

## **EGS PP Biaxial Geogrid**

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## EGS GEOSOLUTIONS – PP Biaxial Geogrid GG1515

### Introduction

EGS Biaxial Geogrid is an integrally formed structure, which especially designed for soil stabilization and reinforcement applications. EGS Biaxial Geogrid is manufactured from Polypropylene, from the process of extruding, longitudinal stretching and transverse stretching.

EGS Biaxial Geogrid features high tensile strength at both longitudinal (MD) and transverse (TD) directions. It makes soil reinforced with its excellent structure stability and strong mechanical interlock performance.

### Applications

- Base reinforcement
- Subgrade reinforcement
- Slope reinforcement
- Embankment stabilization

### Specifications

Index Properties	Test Method	Units	MD Values	TD Values
■ Polymer	–	–	PP	–
■ Minimum Carbon Black	ASTM D 4218	%	2	–
■ Tensile Strength @ 2% Strain	ASTM D 6637	kN/m (lb/ft)	5 (340)	5 (340)
■ Tensile Strength @ 5% Strain	ASTM D 6637	kN/m (lb/ft)	10.5 (720)	10.5 (720)
■ Ultimate Tensile Strength	ASTM D 6637	kN/m (lb/ft)	15 (1,030)	15 (1,030)
■ Strain @ Ultimate Strength	ASTM D 6637	%	13	13

### Structural Integrity

■ Junction Efficiency	GRI GG2	%	93	93
■ Flexural Rigidity	ASTM D 7748	mg-cm	250,000	–
■ Aperture Stability	COE Method	m-N/deg	0.32	–

### Dimensions

■ Aperture Dimensions	–	mm (in)	36 (1.4)	36 (1.4)
■ Minimum Rib Thickness	ASTM D 1777	mm (in)	1.0 (0.04)	0.8 (0.03)
■ Roll Width	–	m (ft)	3.95 (12.9) or 5.95 (19.5)	–
■ Roll Length	–	m (ft)	75(246)	–

EGS Laboratory is improving continuously with the purpose of assuring reliable quality. EGS Geosolutions reserves the right to change the product specifications at any time.

## EGS GEOSOLUTIONS – PP Biaxial Geogrid GG2020

### Introduction

EGS Biaxial Geogrid is an integrally formed structure, which especially designed for soil stabilization and reinforcement applications.

EGS Biaxial Geogrid is manufactured from Polypropylene, from the process of extruding, longitudinal stretching and transverse stretching.

EGS Biaxial Geogrid features high tensile strength at both longitudinal (MD) and transverse (TD) directions. It makes soil reinforced with its excellent structure stability and strong mechanical interlock performance.

### Applications

- Base reinforcement
- Subgrade reinforcement
- Slope reinforcement
- Embankment stabilization

### Specifications

Index Properties	Test Method	Units	MD Values	TD Values
■ Polymer	-	-	PP	-
■ Minimum Carbon Black	ASTM D 4218	%	2	-
■ Tensile Strength @ 2% Strain	ASTM D 6637	kN/m (lb/ft)	7 (480)	7 (480)
■ Tensile Strength @ 5% Strain	ASTM D 6637	kN/m (lb/ft)	14 (960)	14 (960)
■ Ultimate Tensile Strength	ASTM D 6637	kN/m (lb/ft)	20 (1,370)	20 (1,370)
■ Strain @ Ultimate Strength	ASTM D 6637	%	13	13

### Structural Integrity

■ Junction Efficiency	GRI GG2	%	93	93
■ Flexural Rigidity	ASTM D 7748	mg-cm	750,000	-
■ Aperture Stability	COE Method	m-N/deg	0.50	-

### Dimensions

■ Aperture Dimensions	-	mm (in)	35 (1.4)	35 (1.4)
■ Minimum Rib Thickness	ASTM D 1777	mm (in)	1.5 (0.06)	1.1 (0.04)
■ Roll Width	-	m (ft)	3.95 (12.9) or 5.95 (19.5)	-
■ Roll Length	-	m (ft)	50 (164)	-

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## EGS GEOSOLUTIONS – PP Biaxial Geogrid GG2020L

### Introduction

EGS Biaxial Geogrid is an integrally formed structure, which especially designed for soil stabilization and reinforcement applications.

EGS Biaxial Geogrid is manufactured from Polypropylene, from the process of extruding, longitudinal stretching and transverse stretching.

EGS Biaxial Geogrid features high tensile strength at both longitudinal (MD) and transverse (TD) directions. It makes soil reinforced with its excellent structure stability and strong mechanical interlock performance.

### Applications

- Base reinforcement
- Subgrade reinforcement
- Slope reinforcement
- Embankment stabilization

### Specifications

Index Properties	Test Method	Units	MD Values	TD Values
■ Polymer	-	-	PP	-
■ Minimum Carbon Black	ASTM D 4218	%	2	-
■ Tensile Strength @ 2% Strain	ASTM D 6637	kN/m (lb/ft)	7 (480)	7 (480)
■ Tensile Strength @ 5% Strain	ASTM D 6637	kN/m (lb/ft)	14 (960)	14 (960)
■ Ultimate Tensile Strength	ASTM D 6637	kN/m (lb/ft)	20 (1,370)	20 (1,370)
■ Strain @ Ultimate Strength	ASTM D 6637	%	13	13

### Structural Integrity

■ Junction Efficiency	GRI GG2	%	93	93
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### Dimensions

■ Aperture Dimensions	-	mm (in)	57 (2.2)	57 (2.2)
■ Minimum Rib Thickness	ASTM D 1777	mm (in)	1.2 (0.05)	0.9 (0.04)
■ Roll Width	-	m (ft)	3.95 (12.9)	-
■ Roll Length	-	m (ft)	50 (164)	-

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## EGS GEOSOLUTIONS – PP Biaxial Geogrid GG2525

### Introduction

EGS Biaxial Geogrid is an integrally formed structure, which especially designed for soil stabilization and reinforcement applications.

EGS Biaxial Geogrid is manufactured from Polypropylene, from the process of extruding, longitudinal stretching and transverse stretching.

EGS Biaxial Geogrid features high tensile strength at both longitudinal (MD) and transverse (TD) directions. It makes soil reinforced with its excellent structure stability and strong mechanical interlock performance.

### Applications

- Base reinforcement
- Subgrade reinforcement
- Slope reinforcement
- Embankment stabilization

### Specifications

Index Properties	Test Method	Units	MD Values	TD Values
■ Polymer	-	-	PP	-
■ Minimum Carbon Black	ASTM D 4218	%	2	-
■ Tensile Strength @ 2% Strain	ASTM D 6637	kN/m (lb/ft)	9 (620)	9 (620)
■ Tensile Strength @ 5% Strain	ASTM D 6637	kN/m (lb/ft)	17 (1,160)	17 (1,160)
■ Ultimate Tensile Strength	ASTM D 6637	kN/m (lb/ft)	25 (1,710)	25 (1,710)
■ Strain @ Ultimate Strength	ASTM D 6637	%	13	13

### Structural Integrity

■ Junction Efficiency	GRI GG2	%	93	93
■ Flexural Rigidity	ASTM D 7748	mg-cm	1,000,000	-
■ Aperture Stability	COE Method	m-N/deg	0.65	-

### Dimensions

■ Aperture Dimensions	-	mm (in)	34 (1.3)	34 (1.3)
■ Minimum Rib Thickness	ASTM D 1777	mm (in)	1.8 (0.07)	1.4 (0.05)
■ Roll Width	-	m (ft)	3.95 (12.9) or 5.95 (19.5)	-
■ Roll Length	-	m (ft)	50 (164)	-

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## EGS GEOSOLUTIONS – PP Biaxial Geogrid GG3030

### Introduction

EGS Biaxial Geogrid is an integrally formed structure, which especially designed for soil stabilization and reinforcement applications.

EGS Biaxial Geogrid is manufactured from Polypropylene, from the process of extruding, longitudinal stretching and transverse stretching.

EGS Biaxial Geogrid features high tensile strength at both longitudinal (MD) and transverse (TD) directions. It makes soil reinforced with its excellent structure stability and strong mechanical interlock performance.

### Applications

- Base reinforcement ■ Subgrade reinforcement ■ Slope reinforcement ■ Embankment stabilization

### Specifications

Index Properties	Test Method	Units	MD Values	TD Values
■ Polymer	-	-	PP	-
■ Minimum Carbon Black	ASTM D 4218	%	2	-
■ Tensile Strength @ 2% Strain	ASTM D 6637	kN/m (lb/ft)	10.5 (720)	10.5 (720)
■ Tensile Strength @ 5% Strain	ASTM D 6637	kN/m (lb/ft)	21 (1,440)	21 (1,440)
■ Ultimate Tensile Strength	ASTM D 6637	kN/m (lb/ft)	30 (2,050)	30 (2,050)
■ Strain @ Ultimate Strength	ASTM D 6637	%	13	13

### Structural Integrity

■ Junction Efficiency	GRI GG2	%	93	93
■ Flexural Rigidity	ASTM D 7748	mg-cm	2,000,000	-
■ Aperture Stability	COE Method	m-N/deg	0.75	-

### Dimensions

■ Aperture Dimensions	-	mm (in)	34 (1.3)	34 (1.3)
■ Minimum Rib Thickness	ASTM D 1777	mm (in)	2.5 (0.10)	1.5 (0.06)
■ Roll Width	-	m (ft)	3.95 (12.9) or 5.95 (19.5)	-
■ Roll Length	-	m (ft)	50 (164)	-

## EGS GEOSOLUTIONS – PP Biaxial Geogrid GG3030L

### Introduction

EGS Biaxial Geogrid is an integrally formed structure, which especially designed for soil stabilization and reinforcement applications.

EGS Biaxial Geogrid is manufactured from Polypropylene, from the process of extruding, longitudinal stretching and transverse stretching.

EGS Biaxial Geogrid features high tensile strength at both longitudinal (MD) and transverse (TD) directions. It makes soil reinforced with its excellent structure stability and strong mechanical interlock performance.

### Applications

- Base reinforcement
- Subgrade reinforcement
- Slope reinforcement
- Embankment stabilization

### Specifications

Index Properties	Test Method	Units	MD Values	TD Values
■ Polymer	-	-	PP	-
■ Minimum Carbon Black	ASTM D 4218	%	2	-
■ Tensile Strength @ 2% Strain	ASTM D 6637	kN/m (lb/ft)	10.5 (720)	10.5 (720)
■ Tensile Strength @ 5% Strain	ASTM D 6637	kN/m (lb/ft)	21 (1,440)	21 (1,440)
■ Ultimate Tensile Strength	ASTM D 6637	kN/m (lb/ft)	30 (2,050)	30 (2,050)
■ Strain @ Ultimate Strength	ASTM D 6637	%	13	13

### Structural Integrity

■ Junction Efficiency	GRI GG2	%	93	93
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### Dimensions

■ Aperture Dimensions	-	mm (in)	57 (2.2)	57 (2.2)
■ Minimum Rib Thickness	ASTM D 1777	mm (in)	1.9 (0.07)	1.3 (0.05)
■ Roll Width	-	m (ft)	3.95 (12.9)	-
■ Roll Length	-	m (ft)	50 (164)	-

## EGS GEOSOLUTIONS – PP Biaxial Geogrid GG4040

### Introduction

EGS Biaxial Geogrid is an integrally formed structure, which especially designed for soil stabilization and reinforcement applications.

EGS Biaxial Geogrid is manufactured from Polypropylene, from the process of extruding, longitudinal stretching and transverse stretching.

EGS Biaxial Geogrid features high tensile strength at both longitudinal (MD) and transverse (TD) directions. It makes soil reinforced with its excellent structure stability and strong mechanical interlock performance.

### Applications

- Base reinforcement ■ Subgrade reinforcement ■ Slope reinforcement ■ Embankment stabilization

### Specifications

Index Properties	Test Method	Units	MD Values	TD Values
■ Polymer	-	-	PP	-
■ Minimum Carbon Black	ASTM D 4218	%	2	-
■ Tensile Strength @ 2% Strain	ASTM D 6637	kN/m (lb/ft)	14 (960)	14 (960)
■ Tensile Strength @ 5% Strain	ASTM D 6637	kN/m (lb/ft)	28 (1,920)	28 (1,920)
■ Ultimate Tensile Strength	ASTM D 6637	kN/m (lb/ft)	40 (2,740)	40 (2,740)
■ Strain @ Ultimate Strength	ASTM D 6637	%	13	13

### Structural Integrity

■ Junction Efficiency	GRI GG2	%	93	93
■ Flexural Rigidity	ASTM D 7748	mg-cm	4,800,000	-
■ Aperture Stability	COE Method	m-N/deg	0.98	-

### Dimensions

■ Aperture Dimensions	-	mm (in)	33 (1.3)	33 (1.3)
■ Minimum Rib Thickness	ASTM D 1777	mm (in)	3.4 (0.13)	2.1 (0.08)
■ Roll Width	-	m (ft)	3.95 (12.9)	-
■ Roll Length	-	m (ft)	50 (164)	-



# EGS GEOSOLUTIONS – PP Biaxial Geogrid GG4040L

## Introduction

EGS Biaxial Geogrid is an integrally formed structure, which especially designed for soil stabilization and reinforcement applications.

EGS Biaxial Geogrid is manufactured from Polypropylene, from the process of extruding, longitudinal stretching and transverse stretching.

EGS Biaxial Geogrid features high tensile strength at both longitudinal (MD) and transverse (TD) directions. It makes soil reinforced with its excellent structure stability and strong mechanical interlock performance.

## Applications

- Base reinforcement
- Subgrade reinforcement
- Slope reinforcement
- Embankment stabilization

## Specifications

Index Properties	Test Method	Units	MD Values	TD Values
■ Polymer	-	-	PP	-
■ Minimum Carbon Black	ASTM D 4218	%	2	-
■ Tensile Strength @ 2% Strain	ASTM D 6637	kN/m (lb/ft)	14 (960)	14 (960)
■ Tensile Strength @ 5% Strain	ASTM D 6637	kN/m (lb/ft)	28 (1,920)	28 (1,920)
■ Ultimate Tensile Strength	ASTM D 6637	kN/m (lb/ft)	40 (2,740)	40 (2,740)
■ Strain @ Ultimate Strength	ASTM D 6637	%	13	13

## Structural Integrity

■ Junction Efficiency	GRI GG2	%	93	93
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## Dimensions

■ Aperture Dimensions	-	mm (in)	57 (2.2)	57 (2.2)
■ Minimum Rib Thickness	ASTM D 1777	mm (in)	3.0 (0.12)	2.0 (0.08)
■ Roll Width	-	m (ft)	3.95 (12.9)	-
■ Roll Length	-	m (ft)	50 (164)	-

EGS Laboratory is improving continuously with the purpose of assuring reliable quality. EGS Geosolutions reserves the right to change the product specifications at any time.

# EGS GEOSOLUTIONS – PP Biaxial Geogrid GG4545

## Introduction

EGS Biaxial Geogrid is an integrally formed structure, which especially designed for soil stabilization and reinforcement applications.

EGS Biaxial Geogrid is manufactured from Polypropylene, from the process of extruding, longitudinal stretching and transverse stretching.

EGS Biaxial Geogrid features high tensile strength at both longitudinal (MD) and transverse (TD) directions. It makes soil reinforced with its excellent structure stability and strong mechanical interlock performance.

## Applications

- Base reinforcement ■ Subgrade reinforcement ■ Slope reinforcement ■ Embankment stabilization

## Specifications

Index Properties	Test Method	Units	MD Values	TD Values
■ Polymer	-	-	PP	-
■ Minimum Carbon Black	ASTM D 4218	%	2	-
■ Tensile Strength @ 2% Strain	ASTM D 6637	kN/m (lb/ft)	16 (1,090)	16 (1,090)
■ Tensile Strength @ 5% Strain	ASTM D 6637	kN/m (lb/ft)	32 (2,190)	32 (2,190)
■ Ultimate Tensile Strength	ASTM D 6637	kN/m (lb/ft)	45 (3,080)	45 (3,080)
■ Strain @ Ultimate Strength	ASTM D 6637	%	13	13

## Structural Integrity

■ Junction Efficiency	GRI GG2	%	93	93
■ Flexural Rigidity	ASTM D 7748	mg-cm	6,000,000	-
■ Aperture Stability	COE Method	m-N/deg	1.05	-

## Dimensions

■ Aperture Dimensions	-	mm (in)	32 (1.3)	32 (1.3)
■ Minimum Rib Thickness	ASTM D 1777	mm (in)	4.1 (0.16)	2.2 (0.09)
■ Roll Width	-	m (ft)	3.95 (12.9)	-
■ Roll Length	-	m (ft)	50 (164)	-

EGS Laboratory is improving continuously with the purpose of assuring reliable quality. EGS Geosolutions reserves the right to change the product specifications at any time.

## **EGS GEOSOLUTIONS – PP Biaxial Geogrid GG5050**

### Introduction

EGS Biaxial Geogrid is an integrally formed structure, which especially designed for soil stabilization and reinforcement applications.

EGS Biaxial Geogrid is manufactured from Polypropylene, from the process of extruding, longitudinal stretching and transverse stretching.

EGS Biaxial Geogrid features high tensile strength at both longitudinal (MD) and transverse (TD) directions. It makes soil reinforced with its excellent structure stability and strong mechanical interlock performance.

### Applications

- Base reinforcement ■ Subgrade reinforcement ■ Slope reinforcement ■ Embankment stabilization

### Specifications

Index Properties	Test Method	Units	MD Values	TD Values
■ Polymer	–	–	PP	–
■ Minimum Carbon Black	ASTM D 4218	%	2	–
■ Tensile Strength @ 2% Strain	ASTM D 6637	kN/m (lb/ft)	17.5 (1,200)	17.5 (1,200)
■ Tensile Strength @ 5% Strain	ASTM D 6637	kN/m (lb/ft)	35 (2,400)	35 (2,400)
■ Ultimate Tensile Strength	ASTM D 6637	kN/m (lb/ft)	50 (3,420)	50 (3,420)
■ Strain @ Ultimate Strength	ASTM D 6637	%	13	13

### Structural Integrity

■ Junction Efficiency	GRI GG2	%	93	93
■ Flexural Rigidity	ASTM D 7748	mg-cm	8,000,000	–
■ Aperture Stability	COE Method	m-N/deg	1.10	–

### Dimensions

■ Aperture Dimensions	–	mm (in)	30 (1.2)	30 (1.2)
■ Minimum Rib Thickness	ASTM D 1777	mm (in)	4.3 (0.17)	2.5 (0.10)
■ Roll Width	–	m (ft)	3.95 (12.9)	–
■ Roll Length	–	m (ft)	50 (164)	–

## EGS GEOSOLUTIONS – PP Biaxial Geogrid GG1100

### Introduction

TMP Biaxial Geogrid is an integrally formed structure, which especially designed for soil stabilisation and reinforcement applications. TMP Biaxial Geogrid is manufactured from Polypropylene, from the process of extruding, longitudinal stretching and transverse stretching.

TMP Biaxial Geogrid features high tensile strength at both longitudinal (MD) and transverse (TD) directions. It makes soil reinforced with its excellent structure stability and strong mechanical interlock performance.

### Applications

- Base reinforcement
- Subgrade reinforcement
- Slope reinforcement
- Embankment stabilization

### Specifications

Index Properties	Test Method	Units	MD Values	TD Values
■ Polymer	-	-	PP	-
■ Minimum Carbon Black	ASTM D 4218	%	2	-
■ Tensile Strength @ 2% Strain	ASTM D 6637	kN/m (lb/ft)	4.1 (280)	6.6 (450)
■ Tensile Strength @ 5% Strain	ASTM D 6637	kN/m (lb/ft)	8.5 (580)	13.4 (920)
■ Ultimate Tensile Strength	ASTM D 6637	kN/m (lb/ft)	12.4 (849)	19.0 (1,300)

### Structural Integrity

■ Junction Efficiency	GRI GG2	%	93	93
■ Flexural Rigidity	ASTM D 7748	mg-cm	250,000	-
■ Aperture Stability	ASTM D 7864	m-N/deg	0.32	-

### Dimensions

■ Aperture Dimensions	-	mm (in)	26 (1.0)	34 (1.3)
■ Minimum Rib Thickness	ASTM D 1777	mm (in)	1.0 (0.04)	0.8 (0.03)
■ Roll Width	-	m (ft)	3.95 (12.9) or 5.95 (19.5)	-
■ Roll Length	-	m (ft)	75 (246)	-

## EGS GEOSOLUTIONS – PP Biaxial Geogrid GG1200

### Introduction

TMP Biaxial Geogrid is an integrally formed structure, which especially designed for soil stabilisation and reinforcement applications. TMP Biaxial Geogrid is manufactured from Polypropylene, from the process of extruding, longitudinal stretching and transverse stretching.

TMP Biaxial Geogrid features high tensile strength at both longitudinal (MD) and transverse (TD) directions. It makes soil reinforced with its excellent structure stability and strong mechanical interlock performance.

### Applications

- Base reinforcement ■ Subgrade reinforcement ■ Slope reinforcement ■ Embankment stabilization

### Specifications

Index Properties	Test Method	Units	MD Values	TD Values
■ Polymer	-	-	PP	-
■ Minimum Carbon Black	ASTM D 4218	%	2	-
■ Tensile Strength @ 2% Strain	ASTM D 6637	kN/m (lb/ft)	6 (410)	9 (620)
■ Tensile Strength @ 5% Strain	ASTM D 6637	kN/m (lb/ft)	11.8 (810)	19.6 (1,340)
■ Ultimate Tensile Strength	ASTM D 6637	kN/m (lb/ft)	19.2 (1,310)	28.8 (1,970)

### Structural Integrity

■ Junction Efficiency	GRI GG2	%	93	93
■ Flexural Rigidity	ASTM D 7748	mg-cm	750,000	-
■ Aperture Stability	ASTM D 7864	m-N/deg	0.65	-

### Dimensions

■ Aperture Dimensions	-	mm (in)	26 (1.0)	34 (1.3)
■ Minimum Rib Thickness	ASTM D 1777	mm (in)	1.6 (0.06)	1.1 (0.04)
■ Roll Width	-	m (ft)	3.95 (12.9) or 5.95 (19.5)	-
■ Roll Length	-	m (ft)	50 (164)	-