

KCSS WIREMESH SDN BHD A Solutions for a safer world.

GUARANTEED HIGH LEVEL OF SECURITY



KCSS WIREMESH SDN. BHD. (formerly known as KWAN CHOON SENG & SONS SDN. BHD.) was established since 1990 and it was first located at Silibin Industrial Area, Malaysia. With more than 20 years hands- on experiences, we are now one of the most renowned, reliable and trusted company in offering superior quality wire products and also all kind of Premium Security Fences. The wire products that we supplied are ranging from Industries such like construction building materials for High Rises and Housings, Precast Concrete Industry, Boundary Security System, Animals & Poultry Farms Cages, Industrial Meshes, and etc.

Furthermore, KCSS is one of the pioneers in Malaysia that manufacture welded security fences varies from Roll Top Profiled Security Fence to Top Grade Premium 358 Prison Mesh and has been penetrated into the Domestic and International market. Besides that, KCSS is not only offering standard wire products from our catalogue but provide full ranges of OEM wire products for our reliable partners as well.

Despite the rising of global competitiveness, KCSS is ready to face all the challenges through investing advanced manufacturing facilities that provides high efficiency (lower cost) & flexibility (flexible sizes & quantity).

In the mean time, our R&D team will keep on improve and develop new wire products for our customers, and our management will also continue to invest into the latest industry technologies in order to sustain the market demands and outperform from competitors.





# **OUR VALUES**

#### **STRONG**



Over 20 years of hands-on experiences & technical know-how, we are proud to say that KCSS is standing strong in technology in this industry. KCSS promise that we will not stop improving our skills & technology in order to make sure we are standing ahead in the Wire Industry.

# **SECURED**

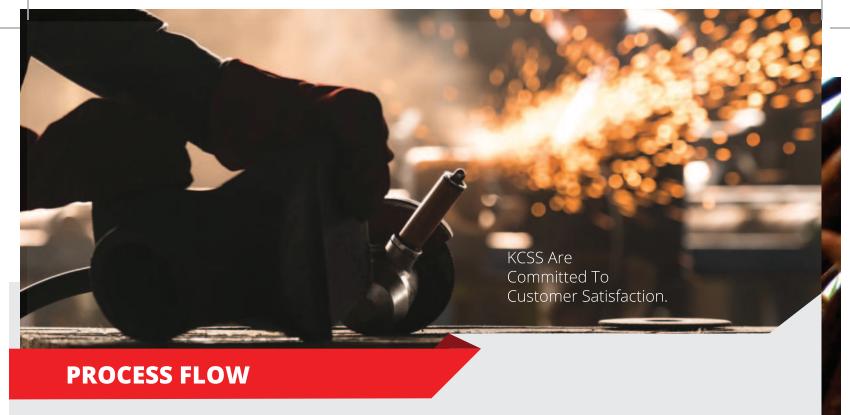


KCSS believes that customers are one of the most important assets of in the organization that we cannot miss out. We always keep the promise to our customer in order to secure a deal and sustain a long term relationship with customers & partners.

#### **BUILT TO LAST**



KCSS is committed to build long lasting wire & mesh products. We always set higher standards of quality assurance from customer's specifications. We make sure all the products from KCSS gone through the designate quality control process flow to prevent defects & make sure the finished product is above the standards. Customer Satisfaction on quality is our priority!











# **CERTIFICATE**

#### **Our Certificates:**





















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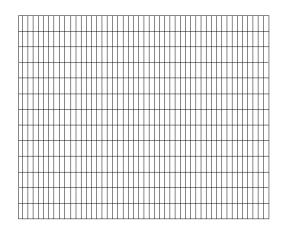


Diameter	4.00mm – 8.00mm
Pitch	50mm x 150mm, 50mm x 200mm, 75mm x 200mm, 75mm x 300mm, 75mm x 450mm
Material	Mild Steel Bright Hard Drawn Wire, Heavy Galvanized Wire, Galfan Wire
Coating	Hot Dipped Galvanized (After Welding Process) which comply to BS EN 1461:2009 Or Powder Coating (Variety choices of colors)
Tensile Strength	550 – 770 N/mm²
Weld Shear Strength	50-75% of parent material
Height	900mm – 3000mm
Width	2200mm – 3000mm
Profile	Roll Top Profiled or additional V-Press Profiled
Accessories	SHS Post or RHS Post, U-Clip, Bolt & Nuts, Flat Bar



# **KCS FENCING A SERIES**

KCSF A SERIES	Height (mm)	Length (mm)	Wire Diameter (mm)	Spacing (mm)
KCSF 3A	900			
KCSF 4A	1200			Vertical 50
KCSF 5A	1500	2400	5	
KCSF 6A	1800			
KCSF 7A	2100			Horizontal 150
KCSF 8A	2400			

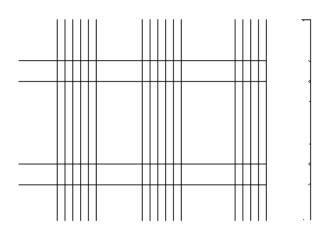




# SECURITY LEVEL

# KCS FENCING B SERIES

KCSF B SERIES	Height (mm)	Length (mm)	Wire Diameter (mm)	Spacing (mm)
KCSF 3B	900			
KCSF 4B	1200			Vertical 75
KCSF 5B	1500	2400	5	
KCSF 6B	1800			11
KCSF 7B	2100			Horizontal 200
KCSF 8B	2400			

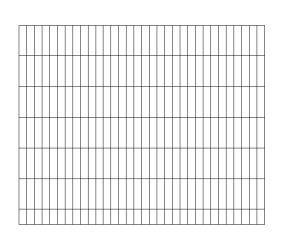




# SECURITY LEVEL

#### **KCS FENCING C SERIES**

KCSF C SERIES	Height (mm)	Length (mm)	Wire Diameter (mm)	Spacing (mm)
KCSF 3C	900			
KCSF 4C	1200			Vertical 75
KCSF 5C	1500	2400	5 or 6	
KCSF 6C	1800			11. 2 1
KCSF 7C	2100			Horizontal 300
KCSF 8C	2400			









Diameter	3.50mm – 4.00mm
Pitch	75mm (V) x 12.5mm (H) or 25mm (V) x 75mm (H)
Material	Mild Steel Bright Hard Drawn Wire, Heavy Galvanized Wire, Galfan Wire
Coating	Hot Dipped Galvanized (After Welding Process) which comply to BS EN 1461:2009 Or Powder Coating (Variety choices of colors)
Tensile Strength	550 – 770 N/mm <sup>2</sup>
Weld Shear Strength	50-75% of parent material
Height	900mm – 6000mm
Width	2200mm – 3000mm
Profile	Flat Panel, Double Wire, Roll Top Profiled, V-Press Profiled

#### **Standards Publication**

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BS EN 10218-2:2012

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BS EN 10223-7: 2012

#### Benefits a.k.a. Anti-Climb & Anti Cut Fencing

Increased delay factor

Excellent visibility

✓ Vandal resistant

✓ Versatile

Ourable

Protects against cut-through & climb over

**Anti-Cut**: Robust wire and weld joints that make cutting very difficult by using conventional bolt or wire cutters.

**Anti-Climb**: No toe or finger holds due to small mesh apertures.

#### **Applications**



#### **Public Safety**

Prison, Military Bases, Financial Building, Government Sector



#### Industrial

Power Plant, Oil Refineries Plant, Telecommunication Sub Stations, Financial Complex, Factories



#### **Transportation**

Public Transportation Stations & Boundary, Airport

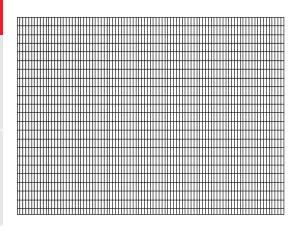


#### Residential

Home Security Boundary, Condominium

#### **SAC FENCING D SERIES**

SACF D SERIES	Height (mm)	Length (mm)	Wire Diameter (mm)	Spacing (mm)	
SACF 3D	900				
SACF 4D	1200				Vertical 25
SACF 5D	1500				
SACF 6D	1800	2400	4		
SACF 7D	2100			Horizontal	
SACF 8D	2400			75	
SACF 9D	2700				

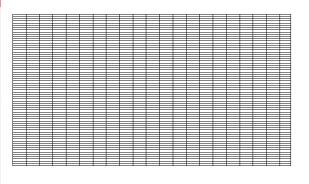




#### SECURITY LEVEL

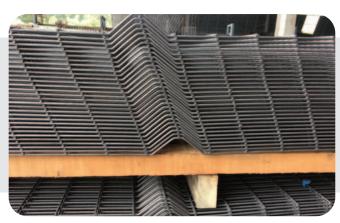
#### **SAC FENCING E SERIES**

SACF E SERIES	Height (mm)	Length (mm)	Wire Diameter (mm)	Spacing (mm)	
SACF 3E	900				
SACF 4E	1200				Vertical 75
SACF 5E	1500				
SACF 6E	1800	2400	4		
SACF 7E	2100			Horizontal	
SACF 8E	2400			12.5	
SACF 9E	2700				





#### SECURITY LEVEL









A		
App	IICati	ons
P P		

**Transportation** 

Public Transportation Stations & Boundary



Residential

Gardening, Condominium, Home Security Boundary



Entertainment

Leisure and Recreational Parks & Places

#### **Standards Publication**

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BS EN 10218-2:2012

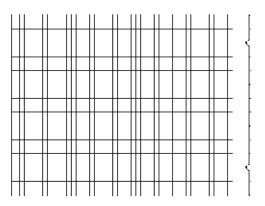
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BS EN 10223-7: 2012

Diameter	4.00mm – 6.00mm
Pitch	50mm x 150mm, 50mm x 200mm, 75mm x 200mm, 75mm x 300mm, 75mm x 450mm
Material	Mild Steel Bright Hard Drawn Wire, Heavy Galvanized Wire, Galfan Wire
Coating	Hot Dipped Galvanized (After Welding Process) which comply to BS EN 1461:2009 Or Powder Coating (Variety choices of colors)
Tensile Strength	550 – 770 N/mm <sup>2</sup>
Weld Shear Strength	50-75% of parent material
Height	900mm – 3000mm
Width	2200mm – 3000mm
Profile	V-Press Profiled
Accessories	SHS Post or RHS Post, U-Clip, Bolt & Nuts, Flat Bar etc

# KCS FENCING VA SERIES

KCSF VA SE	RIES	Height (mm)	Length (mm)	Wire Diameter (mm)	Spacing (mm)
KCSF 4VA	2V - PRESS	1200			Vertical
KCSF 5VA	2V - PRE33	1500			50
KCSF 6VA		1800	2400	5	
KCSF 7VA	3V - PRESS	2100			Horizontal 150
KCSF 8VA		2400			

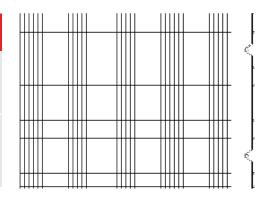




#### SECURITY LEVEL

# KCS FENCING VF SERIES

KCSF VF SEI	RIES	Height (mm)	Length (mm)	Wire Diameter (mm)	Spacing (mm)
KCSF 4VF	2V - PRESS	1200			Vertical
KCSF 5VF	2V - PRESS	1500			50
KCSF 6VF		1800	2400	5	
KCSF 7VF	3V - PRESS	2100			Horizontal 200
KCSF 8VF		2400			





# SECURITY LEVEL

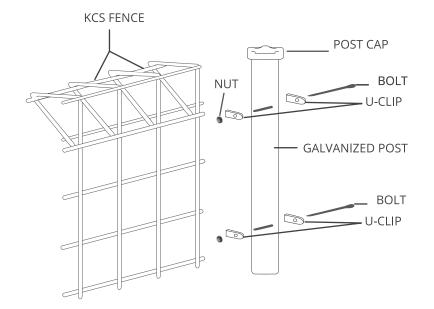
<sup>\*</sup> Other height & width are available upon request







# **FENCING ACCESSORIES**



#### **Installation Method:**

Option 1
Embedded
(To Ground/ Concrete)

Option 2
Wall Plug: MS Plate
(With 2 or 4 Holes)

#### **RHS POST**

Post Length (mm)	Panel Size	Accessories		
rost Length (mm)	(mm)	Bolt & Nut	U-Clip	
1200	900	3	6	
1600	1200	4	8	
2000	1500	5	10	
2400	1800	6	12	
2800	2100	6	12	
3000	2400	7	14	
3300	2700	8	16	
3600	3000	9	18	

<sup>\*</sup> Customized : Y-shape post available

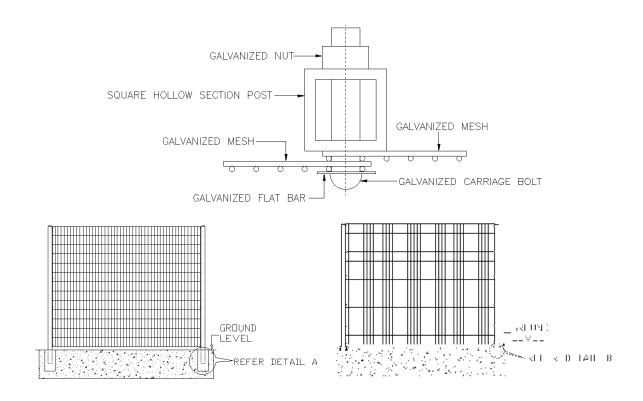
#### **SHS POST**

Post Length (mm)	Panel Size	Accessories		
rost Length (mm)	(mm)	Bolt & Nut	Flat Bar	
1200	900	3		
1600	1200	4		
2000	1500	5		
2400	1800	6	1	
2800	2100	6	'	
3000	2400	7		
3300	2700	8		
3600	3000	9		

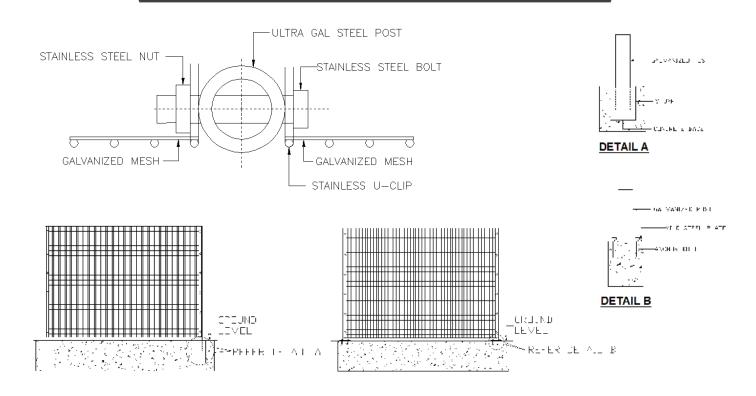
<sup>\*</sup> Customized : Y-shape post available

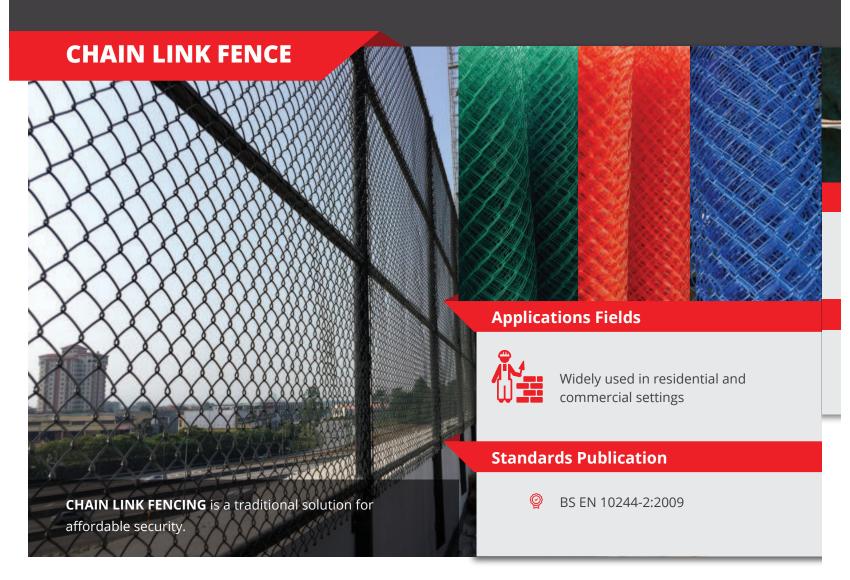
# **INSTALLATION METHOD**

#### **SQUARE HOLLOW SECTION INSTALLATION METHOD**



#### **ROUND HOLLOW SECTION INSTALLATION METHOD**





PVC COATED CHAIN LINK FENCING						
Wire Gauge	SWG Diameter (mm)	Malaysia Market Diameter (mm)	Standard Height (ft)	Standard Width (ft)		
PVC Wire 8#	4.06	3.90 (2.30)	3ft -12ft	50 ft		
PVC Wire 9#	3.66	3.40 (2.00)	3ft -12ft	50 ft		
PVC Wire 10#	3.25	2.90 (1.70)	3ft -12ft	50 ft		
PVC Wire 12#	2.64	2.50 (1.60)	3ft -12ft	50 ft		

<sup>\*</sup>Customize Heights & Widths are available. It can be made by Galvanized & Heavy Galvanized wire with PVC Coated

AVAILABLE PITCHES FOR CHAIN LINK FENCE						
Standard Pitch (mm)	73mm	67mm	63mm	57mm	50mm	38mm
Standard Pitch (inch)	2 %"	2 %"	2 ½"	2 1⁄4"	2"	1 ½"

# GALVANIZED CHAIN LINK FENCING

Galvanize Wire Detail	Standard Height (ft)	Standard Width (ft)
<b>GI wire 8#</b> (4.06mm)	3ft -12ft	50 ft
<b>GI wire 9#</b> (3.66mm)	3ft -12ft	50 ft
<b>GI wire 10#</b> (3.25mm)	3ft -12ft	50 ft
<b>GI Wire 12#</b> (2.64mm)	3ft -12ft	50 ft
<b>GI Wire 13#</b> (2.34mm)	3ft -12ft	50 ft
<b>GI Wire 14#</b> (2.00mm)	3ft -12ft	50 ft

<sup>\*</sup>Customize Heights & Widths are available. It can be made by Heavy Galvanized Wire & Galfan Wire



#### **Applications Fields**



Field fence, chain link fence and welded wire fence that provide general security.

#### **Standards Publication**



BS EN 10244-2:2009

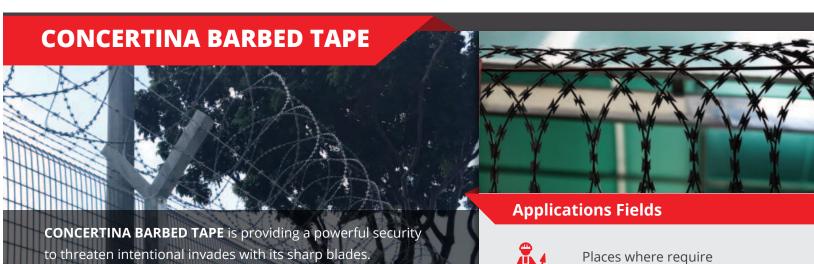
**BARBED WIRE** is generally being used for protection and border determining for fields and residential buildings.

**BARBED WIRE** 

#### **Specifications**

Outside Diameter (OD)	Packing (Kg)	Estimated Length (m)	Estimated Length (ft)
+/- 2.60 mm	5-10 kg	~ 54 – 109 meters	+/- 178 – 357 feet
+/- 2.30 mm	5-10 kg	~ 40 – 80 meters	+/- 131 – 263 feet
+/- 2.00 mm	5-10 kg	~ 53 – 107 meters	+/- 175 – 350 feet
	(OD) +/- 2.60 mm +/- 2.30 mm	(OD) Packing (Kg) +/- 2.60 mm 5-10 kg +/- 2.30 mm 5-10 kg	(OD) Packing (kg) (m)  +/- 2.60 mm 5-10 kg ~ 54 – 109 meters  +/- 2.30 mm 5-10 kg ~ 40 – 80 meters

<sup>\*</sup>Customized Barbed Wire Roll can be made based on customer's requirement (Cut-to-Size available)



#### **Specifications**

Concertina Barbed Tape (OD)	Meter Run/coil (m)	Feet Run/coil (ft)
450mm	8 – 10	26 – 33
700mm	8 – 10	26 - 33
980mm	10 – 12	33 – 39
Straighten	+/- 100	+/- 328

\*Concertina Barbed Tape Materials can be made by Heavy Galvanized & Stainless Steel etc.

high-level security like

prison, military base and etc.



Specificat	tions						
	Malaysia		MAIN WIRES			CROSS WIRES	
Ref. No.	Standard Ref. No.	Size (mm)	Spacing (mm)	Steel Area (mm²/m)	Size (mm)	Spacing (mm)	Steel Area (mm²/m)
SQUARE	MESH (200mm x 2	00mm)					
RA 13	A 664	13	200	664	13	200	664
RA 12	A 565	12	200	565	12	200	565
RA 11	A 475	11	200	475	11	200	475
RA 10	A 393	10	200	393	10	200	393
RA 9	A 318	9	200	318	9	200	318
RA 8	A 252	8	200	252	8	200	252
RA 7	A 193	7	200	193	7	200	193
RA 6	A 142	6	200	142	6	200	142
RA 5	A 98	5	200	98	5	200	98
RA 4	A 63	4	200	63	4	200	63
RECTANO	GULAR MESH (100r	mm x 200mm)	)				
RB 13	B 1328	13	100	1328	8	200	252
RB 12	B 1131	12	100	1131	8	200	252
RB 11	B 950	11	100	950	8	200	252
RB 10	B 785	10	100	785	8	200	252
RB 9	B 636	9	100	636	8	200	252
RB 8	B 503	8	100	503	8	200	252
RB 7	B 385	7	100	385	7	200	193
RB 6	B 283	6	100	283	7	200	193
RB 5	B 196	5	100	196	7	200	193

<sup>\*</sup> Customized BRC Roll can be made based on customer's requirement (Cut-to-Size available)



# **Applications Fields**



Concrete reinforcement, floor casting, residential slabs, pre-cast structure, soil conditioning

#### **Standards Publication**

**MS** 145: 2014

Malaysia			MAIN WIRES		CROSS WIRES		
Ref. No.	Standard Ref. No.	Size (mm)	Spacing (mm)	Steel Area (mm²/m)	Size (mm)	Spacing (mm)	Steel Area (mm²/m)
LONG RE	CTANGULAR MESI	H (100mm x 4	00mm)				
RC 13	C 1382	13	100	1382	8	400	126
RC 12	C 1131	12	100	1131	8	400	126
RC 11	C 950	11	100	950	8	400	126
RC 10	C 785	10	100	785	6	400	71
RC 9	C 636	9	100	636	6	400	71
RC 8	C 503	8	100	503	5	400	49
RC 7	C 385	7	100	385	5	400	49
RC 6	C 283	6	100	283	5	400	49
RC 5	C 196	5	100	196	5	400	4
SMALL SO	QUARE MESH (100	mm x 100mm	)				
RDA 13	DA 1328	13	100	1328	13	100	1328
RDA 12	DA 1131	12	100	1131	12	100	1131
RDA 11	DA 950	11	100	950	11	100	950
RDA 10	DA 785	10	100	785	10	100	785
RDA 9	DA 636	9	100	636	9	100	636
RDA 8	DA 503	8	100	503	8	100	503
RDA 7	DA 385	7	100	385	7	100	385
RDA 6	DA 283	6	100	283	6	100	283
RDA 5	DA 196	5	100	196	5	100	196
RDA 4	DA 126	4	100	126	4	100	126

<sup>\*</sup> Customized BRC Roll can be made based on customer's requirement (Cut-to-Size available)



Diameter	1.60mm – 12.00mm
Mesh Aperture	50mm x 50mm, 75mm x 75mm, 100mm x 100mm, 50mm x 150mm, 100mm x 200mm, 200mm x 200mm etc
Material	Mild Steel Bright Hard Drawn Wire, Ribbed Wire, Galvanized Wire, Heavy Galvanized Wire, Galfan Wire etc
Tensile Strength	600- 770 N/mm2
Weld Shear Strength	50-75% of parent material
Fabrics Size	1000mm – 3000mm Width, 1000mm – 6000mm Length
Form	Sheet Form
Additional Works	Flush All Sides or Overhangs, Open holes, Bendings



#### **Applications Fields**



Mining, construction, animal caging, agricultural, industrial, transportation, decoration, furniture, gardening, machine protection use and etc

#### **Standards Publication**

BS EN 10218-2:1997

BS EN 10223-7: 2012



opecinications .			
Diameter			

1.60mm – 12.00mm

Mesh Aperture

50mm x 50mm, 75mm x 75mm, 100mm x 100mm, 50mm x 150mm, 100mm x 200mm, 200mm x 200mm etc

Material

Mild Steel Bright Hard Drawn Wire, Ribbed Wire, Galvanized Wire, Heavy Galvanized Wire, Galfan Wire etc

Tensile Strength

600-770 N/mm2

Weld Shear Strength

50-75% of parent material

Fabrics Size

1000mm – 3000mm Width, 10m – 100m Length

Form

Roll Form

Additional Works

Flush All Sides or Overhangs, Open holes,

Bendings



#### **Applications Fields**

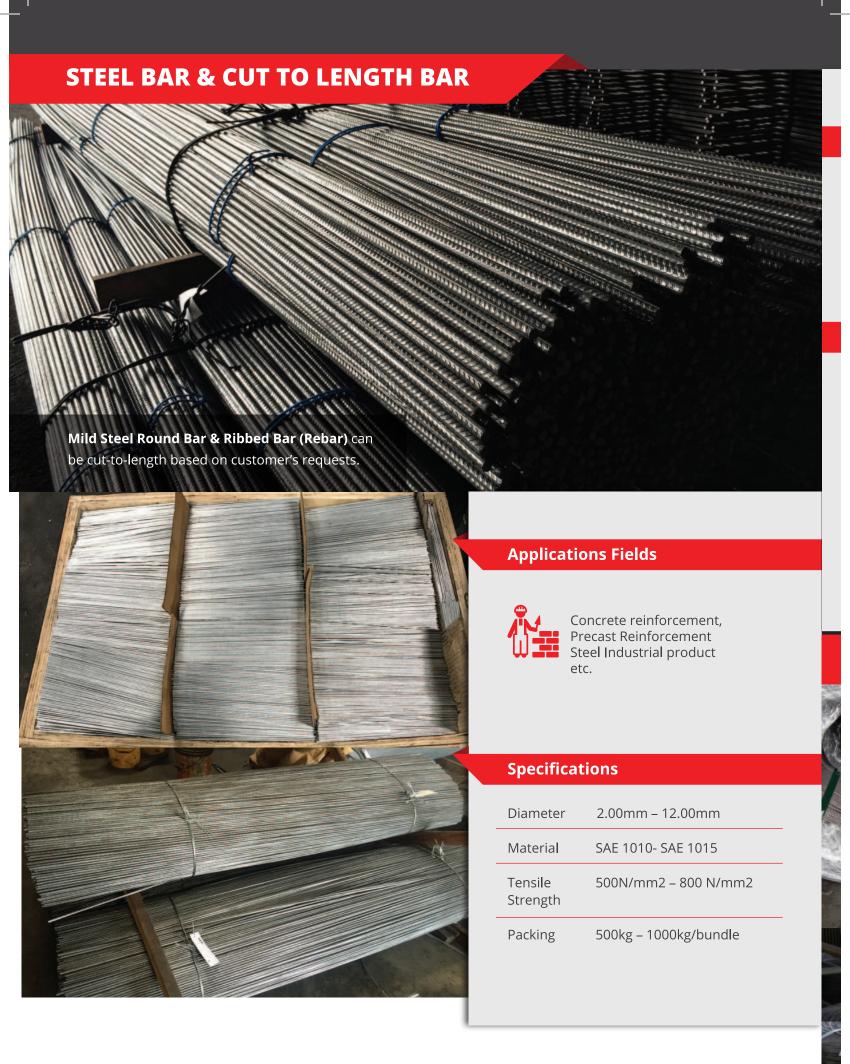


Mining, construction, animal caging, agricultural, industrial, transportation, decoration, furniture, gardening, machine protection use etc

#### **Standards Publication**

BS EN 10218-2:1997

S EN 10223-7: 2012



# **BRIGHT STEEL HARD DRAWN WIRE**

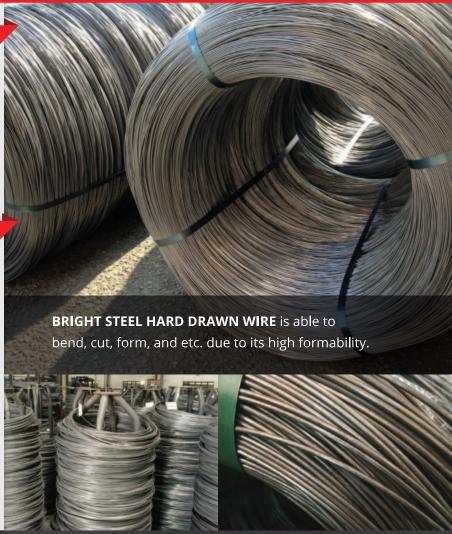
#### **Applications Fields**



Welded Wire Mesh, Construction, Precast, Piling, Nails, Fastener, Shopping carts, baskets, shelving, automobile parts, racks, hooks and etc

#### **Specification**

Diameter	1.60mm – 12.00mm
Material	SAE 1006- SAE 1015
Tensile Strength	500N/mm2 – 1270 N/mm2
Packing	50kg – 2000kg
Tolerance	Comply to BS EN 10218-2:1997, MS 144: 2014



# RIBBED WIRE is an effective construction material with the advantages of high capability, strength, holding and enveloping strength.

#### **Applications Fields**



Concrete reinforcement Wire, Precast Reinforcement Steel etc

#### **Applications Fields**

Diameter	4.00mm – 12.00mm
Material	SAE 1010 - SAE 1015
Tensile Strength	500N/mm2 – 800N/mm2
Packing	50kg – 2000kg
Tolerance	Comply to BS EN 10218-2:1997, MS 146: 2014

HD WIRE & RIBBED WIRE 20



#### **Applications Fields**



Generally used in fabricating Chain Link Fencing, Woven Gabions, Agricultural Wires and many more

#### **Standards Publication**

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JIS G 3543:2005

#### **Specifications**

Diameter ranges of production capabilities:

Wire Gauge	SWG Diameter (mm)	Malaysia Market Diameter (mm)
6#	4.88	4.60 (2.30)
8#	4.06	3.90 (2.30)
9#	3.66	3.40 (2.00)
10#	3.25	2.90 (1.70)
12#	2.64	2.50 (1.60)





Our Galvanized Wire material is comply to BS EN 10244-2: 2009

Nominal Diameter	Minimum mass of coating (g/m2)		
(mm)	Standard Galvanized	Heavy Galvanized	
1.40 to 1.64	30	195	
1.65 to 1.84	30	205	
1.85 to 2.14	40	215	
2.15 to 2.49	45	230	
2.50 to 2.79	45	245	
2.80 to 3.19	50	255	
3.20 to 3.79	60	265	
3.80 to 4.39	60	275	
4.40 to 5.19	70	280	
5.20 to 8.19	80	290	

Tensile Strength	N/mm2
Soft Tensile	380 - 550
Medium Tensile	550 – 900
High Tensile	900 – 1500

#### **Applications Fields**



Generally used in fabricating Chain Link Fencing, Gabions, Agricultural Wires and many more

#### **Standards Publication**

BS EN 10244-2:2009

BS EN 10218-2:1997





PVC Coated & Galvanized Hexagonal Gabion Specifications with diameter ranging from 2.00mm to 4.00mm

Product Description	Size L x W x H	Pitch (mm)
GIG 111	1m x 1m x 1m	80 x 100
GIG 211	2m x 1m x 1m	80 x 100
GIG 311	3m x 1m x 1m	80 x 100
PVCG 111	1m x 1m x 1m	80 x 100
PVCG 211	2m x 1m x 1m	80 x 100
PVCG 311	3m x 1m x 1m	80 x 100

#### **Applications Fields**



Stabilization of earth movement and erosion, slopes, river control, landscaping, reservoirs, canal refurbishment and retaining walls.

#### **Standards Publication**



ASTM A975



Diameter	3.00mm – 6.00mm
Mesh Aperture	50mm x 50mm, 75mm x 75mm, 100mm x 100mm, 50mm x 150mm
Material	Heavy Galvanized Wire, Galfan Wire
Tensile Strength	600- 770 N/mm2
Weld Shear Strength	75% of parent material
Gabion Box size	1000mm x 1000mm x 1000mm (Cut to Size up to 3000mm Length can be made upon request)
Accessories	Spiral Wire, stiffener (Joining Pin), C Rings, Lacing (Optional) Wire, etc

#### **Standards Publication**

BS EN 10223-8 : 2013



# **PROJECT REFERENCES**

#### Bandar Seri Botani

**Product Range:** 

HDG KCS Fencing A Series, Pre-Gal RHS Post

**Work Scope:** Supply & Install





#### **KLK Bandar Seri Coalfields**

#### **Product Range:**

Black Coated SAC Fencing E Series, Black Coated SHS Post

**Work Scope:** Supply & Install







#### **Football Club Meru**

#### Product Range:

PVC Chain Link Fencing 10# (Green) 2" pitch x 20' Height, Powder coated RHS Post

**Work Scope:** Supply only





# **PROJECT REFERENCES**

# Pusat Pemulihan Akhlak (Wanita), Batu Gajah, Perak

**Product Range:** 

HDG SAC Fencing E Series, HDG RHS Y-Post, Concertina Barbed Tape

**Work Scope:** Supply & Install







#### **TNB Sub Station**

**Product Range:** 

HDG SAC Fencing E Series, HDG SHS Post

Work Scope: Supply & Install





<sup>\*</sup> HDG = Hot-dipped Galvanized Pre-Gal = Pre-Galvanized



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Website

Locate Us