Tensar®
A Division of CMC

Military Solutions

Reliable engineering solutions for both new construction and upgrades of military infrastructure, ensuring safe access for MLC-class tracked and wheeled vehicles.

Upgrade of NATO Corridor | Lithuania

To read the full Success Story
SCAN THE QR CODE.

Reduced material logistics burden and enhanced all-season interoperability

Military access roads suffer frequently from excess rutting under tracked vehicles, rapid degradation under repeated convoy loading, and pumping and shear failure over weak subgrades.

These challenges, along with the resultant potential for seasonal load restrictions and high aggregate logistics requirements, give rise to avoidable threats to critical mission success and operational readiness.

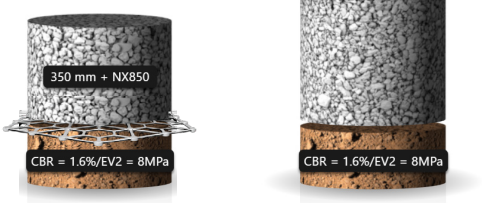
Tensar offers a range of mechanical stabilisation and reinforcement geogrids which are NATO-registered with NSNs. These products ensure availability and long-term performance of new and upgraded military infrastructure, minimising maintenance requirements and increasing resilience.

PRINCIPAL BENEFITS OF MECHANICALLY STABILISED MILITARY INFRASTRUCTURE:

- **Maintain or upgrade MLC capability** over weak and variable subgrades, through enhanced load distribution and stiffness
- **Improved rut resistance** under significant and repetitive loading from tracked and wheeled vehicles
- **Reduced aggregate transport requirements** during mobilisation and base expansion operations
- **Increased operational availability** in all seasons, mitigating risks such as thaw weakening in Nordic and Baltic climates

STANAG 2021 MLC120 Tracked Vehicle
Working Platform module

65%
reduction
in thickness*



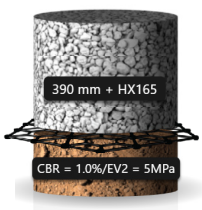
Tensar® InterAx® NX850
NSN 5650-99-318-7600

Non-stabilised

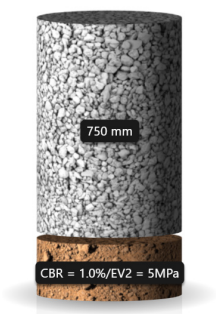
Designed using Tensar

STANAG 2021 MLC30 Wheeled Vehicle
Heavy Haul Road module

38%
reduction
in thickness*



Tensar® H-Series® HX165
NSN 5650-99-324-9298



Non-stabilised

** The Tensar® solutions shown above are illustrative, reflecting typical design parameters, and should not be adopted within designs without manufacturer guidance. Contact Tensar® or your local Tensar® distribution partner for project-specific support.*

TENSAR® | SUCCESS STORY | ESTONIA

Tensar® H-Series® geogrid was used to stabilise large fraction aggregate within military access roads over variable ground and frozen peat swamps.

Tensar's Next Generation mechanical stabilisation geogrid facilitated the construction of critical military infrastructure during harsh winter conditions, over peat bog material and other variable ground.

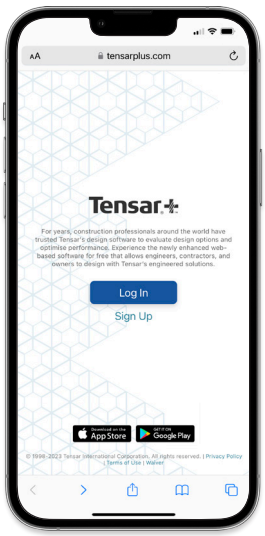
Alongside significantly reducing aggregate logistics requirements during construction, Tensar's solution instilled confidence that the mechanically-stabilised infrastructure will provide reliable long-term performance with minimal maintenance.

Tensar's free to use Tensar+ cloud based design software enables designers to generate performance based solutions with quantified cost, time and carbon emission savings.

Tensar+ offers a number of design modules that are fully supported by our expert knowledge and years of extensive research to meet project requirements.

Tensar+

SCAN THE QR CODE
to register for free.



- Design and evaluate your own project specifications.
- Compare alternative materials and project conditions.
- See cost, time and carbon savings in real time.
- Analyse the sustainability of your projects.

TENSAR® SOLUTIONS OVERVIEW

- Full Road Design Solutions
- Road and Embankment Foundations
- Working Platforms and Temporary Structures
- Reinforced Soil Walls and Slopes
- Temporary Access Roads
- Asphalt Pavement Maintenance
- Trackbed Stabilisation

let us help you with your next challenge: tensarinternational.com email: tensarinfo-intl@cmc.com

CMC

We're CMC. You'll find our products strengthening and reinforcing the infrastructure nearly everywhere on the planet – in sports stadiums and public buildings as well as highways, bridges, railways and other structures. To serve this global market, CMC maintains facilities across the United States, Europe and Asia. These sites include everything from local recycling centers, steel mini-mills and micro-mills to large-scale fabrication centers, heat-treating facilities as well as other operations. **cmc.com**