



A.G.A. NEEDLE PUNCH 300

A.G.A NP300

(Needle Punch 300) is a high performance 300gsm geotextile that provides - outstanding performance - at minimum weight - with excellent puncture resistance.

Typical Applications

Protection

A.G.A NP300 is installed below and/or above an impermeable membrane to function as a protection geotextile preventing the risk of puncture damage to the liner.

A.G.A NP300 is a strong and flexible needle punch geotextile that provides protection to a wide range of adjacent geosynthetics. With its excellent flexibility, durability and thickness, needle punch fabric offers an ideal puncture resistant protective cushion.

Separation

A.G.A NP300 reinforces poor existing sub-soil by preventing it from mixing with costly imported material that is laid above. This geotextile layer helps to limit uneven settlement reducing rutting and/or deformation, thus increasing the load bearing capability and stability of foundations or traffic load bearing layers.

A.G.A. NP300 used below A.G.A Geocell as a Tree Root Protection Mat provides a layer for separation and filtration. Water, nutrients and air percolate the root zone to sustain plant development while deflecting fibrous root rising up through into the Geocell fill.

Filtration

A.G.A. NP300 geotextile retains particles whilst allowing the free movement of water, thereby keeping separate two opposing layers during severe hydraulic activity.

Avoiding the migration of material between layers vastly improves the surface load bearing capacity and maintains the free passage of water maintaining the sub-soil stability.

Drainage

A.G.A NP300 is used to maintain continuous free drainage of water away from construction sites with minimum loss of pressure. The structure of needle punch is such as to allow excess water to pass through the body of the material without blocking the fabric facilitating drainage away from the area.

You can rely on A.G.A NP300

- Easy to install
- Extremely long-life
- Flexible and lightweight
- High strength and elongation
- Superior wearing
- Abrasion resistant
- Excellent hydraulic capability



Concept to Completion

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A.G.A NEEDLE PUNCH 300.

A.G.A Needle Punch 300 geotextile is value for money at its best. Our manufactures employ the latest technology so that we can offer maximum protection at optimum cost.

Needle punch non-woven fabric production is a physical and mechanical bonding method that saves energy and is non-polluting.

Chemical resistance. Excellent resistance to a wide range of compounds normally found in the ground. This includes acids alkalis, chlorides, sulphates and leachate. We will be pleased to advise on specific substances may be found on brownfield sites.

Design. Our technical department can offer help and design suggestions for the most economical use of this material.

Health and safety. **A.G.A NP300** when used and laid in accordance with manufactures instruction does not present a health hazard. Foundations for protection and stability:

- Reservoirs
- Coastal revetments
- Lakes
- Construction sites
- Ponds
- Tree root protection
- Slopes
- Drainage trenches

A.G.A. Needle Punch 300			
Mechanical Properties	Test	Result	Units
Tensile Strength – M	EN ISO 10319	22.0	kN/m
Tensile Strength – XD	EN ISO 10319	22.0	kN/m
Elongation at break – MD	EN ISO 10319	50.0	%
Elongation at break – XD	EN ISO 10319	55.0	%
CBR Puncture Resistance	EN ISO 12236	4000	N
Dynamic Cone Drop	EN ISO 13433	12.0	mm
Pyramid Puncture	EN ISO 14574	385.0	N
Protection Efficiency	EN ISO 13719	1.61	%
Hydraulic Properties	Test	Result	Units
Permeability	EN ISO 11058	75x10 ⁻³	m/s
Water flow normal to the plane	EN ISO 11058	75	l/m ² .s
Water flow in the plane 20kPa	EN ISO 12958	8x10 ⁻⁶	m ² /s
Characteristic Opening Size	EN ISO 12956	70.0	µm
Physical Properties	Test	Result	Units
Thickness under 2kPa	EN ISO 9863-1	2.4	mm
Weight	EN ISO 9864	300.0	g/m ²
Roll width		525	cm
Roll length		100	m
Roll diameter	(+/-10)	54	cm



This information is subject to change arising from new developments and findings. If you are unable to find the item you are looking for, please do not hesitate to contact us immediately.

The A.G.A. Group installation teams operate solely within the field of aquatic and bioengineering. We operate a policy of 'Best Practice' and are bound by the Code of Conduct of both the Institute of Fisheries Management and the Society of Biology. The A.G.A. Group will quote for the supply of materials, their installation or for 'turnkey' projects.

A.G.A. is Quality assured to: ISO45001 : 2018, ISO9001 : 2015 & ISO 14001 : 2015

A.G.A. Group, MMG and MHP and AGACES are trading styles of A.G.A. Group Enviro-Fix Limited

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