



DATA SHEET NO. 7100-205

MEL-DRAIN™ Rolled Matrix Drainage System

DESCRIPTION

MEL-DRAIN drainage products combine geotextile filter fabrics with specially designed drainage cores. 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 compressive strength and flow rate requirements. (An optional polymeric backing film is available when used in conjunction with fluid-applied waterproofing material.) The family of MEL-DRAIN products provides excellent protection and drainage performance for vertical, horizontal, or site drainage 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.

PRECAUTIONS

Store materials in protected environment until time of installation. Materials not shipped in UV-resistant bags must be stored indoors or under separate UV-protective cover to protect materials from exposure to direct sunlight. UV-resistant bagged materials may be stored in outdoor UV-exposed environments for a cumulative maximum of 180 days. Limit unpackaged material UV exposure to a cumulative maximum of 14 days during installation. Do not install materials during high wind events. Do not expose materials to chemicals that are strong acids, strong bases, or high in solvents content. Protect materials from site construction damage, flames, and other environmental conditions that may damage the materials. It is not recommended that installation take place when the ambient temperature is below -6.6° or above 37.8°C. Do not install in applications where the long term operational temperature is expected to be below -18.9° C or above 65.6° C.

Continued over

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MASTERFORMAT NUMBER AND TITLE
07 10 00 – Dampproofing and Waterproofing



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MEL-DRAIN PRODUCTS			5012	5035	5835	7955	9055	9072
			5012-B	5035-B		7955-B	9055-B	9072-B
Physical Properties¹	ASTM Test Method	Unit of Measure						
FABRIC								
Materials ²			PP, NPNW	PP, NPNW	PP, NPNW	PP, WM	PP, NPNW	PP, NPNW
Water Flow Rate	D 4491	Lpm/m ²	6,724	6,724	6,724	5,909	4,075	4,075
		gpm/ft ²	165	165	165	145	100	100
Grab Tensile Strength	D 4632	lbs	100	100	100	365	205	205
		N	445	445	445	1,624	912	912
CBR Puncture	D 6241	lbs	275	275	275	675	580	580
		N	1,220	1,220	1,220	3,004	2,580	2,580
Apparent Opening Size	D 4751	sieve	70	70	70	40	80	80
		mm	0.212	0.212	0.212	0.425	0.180	0.180
CORE								
Thickness	D 1777	mm	6.35	10	10	10	10	6.35
		in	0.25	0.4	0.4	0.4	0.4	0.25
Compressive Strength	D 1621	kPa	527	718	718	862	862	1,436
		psf	11,000	15,000	15,000	18,000	18,000	30,000
Flow Rate ³	D 4716	Lpm/m	155	224	224	261	261	161
		gpm/ft	12.5	18	18	21	21	13
COMPOSITE								
Recycled Content ⁴		%	>70	>70	>70	>70	>65	>65
Roll Size		ft	4 x 50	4 x 50	6 x 50	6 x 50	4 x 50	4 x 50
Roll Weight		lbs	28, 29-B	38, 39-B	59	73, 74-B	53, 54-B	49, 50-B

¹ Unless otherwise noted, all physical and performance properties listed are Typical Values as defined in ASTM D 4439.

² PP = Polypropylene; HIPS = High Impact Polystyrene; NPNW = Needle-Punched Nonwoven; WM = Woven Monofilament

³ In-plane flow rate measured at 3,600 psf (172 kPa) compressive load and hydraulic gradient of 1.0.

⁴ Post-industrial recycled content by weight.

“-B” products include polymeric backing film.

W. R. MEADOWS offers MEL-DRAIN products and AASHTO Classified Geotextiles. All technical information contained in this document is accurate as of time of publishing. W. R. MEADOWS reserves the right to make changes to products and literature without notice. For more detailed information, please request specific MEL-DRAIN model.

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