



## DATA SHEET NO. 7100-205

### MEL-DRAIN™ Rolled Matrix Drainage System

#### DESCRIPTION

MEL-DRAIN is a dimple-raised, molded polystyrene sheet bonded to high strength polypropylene fabric. This geocomposite allows the passage of moisture through the fabric while preventing fine soils from entering the drainage channel. Various drain designs are available, depending on soil pressure and flow specifications. (An optional polyester backing film is available when used in conjunction with flexible waterproofing material.) The family of MEL-DRAIN products provides excellent protection in vertical, horizontal, and site applications.

#### USES

Used in conjunction with a total W. R. MEADOWS moisture protection system, MEL-DRAIN is the ideal choice for enhanced waterproofing protection of basement walls, plaza decks, earth-sheltered homes, commercial buildings, retaining walls, underground parking, site drainage, etc.

#### FEATURES/BENEFITS

- High flow capacity, without clogging/Relieves hydrostatic pressure build-up.
- High compressive strength/Dependable, long-life performance.
- Easy to install; durable under jobsite conditions/Lower total installed cost.
- Chemically resistant to all naturally-occurring soil conditions/Wide variety of applications.
- Provides added protection for waterproofing materials/Enhances waterproofing performance
- Part of a complete W. R. MEADOWS moisture protection system/Worry-free, single-source solution.

#### INSTALLATION

For vertical, below-grade applications, unroll MEL-DRAIN with flat, core side against the wall or waterproofing material. POINTING MASTIC or MEL-PRIME™ from W. R. MEADOWS are excellent adhesives compatible with this installation. The flat side core lip is overlapped to provide a continuous drainage layer. Extra filter fabric is provided at the edges for overlapping with the next sheet. MEL-DRAIN is easily cut with construction knives or scissors.

For horizontal applications, unroll and overlap so that water runs with overlap. Add appropriate ballast as needed to hold down drainage board.



Continued over ....

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**MASTERFORMAT NUMBER AND TITLE**  
07 10 00 – Dampproofing and Waterproofing

- WE Credit 2: Innovative Wastewater Technologies

**LEED INFORMATION**

May help contribute to LEED credits:

- EA Credit 1: Optimize Energy Performance
- IEQ Credit 3.1: Construction Indoor Air Quality Management Plan: During Construction
- IEQ Credit 7.1: Thermal Comfort – Design
- MR Credit 2: Construction Waste Management
- MR Credit 4: Recycled Content
- MR Credit 5: Regional Materials
- SS Credit 6.1: Stormwater Design – Quantity Control
- SS Credit 6.2: Stormwater Design – Quality Control
- WE Credit 1: Water-Efficient Landscaping



PHYSICAL PROPERTIES	5012	5012-B	5035*	5035-B*	6012	7012	7055	7555*	7572	9055	TEST METHOD (ASTM)
<b>FABRIC</b>											
Grab Tensile Strength, N	445	445	445	445	578	712	712	1,824 x 979	1,824 x 979	912	D 4632
Puncture Resistance, N	289	289	289	289	334	400	400	467	467	534	D 4833
Apparent Opening Size, mm	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.35	0.35	0.18	D 4751
Water Flow Rate, Lpm/m <sup>2</sup>	6,724	6,724	6,724	6,724	6,113	4,483	4,483	6,520	6,520	3,668	D 4491
Grab Elongation (%)	65	65	65	65	70	70	70	15	15	70	D 4632
UV Resistance (%/500 hrs.)	70	70	70	70	70	70	70	90	90	70	D 4355
Fabric Type	Non-Woven	Non-Woven	Non-Woven	Non-Woven	Non-Woven	Non-Woven	Non-Woven	Woven	Woven	No-Woven	
Permittivity	2.3 sec <sup>-1</sup>	2.3 sec <sup>-1</sup>	2.3 sec <sup>-1</sup>	2.3 sec <sup>-1</sup>	2.1 sec <sup>-1</sup>	1.8 sec <sup>-1</sup>	1.8 sec <sup>-1</sup>	2.3 sec <sup>-1</sup>	2.3 sec <sup>-1</sup>	1.3 sec <sup>-1</sup>	D 4491
<b>CORE</b>											
Compressive Strength, kPa	527	527	718	718	527	527	862	862	1436	862	D 1621
Flow Rate, Lpm/m <sup>2</sup> @ HG = 1.0	155	155	211	211	155	155	261	261	161	261	D 4716
<b>DRAIN BOARD</b>											
Thickness, mm	6.35	6.35	11.0	11.0	6.35	6.35	11.0	11.0	6.35	11.0	D 1777
Roll weight, kg	13.6	14.5	17.2	17.7	13.2	14.5	19.1	21.3	19.1	22.2	
Roll length, m	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	
Roll width, m	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	
Backing Film	No	Yes	No	Yes	No	No	No	No	No	No	

\*Available special order 1.83 m widths.

For most recent data sheet, further LEED information, and MSDS, visit [www.wrmeadows.com](http://www.wrmeadows.com).

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