



ATSTRIP

ATSTRIP - GEOSYNTHETIC REINFORCEMENT STRIP

This geosynthetic innovation is the key to solidifying backfill materials in RS wall systems. Comprising high-strength polyester fibres, arrayed in ten distinct bundles and shielded by a sturdy polyethylene sheath, **ATSTRIP** is the essence of resilience. The polyester fibres, pre-tensioned for maximum efficacy, are seamlessly bonded with polyethylene, creating a robust polymeric strip. The polyethylene not only safeguards the fibres but also defines the strip's form. Offered in a range of tensile strengths from 20 to 100 kN and measuring 90mm in width, **ATSTRIP** is available in rolls of about 136m, setting a new standard in soil reinforcement.

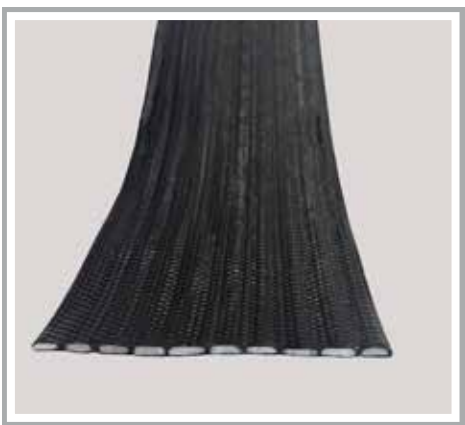


Table 1. Technical specifications of **ATSTRIP**

S.No.	Types of ATSTRIP	Packaging Colour	Ultimate Tensile Strength, T_{ult} (kN)	Width (mm)
1	GS 20	White	20	90
2	GS 30	Violet	30	90
3	GS 40	Indigo	40	90
4	GS 50	Blue	50	90
5	GS 60	Green	60	90
6	GS 75	Yellow	75	90
7	GS 85	Orange	85	90
8	GS 100	Red	100	90

WORKING MECHANISM

Unlock the full potential of your construction projects with **ATSTRIP**, the revolutionary solution to soil deformation challenges. Our cutting-edge technology enhances soil stability through dynamic frictional interactions, ensuring your structures stand firm and resilient. With **ATSTRIP**, align the success of your project by providing unparalleled tensile strength to the soil, enabling it to withstand the desired goal.

Dive into the science of soil reinforcement with **ATSTRIP**, where every detail counts. From the micro-texture of our materials to the optimal balance of soil properties, we've engineered a product that adapts to your needs. Experience the synergy of advanced reinforcement and soil mechanics, and watch as **ATSTRIP** transforms the ground beneath your feet into a solid foundation for progress. Choose **ATSTRIP**—where engineering meets excellence.

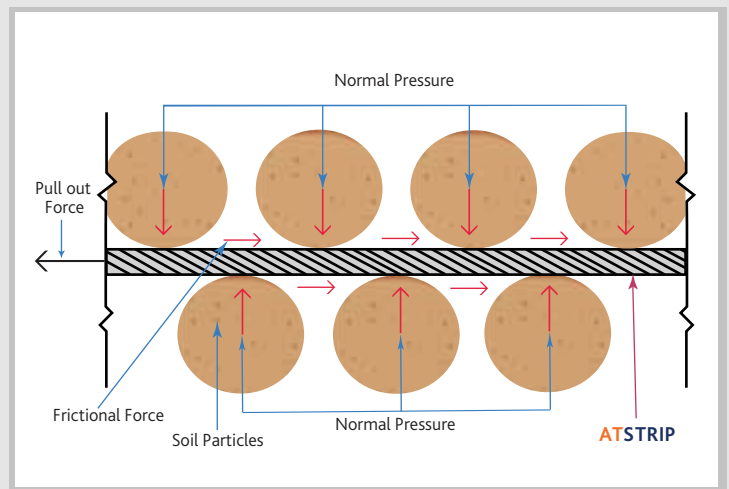
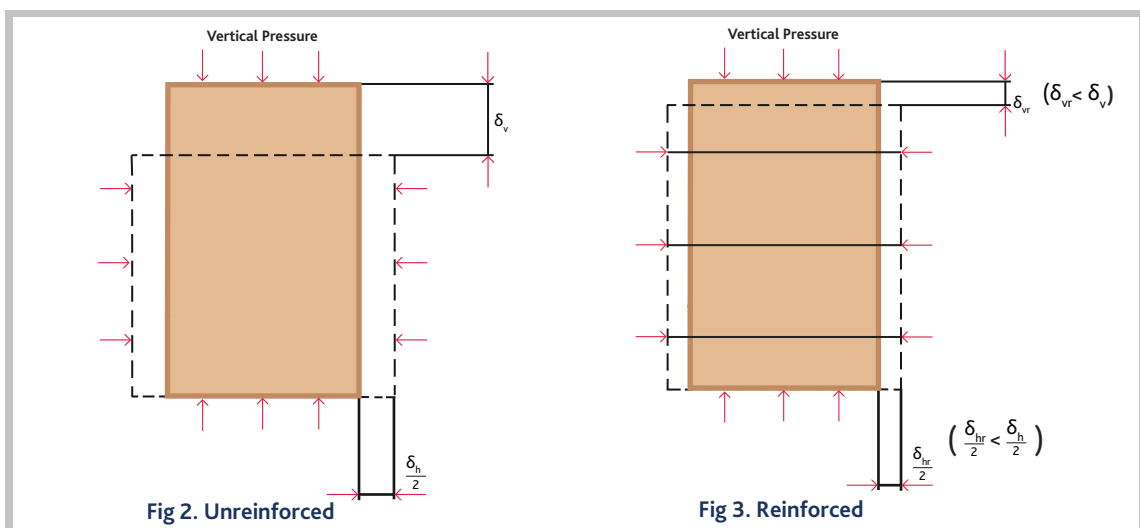


Fig 1. Frictional Stress transfer between the soil and reinforcement.

FUNCTION OF ATSTRIP IN REINFORCED SOIL WALL

ATSTRIP excels in reinforcing soil for construction stability. Its polyester yarn tendons and polyethylene sheath work together to fortify soil walls, ensuring long-lasting structural integrity and resilience against environmental stresses. **ATSTRIP** is the foundation's safeguard, providing essential tensile strength to the earth's layers. Without reinforcement, the risk of failure due to shear or excessive deformation looms increases. But with **ATSTRIP**, as vividly demonstrated in Figures 2 & 3, you can witness the stark contrast between unreinforced and reinforced conditions. It's not just about preventing failure; it's about paving the way for success, ensuring your structures are built to last. Reinforce with confidence, reinforce with **ATSTRIP**.



INSTALLATION OF ATSTRIP IN REINFORCED SOIL WALL

Just like steel bars strengthen concrete, our **ATSTRIP** technology boosts soil's power. By adding reinforcement in line with the soil's stretch, we make up for its weakness in tension. The result? A tougher, more resilient ground ready to support your biggest projects. **ATSTRIP** is the muscle behind the might, making soil strong where it counts.

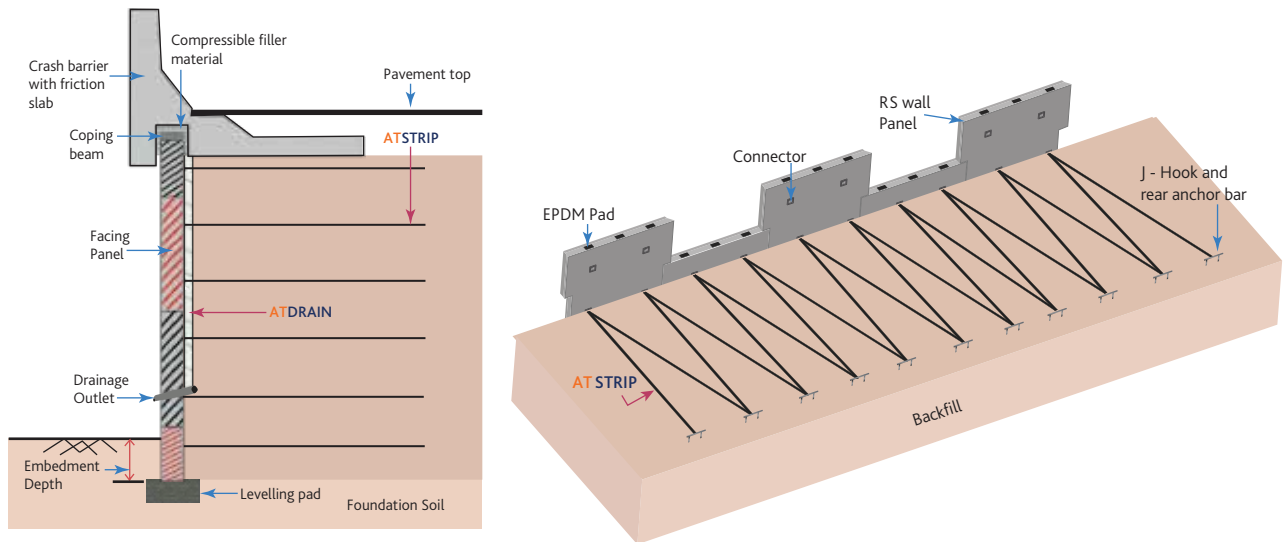


Fig 4. Typical cross section of laying of **ATSTRIP**



➤ FEATURES OF ATSTRIP

- **Unmatched Strength, Feather-Light:** Our geosynthetic product redefines durability.
- **Premium Yarns for Peak Performance:** Only the finest high tenacity filament yarns are selected.
- **Rugged Protection:** A robust polyethylene coating shields against damage and extends lifespan.
- **Consistent Excellence:** Uniform width across all strip grades guarantees quality.
- **Enhanced Soil Interaction:** Optimized for superior backfill strip cohesion.
- **Installation Made Effortless:** Lightweight design for simple on-site handling.
- **Tailored to Your Needs:** Customizable for the unique demands of your project.



➤ FUNCTION OF ATSTRIP

- **Restrains Soil Deformations:** It limits soil movement, enhancing stability.
- **Improves Mechanical Properties:** Through friction between the soil and **ATSTRIP**, it strengthens the soil's structure.
- **Provides Tensile Resistance:** It compensates for soil's lack of tensile strength, absorbing stresses within the structure.

➤ APPLICATION OF ATSTRIP

- **Reinforced Soil Walls (RSW):** Ideal for supporting soil walls in various construction scenarios.
- **Backfill Material Reinforcement:** Perfect for reinforcing backfill materials like soil or fly ash in RS wall systems.



WIDE RANGE IN GRADES OF ATSTRIP

ATSTRIP by A&T Engineering Private Limited is the ultimate geosynthetic solution for superior performance and durability. Designed with precision and crafted with care, **ATSTRIP** is a world-class quality Geostrip that surpasses industry standards.

Engineered to reinforce soil structures, and provide long-lasting stability, **ATSTRIP** delivers unmatched strength and resilience. With our cutting-edge manufacturing techniques and rigorous quality control, we assure you a product of exceptional reliability and effectiveness.

Trust **ATSTRIP** to enhance your infrastructure projects with its advanced geosynthetic technology. Experience the difference and build with confidence. Choose **ATSTRIP** for excellence in geosynthetic solutions.

We manufacture a wide range of tensile strength, from 20 KN to 100 KN.



ATSTRIP has strengthened numerous structures across diverse projects. It is Reliable, Adaptable, and Ideal for Reinforcing Soil Structure.





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