

ANALYSIS REPORT SCC Accreditation No.: 40‡

Date: February 10, 2022 Report: 4232-055S-1A-en

	Report: 4232-055S-1A-en								A-en	
IDENTIFICATION:	Geogrid GG4040	0: #20220119								
	Received: Februar	y 1, 2022								
STANDARD:										
TEST:	Tensile Properties	of Geogrids by	the Single o	r Multi-Rib	Tensile		ASTM D6637/D6637M-15 Method A			
	Method; Method A (Single Rib)									
TEST CONDITIONS:	Conditioning atmosphere: 21±2°C, 60±10% R.H.;									
	Apparatus used: Dynamometer with a Constant Rate of Extension (CRE);									
	5 test specimens per direction; Speed: 10% / min; DEMGEN clamps:									
	DEMGEN clamps; Clamping pressure (bar): 100									
	Elongation measured by displacement of the cross head;									
	Date of test: Febru									
RESULTS:			Ind	ividual Data			Avg.	S.D.	% CV	
1-MACHINE DIRECTION							J			
-Gage length (mm):		218	218	219	220	220				
1-Maximum rib tensile strength (N):		1309	1275	1408	1396	1388	1 355	59	4.4	
1-Maximum rib tensile strength (lbf):		294.3	286.5	316.6	313.9	312.0	304.7	13.4	4.4	
1-Elongation at maximum strength (%):		16.2	14.3	15.4	15.4	15.6	15.4	0.7	4.5	
1-Type of failure (1= breaking, apart):	2= tearing	2	2	2	2	2				
1-Location of the failure (A= near or B= in the junction, C= in the rib):		В	В	В	В	В				
1-Tensile Strength at 2% Strain (kN/m)*:		8.3	8.2	8.4	8.5	8.4	8.4	0.1	1.4	
1-Tensile Strength at 5% Strain (kN/m)*:		12.4	12.3	12.8	12.8	12.9	12.6	0.3	2.1	
1-Ultimate Tensile Strength (kN/m)*:		41.8	40.7	45.0	44.6	44.3	43.3	1.9	4.4	
2-CROSS DIRECTION										
2-Gage length (mm):		219	219	219	219	219				
2-Maximum rib tensile strength (N):		951	960	967	999	1028	981	32	3.3	
2-Maximum rib tensile strength (lbf):		213.8	215.9	217.5	224.5	231.1	220.6	7.1	3.2	
2-Elongation at maximum strength (%):		19.0	20.1	21.2	21.6	19.8	20.3	1.1	5.2	

Prepared by:

Gabriel Ferland, Tech.

Technician

Approved by:

Maxime Côté, Tech.
Project Leader

**For any information concerning this report, please contact Maxime Côté. **

The reports are identified by an alphanumeric code, the letter preceding "-en" refers to the revision number, emitted in ascending order. The electronic copy sent by CTT Group is the official report. The reported identification is based on what was observed on the received sample and/or information provided by the customer. The samples in relation to this report are retained for a period of 30 days following transmission of the report. The above reported results refer exclusively to the samples submitted for evaluation. This analysis report cannot be partly used or reproduced, unless in whole, without CTT Group prior written consent. ‡ The ISO/IEC 17025 Scope of Accreditation of CTT Group is available at www.gettg.com. In this report, the tests which number is followed by the symbol \square are not covered by this accreditation. For customer's complete address, please refer to the email.





Date: February 10, 2022



ANALYSIS REPORT SCC Accreditation No.: 40‡

Date: February 10, 2022 Report: 4232-055S-1A-en

IDENTIFICATION: Geogrid GG4040: #20220119

Received: February 1, 2022

STANDARD:											
TEST: To	ensile Properties lethod; Method	of Geogrids by t A (Single Rib)	the Single or	Multi-Rib 7	Tensile	Α	ASTM D6637/D6637M-15 Metho				
RESULTS (CONT):			Indi	vidual Data			Avg.	S.D.	% CV		
2-Type of failure (1= breaking, 2= apart):	tearing	2	2	2	2	2					
2-Location of the failure (A= near or B= in the junction, C= in the rib):		A	В	A	A	A					
2-Tensile Strength at 2% Strain (kN/m)*:		5.7	6.0	5.7	6.0	6.5	6.0	0.3	5.5		
2-Tensile Strength at 5% Strain (kN/m)*:		8.4	8.3	8.4	8.4	8.6	8.4	0.1	1.3		
2-Ultimate Tensile Strength (kN/m))*:	39.0	39.4	39.7	41.0	42.2	40.3	1.3	3.3		

Prepared by:

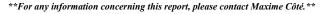
Gabriel Ferland, Tech.

Technician

Approved by:

Maxime Côté, Tech.
Project Leader

ect Leader Date: February 10, 2022



The reports are identified by an alphanumeric code, the letter preceding "-en" refers to the revision number, emitted in ascending order. The electronic copy sent by CTT Group is the official report. The reported identification is based on what was observed on the received sample and/or information provided by the customer. The samples in relation to this report are retained for a period of 30 days following transmission of the report. The above reported results refer exclusively to the samples submitted for evaluation. This analysis report cannot be partly used or reproduced, unless in whole, without CTT Group prior written consent. ‡ The ISO/IEC 17025 Scope of Accreditation of CTT Group is available at www.gettg.com. In this report, the tests which number is followed by the symbol \square are not covered by this accreditation. For customer's complete address, please refer to the email.







ANALYSIS REPORT SCC Accreditation No.: 40‡

Date: February 10, 2022 Report: 4232-055S-1A-en

							Report: 42	32-055S-1	A-en	
IDENTIFICATION:	Geogrid GG40	40: #20220119								
	Received: Februa	ary 1, 2022								
STANDARD:										
TEST:	Individual Geogr	Individual Geogrid Junction Strength						ASTM D7737/D7737M-15		
TEST CONDITIONS:	Conditioning atmosphere: 21±2°C, 60±10% R.H.; Apparatus used: Dynamometer with a Constant Rate of Extension (CRE); Speed: 50 mm/min; 10 test specimens per direction; Type of junction clamp: A Date of test: February 9, 2022									
RESULTS:			Ind	ividual Data			Avg.	S.D.	% CV	
1-MACHINE DIRECTION										
1-Number of Ribs per unit wi	dth (ribs/m):	32.0								
1-Junction Strength per rip (kN):		0.116	0.098	0.106	0.102	0.119	0.106	0.009	8.0	
		0.098	0.095	0.117	0.105	0.107				
1-Junction Strength per rib (lbf):		26.1	22.0	23.8	22.9	26.8	23.9	1.9	8.1	
		22.0	21.4	26.3	23.6	24.1				
1-Junction Strength per Unit Width (N/m):		3396								
1-Junction Strength per Unit Width (lbf/in):		19.4								
2-CROSS DIRECTION										
2-Number of Ribs per unit width (ribs/m):		41.0								
2-Junction Strength per rib (kN):		0.148	0.142	0.109	0.126	0.136	0.132	0.016	12.2	
		0.158	0.119	0.110	0.140	0.133				
2-Junction Strength per rib (lbf):		33.3	31.9	24.5	28.3	30.6	29.7	3.6	12.2	
		35.5	26.8	24.7	31.5	29.9				
2-Junction Strength per Unit V	Width (N/m):	5421								
2-Junction Strength per Unit V	Width (lbf/in):	31.0								

Prepared by:

Approved by:

Gabriel Ferland, Tech. Technician

Maxime Côté, Tech.

Project Leader

**For any information concerning this report, please contact Maxime Côté. **

The reports are identified by an alphanumeric code, the letter preceding "-en" refers to the revision number, emitted in ascending order. The electronic copy sent by CTT Group is the official report. The reported identification is based on what was observed on the received sample and/or information provided by the customer. The samples in relation to this report are retained for a period of 30 days following transmission of the report. The above reported results refer exclusively to the samples submitted for evaluation. This analysis report cannot be partly used or reproduced, unless in whole, without CTT Group prior written consent. ‡ The ISO/IEC 17025 Scope of Accreditation of CTT Group is available at www.gcttg.com. In this report, the tests which number is followed by the symbol \square are not covered by this accreditation. For customer's complete address, please refer to the email.





Date: February 10, 2022