Jul 8th, 2025

GAI-LAP
Initial: QVZ/ Steve Xi #: 79
DATE: 07/08/2025

Yan Tao
Geoleed Engineering Materials Co., Ltd 泰安瑞丰工程材料有限公司
Workshop 1, New Material R&D and Production Project, No. 3777,
Longteng Road, Beijipo Sub-District Office, Gaoxin District
Taian, Shandong Province, China

Re: FINAL LABORATORY TEST REPORT 最终实验室检测报告

Dear Mr. Yan:

Thank you for consulting TRI Suzhou for your material testing needs.
感谢选用 TRI 苏州实验室为您检测材料
Enclosed is the ***final*** laboratory report for the **Conformance** testing of **three (3) Axial Geogrid samples**.
附上一份 3 个单向格栅样品的最终符合性实验室检测报告

PROJECT NAME 项目名称: Geogrid Testing DATE REPORTED 报告日期: **Jul 8th, 2025**

REFERENCE TRI JOB NO.涉及工作编号: SCH25161

DATE RECEIVED 接收日期: June 13th, 2025

SAMPLE(S) SENT BY 送样人: Geoleed Engneering Materials Co., Ltd

SAMPLE IDENTIFICATIONS 样品信息:

SAMPLE ID 样品 ID	*TRI CONTROL NUMBER 受控编号*
90kN	12816
120kN	12817
160kN	12818

TESTS REQUIRED / PERFORMED 检测需求/检毕:

TEST METHOD 检测方法	*DESCRIPTION 描述*
1. ASTM D6637	Multiple Rib Tensile Property

TEST RESULTS 检测结果: The test results are summarized in the attached Table(s) 1 to 3. 检测结果参见附表 1 到 3.

Respectfully,此致

TRI Geosynthetic Testing and Services (Suzhou) Co., Ltd.

Steve Xi
Quality Assurance

Chad Blackwell
General Manager

Signatures are on file

It shall be noted that the **sample/s** tested **is/are** believed to be true representatives of the material produced under the designation herein stated. In addition, the attached laboratory tests results are considered indicative only of the quality of samples/specimens that were actually tested. The appropriate test methods hereby employed are based on the current and accepted industry practices. TRI neither accepts responsibility for nor makes claims to the intended final use and purpose of the material. The test data and all associated project information shall be held confidential and not to be reproduced and/or disclosed to other parties except in full and with prior written approval from the client or any pertinent entity duly authorized by the respective client. It is our policy to keep physical records of each job for five (5) years commencing from the date of receipt of the samples and keep its corresponding electronic file for seven (7) years. ***Retained conformance samples are disposed of after one (1) month.*** On the other hand, should you need us to keep them at a longer period, please advise us in writing.

需说明的是，所送检样品会被认为是根据设计所生产材料的真实代表。另外，所附实验室检测结果仅表明所检测样品质量。此次合适的检测方法的采用是根据目前通用行业实际情况。TRI 既不对样品接受负责也不对材料的最终使用目的及用途发表声明。检测数据及相关项目信息为商业秘密，不得复制，非经客户书面同意或授权同意不得外泄给其他机构。我司自接收样品日起保存纸质记录 5 年，保存相应电子记录 7 年。样品留存 1 个月后废弃。如需保存更长时间，请以书面方式提前通知

4 Pages Total *(including this sheet)*

TABLE表 1.

MATERIAL PROPERTIES
材料属性

CLIENT客户: Geoleed Engineering Materials Co., Ltd
PROJECT项目: Geogrid Testing

Date Received接收日期: **2025.06.13**
Date Reported报告日期: **2025.07.08**
Client Sample ID样品信息: **90kN**
Material Description材料描述: **Geogrid**

QC'd By质量担当:
TRI Job No.工作编号: **SCH25161**
TRI Control No.受控编号: **12816**

SPECIMENS

METHOD	DESCRIPTION方法描述	1	2	3	4	5	6	7	8	9	10	Avg. 平均值	Std. Dev. 标准偏差	Min 最小值	Max 最大值
ASTM D6637**	Tensile Properties 拉伸性能														
Method B 方法B	*MD Number of Ribs per Specimen 样本肋条数:*				9										
	MD Number of ribs per foot 每英尺肋条数:				17.3										
	Ultimate Strength 最大强度 (kN/m)														
	MD	92.5	90.8	95.3	91.5	94.2						92.9	1.9	90.8	95.3
	Strength @ 2% Strain 2% 延伸强度 (kN/m)														
	MD	25.3	25.6	26+.7	25.4	25.6						25.5	0.2	25.3	25.6
	Strength @ 5% Strain 5% 延伸强度 (kN/m)														
	MD	48.9	49.4	51.1	48.9	49.6						49.6	0.9	48.9	51.1
	Strength @ 10% Strain 10% 延伸强度 (kN/m)														
	MD	86.7	87.6	90.2	86.6	88.2						87.9	1.5	86.6	90.2
	Elongation at Ultimate Load 最大点延伸率 (%)														
	MD	12.3	10.8	11.9	11.3	12.2						11.7	0.6	10.8	12.3

*** - Tested in TRI Texas*

(End of Table 1)

LEGENDS:
MD- MACHINE DIRECTION
TD - TRANSVERSE DIRECTION

TABLE表 2.

MATERIAL PROPERTIES
材料属性

CLIENT客户: Geoleed Engineering Materials Co., Ltd
PROJECT项目: Geogrid Testing

Date Received接收日期: **2025.06.13**
Date Reported报告日期: **2025.07.08**
Client Sample ID样品信息: **120kN**
Material Description材料描述: **Geogrid**

QC'd By质量担当:
TRI Job No.工作编号: **SCH25161**
TRI Control No.受控编号: **12817**

SPECIMENS

METHOD	DESCRIPTION方法描述	1	2	3	4	5	6	7	8	9	10	Avg. 平均值	Std. Dev. 标准偏差	Min 最小值	Max 最大值
ASTM D6637**	Tensile Properties 拉伸性能														
Method B 方法B	*MD Number of Ribs per Specimen 样本肋条数:*				9										
	MD Number of ribs per foot 每英尺肋条数:				17.1										
	Ultimate Strength 最大强度 (kN/m)														
	MD	120	123	121	121	122						121	1	120	123
	Strength @ 2% Strain 2% 延伸强度 (kN/m)														
	MD	33.7	34.2	33.7	33.7	33.8						33.8	0.2	33.7	34.2
	Strength @ 5% Strain 5% 延伸强度 (kN/m)														
	MD	62.8	64.3	63.0	63.2	63.6						63.4	0.6	62.8	64.3
	Strength @ 10% Strain 10% 延伸强度 (kN/m)														
	MD	110	113	110	111	111						111	1	110	113
	Elongation at Ultimate Load 最大点延伸率 (%)														
	MD	12.9	12.7	12.9	12.9	12.8						12.8	0.1	12.7	12.9

*** - Tested in TRI Texas*

(End of Table 2)

(Sheet 1 of 1)

LEGENDS:
MD- MACHINE DIRECTION
TD - TRANSVERSE DIRECTION

TABLE表 3.

MATERIAL PROPERTIES
材料属性

CLIENT客户: Geoleed Engineering Materials Co., Ltd
PROJECT项目: Geogrid Testing

Date Received接收日期: **2025.06.13**
Date Reported报告日期: **2025.07.08**
Client Sample ID样品信息: **160kN**
Material Description材料描述: **Geogrid**

QC'd By质量担当:
TRI Job No.工作编号: **SCH25161**
TRI Control No.受控编号: **12818**

SPECIMENS

METHOD	DESCRIPTION方法描述	1	2	3	4	5	6	7	8	9	10	Avg. 平均值	Std. Dev. 标准偏差	Min 最小值	Max 最大值
ASTM D6637**	Tensile Properties 拉伸性能														
Method B 方法B	*MD Number of Ribs per Specimen 样本肋条数:*				9										
	MD Number of ribs per foot 每英尺肋条数:				17.1										
	Ultimate Strength 最大强度 (kN/m)														
	MD	162	164	161	160	161						162	2	160	164
	Strength @ 2% Strain 2% 延伸强度 (kN/m)														
	MD	44.9	45.1	44.5	44.3	45.0						44.8	0.3	44.3	45.1
	Strength @ 5% Strain 5% 延伸强度 (kN/m)														
	MD	84.4	86.0	83.8	83.6	84.6						84.5	0.9	83.6	86.0
	Strength @ 10% Strain 10% 延伸强度 (kN/m)														
	MD	148	150	146	146	147						147	2	146	150
	Elongation at Ultimate Load 最大点延伸率 (%)														
	MD	12.8	12.8	12.7	12.9	12.9						12.8	0.1	12.7	12.9

*** - Tested in TRI Texas*

(End of Table 3)

(Sheet 1 of 1)

LEGENDS:
MD- MACHINE DIRECTION
TD - TRANSVERSE DIRECTION