

MACGRID™ CW 20
HIGH TENACITY POLYESTER GEOCOMPOSITE

MACGRID CW

20

Mechanical properties

Tensile strength - MD (EN ISO 10319)	kN/m	210
Tolerance		-10.0
Strain at Tch strength - MD (EN ISO 10319)	%	10.0
Tolerance		± 2.0
Tensile strength - CMD (EN ISO 10319)	kN/m	35
Tolerance		-5.0
Strain at Tch strength - CMD (EN ISO 10319)	%	10.0
Tolerance		± 2.0

Physical properties

Geogrid core		high tenacity polyester
Polymeric coating		polymeric
Roll width (standard)	m	from 3.6 to 5.3 according to stock and production availability
Roll length (standard)	m	100
Durability	can be exposed up to 14 days, durable in natural soil with 4<pH<9 and soil temperature <25°C for a minimum of 100 years service life	

MacGrid™ CW is a geocomposite obtained by coupling a geogrid for soil reinforcement, made from high molecular weight high tenacity polyester multifilament yarns, with a non woven geotextile of a mass that can vary from 90 g/m² to 200 g/m², on demand.

The yarns of the geogrid are woven on tension in machine direction and finished with a polymeric coating.

MacGrid™ CW geogrids are engineered to be mechanically and chemically durable, and resistant to biological degradation.

- MD means Machine direction;
- CMD means transverse direction;
- Tch corresponds to the mean value deducted the tolerance and corresponds to the MARV at the required confidence limit;
- On reported data a typical tolerance of 3% is admitted if not differently indicated;
- Info related to tensile strength at 2%, 5% strain, and LTDS parameters are available on request;
- Special products can be manufactured on request for specific projects;
- The material is flammable;
- The material can be stocked in open space and piled until a suggested maximum height of 5 rolls.



For the optimisation and improvement process of the technical characteristics of the products, the manufacturer reserves the right to modify the standard characteristics of the product without any notice. The information contained herein are to the best of our knowledge accurate, but since the circumstances and conditions in which it may be used are beyond our control, we do not accept any liability for any loss or damage, however arising, which results directly or indirectly from the use of such information nor we do offer any warranty or immunity against patent infringement.

MACGRID™ WG

WOVEN HIGH TENACITY POLYESTER GEOGRID

MACGRID WG

4.5S

Mechanical properties (typical values)

Tensile strength - MD (EN ISO 10319)	kN/m	50	2,3
Tolerance		- 5	
Strain at Tch strength - MD (EN ISO 10319)	%	10	3,4
Tolerance		± 2	
Tensile strength - CMD (EN ISO 10319)	kN/m	50	2,5
Tolerance		- 5	
Strain at Tch strength - CMD (EN ISO 10319)	%	11	4,5
Tolerance		± 2	

Physical properties

Mesh size (nominal)		from 20x20 to 35x35	7
Geogrid core		high tenacity polyester	
Polymeric coating (standard)		polymeric	8
Roll width (standard)	m	5.2	9
Roll length (standard)	m	100	

Durability	can be exposed up to 14 days, durable in natural soil with 4<pH<9 and soil temperature <25°C for a minimum of 100 years service life		
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MacGrid™ is a geogrid for soil reinforcement, made from high molecular weight, high tenacity polyester multifilament yarns. The yarns are woven or knitted on tension in machine direction and finished with a polymeric coating. MacGrid™ geogrids are engineered to be mechanically and chemically durable, and resistant to biological degradation.

NOTE

- The reported value are informative value; for certified values refer to the DoP of single items;
- Mean value;
- MD means length direction;
- T_{ch} correspond to the mean value deducted the tolerance and correspond to the MARV at the required confidence limit;
- CMD means transverse direction;
- On reported data is admitted a typical tolerance of 3% if not different indicated;
- Different mesh size are available on request;
- Standard polymeric coatings are PVC, Acrylic, EVA and SBR;
- Variable width can be available depending on the production plan and the machines availability; please check stock position with the logistic dept;
- Info related to tensile strength at 2%, 5% and 6% strain, and LTDS parameters are available on request;
- Special products can be manufactured on request for specific projects. The white columns are the standards products available on stock; the colored column are special products to be manufactured on request and generally not available on stock;
- The material is flammable;
- The material can be stocked in open space and piled until a maximum height of 5 rolls.



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MACGRID™ WG 10

WOVEN HIGH TENACITY POLYESTER GEOGRID

MACGRID WG

10

MacGrid™ is a geogrid for soil reinforcement, made from high molecular weight, high tenacity polyester multifilament yarns. The yarns are woven or knitted on tension in machine direction and finished with a polymeric coating. MacGrid™ geogrids are engineered to be mechanically and chemically durable, and resistant to biological degradation.

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 2. Mean value;
 3. MD means length direction;
 4. T_{ch} correspond to the mean value deducted the tolerance and correspond to the MARV at the required confidence limit;
 5. CMD means transverse direction;
 6. On reported data is admitted a typical tolerance of 3% if not different indicated;
 7. Different mesh size are available on request;
 8. Standard polymeric coatings are PVC, Acrylic, EVA and SBR;
 9. Variable width can be available depending on the production plan and the machines availability; please check stock position with the logistic dept;
- Info related to tensile strength at 2%, 5% and 6% strain, and LTDS parameters are available on request;
 - Special products can be manufactured on request for specific projects. The white columns are the standards products available on stock; the colored column are special products to be manufactured on request and generally not available on stock;
 - The material is flammable;
 - The material can be stocked in open space and piled until a maximum height of 5 rolls.

Mechanical properties (typical values)			
Tensile strength - MD (EN ISO 10319)	kN/m	110	1 2,3
Tolerance		-10.00	
Strain at T _{ch} strength - MD (EN ISO 10319)	%	10.00	3,4
Tolerance		± 2.00	
Tensile strength - CMD (EN ISO 10319)	kN/m	25	2,5
Tolerance		-5.00	
Strain at T _{ch} strength - CMD (EN ISO 10319)	%	10.00	4,5
Tolerance		± 2.00	
Physical properties			
Mesh size (nominal)		from 20x20 to 35x35	6 7
Geogrid core		high tenacity polyester	
Polymeric coating (standard)		polymeric	8
Roll width (standard)	m	from 3.6 to 5.3 according to stock and production availability	9
Roll length (standard)	m	100	
Durability	can be exposed up to 14 days, durable in natural soil with 4<pH<9 and soil temperature <25°C for a minimum of 100 years service life		



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MACGRID™ WG 12

WOVEN HIGH TENACITY POLYESTER GEOGRID

MACGRID WG

12

MacGrid™ is a geogrid for soil reinforcement, made from high molecular weight, high tenacity polyester multifilament yarns. The yarns are woven or knitted on tension in machine direction and finished with a polymeric coating. MacGrid™ geogrids are engineered to be mechanically and chemically durable, and resistant to biological degradation.

Mechanical properties (typical values)			
Tensile strength - MD (EN ISO 10319)	kN/m	130	2,3
Tolerance		-10.00	
Strain at Tch strength - MD (EN ISO 10319)	%	10.00	3,4
Tolerance		± 2.00	
Tensile strength - CMD (EN ISO 10319)	kN/m	25	2,5
Tolerance		-5.00	
Strain at Tch strength - CMD (EN ISO 10319)	%	10.00	4,5
Tolerance		± 2.00	
Physical properties			
Mesh size (nominal)		from 20x20 to 35x35	7
Geogrid core		high tenacity polyester	
Polymeric coating (standard)		polymeric	8
Roll width (standard)	m	from 3.6 to 5.3 according to stock and production availability	9
Roll length (standard)	m	100	
Durability	can be exposed up to 14 days, durable in natural soil with 4<pH<9 and soil temperature <25°C for a minimum of 100 years service life		

NOTE

- The reported value are informative value; for certified values refer to the DoP of single items;
 - Mean value;
 - MD means length direction;
 - T_{ch} correspond to the mean value deducted the tolerance and correspond to the MARV at the required confidence limit;
 - CMD means transverse direction;
 - On reported data is admitted a typical tolerance of 3% if not different indicated;
 - Different mesh size are available on request;
 - Standard polymeric coatings are PVC, Acrylic, EVA and SBR;
 - Variable width can be available depending on the production plan and the machines availability; please check stock position with the logistic dept;
- Info related to tensile strength at 2%, 5% and 6% strain, and LTDS parameters are available on request;
 - Special products can be manufactured on request for specific projects. The white columns are the standards products available on stock; the colored column are special products to be manufactured on request and generally not available on stock;
 - The material is flammable;
 - The material can be stocked in open space and piled until a maximum height of 5 rolls.



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Maccaferri operates under strict quality assurance and management procedures. Please visit the website of your local subsidiary for details of their Certifications.

MACGRID™ WG 15

WOVEN HIGH TENACITY POLYESTER GEOGRID

MACGRID WG

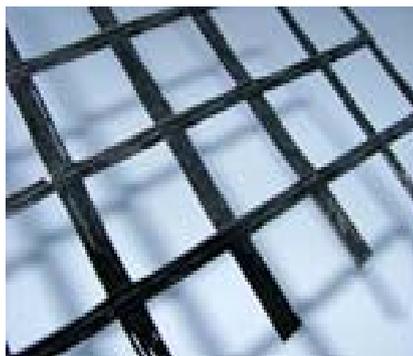
15

MacGrid™ is a geogrid for soil reinforcement, made from high molecular weight, high tenacity polyester multifilament yarns. The yarns are woven or knitted on tension in machine direction and finished with a polymeric coating. MacGrid™ geogrids are engineered to be mechanically and chemically durable, and resistant to biological degradation.

Mechanical properties (typical values)			
Tensile strength - MD (EN ISO 10319)	kN/m	160	2,3
Tolerance		-10.00	
Strain at Tch strength - MD (EN ISO 10319)	%	11.00	3,4
Tolerance		± 2.00	
Tensile strength - CMD (EN ISO 10319)	kN/m	25	2,5
Tolerance		-5.00	
Strain at Tch strength - CMD (EN ISO 10319)	%	11.00	4,5
Tolerance		± 2.00	
Physical properties			
Mesh size (nominal)		from 20x20 to 35x35	7
Geogrid core		high tenacity polyester	
Polymeric coating (standard)		polymeric	8
Roll width (standard)	m	from 3.6 to 5.3 according to stock and production availability	9
Roll length (standard)	m	100	
Durability	can be exposed up to 14 days, durable in natural soil with 4<pH<9 and soil temperature <25°C for a minimum of 100 years service life		

NOTE

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 - Mean value;
 - MD means length direction;
 - T_{ch} correspond to the mean value deducted the tolerance and correspond to the MARV at the required confidence limit;
 - CMD means transverse direction;
 - On reported data is admitted a typical tolerance of 3% if not different indicated;
 - Different mesh size are available on request;
 - Standard polymeric coatings are PVC, Acrylic, EVA and SBR;
 - Variable width can be available depending on the production plan and the machines availability; please check stock position with the logistic dept;
- Info related to tensile strength at 2%, 5% and 6% strain, and LTDS parameters are available on request;
 - Special products can be manufactured on request for specific projects. The white columns are the standards products available on stock; the colored column are special products to be manufactured on request and generally not available on stock;
 - The material is flammable;
 - The material can be stocked in open space and piled until a maximum height of 5 rolls.



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MACGRID™ WG 25

WOVEN HIGH TENACITY POLYESTER GEOGRID

MACGRID WG

25

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 2. Mean value;
 3. MD means length direction;
 4. T_{ch} correspond to the mean value deducted the tolerance and correspond to the MARV at the required confidence limit;
 5. CMD means transverse direction;
 6. On reported data is admitted a typical tolerance of 3% if not different indicated;
 7. Different mesh size are available on request;
 8. Standard polymeric coatings are PVC, Acrylic, EVA and SBR;
 9. Variable width can be available depending on the production plan and the machines availability; please check stock position with the logistic dept;
- Info related to tensile strength at 2%, 5% and 6% strain, and LTDS parameters are available on request;
 - Special products can be manufactured on request for specific projects. The white columns are the standards products available on stock; the colored column are special products to be manufactured on request and generally not available on stock;
 - The material is flammable;
 - The material can be stocked in open space and piled until a maximum height of 5 rolls.

Mechanical properties (typical values)

Tensile strength - MD (EN ISO 10319)	kN/m	260	1 2,3
Tolerance		-10.00	
Strain at T _{ch} strength - MD (EN ISO 10319)	%	11.00	3,4
Tolerance		± 2.00	
Tensile strength - CMD (EN ISO 10319)	kN/m	35	2,5
Tolerance		-5.00	
Strain at T _{ch} strength - CMD (EN ISO 10319)	%	11.00	4,5
Tolerance		± 2.00	

Physical properties

Mesh size (nominal)		from 20x20 to 35x35	6 7
Geogrid core		high tenacity polyester	
Polymeric coating (standard)		polymeric	8
Roll width (standard)	m	from 3.6 to 5.3 according to stock and production availability	9
Roll length (standard)	m	100	

Durability
can be exposed up to 14 days, durable in natural soil with 4<pH<9 and soil temperature <25°C for a minimum of 100 years service life



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MACGRID™ WG 50

WOVEN HIGH TENACITY POLYESTER GEOGRID

MACGRID WG

50

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 2. Mean value;
 3. MD means length direction;
 4. T_{ch} correspond to the mean value deducted the tolerance and correspond to the MARV at the required confidence limit;
 5. CMD means transverse direction;
 6. On reported data is admitted a typical tolerance of 3% if not different indicated;
 7. Different mesh size are available on request;
 8. Standard polymeric coatings are PVC, Acrylic, EVA and SBR;
 9. Variable width can be available depending on the production plan and the machines availability; please check stock position with the logistic dept;
- Info related to tensile strength at 2%, 5% and 6% strain, and LTDS parameters are available on request;
 - Special products can be manufactured on request for specific projects. The white columns are the standards products available on stock; the colored column are special products to be manufactured on request and generally not available on stock;
 - The material is flammable;
 - The material can be stocked in open space and piled until a maximum height of 5 rolls.

Mechanical properties (typical values)

Tensile strength - MD (EN ISO 10319)	kN/m	550	1 2,3
Tolerance		-50.00	
Strain at T _{ch} strength - MD (EN ISO 10319)	%	11.00	3,4
Tolerance		± 2.00	
Tensile strength - CMD (EN ISO 10319)	kN/m	55	2,5
Tolerance		-5.00	
Strain at T _{ch} strength - CMD (EN ISO 10319)	%	11.00	4,5
Tolerance		± 2.00	

Physical properties

Mesh size (nominal)		from 20x20 to 35x35	6 7
Geogrid core		high tenacity polyester	
Polymeric coating (standard)		polymeric	8
Roll width (standard)	m	from 3.6 to 5.3 according to stock and production availability	9
Roll length (standard)	m	100	
Durability	can be exposed up to 14 days, durable in natural soil with 4<pH<9 and soil temperature <25°C for a minimum of 100 years service life		



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