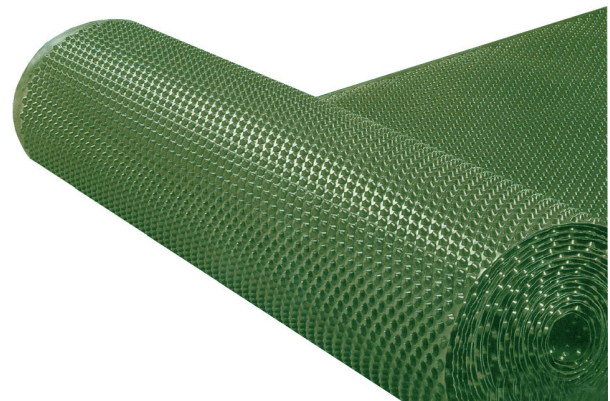




GENERAL DESCRIPTION

Drainage membranes **ESHADRAIN** consists of High Density Polyethylene (**H.D.P.E**) dimpled sheet. The drainage capability of membranes **ESHADRAIN** is based on the existence this dimpled configurations that creates the appropriate gap in order to control the water out of the drainage area. Produced also with laminated geotextile in one side.

These composite sheets provide outstanding drainage performance along with high physical properties including superb compressive strength in accordance with **EN 13967 (ESHADRAIN 400, 500, 600)** also give great resistance to various chemical agents. Installation of **ESHADRAIN** dimpled sheet is fast and easy, contributing to rapid and cost-efficient execution of the overall project.



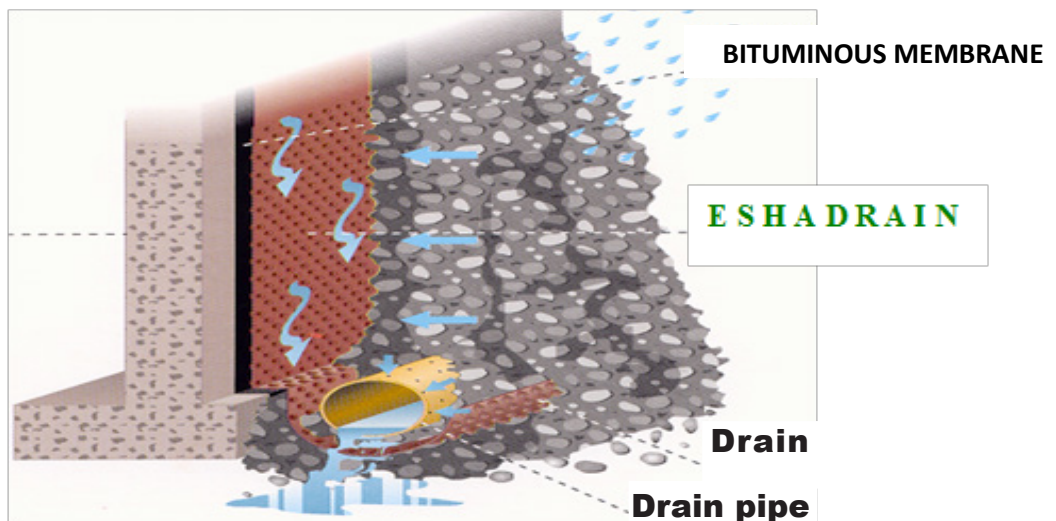
TYPICAL APPLICATIONS

ESHADRAIN applications :

- Protection for waterproofing
- Drainage on vertical surfaces to be backfilled
- Ideal material for blinding beds under reinforced concrete, providing advantages over expensive lean-concrete beds which require additional excavation.
- Protection of waterproofing membranes on roofs (planted or not) as separating layer - support material finished surfaces.
- Tunnels etc

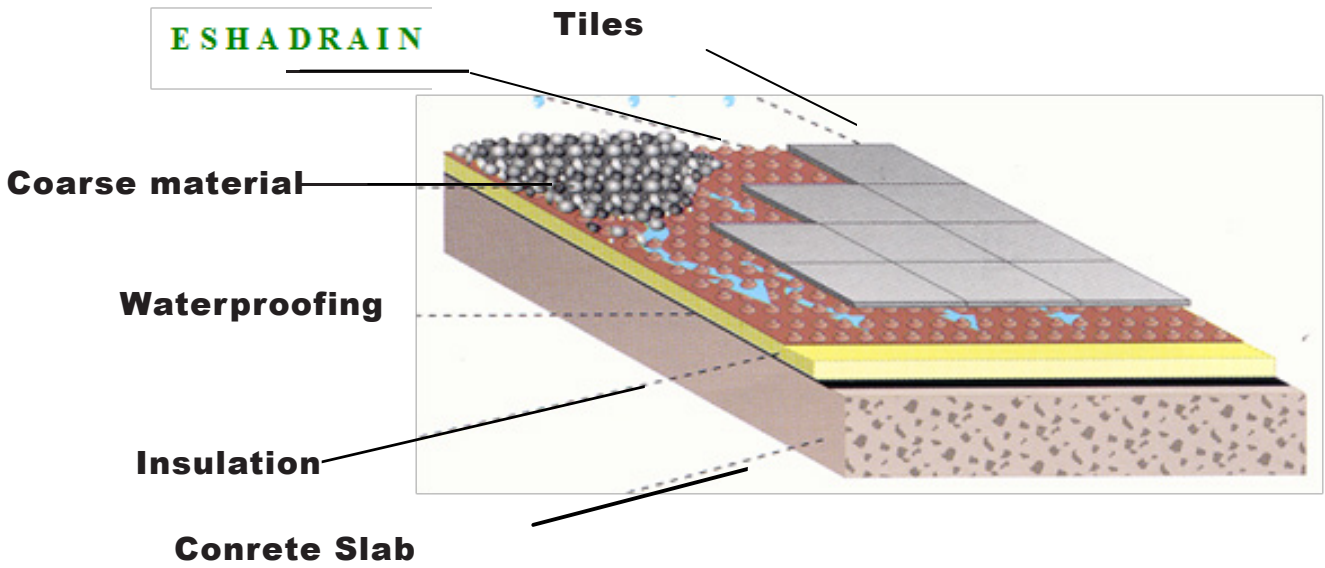
1. FOUNDATIONS AND VERTICAL ELEMENTS

Element layout

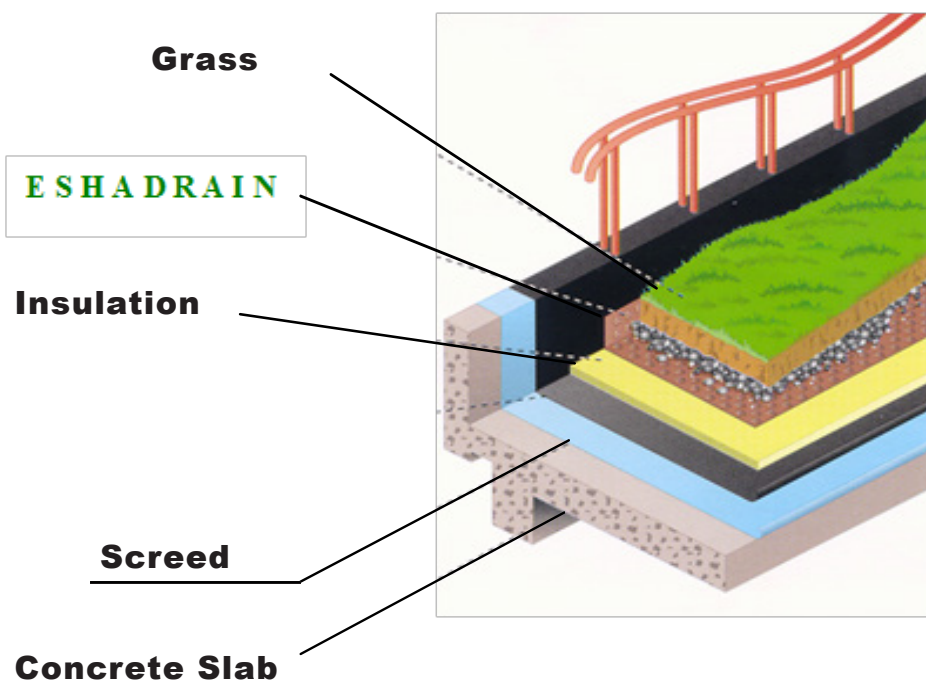




2. HORIZONTAL ROOFS AND TERRACES



3. Roof Gardens





TECHNICAL CHARACTERISTICS

PROPERTIES	UNIT	ESHADRAIN 400	ESHADRAIN 500	ESHADRAIN 600	STANDARD
MATERIAL		HIGH DENSITY POLYETHYLENE (H.D.P.E.)	HIGH DENSITY POLYETHYLENE (H.D.P.E.)	HIGH DENSITY POLYETHYLENE (H.D.P.E.)	
Geotextile					
Roll length	m	20 ± 5%	20 ± 5%	20 ± 5%	EN 1848-2
Roll height	m	2.00	2.00	2.00	EN 1848-2
Thickness	mm	0.35 ± 15%	0.40 ± 15%	0.44 ± 15%	EN 1849-2
Area weight	gr/m ²	400 ± 5%	500 ± 5%	600 ± 5%	EN 1849-2
Resistance to static loading	Kg	>20	>20	>20	EN12730
Maximum Tensile force	N/50mm	md 75 / 80 cmd	md 280 / 380cmd	md 460 / 470 cmd	EN 12311-1
Elongation	%	md 30 / 40 cmd	md 90 / 110 cmd	md 80 / 100 cmd	EN 12311-1
Resistance to tear (nail shank)	N	md 250 / 250 cmd	md 250 / 250 cmd	md 250 / 250 cmd	EN 12310-1
Resistance to deformation under load	KN/m ²	>155	> 190	> 250	Annex B EN13967 or EN25619
Water Tightness to liquid water		Pass	Pass	Pass	
Resistance to chemicals		Pass	Pass	Pass	
Resistance to biological agents (bacteria fungus, plant roots etc)		Pass	Pass	Pass	
Rolls per pallet		12	12	12	

For more information, please contact ESHA sales department at: sales@esha.gr

The information contained in this leaflet is, to the best of our knowledge, true and reliable and is supported by the present state of our knowledge. According to the care taken and the method of application, upon which we have no influence, the values are subject to divergence. Therefore for best results, prior to use, an application test should be made by the user under his own processing conditions.

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