

**PARAGRID™ HF 90/5**  
**STRIP BONDED GEOGRIDS WITH HIGH TENACITY POLYESTER CORE**

PARAGRID™ HF geogrids are planar structures consisting of a biaxial array of composite geosynthetic strips characterised by a new geometry to optimise the bonding performance. The strips comprise of a core of high tenacity polyester (longitudinal) tendons encased in a polyethylene sheath.

PARAGRID™ HF		90/5	
<b>Mechanical Properties</b>			
UTS - longitudinal <sup>(1)</sup>	EN ISO 10319	kN/m	96
Tolerance <sup>(1)</sup>		kN/m	-6
Strip tensile strength T <sub>ch</sub> - MD <sup>(1)</sup>		kN	16.2
UTS - transverse <sup>(1)</sup>		kN/m	6
Tolerance <sup>(1)</sup>		kN/m	-1
Nominal strain at T <sub>ch</sub> - MD <sup>(2)</sup>		%	9.5
Modulus at 5% strain - MD <sup>(2)</sup>		kN/m	954
<b>Physical Properties</b>			
Strip reinforcement polymer - MD			PET
Strip coating polymer			PE
Strip width - MD <sup>(3)</sup>		mm	45
Mesh size (internal aperture) <sup>(3)</sup>		mm	940x135
Roll length <sup>(2)</sup>		m	100
Roll width <sup>(2)</sup>		m	4.50
Roll diameter <sup>(3)</sup>		m	0.42
Roll weight <sup>(2)</sup>		kg	200
<b>Durability, Environmental and Sustainability Properties</b>			
Content of SVHC	ISO 14025 EN 15804	%	≤ 0.1
Global Warming Potential Total (GWP) <sup>(4)</sup>		kg CO <sub>2</sub> Eq.	≤ 7.10E-01
Acidification potential (AP) <sup>(4)</sup>		mol H+ Eq.	≤ 1.71E-03
Eutrophication Potential freshwater (EP-fr) <sup>(4)</sup>		kg P Eq.	≤ 2.16E-06
Eutrophication Potential marine (EP-mar) <sup>(4)</sup>		kg N Eq.	≤ 5.18E-04
Eutrophication Potential terrestrial (EP-ter) <sup>(4)</sup>		mol N Eq.	≤ 5.66E-03
Durability	Annex B - hEN	Covered within one month after installation. Predicted to be durable for more than 120 years in natural soils with 4<pH<11 and soil temperatures <30 °C	

**NOTES:**

- Short-term tests accordance with EN ISO 10319:2015. The values given are mean values of ultimate strength and tolerance values correspond to the 95% confidence level to establish the characteristic short-term tensile strength (T<sub>ch</sub>) in accordance with EN 13251;
- Nominal value;
- Typical values, a standard tolerance of 10% on the reported values is admitted.
- Values reported in the EPD certificate KIWA-EE- 000373-EN issued in accordance with EN15804+A2: 2019 and ISO14025 with validity till April 2029. The reported values are selected among the 13 mandatory certified values (EN 15804+A2:2019) and referred to the Product Stage A1-A3. Additional environmental impact indicators and different Product Stages valid for Life Cycle Assessment are reported in the full EPD certificate of the product.

For LTDS and safety factors please contact the Maccaferri technical dept.  
 Special products can be manufactured on request for specific projects.



For the optimisation and improvement process of the technical characteristics of the products, the producer reserves the right to modify standards and characteristics of the product without warning. The information contained herein is 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 do we offer any warranty or immunity against patent infringement.

ParaGrid™ HF is a registered trademark of Linear Composite Ltd.

**Officine Maccaferri S.p.A.**  
**Global Headquarter**  
 E: info.hq@maccaferri.com  
 Web site: [maccaferri.com](http://maccaferri.com)

Bureau Veritas Certified Quality System Company  
 With ACCREDIA's and UKAS's accreditation.

**PARAGRID™ HF 100/5**  
**STRIP BONDED GEOGRIDS WITH HIGH TENACITY POLYESTER CORE**

PARAGRID™ HF geogrids are planar structures consisting of a biaxial array of composite geosynthetic strips characterised by a new geometry to optimise the bonding performance. The strips comprise of a core of high tenacity polyester (longitudinal) tendons encased in a polyethylene sheath.

PARAGRID™ HF			100/5
<b>Mechanical Properties</b>			
UTS - longitudinal <sup>(1)</sup>	EN ISO 10319	kN/m	106
Tolerance <sup>(1)</sup>		kN/m	-6
Strip tensile strength T <sub>ch</sub> - MD <sup>(1)</sup>		kN	18.0
UTS - transverse <sup>(1)</sup>		kN/m	6
Tolerance <sup>(1)</sup>		kN/m	-1
Nominal strain at T <sub>ch</sub> - MD <sup>(2)</sup>		%	9.5
Modulus at 5% strain - MD <sup>(2)</sup>		kN/m	1060
<b>Physical Properties</b>			
Strip reinforcement polymer (longitudinal)			PET
Strip coating polymer			PE
Strip width - MD <sup>(3)</sup>		mm	45
Mesh size (internal aperture) <sup>(3)</sup>		mm	940x135
Roll length <sup>(2)</sup>		m	150
Roll width <sup>(2)</sup>		m	4.50
Roll diameter <sup>(3)</sup>		m	0.52
Roll weight <sup>(2)</sup>		kg	280
<b>Durability, Environmental and Sustainability Properties</b>			
Content of SVHC		%	≤ 0.1
Global Warming Potential Total (GWP) <sup>(4)</sup>	ISO 14025 EN 15804	kg CO <sub>2</sub> Eq.	≤ 7.48E-01
Acidification potential (AP) <sup>(4)</sup>		mol H+ Eq.	≤ 1.80E-03
Eutrophication Potential freshwater (EP-fr) <sup>(4)</sup>		kg P Eq.	≤ 2.27E-06
Eutrophication Potential marine (EP-mar) <sup>(4)</sup>		kg N Eq.	≤ 5.45E-04
Eutrophication Potential terrestrial (EP-ter) <sup>(4)</sup>		mol N Eq.	≤ 5.96E-03
Durability	Annex B - hEN	Covered within one month after installation. Predicted to be durable for more than 120 years in natural soils with 4<pH<11 and soil temperatures <30 °C	

**NOTES:**

- Short-term tests accordance with EN ISO 10319:2015. The values given are mean values of ultimate strength and tolerance values correspond to the 95% confidence level to establish the characteristic short-term tensile strength (T<sub>ch</sub>) in accordance with EN 13251;
- Nominal value;
- Typical values, a standard tolerance of 10% on the reported values is admitted.
- Values reported in the EPD certificate KIWA-EE- 000373-EN issued in accordance with EN15804+A2: 2019 and ISO14025 with validity till April 2029. The reported values are selected among the 13 mandatory certified values (EN 15804+A2:2019) and referred to the Product Stage A1-A3. Additional environmental impact indicators and different Product Stages valid for Life Cycle Assessment are reported in the full EPD certificate of the product.

For LTDS and safety factors please contact the Maccaferri technical dept.  
 Special products can be manufactured on request for specific projects.



For the optimisation and improvement process of the technical characteristics of the products, the producer reserves the right to modify standards and characteristics of the product without warning. The information contained herein is 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 do we offer any warranty or immunity against patent infringement.

ParaGrid™ HF is a registered trademark of Linear Composite Ltd.

**Officine Maccaferri S.p.A.**  
**Global Headquarter**  
 E: info.hq@maccaferri.com  
 Web site: [maccaferri.com](http://maccaferri.com)

Bureau Veritas Certified Quality System Company  
 With ACCREDIA's and UKAS's accreditation.

**PARAGRID™ HF 125/5**  
**STRIP BONDED GEOGRIDS WITH HIGH TENACITY POLYESTER CORE**

PARAGRID™ HF geogrids are planar structures consisting of a biaxial array of composite geosynthetic strips characterised by a new geometry to optimise the bonding performance. The strips comprise of a core of high tenacity polyester (longitudinal) tendons encased in a polyethylene sheath.

PARAGRID™ HF		125/5	
<b>Mechanical Properties</b>			
UTS - longitudinal <sup>(1)</sup>	EN ISO 10319	kN/m	135
Tolerance <sup>(1)</sup>		kN/m	-10
Strip tensile strength T <sub>ch</sub> - MD <sup>(1)</sup>		kN	22.5
UTS - transverse <sup>(1)</sup>		kN/m	6
Tolerance <sup>(1)</sup>		kN/m	-1
Nominal strain at T <sub>ch</sub> - MD <sup>(2)</sup>		%	9.5
Modulus at 5% strain - MD <sup>(2)</sup>		kN/m	1325
<b>Physical Properties</b>			
Strip reinforcement polymer - MD			PET
Strip coating polymer			PE
Strip width - MD <sup>(3)</sup>		mm	46
Mesh size (internal aperture) <sup>(3)</sup>		mm	940x134
Roll length <sup>(2)</sup>		m	130
Roll width <sup>(2)</sup>		m	4.50
Roll diameter <sup>(3)</sup>		m	0.51
Roll weight <sup>(2)</sup>		kg	270
<b>Durability, Environmental and Sustainability Properties</b>			
Content of SVHC	ISO 14025 EN 15804	%	≤ 0.1
Global Warming Potential Total (GWP) <sup>(4)</sup>		kg CO <sub>2</sub> Eq.	≤ 8.58E-01
Acidification potential (AP) <sup>(4)</sup>		mol H+ Eq.	≤ 2.06E-03
Eutrophication Potential freshwater (EP-fr) <sup>(4)</sup>		kg P Eq.	≤ 2.61E-06
Eutrophication Potential marine (EP-mar) <sup>(4)</sup>		kg N Eq.	≤ 6.25E-04
Eutrophication Potential terrestrial (EP-ter) <sup>(4)</sup>		mol N Eq.	≤ 6.82E-03
Durability	Annex B - hEN	Covered within one month after installation. Predicted to be durable for more than 120 years in natural soils with 4<pH<11 and soil temperatures <30 °C	

**NOTES:**

- Short-term tests accordance with EN ISO 10319:2015. The values given are mean values of ultimate strength and tolerance values correspond to the 95% confidence level to establish the characteristic short-term tensile strength (T<sub>ch</sub>) in accordance with EN 13251;
- Nominal value;
- Typical values, a standard tolerance of 10% on the reported values is admitted.
- Values reported in the EPD certificate KIWA-EE- 000373-EN issued in accordance with EN15804+A2: 2019 and ISO14025 with validity till April 2029. The reported values are selected among the 13 mandatory certified values (EN 15804+A2:2019) and referred to the Product Stage A1-A3. Additional environmental impact indicators and different Product Stages valid for Life Cycle Assessment are reported in the full EPD certificate of the product.

For LTDS and safety factors please contact the Maccaferri technical dept.  
 Special products can be manufactured on request for specific projects.



For the optimisation and improvement process of the technical characteristics of the products, the producer reserves the right to modify standards and characteristics of the product without warning. The information contained herein is 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 do we offer any warranty or immunity against patent infringement.

ParaGrid™ HF is a registered trademark of Linear Composite Ltd.

**Officine Maccaferri S.p.A.**  
**Global Headquarter**  
 E: info.hq@maccaferri.com  
 Web site: [maccaferri.com](http://maccaferri.com)

Bureau Veritas Certified Quality System Company  
 With ACCREDIA's and UKAS's accreditation.

**PARAGRID™ HF 150/5**  
**STRIP BONDED GEOGRIDS WITH HIGH TENACITY POLYESTER CORE**

PARAGRID™ HF geogrids are planar structures consisting of a biaxial array of composite geosynthetic strips characterised by a new geometry to optimise the bonding performance. The strips comprise of a core of high tenacity polyester (longitudinal) tendons encased in a polyethylene sheath.

PARAGRID™ HF		150/5	
<b>Mechanical Properties</b>			
UTS - longitudinal <sup>(1)</sup>	EN ISO 10319	kN/m	160
Tolerance <sup>(1)</sup>		kN/m	-10
Strip tensile strength T <sub>ch</sub> - MD <sup>(1)</sup>		kN	27.0
UTS - transverse <sup>(1)</sup>		kN/m	6
Tolerance <sup>(1)</sup>		kN/m	-1
Nominal strain at T <sub>ch</sub> - MD <sup>(2)</sup>		%	9.5
Modulus at 5% strain - MD <sup>(2)</sup>		kN/m	1590
<b>Physical Properties</b>			
Strip reinforcement polymer - MD			PET
Strip coating polymer			PE
Strip width - MD <sup>(3)</sup>		mm	46
Mesh size (internal aperture) <sup>(3)</sup>		mm	940x134
Roll length <sup>(2)</sup>		m	150
Roll width <sup>(2)</sup>		m	4.50
Roll diameter <sup>(3)</sup>		m	0.57
Roll weight <sup>(2)</sup>		kg	330
<b>Durability, Environmental and Sustainability Properties</b>			
Content of SVHC	ISO 14025 EN 15804	%	≤ 0.1
Global Warming Potential Total (GWP) <sup>(4)</sup>		kg CO <sub>2</sub> Eq.	≤ 1.06E+00
Acidification potential (AP) <sup>(4)</sup>		mol H+ Eq.	≤ 2.58E-03
Eutrophication Potential freshwater (EP-fr) <sup>(4)</sup>		kg P Eq.	≤ 3.17E-06
Eutrophication Potential marine (EP-mar) <sup>(4)</sup>		kg N Eq.	≤ 7.81E-04
Eutrophication Potential terrestrial (EP-ter) <sup>(4)</sup>		mol N Eq.	≤ 8.51E-03
Durability	Annex B - hEN	Covered within one month after installation. Predicted to be durable for more than 120 years in natural soils with 4<pH<11 and soil temperatures <30 °C	

**NOTES:**

- Short-term tests accordance with EN ISO 10319:2015. The values given are mean values of ultimate strength and tolerance values correspond to the 95% confidence level to establish the characteristic short-term tensile strength (T<sub>ch</sub>) in accordance with EN 13251;
- Nominal value;
- Typical values, a standard tolerance of 10% on the reported values is admitted.
- Values reported in the EPD certificate KIWA-EE- 000373-EN issued in accordance with EN15804+A2: 2019 and ISO14025 with validity till April 2029. The reported values are selected among the 13 mandatory certified values (EN 15804+A2:2019) and referred to the Product Stage A1-A3. Additional environmental impact indicators and different Product Stages valid for Life Cycle Assessment are reported in the full EPD certificate of the product.

For LTDS and safety factors please contact the Maccaferri technical dept.  
 Special products can be manufactured on request for specific projects.



For the optimisation and improvement process of the technical characteristics of the products, the producer reserves the right to modify standards and characteristics of the product without warning. The information contained herein is 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 do we offer any warranty or immunity against patent infringement.

ParaGrid™ HF is a registered trademark of Linear Composite Ltd.

**Officine Maccaferri S.p.A.**  
**Global Headquarter**  
 E: info.hq@maccaferri.com  
 Web site: [maccaferri.com](http://maccaferri.com)

Bureau Veritas Certified Quality System Company  
 With ACCREDIA's and UKAS's accreditation.

**PARAGRID™ HF 175/5**  
**STRIP BONDED GEOGRIDS WITH HIGH TENACITY POLYESTER CORE**

PARAGRID™ HF geogrids are planar structures consisting of a biaxial array of composite geosynthetic strips characterised by a new geometry to optimise the bonding performance. The strips comprise of a core of high tenacity polyester (longitudinal) tendons encased in a polyethylene sheath.

PARAGRID™ HF		175/5	
<b>Mechanical Properties</b>			
UTS - longitudinal <sup>(1)</sup>	EN ISO 10319	kN/m	185
Tolerance <sup>(1)</sup>		kN/m	-10
Strip tensile strength T <sub>ch</sub> - MD <sup>(1)</sup>		kN	31.5
UTS - transverse <sup>(1)</sup>		kN/m	6
Tolerance <sup>(1)</sup>		kN/m	-1
Nominal strain at T <sub>ch</sub> - MD <sup>(2)</sup>		%	9.5
Modulus at 5% strain - MD <sup>(2)</sup>		kN/m	1855
<b>Physical Properties</b>			
Strip reinforcement polymer - MD			PET
Strip coating polymer			PE
Strip width (longitudinal) <sup>(3)</sup>		mm	46
Mesh size (internal aperture) <sup>(3)</sup>		mm	940x134
Roll length <sup>(2)</sup>		m	150
Roll width <sup>(2)</sup>		m	4.50
Roll diameter <sup>(3)</sup>		m	0.59
Roll weight <sup>(2)</sup>		kg	370
<b>Durability, Environmental and Sustainability Properties</b>			
Content of SVHC	ISO 14025 EN 15804	%	≤ 0.1
Global Warming Potential Total (GWP) <sup>(4)</sup>		kg CO <sub>2</sub> Eq.	≤ 1.15E+00
Acidification potential (AP) <sup>(4)</sup>		mol H+ Eq.	≤ 2.75E-03
Eutrophication Potential freshwater (EP-fr) <sup>(4)</sup>		kg P Eq.	≤ 3.50E-06
Eutrophication Potential marine (EP-mar) <sup>(4)</sup>		kg N Eq.	≤ 8.34E-04
Eutrophication Potential terrestrial (EP-ter) <sup>(4)</sup>		mol N Eq.	≤ 9.10E-03
Durability	Annex B - hEN	Covered within one month after installation. Predicted to be durable for more than 120 years in natural soils with 4<pH<11 and soil temperatures <30 °C	

**NOTES:**

- Short-term tests accordance with EN ISO 10319:2015. The values given are mean values of ultimate strength and tolerance values correspond to the 95% confidence level to establish the characteristic short-term tensile strength (T<sub>ch</sub>) in accordance with EN 13251;
- Nominal value;
- Typical values, a standard tolerance of 10% on the reported values is admitted.
- Values reported in the EPD certificate KIWA-EE- 000373-EN issued in accordance with EN15804+A2: 2019 and ISO14025 with validity till April 2029. The reported values are selected among the 13 mandatory certified values (EN 15804+A2:2019) and referred to the Product Stage A1-A3. Additional environmental impact indicators and different Product Stages valid for Life Cycle Assessment are reported in the full EPD certificate of the product.

For LTDS and safety factors please contact the Maccaferri technical dept.  
 Special products can be manufactured on request for specific projects.



For the optimisation and improvement process of the technical characteristics of the products, the producer reserves the right to modify standards and characteristics of the product without warning. The information contained herein is 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 do we offer any warranty or immunity against patent infringement.

ParaGrid™ HF is a registered trademark of Linear Composite Ltd.

**Officine Maccaferri S.p.A.**  
**Global Headquarter**  
 E: info.hq@maccaferri.com  
 Web site: [maccaferri.com](http://maccaferri.com)

Bureau Veritas Certified Quality System Company  
 With ACCREDIA's and UKAS's accreditation.

**PARAGRID™ HF 200/5**  
**STRIP BONDED GEOGRIDS WITH HIGH TENACITY POLYESTER CORE**

PARAGRID™ HF geogrids are planar structures consisting of a biaxial array of composite geosynthetic strips characterised by a new geometry to optimise the bonding performance. The strips comprise of a core of high tenacity polyester (longitudinal) tendons encased in a polyethylene sheath.

PARAGRID™ HF			200/5
<b>Mechanical Properties</b>			
UTS - longitudinal <sup>(1)</sup>	EN ISO 10319	kN/m	212
Tolerance <sup>(1)</sup>		kN/m	-12
Strip tensile strength T <sub>ch</sub> - MD <sup>(1)</sup>		kN	36.0
UTS - transverse <sup>(1)</sup>		kN/m	6
Tolerance <sup>(1)</sup>		kN/m	-1
Nominal strain at T <sub>ch</sub> - MD <sup>(2)</sup>		%	9.5
Modulus at 5% strain - MD <sup>(2)</sup>		kN/m	2120
<b>Physical Properties</b>			
Strip reinforcement polymer - MD			PET
Strip coating polymer			PE
Strip width - MD <sup>(3)</sup>		mm	47
Mesh size (internal aperture) <sup>(3)</sup>		mm	940x133
Roll length <sup>(2)</sup>		m	160
Roll width <sup>(2)</sup>		m	4.50
Roll diameter <sup>(3)</sup>		m	0.65
Roll weight <sup>(2)</sup>		kg	410
<b>Durability, Environmental and Sustainability Properties</b>			
Content of SVHC	ISO 14025 EN 15804	%	≤ 0.1
Global Warming Potential Total (GWP) <sup>(4)</sup>		kg CO <sub>2</sub> Eq.	≤ 1.26E+00
Acidification potential (AP) <sup>(4)</sup>		mol H+ Eq.	≤ 3.02E-03
Eutrophication Potential freshwater (EP-fr) <sup>(4)</sup>		kg P Eq.	≤ 3.86E-06
Eutrophication Potential marine (EP-mar) <sup>(4)</sup>		kg N Eq.	≤ 9.17E-04
Eutrophication Potential terrestrial (EP-ter) <sup>(4)</sup>		mol N Eq.	≤ 1.00E-02
Durability	Annex B - hEN	Covered within one month after installation. Predicted to be durable for more than 120 years in natural soils with 4<pH<11 and soil temperatures <30 °C	

**NOTES:**

- Short-term tests accordance with EN ISO 10319:2015. The values given are mean values of ultimate strength and tolerance values correspond to the 95% confidence level to establish the characteristic short-term tensile strength (T<sub>ch</sub>) in accordance with EN 13251;
- Nominal value;
- Typical values, a standard tolerance of 10% on the reported values is admitted.
- Values reported in the EPD certificate KIWA-EE- 000373-EN issued in accordance with EN15804+A2: 2019 and ISO14025 with validity till April 2029. The reported values are selected among the 13 mandatory certified values (EN 15804+A2:2019) and referred to the Product Stage A1-A3. Additional environmental impact indicators and different Product Stages valid for Life Cycle Assessment are reported in the full EPD certificate of the product.

For LTDS and safety factors please contact the Maccaferri technical dept.  
 Special products can be manufactured on request for specific projects.



For the optimisation and improvement process of the technical characteristics of the products, the producer reserves the right to modify standards and characteristics of the product without warning. The information contained herein is 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 do we offer any warranty or immunity against patent infringement.

ParaGrid™ HF is a registered trademark of Linear Composite Ltd.

**Officine Maccaferri S.p.A.**  
**Global Headquarter**  
 E: info.hq@maccaferri.com  
 Web site: [maccaferri.com](http://maccaferri.com)

Bureau Veritas Certified Quality System Company  
 With ACCREDIA's and UKAS's accreditation.

**PARAGRID™ HF 250/5**  
**STRIP BONDED GEOGRIDS WITH HIGH TENACITY POLYESTER CORE**

PARAGRID™ HF geogrids are planar structures consisting of a biaxial array of composite geosynthetic strips characterised by a new geometry to optimise the bonding performance. The strips comprise of a core of high tenacity polyester (longitudinal) tendons encased in a polyethylene sheath.

PARAGRID™ HF		250/5	
<b>Mechanical Properties</b>			
UTS - longitudinal <sup>(1)</sup>	EN ISO 10319	kN/m	265
Tolerance <sup>(1)</sup>		kN/m	-15
Strip tensile strength T <sub>ch</sub> - MD <sup>(1)</sup>		kN	45.0
UTS - transverse <sup>(1)</sup>		kN/m	6
Tolerance <sup>(1)</sup>		kN/m	-1
Nominal strain at T <sub>ch</sub> - MD <sup>(2)</sup>		%	9.5
Modulus at 5% strain - MD <sup>(2)</sup>		kN/m	2650
<b>Physical Properties</b>			
Strip reinforcement polymer - MD			PET
Strip coating polymer			PE
Strip width - MD <sup>(3)</sup>		mm	48
Mesh size (internal aperture) <sup>(3)</sup>		mm	940x132
Roll length <sup>(2)</sup>		m	140
Roll width <sup>(2)</sup>		m	4.50
Roll diameter <sup>(3)</sup>		m	0.67
Roll weight <sup>(2)</sup>		kg	430
<b>Durability, Environmental and Sustainability Properties</b>			
Content of SVHC	ISO 14025 EN 15804	%	≤ 0.1
Global Warming Potential Total (GWP) <sup>(4)</sup>		kg CO <sub>2</sub> Eq.	≤ 1.55E+00
Acidification potential (AP) <sup>(4)</sup>		mol H+ Eq.	≤ 3.69E-03
Eutrophication Potential freshwater (EP-fr) <sup>(4)</sup>		kg P Eq.	≤ 4.73E-06
Eutrophication Potential marine (EP-mar) <sup>(4)</sup>		kg N Eq.	≤ 1.12E-03
Eutrophication Potential terrestrial (EP-ter) <sup>(4)</sup>		mol N Eq.	≤ 1.22E-02
Durability	Annex B - hEN	Covered within one month after installation. Predicted to be durable for more than 120 years in natural soils with 4<pH<11 and soil temperatures <30 °C	

**NOTES:**

- Short-term tests accordance with EN ISO 10319:2015. The values given are mean values of ultimate strength and tolerance values correspond to the 95% confidence level to establish the characteristic short-term tensile strength (T<sub>ch</sub>) in accordance with EN 13251;
- Nominal value;
- Typical values, a standard tolerance of 10% on the reported values is admitted.
- Values reported in the EPD certificate KIWA-EE- 000373-EN issued in accordance with EN15804+A2: 2019 and ISO14025 with validity till April 2029. The reported values are selected among the 13 mandatory certified values (EN 15804+A2:2019) and referred to the Product Stage A1-A3. Additional environmental impact indicators and different Product Stages valid for Life Cycle Assessment are reported in the full EPD certificate of the product.

For LTDS and safety factors please contact the Maccaferri technical dept.  
 Special products can be manufactured on request for specific projects.



For the optimisation and improvement process of the technical characteristics of the products, the producer reserves the right to modify standards and characteristics of the product without warning. The information contained herein is 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 do we offer any warranty or immunity against patent infringement.

ParaGrid™ HF is a registered trademark of Linear Composite Ltd.

**Officine Maccaferri S.p.A.**  
**Global Headquarter**  
 E: info.hq@maccaferri.com  
 Web site: [maccaferri.com](http://maccaferri.com)

Bureau Veritas Certified Quality System Company  
 With ACCREDIA's and UKAS's accreditation.