

## BLACK DIAMOND DRILLING GROUND SUPPORT MESH

Black Diamond Drilling manufactures a wide range of high load bearing capacity support mesh suitable for use in underground mining.

Black Diamond Drilling support mesh is a flexible reinforcement material installed on exposed rock surfaces in underground mines to prevent loose rock from falling and improve ground stability.

Support Mesh works in conjunction with other ground support components like rock bolts, split sets, and plates to form an integrated safety system that protects workers and equipment from rock fall.



### KEY ADVANTAGES

Galvanised support mesh plays a crucial role in underground mining ground support systems. They are used in conjunction with rock bolts to help stabilise the rock surface and prevent falls of ground. When galvanised, Black Diamond Drilling Support Mesh gains additional advantages, particularly in harsh underground environments.

- **Corrosion Resistance** - Galvanisation involves coating the plate with a layer of zinc, which protects the steel from corrosion. This is especially important in wet or chemically aggressive underground environments, such as areas with groundwater and high humidity.
- **Extended Service Life** - Galvanised mesh last longer than non-coated mesh, which is vital for long-term infrastructure areas like declines, portals, pump stations, and refuge chambers. Reduces the need for replacement, lowering downtime and material costs.
- **Improved Safety** – Galvanised support mesh maintains its strength and load-bearing capacity over time, ensuring ongoing rock stability and reducing the risk of rock falls or collapses.
- **Consistent Ground Support** - Galvanised mesh resists degradation, it continues to perform effectively throughout the life of the drive or stope. This keeps fractured rock in place longer and reduces the risk of rockfalls.
- **Durability During Handling and Installation** - The zinc coating provides a tough surface that resists scratching, chipping, and wear during transport and installation. Even if the coating is scratched, the zinc provides sacrificial protection to exposed steel.

## TECHNICAL DATA

DIMENSIONS	APERTURE SIZE	INDIVIDUAL SHEET WEIGHT	WIRE TENSILE STRENGTH	WELD BREAK FORCE
1200x1500x3.15mm	100x100mm	4.5Kg	500-650MPa	2.5kN
1200x1700x4.0mm	100x150mm	3.6Kg	500-650MPa	4.8kN
1200x1700x4.0mm	100x100mm	5.5Kg	500-650MPa	4.8kN
2400x3000x4.0mm	50x75mm	24.5Kg	500-650MPa	4.8kN
1700x4000x5.6mm	100x100mm	33.0Kg	500-650MPa	9.5kN
2400x3000x5.6mm	100x100mm	30.0Kg	500-650MPa	9.5kN
2400x4000x5.6mm	100x100mm	40.0Kg	500-650MPa	9.5kN
2400x4500x5.6mm	100x100mm	44.0Kg	500-650MPa	9.5kN
2400x6000x5.6mm	100x100mm	60.0Kg	500-650MPa	9.5kN
300x6000x8.0mm	100x100mm	17.0Kg	525MPa	9.5kN
1700x6000x8.0mm	100x100mm	43.0Kg	500-650MPa	9.5kN

**Black Diamond Drilling Galvanised Support Mesh** is an essential ground control solution in underground mining operations, offering enhanced safety, durability, and long-term performance. Coated with a protective layer of zinc, it provides superior resistance to corrosion in wet or chemically aggressive environments, making it ideal for challenging underground conditions. This corrosion resistance extends the mesh's lifespan, reducing maintenance costs and minimising downtime caused by mesh degradation. By securely retaining loose rock between rock bolts or split sets, galvanised mesh helps maintain consistent ground stability over time.

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