



Frequently Asked Questions

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Q. What are the different parts of a coal MINEMESH™ module?

A. The coal MINEMESH™ module consists of three key sections: the strap section, the central rock retention section and the bent sections along the outer edges of the mesh.

Q. What does the strap section do?

A. Over time the strap section has replaced the previously used “W” strap. The new strap section utilizing double wires and prescribed spacing is a less cumbersome and hence a more effective ground support option. The strap section is where the roof bolts pass through the mesh module. The extra support of the strap section reduces the opportunity for the plates used with the roof bolts to shear the wire and hence allows more torque to be applied. An increase in tensile and shear strength is achieved in the strap section by utilizing the double wire technology.

Q. What does the rock retention section do?

A. This is the main body of the module and is designed to capture and contain any small pieces of loose rock (scat) which can fall or be ejected from between the roof bolts. The action of restraining and maintaining support to the unraveling rock means that the mesh can contribute to the confining of the layers beyond the loose rock

Q. Why are mesh modules bent?

- A. Coal mine modules are bent at each edge in the reverse direction to each other in order to increase the rigidity of the module. This reduction in flex assists in making easier manual handling and installation of the modules.

Q. Why do the wire diameters vary?

- A. Wire diameter variations are linked to strata conditions in two ways:
1. A roof bolt that requires more torque and thrust could justify a heavier wire in the strap section
 2. As the weight comes on the roof, perhaps after the longwall has passed, the extra strength gained through a larger diameter wire prevents the plate shearing the wire.

Q. Why do the apertures vary?

- A. Traditionally the apertures in MINEMESH™ have been 100mm x 100mm in the rock retention section of the module. However, in more competent strata conditions a 150mm x 100mm aperture can be used to reduce the weight of the module and help make manual handling easier.

Q. What are the benefits of galvanizing?

- A. The major benefit of galvanizing is to increase the corrosion resistance of the wire. Corrosion of mesh can be an issue in underground mines. The wire is typically not thick and, therefore, once corrosion starts to attack the wire and welds, the load bearing capacity becomes unknown. This can lead to problems in older sections of the mine where the underground water/moisture has had time to attack the wire and welds leading to accelerated corrosion of the ground support system. Corrosion of the wire can be decreased by the use of coatings such as galvanizing.

Q. Does MINEMESH™ comply with relevant Australian Standards?

- A. There is no Australian Standard for MINEMESH™. However the MINEMESH™ supplied by OneSteel Reinforcing for use in mines is manufactured under strict guidelines that meet and exceed the requirements of both domestic and international mining markets.

For more information see **MINEMESH™ Certificate of Compliance**.

Q. What tagging and accountability/traceability procedures do you have in place?

- A. Each pack of mesh sent to a customer is tagged. The key information on this tag is the date, time, location of manufacture as well as the product code. With this information OneSteel Reinforcing, as part of its QA program, can review test results of the batch in question and identify the source of the wire. This information is vital in trouble shooting and process improvement.

Q. To whom should commercial questions be addressed?

- A. Please contact your local Branch or Account Manager (see list below) who will then refer your enquiry to the appropriate person within OneSteel Reinforcing.

| | | | Phone | Mobile |
|------------|-------------|-------------------|--------------|---------------|
| NSW | Wollongong | Jeff Farrugia | 02 4272 9889 | 0419 396 227 |
| | Newcastle | Ray Campbell | 02 4948 3702 | 0419 274 203 |
| | Orange | John McDonell | 02 6362 2299 | 0418 113 790 |
| QLD | Townsville | Wayne Gallagher | 07 4775 5100 | 0407 317 196 |
| | Mackay | Bob Baird | 07 4955 1922 | 0417 549 993 |
| | Rockhampton | Warren Garnon | 07 4927 9155 | 0419 643 084 |
| VIC | | Darren Piddington | 08 8349 8666 | 0419 643 431 |
| SA | Adelaide | Darren Piddington | 08 8349 8666 | 0419 643 431 |
| WA | Perth | Matt Richter | 08 6332 3135 | 0447 441 307 |

Q. Who do I ask logistic questions?

- A. You can use the contacts above and they will help you with your inquiry or direct you accordingly. For MINEMESH™ enquiries in NSW please contact Bernadette Duncan – 02 4272 9889 or email duncanb@onesteel.com

Q. Who do I ask technical questions?

- A. Technical questions can be directed to our National Technical Sales Manager - Mining Ian Barwell – 02 4948 3716 or 0418 230 370 or email barwelli@onesteel.com