TECHNICAL DATA SHEET

Henry MiraDRAIN

Prefabricated Drainage Composite

Physical Properties

	Test Method	Unit of Measure	MiraDRAIN 2000 & 2200	MiraDRAIN 2000S	MiraDRAIN 3800	MiraDRAIN 6000 & 6200	MiraDRAIN 9800
Fabric Properties							
Grab Tensile Strength	ASTM D4632	lbs	100	100	205	100	205
		N	445	445	912	445	912
Grab Elongation	ASTM D4632	%	65	65	60	65	60
CBR Puncture	ASTM D6241	lbs	275	275	580	275	580
		N	1,220	1,220	2,580	1,220	2,580
Trapezoidal Tear	ASTM D4533	lbs	50	50	80	50	80
		N	222	222	356	222	356
Apparent Opening Size (AOS)	ASTM D4751	sieve	70	70	80	70	80
		mm	0.212	0.212	0.180	0.212	0.180
Permittivity	ASTM D4491	sec^{-1}	2.4	2.4	1.5	2.4	1.5
Water Flow Rate	ASTM D4491	gpm/ft^2	165	165	100	165	100
		Lpm/m^2	6,724	6,724	4,075	6,724	4,075
Core Properties							
Thickness	ASTM D5199	in	0.25	0.25	0.25	0.4	0.4
		mm	6.35	6.35	6.35	10	10
Compressive Strength	ASTM D6364 ASTM D1621	psf	11,000	30,000	30,000	15,000	18,000
		kPa	527	1,436	1,436	718	862
Product Properties							
Flow Rate*	ASTM D4716	gpm/ft	12.5	13	13	18	21
		Lpm/m	155	161	161	224	261
Recycled Content		%	> 70	> 70	> 70	> 70	> 70
Roll Length		ft	50 ft	50 ft	50 ft	50 ft	50
Roll Width		ft	4 ft	4 ft	4 ft	4 ft	4 ft
Roll Weight		lbs	30	49	54	39	52

Unless otherwise noted, all physical and performance properties listed are Typical Values as defined in ASTM D4439.

*The Flow Rate published is for a hydraulic gradient of 1.0, which is typical for a vertical orientation. For the anticipated Flow Rate for horizontal applications, typically a hydraulic gradient of 0.1, contact Henry Technical Support.

Description

Henry MiraDRAIN products consist of multiple components designed to enhance the performance of Henry protected membrane roofing and waterproofing systems. **Henry MiraDRAIN** consists of a polystyrene or PVC core combined with a polypropylene fabric. Polymeric films attached to the **Henry MiraDRAIN** provide additional protection for softer waterproofing systems.

Features

- Integral part of a high performance Henry protected membrane roofing or waterproofing system
- Low installed cost compared to other drainage systems such as aggregates
- Easy to handle and install
- Strong and durable with very high compressive strength and tear resistance
- Chemically resistant
- High flow capacity

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Preparation

Ensure that the primary waterproofing system has been installed and inspected prior to covering with **Henry MiraDRAIN**. Flood tests may also need to be complete prior to the application of the **Henry MiraDRAIN**. When used as a protection board, ensure that work progresses from sheet to sheet to avoid damage to the waterproofing membrane.

Henry MiraDRAIN is used as a component of a Henry high performance protected membrane roofing assembly or waterproofing assembly in both horizontal and vertical applications. The **Henry MiraDRAIN** enhances the performance of the watertight layer by directing water quickly and safely to a drain and drain system. Used in protected membrane roofing applications, retaining walls, plaza deck waterproofing, parking structures, roof gardens and planters, foundation walls and other areas where a high performance system is desired.

MiraDRAIN 2000	Designed for vertical installations at shallower depths where moderate compressive strength is adequate.
MiraDRAIN 2200	Designed for vertical installations at shallower depths where moderate compressive strength is adequate. Polymeric film attached to membrane (back) side provides additional protection for softer waterproofing systems.
MiraDRAIN 2000S	Designed for horizontal installations requiring a high compressive strength and moderate flow capacity.
MiraDRAIN 3800	Designed for horizontal installations requiring high compressive strength, moderate flow capacity, and the strength and filtration properties of a high-performance nonwoven geotextile. Suitable for use under topping slab in split slab applications.
MiraDRAIN 6000	Designed primarily for vertical installations requiring high compressive strength and high flow capacity. Use is suitable for select horizontal applications.
MiraDRAIN 6200	Designed primarily for vertical installations requiring high compressive strength and high flow capacity. Use is suitable for select horizontal applications. Polymeric film attached to membrane (back) side provides additional protection for softer waterproofing systems.
MiraDrain 9800	Designed primarily for horizontal applications requiring high compressive strength, high flow capacity, and the strength and filtration properties of a high-performance nonwoven geotextile. Suitable for use under topping slab in split slab applications.

Application

Attach Henry MiraDRAIN to vertical surfaces using Henry cold applied adhesives, **Blueskin® PreSeal™ Tape 50S**, nails driven through washers above waterproofing system, or other approved method.

Vertical Application: Start at the top or bottom of the wall. Rolls may be applied horizontally or vertically. When installed horizontally, the edge of the core with the flange should be at the top. When installed vertically, the flange should be at the upstream edge. This flange position minimizes the seepage of water behind the drain similar to the way roof shingles work.

Horizontal Application: The edge of the core with the flange should be at the higher edges of the substrate, away from the drains.

Overlaps: Pull back loose fabric to expose drain core. Position core of second panel over the overlap flange of first panel. Overlap in direction of water flow. Tuck fabric behind core at all outside edges.

Corners: Bend drain to make inside corners. For outside corners, cut **Henry MiraDRAIN** to reach corner and provide 3” or extra fabric to wrap around corner. Attach drain to wall and overlap fabric at joint.

Backfilling: Soil should be placed and compacted directly against the drain.

Limited Warranty

Contact Warranty Department at www.henry.com/warranty or location shown below for product or systems warranty information.

Statement of Responsibility

The technical and application information herein is based on the present state of our best scientific and practical knowledge . As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use. Henry Company data sheets are updated on a regular basis; it is the user's responsibility to obtain and to confirm the most recent version. Information contained in this data sheet may change without notice.

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