



Funded by
the European Union



TECHNICAL SPECIFICATION

**EMERGENCY CONSOLIDATION OF THE NORTHERN WALL PORTION OF THE
CASTLE OF LEZHA**

DRAINAGE SYSTEM



ATELIER 4
ARCHITECTURE • ENGINEERING • CONSULTING

1. Geotextile

Geotextile for pipe and drainage with high density (500gr).

Main function: protection, stabilization, drainage and filtration of soil.



15.3.19 Perforated pipe

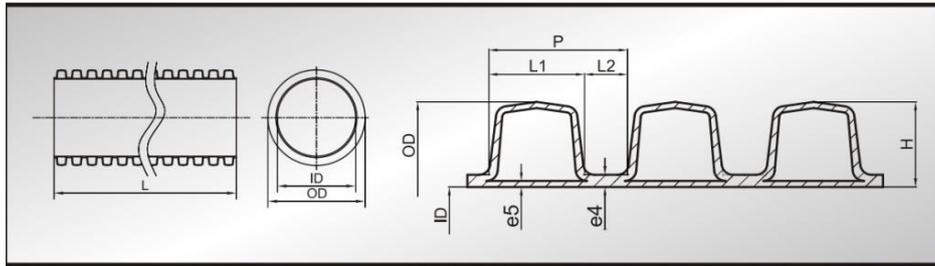
Perforated pipe is a high molecular density pipe with a number of small holes along the pipe.

A perforated drain pipe is designed in such a way that it allows water to enter or exit through a number of small holes along the pipe.

Characteristics:

- Flexibility for large amount of water
- High resistance material
- Flexible for quick use

Technical properties	Unit	Value	Testing method
MFR (190oC/2.16 kg)	gr/10 min	0.04-0.07	ISO 1133
Density	gr/cm ³	0.956	ISO 1183
Yield stress endurance	Mpa	22	ISO 527-2/1B/50,TS 1398
Breaking elongation	%	>600	ISO 527-2/1B/50,TS 1398
Elasticity module	Mpa	1000	ISO 527-2/1B/50,TS 1398
Thermal Endurance	min	>20	EN 728, ISO/TR 10837
Hardness	Shore D	66	ISO 868



DN/OD	Diameter tolerance	ID	H	e5	e4	P	L1	L2
110	± 2 %	93.80	8.1	0.9	2.1	11.5	6.5	3
125		107	9	1.0	2.3	12.5	8.5	4.5
140		122	9.3	1.1	2.3	13.5	9.8	3.6
160		138	11	1.1	2.3	17	12.5	4.5
200		176	12	1.2	2.5	23	16	7
250		221	14.5	1.7	3.6	27	20	7
315		275	20	1.9	3.8	34.5	26	8.5
400		348	26	2.2	4.9	40.6	30.1	10.5
500		432	34	2.3	5.2	52	39	13
630		550	42	2.7	5.4	66	54	12
800		693	53.5	3.0	5.6	75	61	14
1000		860	70	3.3	7.6	105	86	19