

# High-Performance Mesh Products



# DYWIDAG High Tensile Hex mesh

DYWIDAG High Tensile Hex (HTH) mesh system offers a durable, easy-to-install solution for slope stabilisation, providing strong protection against rockfall and soil instability with superior corrosion resistance and design flexibility.

This fully tested, patented, and approved system has high tensile and punching strengths, ensuring robust protection against rockfall and soil instability.

The lightweight design allows for easy installation and is easy to cut. The mesh features Class A ZnAl coatings, offering superior corrosion resistance and longevity.

For projects requiring the utmost in corrosion protection, we also offer stainless steel options, ensuring the system maintains its integrity even in the harshest conditions.

The comprehensive range of mesh systems has been carefully designed to complement DYWIDAG's range of existing slope stabilisation products.

Manufactured in Europe with technical approvals, this competitively priced system offers a dependable and cost-effective choice for your geotechnical needs.



## Compatible Products

- DYWI<sup>®</sup> DRILL hollow bar.
- GEWI<sup>®</sup> Threadbar.
- Stainless steel threadbar.
- DYWI<sup>®</sup> DRILL stainless steel hollow bar.
- Combination bar.
- All accessories.

## Uses

- Rockfall protection.
- Landslide mitigation.
- Slope stabilisation.

## Applications

- Embankments & cuttings.
- Marine and Coastal.
- Quarry faces.
- Tunnels.
- Mines.

## Key Features

### • High-tensile strength

Exceptional resistance to deformation and failure under heavy loads, ensuring lasting stability.

### • Lightweight

Easy installation and cutting of panels, saving time and effort on-site.

### • Simplified plate design

Cost-effective and designed for seamless compatibility with all DYWIDAG bars.

### • Superior durability

Class A ZnAl coatings and optional stainless steel, ensure long-term performance, even in extreme conditions.

### • Cost-effective

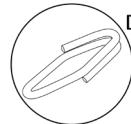
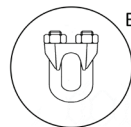
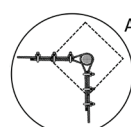
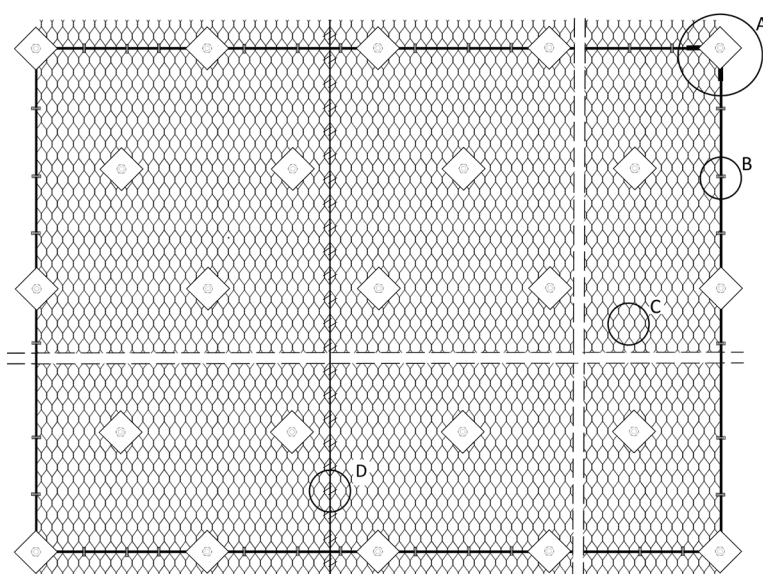
Competitive pricing combined with straightforward installation and extended durability.

# A complete mesh system

DYWIDAG's mesh system includes all necessary components for a smooth and efficient installation.

Depending upon the application requirements, supporting products include border ropes in 12mm or 16mm diameter, rope grips and connection clips to ensure a secure and reliable assembly. These components work together seamlessly, simplifying installation while enhancing the system's overall stability and performance.

DYWIDAG's range of rock bolts and soil nails, including all relevant plates, nuts and accessories, are available to provide a full stability package.



12mm or 16mm diameter border ropes/DYWIDAG plates & bolts/nails.

Turnbuckle grip connectors.

Mesh.

Panel clips.

# DYWIDAG Mesh product range

## High Tensile Hexagonal (HTH)

Standard Class A coating 95%Zn / 5%Al to EN 102442-2

DYWI® HTH	Units	HTH 85 S	HTH 150 S	HTH 200 S
Anti-corrosion coating	g/m²	215	245	255
Mesh size	mm	65 x 120	65 x 120	65 x 120
Wire diameter	mm	2	2.7	3
Tensile strength of wire	N/mm²	1770	1770	1770
Tensile strength of mesh	kN/m	>85	>150	>200
Punching resistance	kN/m²	>100	>180	>240
Mesh elongation	%	<6	<6	<6

Standard Class A coating is used for projects in inland and rural areas:

- Long lasting protection up to 120 years.
- Ideal for low corrosion environments.

Advanced Class A coating 90%Zn / 10%Al to EN 102442-2

DYWI® HTH	Units	HTH 85 A	HTH 150 A	HTH 200 A
Anti-corrosion coating	g/m²	215	245	255
Mesh size	mm	65 x 120	65 x 120	65 x 120
Wire diameter	mm	2	2.7	3
Tensile strength of wire	N/mm²	1770	1770	1770
Tensile strength of mesh	kN/m	>85	>150	>200
Punching resistance	kN/m²	>100	>180	>240
Mesh elongation	%	<6	<6	<6

Advanced Class A coating gives greater corrosion resistance in areas of coastal and urban areas with low to medium pollution:

- Enhanced corrosion resistance.
- Lifespan of 60 to 120 years.
- Versatile application across various environments.

Duplex stainless steel wire 1.4462 to AISI318LN

DYWI® HTH DS	Units	HTH 85 DS	HTH 150 DS	HTH 200 DS
Stainless steel wire 1.4462		Duplex	Duplex	Duplex
Mesh size	mm	65 x 120	65 x 120	65 x 120
Wire diameter	mm	2	2.7	3
Tensile strength of wire	N/mm²	1650	1650	1650
Tensile strength of mesh	kN/m	>85	>150	>200
Punching resistance	kN/m²	>90	>180	>200
Mesh elongation	%	<6	<6	<6

DYWI DS Mesh is primarily used in coastal areas:

- High resistance to marine environment.
- Exceptional performance in high pollution areas.
- Unrivalled longevity – lasting over 120 years.



# HTH Mesh with erosion control mat

Designed to combat soil erosion and promote vegetation establishment for slope stabilisation projects.

This innovative product combines the strength of DYWIDAG HTH Mesh with the protective qualities of DYWIDAG's erosion control mat, providing immediate protection against surface erosion whilst creating an ideal structure for seed germination and vegetation growth.

Engineered with durability and offering a robust, sustainable approach to soil stabilisation and landscape restoration.

HTH Mesh with integrated 3-D polymer erosion control mat

		Standard coating class A 95%Zn / 5%Al to EN 102442-2		Advanced coating class A 90%Zn / 10%Al to EN 102442-2	
DYWI® HTH EC	Units	HTH 85 S EC	HTH 150 S EC	HTH 85 A EC	HTH 150 A EC
Anti-corrosion coating	g/m²	215	245	215	245
Mesh size	mm	65 x 120	65 x 120	65 x 120	65 x 120
Wire diameter	mm	2	2.7	2	2.7
Tensile strength of wire	N/mm²	1770	1770	1770	1770
Tensile strength of mesh	kN/m	>85	>150	>85	>150
Punching resistance	kN/m²	>100	>180	>100	>180
Mesh elongation	%	<6	<6	<6	<6



Uses

- Slope stabilisation.

Applications

- Embankments & cuttings.
- Riverbanks.
- Marine and Coastal.

Key Features

- **Strength and erosion control**  
Provides immediate, robust protection against surface erosion, ensuring the stability of vulnerable areas from the moment it's installed.
- **Vegetation enhancement**  
Actively promotes seed germination and accelerates plant growth, speeding up the natural restoration process and improving long-term sustainability.
- **Exceptional versatility**  
Suitable for a wide range of applications, including slopes, embankments, riverbanks, and more, adapting to various project needs with ease.
- **Superior durability**  
Class A ZnAl coatings and optional stainless steel, ensure long-term performance, even in extreme conditions.
- **Cost-effective**  
Minimises overall project expenses by reducing both initial installation costs and long-term maintenance requirements.

# LCH Mesh for passive applications

For applications where lower tensile strengths are required, DYWI® LCH mesh provides a cost-effective solution.

Designed for projects with passive load environments, such as applications where the mesh is draped over steep slopes to control rockfall and guide debris safely to the base, preventing potential safety hazards below.

Its hexagonal structure and double-twist design provide durability and resistance, ensuring long-lasting performance.

Made from galvanised steel, the mesh is corrosion-resistant and easy to install, making it a cost-effective solution for various projects.

**DYWI® LCH 55 S Standard Coating Class A 95%Zn /5%Al to EN 102442-2**

DYWI® LCH Mesh	Units	LCH 55 S
Anti-corrosion coating	g/m²	245
Mesh size	mm	65 x 120
Wire diameter	mm	2.7
Tensile strength of wire	N/mm²	380
Tensile strength of mesh	kN/m	55kN/ m
Punching resistance	kN/m²	70 kN
Mesh elongation	%	22



**Uses**

- Slope stabilisation.
- Rockfall protection.

**Applications**

- Embankments.
- Motorway and railway cutting stabilisation.
- Quarry face support.

**Key Features**

- **Rockfall protection**  
Effectively prevents debris from reaching vulnerable areas, safeguarding assets and people from potential damage or injury.
- **Flexibility**  
The mesh easily adapts to irregular surfaces and varied terrain, ensuring optimal coverage and protection.
- **Minimal visual impact**  
Designed to blend seamlessly into natural landscapes, maintaining the aesthetic integrity of the surroundings, while providing essential safety.
- **Cost-efficient**  
An economical solution for managing hazardous slopes, delivering reliable protection without compromising your budget.



# Product testing

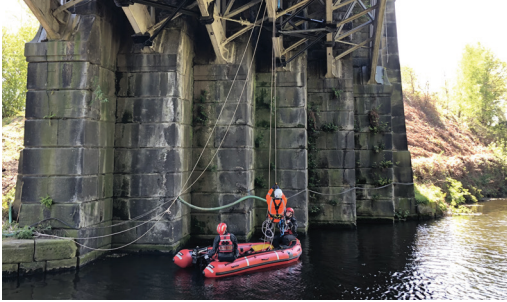
DYWIDAG HTH Mesh has been tested and thoroughly evaluated, achieving full approval from the European Organisation for Technical Assessment (EOTA).

This certification validates the product's adherence to the strictest standards for quality, safety, and performance in the industry.

By meeting these high benchmarks, DYWIDAG mesh provides customers with an added layer of confidence, ensuring they are selecting a proven, reliable, solution for stabilisation, reflecting superior design and durability, and reinforcing DYWIDAG's commitment to delivering products that consistently perform under the most demanding conditions.



# DYWIDAG products and services



## Structural health monitoring

Automated and manual monitoring including survey. Supply and installation of automated and manual monitoring and survey systems, this data can also be viewed on our infrastructure intelligence platform.



## Concrete technologies

Permanent formwork systems and slab edge forms, form ties, reinforcement technologies - stop ends and starter packs, concrete accessories, sealing and chemical solutions.



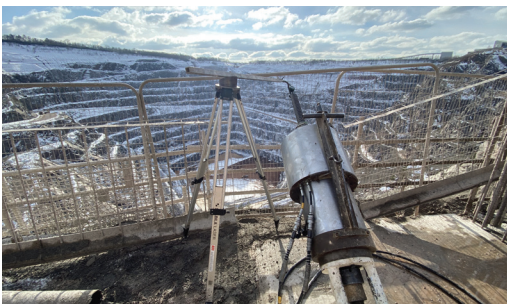
## Stay cables including monitoring and inspection

Design and installation of stay cable systems plus the monitoring and inspection using robotic inspection methods.



## Infrastructure Intelligence

Data acquisition platform, automated alarms and alerts, bespoke tailored system to suit your project.



## Repair and refurbishment

Testing and repair of existing ground anchors, refurbishment of post-tensioning systems to existing structures, rope access and wrapping of stay cables.



## Post-tensioning systems

Manufacture and installation of bonded and un-bonded post tensioning systems.



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