
375	445	375	1.2 x 45.0	6 x 20	65
450	525	450	1.2 x 45.0	6 x 17	55
600	695	600	1.2 x 40.0	8 x 14	53
750	892	750	1.2 x 55.0	8 x 10	52

TYPICAL TRENCH DESIGN



* To Engineering Specifications.

FILTER MATERIAL

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

TYPICAL SPACING AND DEPTH

Soil Type	Effective Spacing(m)	Depth (m)
Sand	12 - 20	1.8 - 2.0
Loam	8 - 12	1.2 - 1.6
Clay	2 - 6	0.6 - 1.0

FITTINGS



Straight Reducer



End Cap



Coupler



Elbow (45° & 90°)



Tee Branch
(Equal & Unequal)



Wye Branch
(Equal & Unequal)

APPLICATIONS



Golf Course and Sports Field



Airport Runway



Highway and Road



Landscaping, Park and Gardens

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

STANDARDS

DIN 16961: Part 1 & 2
Thermoplastics Pipes and Fittings
with Profiled Outer and
Smooth Inner Surfaces

DIN 4262: Part 1
PVC-U and PE-HD Subsoil and
Multi-Purpose Drain Pipes for use in
Road Construction and Civil Engineering

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