

Sheet Drain Edge, Seam & Penetration Details for Blindside Applications

AWD single-sided flow geocomposite sheet drain products are commonly used in blindside applications where the drain mat is installed with fabric side towards an existing soil/lagging face by nailing through the back/plastic side of the drain mat. Backfill (compacted soil or formed/sprayed concrete) is then installed against the back/plastic side of the drain mat. Please refer to AWD's standard installation details for reference.

In blindside applications, care should be taken to insure sheet drain is properly installed utilizing the flat plastic flange on the long edge of each roll to connect one roll to the next. Fabric flaps are provided on the top and bottom edges of each roll for covering seams between rolls or folding and securing around outside/terminating edges to prevent backfill from entering core. If additional security is desired, rolls can be connected by interlocking the dimples of the core at each joint and tapping in place with a rubber hammer.

Care should also be taken when backfilling to insure material is not able to enter the sheet drain core through roll seams on the back/plastic side of the drain mat. For additional security, underground rated tape can be used to seal roll seams prior to backfill. AWD recommends and supplies 4"-wide *AWD Fitting & Joint Tape* for this purpose.

Penetrations (such as pipes) through the sheet drain should be sealed using an underground rated tape to insure backfill is not able to enter the sheet drain core. AWD recommends and supplies 4"-wide *AWD Fitting & Joint Tape* for sealing penetrations.

Cuts in the fabric and/or core less than 3" in diameter should be sealed using an underground rated tape to insure backfill is not able to enter the sheet drain core. AWD recommends and supplies 4"-wide *AWD Fitting & Joint Tape* for sealing fabric and/or core cuts less than 3" in diameter.

Damage to the fabric and/or core larger than 3-inches in diameter requires a repair patch. The damaged area should be cut and removed using a utility knife. A repair patch should be cut from an undamaged roll of product in a size 3-6" larger on all sides than the damaged area removed. Install repair patch over damaged area by peeling back fabric and interlocking dimples where connection is made to undamaged material. Repair patch may also be attached to surface (using adhesives, anchors, etc.) if additional security is desired. Edges of repair patch should be sealed using an underground rated tape to insure backfill is not able to enter the sheet drain core. AWD recommends and supplies 4"-wide *AWD Fitting & Joint Tape* for sealing repair patch edges.

A data sheet for *AWD Fitting & Joint Tape* has been attached for reference. *AWD Fitting & Joint Tape* is acceptable and compatible for use with all AWD products. Other tapes designed for underground use are acceptable as long as they provide a strong bond and do not deteriorate over time in typical or anticipated subsurface conditions.

Please contact AWD Technical Support at (800) 242-9425 with any questions.

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AWD FITTING & JOINT TAPE



PRODUCT DESCRIPTION

AWD Fitting & Joint Tape is recommended for the sealing, seaming, terminating, and connection of AWD Fittings and AWD geocomposite drainage products as referenced in AWD literature, including installation guides, CAD details, and technical bulletins. AWD Fitting & Joint Tape is designed for underground use and provides a strong bond that will not deteriorate over time in typical subsurface conditions.

AWD Fitting & Joint Tape has...

- 40 mil thick composite member,
- Reinforced polyolefin base, laminated to a polypropylene layer
- Adhesive-backed with removable release liner

PHYSICAL PROPERTIES	TEST METHOD	UNIT OF MEASURE	Typical Value
Tensile Strength Machine Direction (Force) Cross Direction (Force)	ASTM D751-95	lbs	130
		lbs	124
Trapezoidal Tear Strength Machine Direction (Force) Cross Direction (Force)	ASTM D4533-91	lbs	46
		lbs	44
Mullen Burst	ASTM D751-95	psi	180
UV Exposure (2000 hours)	ASTM G154-98	%	>90
Permeability (MVTR)	ASTM E96-B	Perms	<0.075
Recycled Content	CALCULATED	%	>45
Roll Size	MEASURED	in x ft	4 x 75