

Product Specification Sheet

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Confidential

PRODUCT TYPE

Mining Mesh - Sheets

2.	<u>INLET SIZE</u>	SHEET DIMENSIONS	MPA'S	<u>APERTURE</u>	<u>COATING</u>	ELONGATION
	5.60mm	Width 2.4m Max	500 - 650 Mpa	100mm x 100mm	Lightly Galv	6 % Min
		Length - As Per Customer Requirements				

Tolerances / Specifications

INLET SIZE	5.55mm - 5.70mm	APERTURE	Min 99mm / Max 101mm	
SHEET WIDTH	(-5mm/+5mm) on the Width	COATING	Average 100g/m²	
SHEET LENGTH	(-5mm/+5mm) on the Length	WIRE ELONGATION	Min 6%	
WIRE MPA'S	Min 500 Mpa / Max 650 Mpa	FLUSH CUT	Must be flush all round	
FLATNESS	Sheets may not lift more than 50mm at any point	WELD SHEAR	Min 9.3kN	
SQUARENESS	SQUARENESS Max 10mm between the two measurements		10.08mm Max	

PRODUCTION CONTROL

- Each batch to be made using a identification number in the form of a job or contract number and is recorded on the pack labels,together with sequential pack numbers for identification purposes on the job.
- * Pack sizes to be 50 sheets per pack, each having a label securely attached so it doesn't come off when being handled or transported.
- Each pack to be tied using a minimum of 4 ties. Ties to be positioned to ensure pack stability. Ties not to be used for lifting up of packs. Wire must be used as ties and must be well tensioned.
- There shall be 100 sheets per stack. Each stack to be strapped with 4 straps and must be well tensioned, "mesh must not be damaged".
- Sheets to be reverse stacked for stability when being transported and for ease of use inside mine tunnels.
- Color coded hawk rings to be attached to every sheet for traceability purposes. "Each shift will use a different color"

QUALITY CONTROL

Online Checks: Frequency of checks "1 sheet in 25"

- * The sheet will be measured to ensure that the mesh is kept within all the dimensional tolerances as per specifications.
- a Non destructive test will be done with a 32mm Spanner on both sides of a cross wire to make sure the welds do not break.
- Where a weld/s are found to be deficient, the settings will be adjusted and re-tested untill all welds stick together. Weld penetration checks will be done by gauging with a micrometer, Welds must have Min 10% penetration, "10.08mm" Max when measured.
- Flush cuts will be checked to ensure there's no overhangs, sharp corners and burrs. All sheets must be flush all round.
- All actual findings to be recorded on the quality checklist and handed to the machine operator to check and adjust any settings if needed. Online Check: Frequency of check "1 sheet in 100"
- Random measurements will be made on the main and cross wires to determine if the block apertures are within the allowed tolerance.
- All actual findings to be recorded on the quality checklist and handed to the machine operator to check and adjust any settings if needed. Calibrated Weld Shear Test: Frequency of test "1 sheet in 500"
- a Sample of the mesh must be taken to quality control with all the quality checklists for the shear test to be done.
- The sheet will have every weld on a single cross wire destructively tested to determine the weld shear force. Where a weld is found to be deficient, the relevant settings will be adjusted and another test performed on the respective weld untill the minimum acceptable weld shear strength is achieved.

Labelling: "Every pack of 50 Sheets"

* Every pack will have a pre printed label securely attached and will include below mentioned information.

Manufacturer Name, Customer Name, Date Job number Order number

Pack number

Mesh description

Amount of sheets per bundle

RAW MATERIAL AND GALV PRODUCTION

Rod - 6.50 mm SAE 1008/1010/1012 Black Wire Sizes - 5.62 - 5.68mm

Speed on line - various

Temp @ annealing - 700 °C

Temp @ Galvanising - 450 °C

