



# SABAH WIREMESH & FENCING SDN BHD



## PRODUCT CATALOGUE



Licence No: PS105101



Sabah Wiremesh & Fencing is the premier solution provider for prefabricated reinforcing steel and wiremesh manufacturer. Our Company has been established since 1964. We are the pioneer in Sabah for mesh and reinforcement.

In 2010, we established the first prefabricated bar reinforcement facility in East Malaysia. We are able to produce cut and bend solution or complete caging to our customers' specification. This technology enables our customer to minimise their unproductive site fitting labour and allow factory to produce their reinforcement requirement more accurately and efficiently.

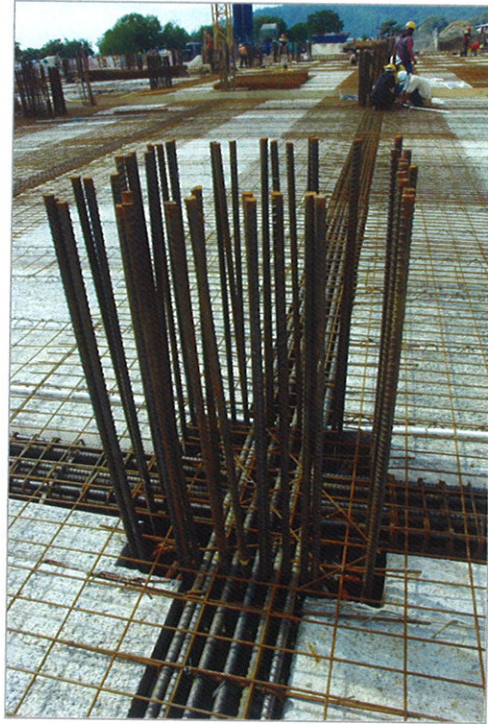
We bring increase productivity and efficiency to you by being your 1-Stop Reinforcement Solution Provider.



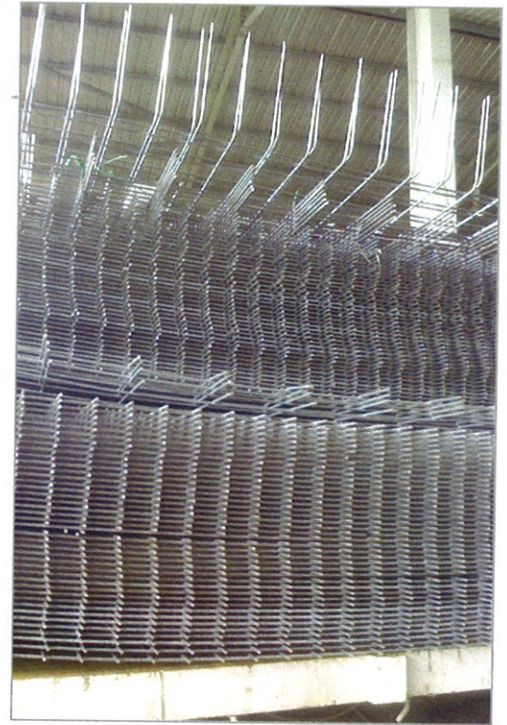
# WIREMESH



▲ Road Mesh



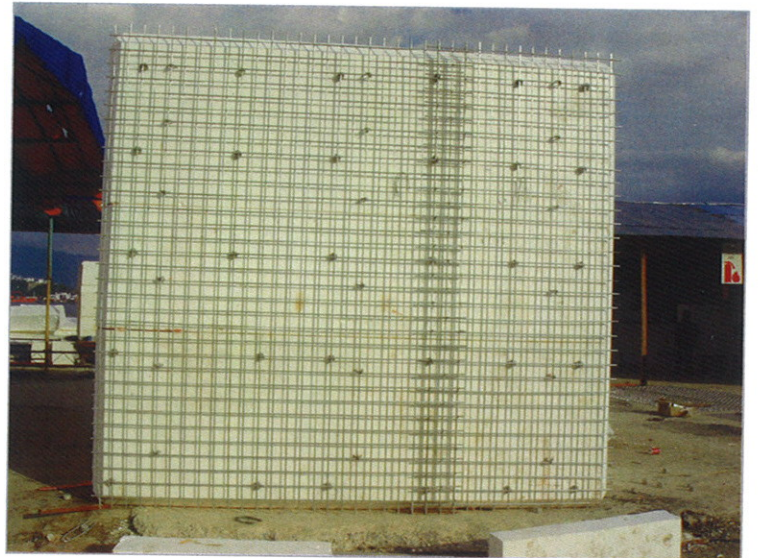
▲ Cut to size wiremesh



▲ Cut to size wiremesh

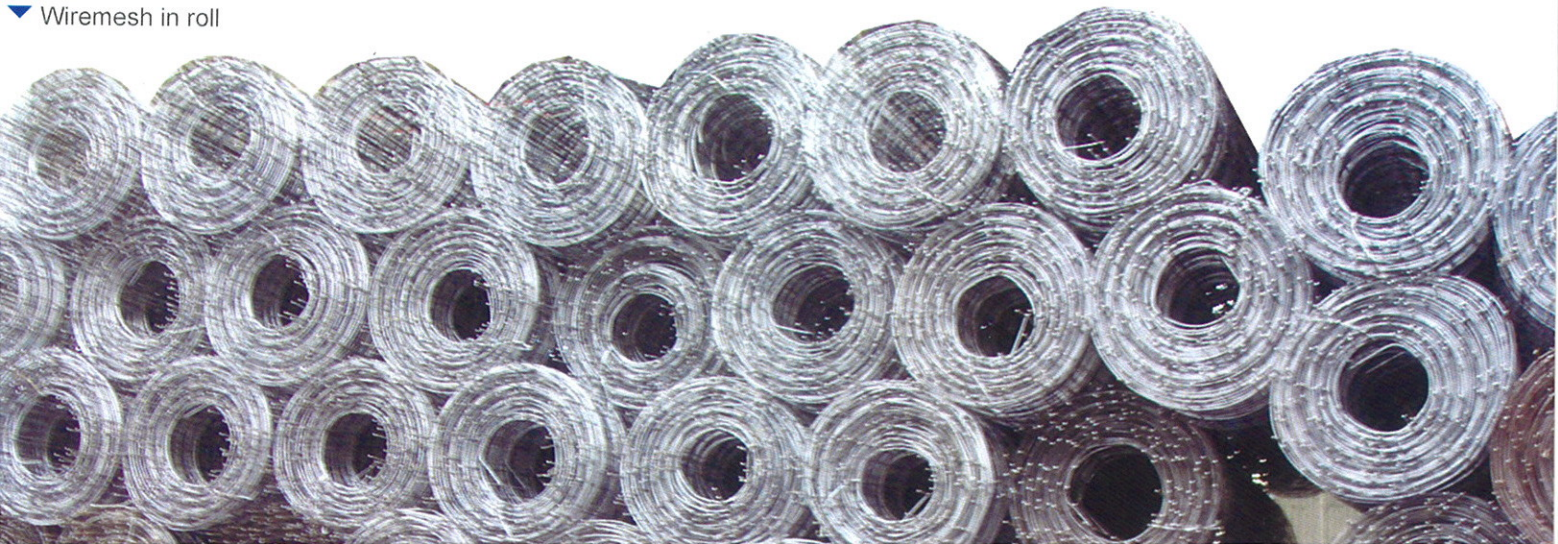


▲ Galvanised Mesh



▲ Galvanised Mesh

▼ Wiremesh in roll







## Steel Reinforcement Mesh

SABAH WIREMESH	BS4483 /SS:32 Standard REF. NO.	SPACING (mm)	WIRE SIZE (mm)	Nominal MASS OF 5M x 2M
REF. NO.	NO.	MAIN x CROSS	MAIN x CROSS	(KG)
SFA12	A12	200 x 200	12 x 12	88.80
SFA10	A393	200 x 20	10 x 10	61.60
SFA9	A9	200 x 200	9 x 9	49.90
SFA8	A252	200 x 200	8 x 8	39.50
SFA7	A193	200 x 200	7 x 7	30.20
SFA6	A142	200 x 200	6 x 6	22.20
SFA5	A98	200 x 200	5 x 5	15.40
SFA4Ro	A4	200 x 200	4 x 4	9.90
SFB12	B1131	100 x 200	12 x 8	108.60
SFB10	B784	100 x 200	10 x 8	81.40
SFB9	B9	100 x 200	9 x 8	69.70
SFB8	B503	100 x 200	8 x 8	59.30
SFB7	B385	100 x 200	7 x 7	45.30
SFB6	B283	100 x 200	6 x 7	37.30
SFB5	B196	100 x 200	5 x 7	30.50
SFC12	C12	100 x 400	12 x 8	98.70
SFC10	C785	100 x 400	10 x 6	67.20
SFC9	C636	100 x 400	9 x 6	55.50
SFC8	C503	100 x 400	8 x 5	43.40
SFC7	C385	100 x 400	7 x 5	34.10
SFC6	C283	100 x 400	6 x 5	26.10
SFC5	C5	100 x 400	5 x 5	19.30
SFDA12	DA12	100 x 100	12 x 12	177.60
SFDA10	DA10	100 x 100	10 x 10	123.20
SFDA9	DA9	100 x 100	9 x 9	99.80
SFDA8	DA8	100 x 100	8 x 8	79.00
SFDA7	DA7	100 x 100	7 x 7	60.40
SFDA6	DA6	100 x 100	6 x 6	44.40
SFDA5	DA5	100 x 100	5 x 5	30.80
SFDA4Ro	DA4	100 x 100	4 x 4	19.70
SFE12	E12	150 x 150	12 x 12	118.40
SFE10	E10	150 x 150	10 x 10	82.30
SFE9	E9	150 x 150	9 x 9	66.70
SFE8	E8	150 x 150	8 x 8	52.70
SFE7	E7	150 x 150	7 x 7	40.30
SFDDA12	DDA12	50 x 50	12 x 12	355.20

## Specifications for Engineered Mesh

MAIN WIRE Diameter (mm)	MAIN WIRE Spacing (mm)	CROSS WIRE Diameter (mm)	CROSS WIRE Spacing (mm)	REMARKS
7	100, 150, 200	7	50 to 100 Steplessly variable	Wires used can be plain or deformed
8		8		
9		8, 9		
10	75 to 300 steplessly variable	7, 8, 9, 10, 12, 16	50 to 100 Steplessly variable	Wires used can be plain or deformed
12		8, 9, 10, 11, 12		
13		10, 11, 12, 13		
2 x 10		7, 8, 10		





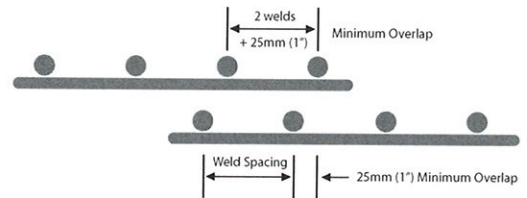


## Laps

SWF Mesh bonds to concrete by positive mechanical anchorage at each intersection. According to SS32 the minimum weld shear stress requirement for plain mesh is 250 MPa. Based on this requirement, a lap splice with two welded intersection overlapping is sufficient to translate the full yield strength for mesh.

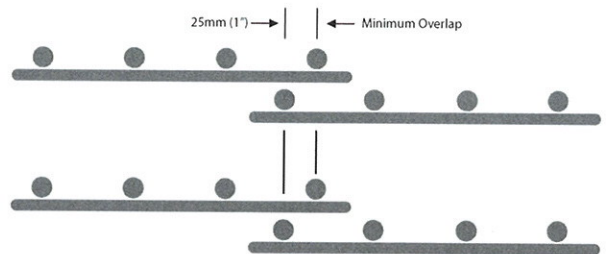
### Full Yield Strength Lap

- Transfer the full yield strength of the reinforcement.
- Excessive thickness due to laps can be avoided by staggering the sheet arrangement.



### Half Yield Strength Lap

- Transfer half the yield strength of the reinforcement.
- Commonly used for side laps across beams.



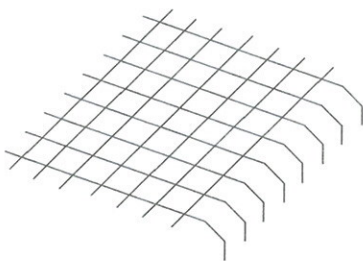
### Flying End Lap

- In-place lapping where one sheet is provided with flying end without welded intersection.
- The lap length is determined as for rebars (plain or deformed wires based on bond stress)

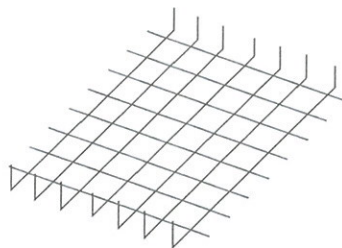


## Bends

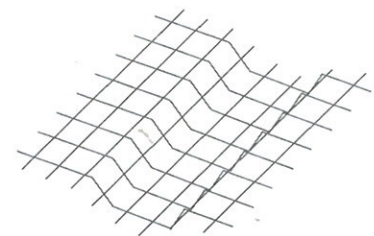
SWF Mesh has adequate ductility to allow bending into the required shape.



▲ 'J' Mesh



▲ 'U' Mesh



▲ Double Crank Mesh





# HARD DRAWN WIRE (Comply with MS144:2001)

## Specifications

GRADE	NOMINAL SIZE (mm)	TYPE	CROSS-SECTIONAL AREA (mm <sup>2</sup> )	MASS/METRE RUN (kg)
SWD500	4 - 5	Round	12.6 - 19.6	0.099 - 0.154
	5 - 10	Ribbed	19.6 - 78.5	0.154 - 0.616
	5.3	Ribbed	22.1	0.173
	5.5	Ribbed Ribbed	23.8	0.186
	5.7	Ribbed	25.5	0.200
	6.0	Ribbed	28.3	0.222
	6.3	Ribbed Ribbed	31.2	0.244
	6.5	Ribbed	33.2	0.260
	6.7	Ribbed	35.3	0.277
	7.0	Ribbed Ribbed	38.5	0.302
	7.3	Ribbed	41.9	0.328
	7.5	Ribbed	44.2	0.347
	7.7	Ribbed Ribbed	46.6	0.365
	8.0	Ribbed	50.3	0.394
	8.3	Ribbed	54.1	0.424
	8.5	Ribbed Ribbed	56.7	0.445
	8.7	Ribbed	59.4	0.466
	9.0		63.6	0.499
	9.3		67.9	0.533
	9.5		70.9	0.556
9.7		73.9	0.580	
10.0		78.5	0.616	

• Cross-sectional area and mass are subjected to the tolerance of  $\pm 3\%$ .

## Mechanical Properties

GRADE	NOMINAL SIZE (mm)	MIN. CHARACTERISTIC STRENGTH (N/mm <sup>2</sup> )	MIN. TENSILE STRENGTH (N/mm <sup>2</sup> )	MIN. ELONGATION (%)
SWD500	4 - 5	500	525	10