Geotechnics

MebraDrain MD 7407*

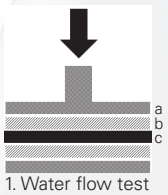
MebraDrain is one of the most frequently used vertical drainage systems in the world. The MebraDrain has a high tensile strength to prevent damage during installation. The vertical drain keeps a very high discharge capacity during consolidation, especially in buckled condition, which occurs after first settlement.

General			
Type			MD7407*
Configuration			
Material			PP/PP
Hydraulic properties drain			
Initial in plane flow capacity q(200,0.1)	EN ISO 12958	ml/m.s	100,0
Discharge capacity straight 30 days qw(300, 0.1) [1]	EN ISO 12958	ml/s	25,0
Discharge capacity buckled 30 days qw(200, 0.1) [1]	EN ISO 12958	ml/s	20,0
Mechanical properties drain			
Tensile strength	EN ISO 10319	kN	2,0
Elongation at 1,0 kN	EN ISO 10319	%	<2,5
Hydraulic properties filter			
Opening size O90	EN ISO 12956	µm	97
Water permeability	EN ISO 11058	mm/s	40
Dimensions			
Roll length		m	300
Drain width		mm	100
40 ft HC container (22 pallets)		km	151,8

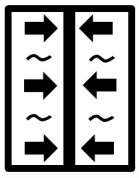
[1] Water flow capacity in the plane: This ASTM water flow test determines the short-term initial behavior of vertical drains in straight condition. Testing the drain under foam/foam condition without creep. Settlement, the drain is already determined and the condition will the buckled condition will become governing.

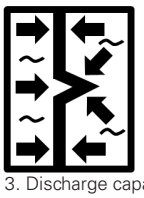
[2] Discharge capacity: This is the main property of a vertical drain. The 'Delfse test' determined the long-term behavior of vertical drains. The drain is test in pressurized water, simulating the earth's pressure, including creep.

[3] Discharge capacity buckled: (See 2) The latter is of great importance since drains deform along with the settlement, including creep.



1. Water flow test
a. Load b. Foam c. Drain


2. Discharge capacity test


3. Discharge capacity buckled test

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