



**e&t**  
ENGINEERING

**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.

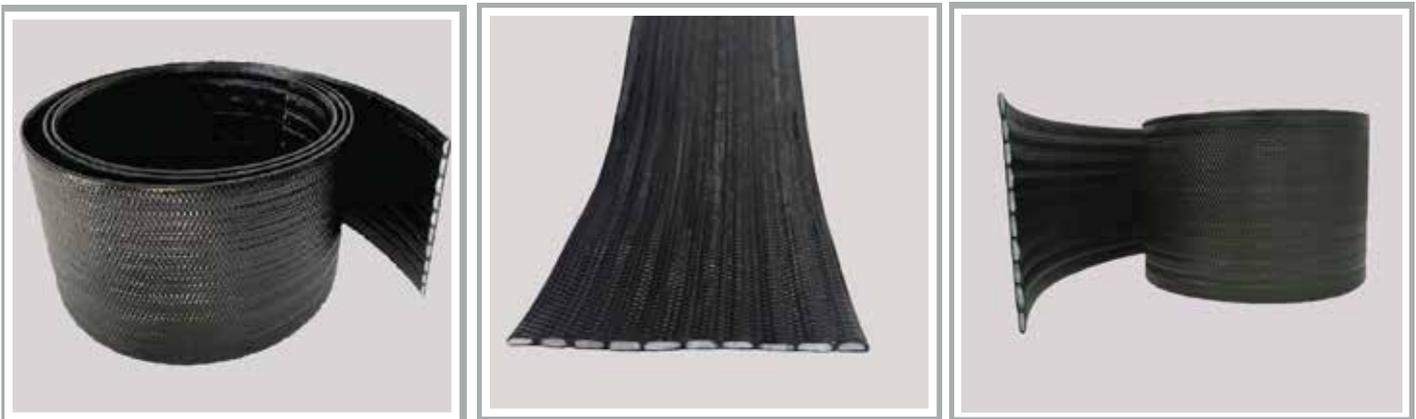


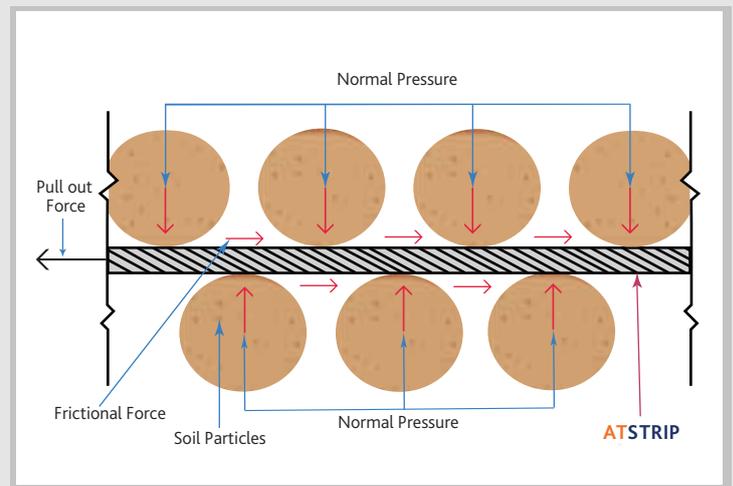
Table 1. Technical specifications of **ATSTRIP**

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.

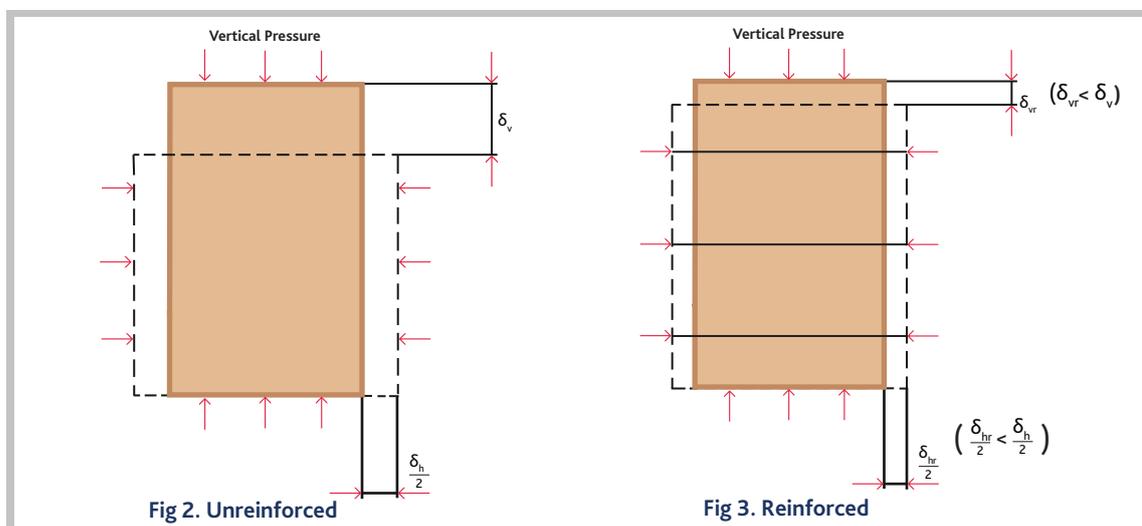
Dive into the science of soil reinforcement with **ATSTRIP**, where every detail counts. From the micro-texture of our materials to the optimal balance of soil properties, we've engineered a product that adapts to your needs. Experience the synergy of advanced reinforcement and soil mechanics, and watch 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.

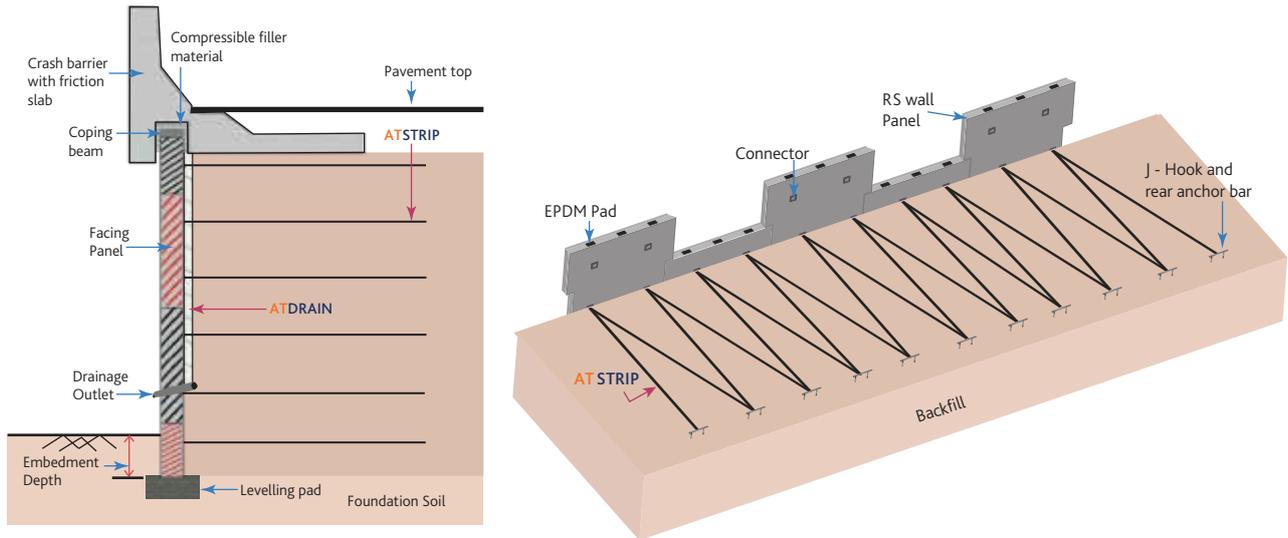


Fig 4. Typical cross section of laying of ATSTRIP



## ➤ 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.

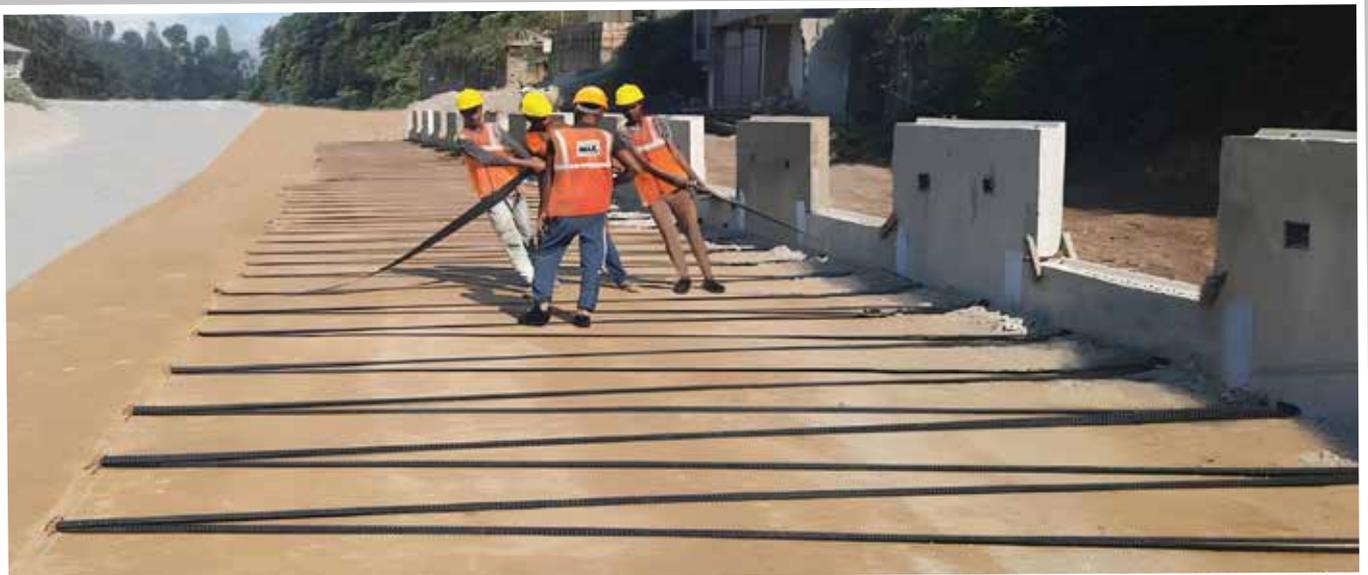


## ➤ FUNCTION OF ATSTRIP

- **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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