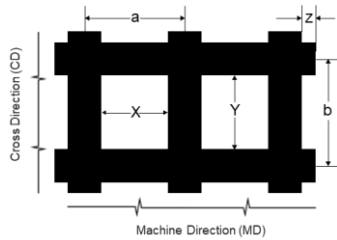




ISO 9001, 14001, 45001



IS 17373:2020



The high strength geogrid solution to reinforce weak soils with long-term structural integrity and performance.

ArmaLynk is a high strength biaxial geogrid made from high-tenacity polyester yarns, coated for durability. Utilizing a unique non-invasive welding process, these strips are orthogonally welded to create a resilient geogrid structure. It is designed for embankments over weak soils, voids, or rigid inclusions, offering tensile strengths up to 600 kN/m.

Applications include bridge approaches, landfill extensions, access roads, and more, replacing costly traditional methods. Its installation is simple: surface preparation, geogrid placement (single or multiple layers), and backfilling.

Geoquest provides full project support, from design to on-site assistance, ensuring sustainable and efficient solutions.

## Technical properties

Properties \ Reference	Units	300/300	400/400	500/500	600/600
<b>Mechanical properties</b>					
Nominal tensile strength	kN/m	300	400	500	600
Elongation at nominal strength	%	≤12			
Partial reduction factor – creep <sup>i</sup>	@20°C	1.37			
Partial reduction factor – installation damage	D <sub>50</sub> 0.9 mm	1.01	1.01	1.00	1.00
	D <sub>50</sub> 5.0 mm	1.02	1.02	1.00	1.00
	D <sub>50</sub> 21.0 mm	1.01	1.01	1.00	1.00
Partial reduction factor - environmental effects <sup>ii</sup>	-	1.10			
<b>Physical properties</b>					
Polymer on the tensile element	-	High Tensile Polyester (HT-PET)			
Polymer sheathing on the tensile element	-	Linear Low-Density Polyethylene (LLDPE)			
MD and CD strap distance (a/b)	mm/mm	402/402	313/313	245/245	225/225
Aperture (X/Y)	mm/mm	332/332	243/243	175/175	155/155
MD strap width	mm	70			
CD strap width	mm	70			
Nominal roll length <sup>iii</sup>	m	50			
Nominal roll width	m	≤5.7			
Selvedge (z)	mm	≤50			
Weight of roll <sup>iii</sup>	kg	400	480	590	770

<sup>i</sup> Reduction Factors are at 20°C and for 114 years design life. Reduction factors for higher temperatures up to 40°C can be furnished on request.

<sup>ii</sup> Partial Reduction factors - environmental effects are valid for pH range of 3 to 9.

<sup>iii</sup> The provided roll weight is an estimate and includes the steel core. Actual weight may vary based on the roll's final length and width. Roll length may be adjusted during manufacturing to meet logistical requirements. The final weight and length will be confirmed at time of delivery.

<sup>iv</sup> Intermediate strength products of ArmaLynk can be manufactured on request.

<sup>v</sup> Our internal laboratory is certified by the National Accreditation Board for Testing and Calibration Laboratories (NABL).

Global Warming Potential A1-A3 (GWP) = 3 kg CO<sub>2</sub>e/kg

Environmental Product Declaration is available in accordance with ISO 14025 and EN 15804 (Certificate No.: EPD HUB, HUB-0978)

Trademarks and other Intellectual Property Rights: Any trademark, logo, picture, texts, design, drawing or anything else present on this document are and shall remain the exclusive property of Geoquest. Therefore, no right, title and/or interest in any material may be deemed assigned to the user. The user shall not reproduce, totally or in part, distribute, publish, transmit, modify totally or in part, or sell any trademark, logo, picture, texts, design, drawing or anything else present on this document. If interested in copying or reusing in whole or in part any of the above, please reach out to the Geoquest [rfis@geoquest-group.com](mailto:rfis@geoquest-group.com)

Disclaimer: This document aims to provide a panoramic view of ArmaLynk and its applications. Geoquest makes no representations and warranties of any kind, expressly or implicitly, with respect to this document or any information contained herein, and expressly disclaims any responsibility in relation thereto; consequently, Geoquest shall under no circumstances be considered liable or responsible, for any damage, of any kind or entity, directly or indirectly, arising from, or in connection with, the use or inability to use the information, elements and material contained on this document. Geoquest is in no way responsible for any damage arising from the use information present, whether said damage is the result of defects, errors or anything else, or the result of any use, misuse and/or inability to use the material on the document.

