



INSTALLATION QUALITY ASSURANCE MANUAL | AMERICAS

Geonet and geocomposite products



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1. INTRODUCTION

This manual provides an overview of the Solmax Installation Quality Assurance procedures consistent with industry accepted practices to ensure that the Solmax's geonet and geocomposite products installed will best perform for its intended purpose. All installation work will be performed in strict accordance per the customer's specifications.

2. ROLL PACKAGING

Solmax geocomposite rolls shall be shipped from the factory in an opaque protective covering to prevent damage and UV degradation. However, Solmax geonets do not need to be further protected from UV degradation during shipping or storage.

3. MATERIAL DELIVERY

1. Upon arrival on site, QA personnel will take stock of all materials on-site.
2. Roll numbers will be logged on the Inventory Check List and cross-referenced with the Bill of Lading.
3. Copies of the Inventory Check List and signed Bill of Lading should be sent to Solmax's corporate headquarters while the on-site QA personnel retains the original copies.
4. Any visible damage to roll materials should be noted on the roll and Inventory Check List.

4. UNLOADING AND STORAGE PROCEDURES

1. Rolls of material shall be unloaded with equipment that will not damage the geonet or geocomposite.
2. Fabric-straps, spreader bars, stinger bars, or other approved equipment shall be used for handling rolls of geonets and geocomposites.
3. Materials should be stored in a flat, dry, and well drained area.
4. The surface shall be free of sharp rocks or other objects that could damage the materials.

5. SUBGRADE PREPARATION

The subgrade shall be free of sharp rocks or other objects that could cause damage to the materials.

6. DEPLOYMENT

Geonets and geocomposites shall be handled in a careful manner to ensure that they are not damaged in anyway.

1. On slopes, the material shall be anchored in the anchor trench and then rolled down the slope in such a manner as to continually keep the material under tension.
2. Tri-planar and tri-axial geonets and geocomposites direct flow predominately in the machine direction (along the roll length) and thus should be installed in the intended direction of flow.
3. Tri-Axial geonets and geocomposites have a side where the geonet (or the geonet component) presents a pattern of circles aligned in rows and columns, which is designed to reduce the intrusion of soft surfaces and therefore is intended to be placed against the soil.
4. In the presence of wind, the leading edge of the material shall be weighted with temporary ballasting, such as sandbags, until the final cover is placed.
5. Care shall be taken to ensure that any underlying layers are not damaged during placement. Low ground pressure machines, such as ATV's, to facilitate deployment over the geosynthetic layers is allowed. Low ground pressure machines are machines with a ground pressure less than 8 psi.
6. Care shall be taken to avoid entrapment of stones, mud, and other materials during placement operations.

7. OVERLAP AND SEAMS

1. The recommended geonet overlap in the machine direction is 3.0 in to 5.0 in / 7.62 cm to 12.7 cm. The recommended overlap in the transverse direction is 6.0 in to 12.0 in / 15.24 cm to 30.48 cm.
2. On slopes, the ends of the materials shall be shingled down in the direction of the slope.
3. A plastic cable tie should be placed once every 5 linear feet / 1.5 metres in the machine direction and once every linear foot in the transverse direction.
4. If the product is a geocomposite, the geotextile on the bottom shall be overlapped and the geotextile on top shall be overlapped, sewn, or heat bonded. The exact seaming method or overlap is typically specified in project construction documents.

8. COVER SOIL PLACEMENT

1. Prior to placement of cover soil, a Certificate of Acceptance must be signed by a responsible party and an installer's representative.
2. Any cover material, such as soil, that is placed over the drainage material shall be placed with care to ensure the material is not damaged.
3. Care shall be taken to minimize any movement of the geonet or geocomposite and to ensure that no tensile stress is induced in the material.
4. Cover soils deployed over the geonet or geocomposite should be free of all sharp objects, sharp rocks, and sticks.
5. Wide track equipment should be used to distribute cover soil over the geocomposite.
6. Cover soils shall be placed over the geocomposite starting from the bottom of the slope proceeding upwards.

APPENDIX B: CERTIFICATE OF ACCEPTANCE

Solmax

Job: _____ Project: _____

Client: _____ Bill to: _____

Job description: _____

% Complete of total job: _____

Material	Estimated square (feet / yards)	Final quantity / description

I, the undersigned, duly representative of: _____

do hereby take over and accept the work described above from the date hereof and confirm to the best of my knowledge the work has been completed in accordance with specifications and the terms and conditions of the contract.

Name: _____ Signature: _____

Title: _____ Bill Date: _____

Certificate accepted by SOLMAX Representative.

Name: _____ Signature: _____

Title: _____ Bill Date: _____

About Solmax

Solmax is a world leader in sustainable construction solutions, for civil and environmental infrastructure. Its pioneering products separate, contain, filter, drain and reinforce essential applications in a more sustainable way – making the world a better place.

The company was founded in 1981, and has grown through the acquisition of GSE, TenCate Geosynthetics and Propex. It is now the largest geosynthetics company in the world, empowered by more than 2,000 talented people. Solmax is headquartered in the province of Quebec, Canada, with subsidiaries and operations across the globe.

Uncompromised quality

Our products are manufactured to strict international quality standards. All our products are tested and verified at our dedicated and comprehensive laboratories which maintain numerous accreditations. We offer our partners a wide scope of testing according to published standards to ensure products delivered to sites meet specified quality requirements.

Let's build infrastructure better



Solmax is not a design or engineering professional and has not performed any such design services to determine if Solmax's goods comply with any project plans or specifications, or with the application or use of Solmax's goods to any particular system, project, purpose, installation, or specification.

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