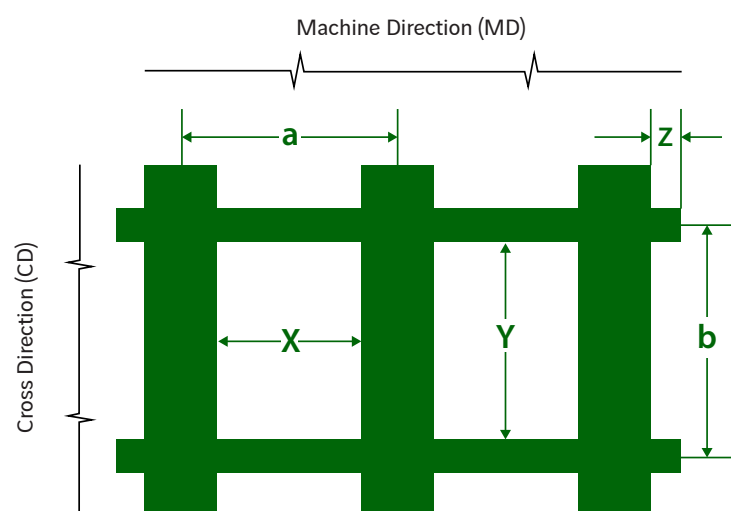


ArmaLynk®(UX) PVA

ArmaLynk®(UX) PVA is an advanced soil reinforcement geosynthetic, featuring high tenacity polyvinyl alcohol (HT-PVAL) yarns extruded into polymeric strips. These strips are encased in a unique protective polyethylene sheath and welded by non-invasive technology in an orthogonal pattern to form a uniquely stable and robust geogrid structure. The HT-PVAL fibers comply with stringent industry standards and offer remarkable durability in challenging environments, with a pH tolerance of up to 13.

Technical Properties

GRADE	UNITS	AL(UX) PVA 100	AL(UX) PVA 200	AL(UX) PVA 300	AL(UX) PVA 400	AL(UX) PVA 500	AL(UX) PVA 600	AL(UX) PVA 700	AL(UX) PVA 800	AL(UX) PVA 900	AL(UX) PVA 1000
Mechanical Properties											
Nominal Tensile Strength	kN/m	100	200	300	400	500	600	700	800	900	1000
Elongation at Nominal Strength	%	6 ± 2									
Partial Reduction Factor - Creep ⁱ	@20°C	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61
Partial Reduction Factor – Installation Damage	D ₅₀ 0.9mm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	D ₅₀ 12.0mm	1.00	0.98	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	D ₅₀ 20.0mm	0.98	0.98	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Partial Reduction Factor - Environmental Effects ⁱⁱ	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Physical Properties											
Polymer on the tensile element	-	High Tensile Polyvinyl Alcohol (HT-PVAL)									
Polymer sheathing on the tensile element	-	Linear Low Density Polyethylene (LLDPE)									
MD and CD Strap Distance (a/b)	mm/mm	404/1000	314/1000	375/1000	282/1000	225/1000	182/1000	156/1000	138/1000	122/1000	110/1000
Aperture (X/Y)	mm/mm	354/955	264/955	305/955	212/955	155/955	112/955	86/955	67/955	52/955	40/955
MD Strap Width	mm	50	50	70	70	70	70	70	70	70	70
Nominal Roll Length ⁱⁱⁱ	m	150	150	125	100	100	100	80	70	60	60
Nominal Roll Width	m	≤5.7									
Selvedge (z)	mm	≤50									
Weight of Roll ⁱⁱⁱ	kg	285	445	640	660	800	980	900	890	850	940



Notes:

- 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.
- Partial Reduction factors - environmental effects are valid for pH range of 1 to 13.
- 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.
- Intermediate strength products of ArmaLynk can be manufactured on request.
- Our internal laboratory is certified by the National Accreditation Board for Testing and Calibration Laboratories (NABL).