



CHUN HOE CORPORATE

Group of Companies
Singapore | Malaysia | Indonesia
Building-Materials Industry

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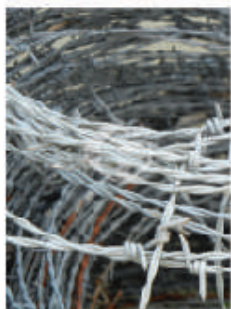
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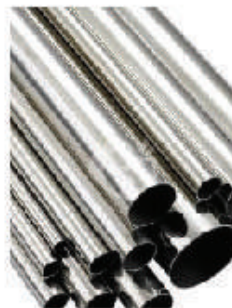


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ANTI-CLIMB SECURITY FENCE

Anti-Climb Security Fence Specification

Wire Diameter	4mm	
Vertical Wire Spacing	12.5mm	75mm
Horizontal Wire Spacing	75mm	25mm
Length	2400mm	
Product Reference	Height	
AC1200	1200mm	
AC1500	1500mm	
AC1800	1800mm	
AC2100	2100mm	
AC2400	2400mm	
AC2700	2700mm	
AC3000	3000mm	



MATERIAL: HOT-DIPPED GALVANIZED WIRE



HOLLOW SECTION

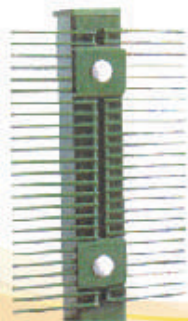
The panels are attached to tubular high strength steel posts 1-1/2" x 2-3/8" or 1-1/2" x 3", the panels can be attached to the face of the posts or in between posts by use of the included high strength attachment brackets.

FEATURES

- Prevents Climbing
- Prevents Cutting
- Prevents Destruction

APPLICATION

- Walkway Security Fencing
- Airport Security Fencing
- Sub-Station Security Fencing
- Prison Security Fencing
- Factory Machine Guards
- Bridge Anti-Climb Guarding & Guard Safety Screening



MALAYSIA

- Malayan Chun Hoe Perakasa Sdn Bhd
- ☎ +6016-8888 254
- ✉ lkew@brcfence.my
- 🌐 <http://www.brcfence.my>



SINGAPORE

- Chun Hoe Pte Ltd
- ☎ +65-6816 8888 (13L lines)
- ☎ +65-6816 8888
- ✉ admin@chunhoe.sg
- 🌐 <http://www.chunhoe.sg>



INDONESIA

- PT.Chun Hoe Indonesia
- ☎ +65 9796 8888
- ✉ admin@chunhoe.co.id
- 🌐 <http://www.chunhoe.co.id>



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BRC FENCE

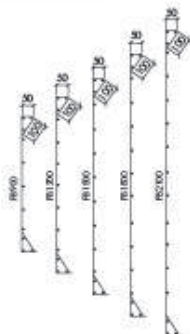
FA SERIES

Wire diameter	5mm
Vertical wire spacing	150mm
Horizontal wire spacing	50mm
Length	2400mm
PRODUCT REFERENCE	HEIGHT
FA900	900mm
FA1200	1200mm
FA1500	1500mm
FA1800	1800mm
FA2100	2100mm
FA2400	2400mm



FB SERIES

Wire diameter	4mm
Vertical wire spacing	75mm
Horizontal wire spacing	25mm
Length	2400mm
PRODUCT REFERENCE	HEIGHT
FB900	900mm
FB1200	1200mm
FB1500	1500mm
FB1800	1800mm
FB2100	2100mm
FB2400	24000mm



MALAYSIA

Malayan Chun Hoe Perkasas Sdn Bhd
 +6016-8888 254
 lew@brcfence.my
 http://www.brcfence.my



SINGAPORE

Chun Hoe Pte Ltd
 +65-6816 8888 (13 lines)
 +65-6816 8888
 admin@chunhoe.sg
 http://www.chunhoe.sg



INDONESIA

PT.Chun Hoe Indonesia
 +65 9796 8888
 admin@chunhoe.co.id
 http://www.chunhoe.co.id

3D FENCING (V-PRESS FENCING)



3D Fencing Specification

Wire diameter	4mm
Vertical wire spacing	75mm
Horizontal wire spacing	25mm
Height	3000mm
Length	2400mm

- MATERIAL : Hot-dipped Galvanized Wire
- Different dimensions are available at customer's request



MALAYSIA

Malayan Chun Hoe Perkas 80n Bhd
+6016-8888 254
liaw@brcfence.my
http://www.brcfence.my



SINGAPORE

Chun Hoe Pte Ltd
+65-6816 8888 (13 Lines)
+65-6816 6888
admin@chunhoe.sg
http://www.chunhoe.sg



INDONESIA

PT.Chun Hoe Indonesia
+65 9706 8888
admin@chunhoe.co.id
http://www.chunhoe.co.id



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CHAIN LINK FENCE

PVC COATED CHAIN LINK FENCE & GALVANIZED WIRE CHAIN LINK FENCE

- PVC Coated
- Hot-dipped galvanized wire
- Application : Used as a barrier for lawn, failways, expressways.
- Different dimensions are available at customer's request

Mesh (mm)	Diameter (mm)	Length (m)	Height (mm)
50 x 50	3 - 4	15	1200
			1500
			1800
			2100
			3000

Wrap Edge



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- Malayan Chun Hoe Perkasia Sdn Bhd
- +6016-8888 254
- lew@brcfence.my
- <http://www.brcfence.my>



SINGAPORE

- Chun Hoe Pte Ltd
- +65-6816 8888 (13Lines)
- +65-6816 8888
- admin@chunhoe.sg
- <http://www.chunhoe.sg>




INDONESIA

- PT.Chun Hoe Indonesia
- +65 9796 8888
- admin@chunhoe.co.id
- <http://www.chunhoe.co.id>

WELDED STEEL WIRE MESH (BRC)

- MATERIAL : LOW CARBON STEEL WIRE
- APPLICATION : Mainly for building construction industry, raft foundation, reinforced concrete walls, floor slabs / staircases, topping reinforcement, infrastructure and precast concrete components.
- CHARACTERISTICS : Welded solid, even surface, regular opening, it is a kind of reinforcing mesh products by welded, in which the horizontal and longitudinal steel bars are arranged by same distance and in right angle all the cross points are welded together by high resistance force.



 MALAYSIA

Malayan Chun Hoe Perikasa Sdn Bhd
 +6016-8888 254
 few@brcfence.my
 http://www.brcfence.my

 SINGAPORE

Chun Hoe Pte Ltd
 +65-6816 8888 (13Lines)
 +65-6816 8888
 admin@chunhoe.sg
 http://www.chunhoe.sg

 INDONESIA

PT.Chun Hoe Indonesia
 +65 5796 8888
 admin@chunhoe.co.id
 http://www.chunhoe.co.id

**峻和****CHUN HOE CORPORATE****WELDED STEEL WIRE MESH (BRC)**

PRODUCT REFERENCE	Diameter (mm)	Mesh Spacing (mm x mm)	Panel Size (m x m)
R4	4	200 x 200	2 x 3
R5	5		
R6	6		
R8	8		2.4 x 6
A6	6		
A7	7		
A8	8		
A10	10	100 x 200	2.4 x 6
B6	6		
B7	7		
B8	8		
B9	9		
B10	10		
B11	11	100 x 100	2.4 x 6
B12	12		
B13	13		
D6	6		
D7	7		
D8	8		
D9	9	150 x 150	2.4 x 6
D10	10		
D11	11		
D12	12		
D13	13		
E8	8		
E9	9	150 x 150	2.4 x 6
E10	10		
E11	11		
E12	12		
E13	13		

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 +6016-8888 254
 lew@brcfence.my
 http://www.brcfence.my

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Chun Hoe Pte Ltd
 +65-6816 8888 (13Lines)
 +65-6816 6888
 admin@chunhoe.sg
 http://www.chunhoe.sg

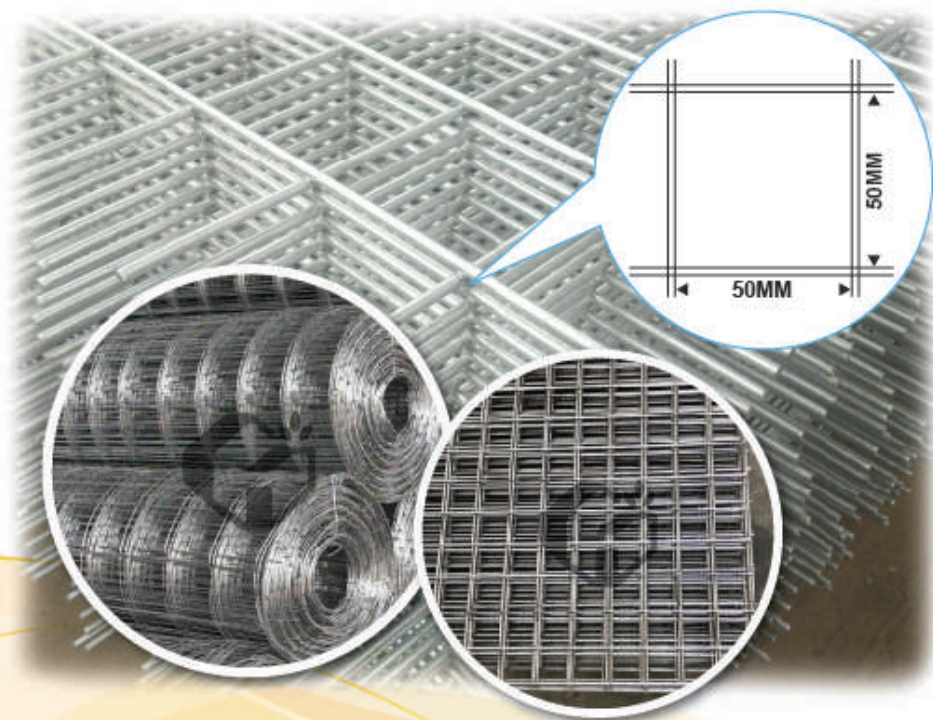
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 +65 9796 8888
 admin@chunhoe.co.id
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GALVANIZED WIRE MESH

- MATERIAL : Hot-Dipped Galvanized
- APPLICATION : Used in industry, agriculture, construction, transportation, mining, animal cage

Product Reference	Diameter (mm)	Mesh Spacing (mm x mm)	Size (m x m)	Type
2210	3	50 x 50	1.2 x 2.4	Flat panel
2208	4	50 x 50	2 x 3.6	Flat panel
	1.22	25 x 25	0.9 x 20	Roll
3315	1.22	75 x 75	1.8 x 20	Roll



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- Malayan Chun Hoe Peraka Sdn Bhd
- +6016-8888 254
- liew@brcfence.my
- <http://www.brcfence.my>



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- Chun Hoe Pte Ltd
- +65-6816 8888 (13Lines)
- +65-6816 8888
- admin@chunhoe.sg
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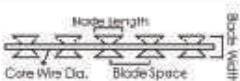
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- +65 9796 8888
- admin@chunhoe.co.id
- <http://www.chunhoe.co.id>

CONCERTINA RAZOR BARBED WIRE

- **MATERIALS** : Hot-dipped Galvanized / Stainless Steel

Concertina Razor barbed wire specification	Height / Diameter	Estimated Length
Small	500mm	7m
Medium	700mm	10m
Big	900mm	12m

Blade Specification	Blade Forms	Blade Thickness	Core Wire Dia.	Blade Length	Blade Width	Blade Space
BTO-22		0.5 ± 0.05	2.5 ± 0.1	22 ± 1	15 ± 1	34 ± 1



- **Crossed Razor Barbed Wire**

Two pieces of stainless steel razor wire or zinc-coated razor wire were bounded together by clips to make it more strength.

The spiral intersecting barbed wire presents an intersecting shape after opening with beautiful feature and practicality.

- **Single Coil Razor Barbed Wire**

Single coil barbed tape wire is installed without clips, it runs in natural loops on walls. Costless and can be easily installed.

- **Straight Razor Barbed Wire**

There are many ways for straight type razor wire installing. The straight type razor wire can be installed quickly. It can not only save expenditure but also reach the result of frightening and stopping.



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- Malayan Chun Hoe Perkasas Sdn Bhd
- +9016-8888 254
- few@brcfence.my
- http://www.brcfence.my



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- +65-6816 8888 (13 Lines)
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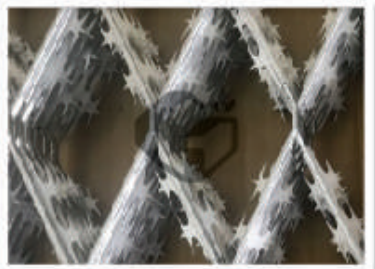
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- http://www.chunhoe.co.id

RAZOR BARBED MESH

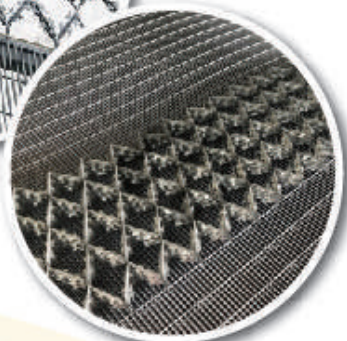
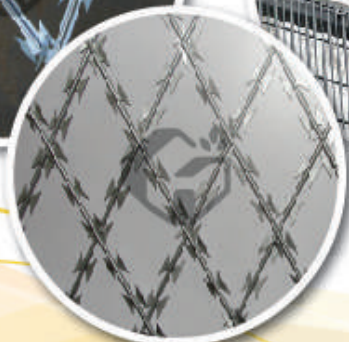
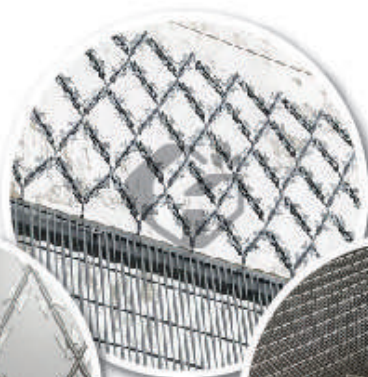
- **MATERIALS** : Hot-dipped Galvanized

Razor Barbed Mesh Specification

Diameter	3mm
Mesh Spacing	95mm x 200mm
Height	500mm
Length	2400mm



- **APPLICATION** : Use in area which require high security.
e.g. prison, military and police installments, power, gas and oil facilities.



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- Malayan Chun Hoe Perikasa Sdn Bhd
- +6016-8888 254
- iew@brcfence.my
- <http://www.brcfence.my>



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- Chun Hoe Pte Ltd
- +65-6816 8888 (13 Lines)
- +65-6816 8888
- admin@chunhoe.sg
- <http://www.chunhoe.sg>



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- +65 0796 8888
- admin@chunhoe.co.id
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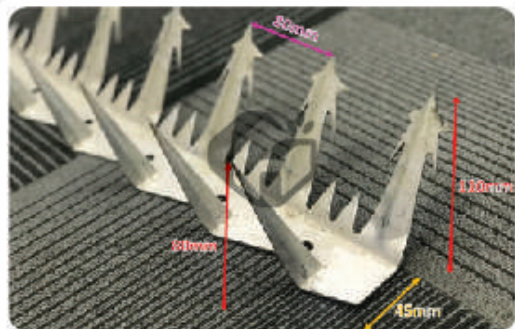


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WALL SPIKE

- MATERIALS : Hot-dipped Galvanized



Wall Spike Specification (Pattern A)

Length	1.25m
Base width	maximum 45mm
Spike Distance	80mm
Spike Height	110mm & 80mm



Wall Spike Specification (Pattern B)

Length	1.25m
Base width	40mm
Spike Distance	50mm



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- iew@brcfence.my
- <http://www.brcfence.my>



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- Chun Hoe Pte Ltd
- +65-6816 8888 (13Lines)
- +65-6816 8888
- admin@chunhoe.sg
- <http://www.chunhoe.sg>



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- PT.Chun Hoe Indonesia
- +65 0796 8888
- admin@chunhoe.co.id
- <http://www.chunhoe.co.id>

BARBED WIRE

- **MATERIAL** : Electric galvanized, Hot-dipped galvanized, Aluminium, PVC coated wire with the colors of blue, green, yellow and etc.
- **FEATURE** : Twist and weaving, firm and beautiful
- **APPLICATION** : Used as barrier for lawn railway, expressway and etc.

Barbed Wire Specification					
Type	Length	Wire Gauge (SWG)	Diameter	Barb Distance	Barb Length
Electric Galvanized Barbed Wire; Hot-dip Galvanized Barbed Wire	36m per coil	10# x 12#	2mm	7.5 - 15 cm	1.5 - 3 cm
Aluminium Barbed Wire	100m per coil				
PVC coated barbed wire	36m per coil				

Different colors or sizes are available at customer's request.



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- +6016-8888 254
- liew@brcfence.my
- <http://www.brcfence.my>



SINGAPORE

- Chun Hoe Pte Ltd
- +65-6816 8888 (13Lines)
- +65-6816 6888
- admin@chunhoe.sg
- <http://www.chunhoe.sg>



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- PT.Chun Hoe Indonesia
- +65 9796 8888
- admin@chunhoe.co.id
- <http://www.chunhoe.co.id>

WIRE

GALVANIZED WIRE



Galvanized Wire Specification

Diameter	2 - 3mm
Estimated length	20m/kg
Packing	50kg/coil
Zinc Coat	35-55kgf/mm ² , 350-550N/mm ²
Tensile Strength	10-20g/m ²
Packing	Plastic inside and hasian outside / weave outside

Electro galvanized wire, Hot-dipped galvanized wire

- **APPLICATION** : construction building, wire mesh, expressway fencing, chain link fence, handicrafts and other fields.

PVC COATED WIRE

PVC Coated Wire Specification

Color Coated	Green, blue, grey, and etc.
Size	Inside diameter 2mm; outside diameter 3mm
Packing	50kg/coil



- **APPLICATION** : The products are mainly used in animal breeding, forest protecting, garden fences and sportsfield.
- **CHARACTERISTICE** : Corrosion-resisting, age-resisting and long usage life.
- Different colors or sizes are available at customer's request.



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- Malayan Chun Hoe Perkasa Sdn Bhd
- +6016-8888 254
- llw@brcfence.my
- http://www.brcfence.my



SINGAPORE

- Chun Hoe Pte Ltd
- +65-6816 8888 (13Lines)
- +65-6816 8888
- admin@chunhoe.sg
- http://www.chunhoe.sg



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- PT.Chun Hoe Indonesia
- +65 9796 8888
- admin@chunhoe.co.id
- http://www.chunhoe.co.id

EROSION CONTROL BLANKET

Erosion Control Blanket Specification

Width	2m
Length	50m



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- Malayan Chun Hoe Perkasia Sdn Bhd
- +6016-8888 254
- iew@brofence.my
- <http://www.brofence.my>



SINGAPORE

- Chun Hoe Pte Ltd
- +65-6816 8888 (13 Lines)
- +65-6816 8888
- admin@chunhoe.sg
- <http://www.chunhoe.sg>



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- PT.Chun Hoe Indonesia
- +65 9796 8888
- admin@chunhoe.co.id
- <http://www.chunhoe.co.id>

GEOTEXTILE

TYPE	Size	Nominal Mass
Class A	2m x 100m	100g/m ²
	4m x 100m	100g/m ²
Class B	2m x 100m	150g/m ²
	4m x 100m	150g/m ²

Different specification are available at customer's request



MALAYSIA

Malayan Chun Hoe Perakasa 3dn Bhd
+6016-8888 254
iew@brcforce.my
http://www.brcforce.my



SINGAPORE

Chun Hoe Pte Ltd
+65-6816 8888 (13Lines)
+65-6816 8888
admin@chunhoe.sg
http://www.chunhoe.sg



INDONESIA

PT.Chun Hoe Indonesia
+65 9796 8888
admin@chunhoe.co.id
http://www.chunhoe.co.id

GABIONS & MATTRESSES

MATERIAL

Desired properties for various components for fabrication of wire mesh gabions are as below

WIRE

All tests on the wire mesh, lacing wire should be performed prior to manufacturing the mesh.

Tensile strength: Both the wire used for the manufacture of gabions and the lacing, shall have a tensile strength of 350-500 N/mm², in accordance with BS 1052: 1980 and EN 10223-3.

Elongation: Elongation shall not be less than 10%, in accordance with EN 10223-3. The length of the sample should be more than 25cm for conducting this test.

The material is ISO 9001 certified.

ZINC COATING

Minimum quantities of zinc meet the requirements of BS 443: 1982. The adhesion of the zinc coating to the wire shall be such that, when the wire is wrapped six turns around a mandrel having four times the diameter of the wire, it does not flake or crack when rubbing it with the bare fingers, in accordance with EN 10244. The mesh wire shall show no rusty spots on part of the surface excluding the cut ends. Minimum quantity of zinc (gm/sqm) based on the internal diameters of 2.2mm, 2.7mm & 3.4mm should be 240, 275 and 275 respectively.

Gabions & Mattresses Specification

Wire diameter	4mm PVC coated / 3mm GI wire
Mesh Spacing	80mm x 100mm
Length	2m
Height	1m
Width	1m



PVC COATING

The initial properties of PVC coating material shall have a demonstrated ability to conform to the following requirement. The Specific Gravity should be minimum 1.32, when tested in accordance with ASTM D792. Tensile strength should not less than 221N/mm², when tested in accordance with test method ASTM D412-92. Elongation at break should not be less than 200% in accordance with ASTM D412-92. The PVC coating shall not show cracks or breaks after the wires are twisted in the fabrication of the mesh.

Wherever, there is high changes of corrosion, alternate wetting and drying, high salinity, presence of shingles in water etc a further refinement in coating shall be used like Galmac (where Zinc + 5% / 10% Aluminum) coating to the main steel wire mesh. Further, if there is more severe condition, an additional coating of PVC coating shall be applied.

MESH CHARACTERISTICS

Mesh wire: Diameter - Inner diameter shall be 2.7mm for the Zinc coated wire and when measured with PVC coating the outer diameter shall be 3.7mm.

Selvedge wire: Diameter - Inner diameter shall be 3.4mm for the Zinc coated wire and when measured with PVC coating the outer diameter shall be 4.4mm.

Mesh opening: Nominal Dimension D = 80mm.

Lacing and stiffener wire: Diameter - inner diameter shall be 2.2mm for the Zinc coated wire and when measured with PVC coating the outer diameter shall be 3.2mm.

TOLERANCES

Gabions: 5% (±) on the length, width, and height in accordance with ASTM A975.



MALAYSIA

Malayan Chun Hoe Perkas 88n Bhd
+6016-8888 254
liew@brcfence.my
http://www.brcfence.my



SINGAPORE

Chun Hoe Pte Ltd
+65-6816 8888 (13 Lines)
+65-6816 6888
admin@chunhoe.sg
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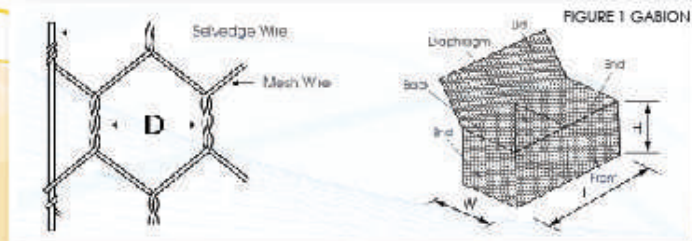
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PT.Chun Hoe Indonesia
+65 9796 8888
admin@chunhoe.co.id
http://www.chunhoe.co.id

TESTS FOR THE GABIONS

Different tests to be carried on the gabion material are tabulated along with references and standards in Table below:

Mesh Type	8cm x 10cm	References of Specifications
Mesh opening "D" mm	80 mm	ASTM A 975
Nominal Dimension	83mm x 114 mm	ASTM A 975
Unit Dimensions		
Mesh Wire Diameter (mm)	2.7 / 3.7 (Inner Dia / Outer Dia)	EN 10223
Tolerance (±) mm	0.08	BS 1052
Zn Coating Min (gsm)	260	BS 443: 1982
Selvedge / Edge wire Diameter (mm)	3.4 / 4.4 (Inner Dia / Outer Dia)	EN 10223
Tolerance (±) mm	0.10	BS 1052
Zn Coating (Selvedge / Edge Wire) Min (gsm)	275	BS 443: 1982
Lacing Wire Diameter (mm)	2.2 / 3.2 (Inner Dia / Outer Dia)	
Tolerance (±) mm	0.06	BS 1052
Zn Coating (Lacing Wire) Min (gsm)	240	BS 443: 1982
Fasteners (mm)	3.0 / 4.0 (Inner Dia / Outer Dia)	
Stiffens (mm)	2.2 / 3.2 (Inner Dia / Outer Dia)	
Zn Coating on fastener / stiffener (gsm)	240	ASTM A 641
PVC Coating		
Colour	Grey	
Thickness Nominal (mm)	0.50	ASTM A 975
Thickness Minimum (mm)	0.38	ASTM A 975
Specific Gravity	1.32	ASTM D 792
Tensile Strength	Not less than 21N/mm ²	ASTM D 412
Modulus of Elasticity	Not less than 19N/mm ²	ASTM D 412
Hardness	Between 50 and 60 Shore D	ASTM D 2240
Abrasion Resistance	Less than 220mm ²	DIN 53516
Salt Spray Exposure and Ultraviolet Light Exposure	<p>a) The PVC shall Show no effect after 1500 hours of salt spray exposure.</p> <p>b) The PVC shall show no effect of exposure to ultraviolet light with test exposure of 2000 hours.</p> <p>c) After the salt spray test and exposure to ultraviolet light, the PVC coating shall not show cracks or noticeable change of colour, or blisters or splits. In addition, the specific gravity and hardness shall not change more than 10% and 15% respectively from their initial values.</p>	ASTM B 117-90 & ASTM D G53-88



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law@brcfence.my
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SINGAPORE

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 +65-6816 8888 (13 Lines)
 +65-6816 8888
admin@chunhoe.sg
<http://www.chunhoe.sg>



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PT.Chun Hoe Indonesia
 +65 9796 8888
admin@chunhoe.co.id
<http://www.chunhoe.co.id>

TEMPORARY FENCE

Temporary Fence Specification

Material	Hot-dipped Galvanized	
Height	1.8m	
Length	2.1m	
Mesh Spacing	50mm x 50mm	75(w)/mm x 150(h)/mm



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- iew@brcfence.my
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INDONESIA

- PT.Chun Hoe Indonesia
- +65 9796 8888
- admin@chunhoe.co.id
- http://www.chunhoe.co.id

POST / PIPE

GI Pipe Specification

Material	Hot-dipped Galvanized
Length	6m
Diameter	48.6mm
Thickness	2.4mm

Different dimension are available at customer's request.



MALAYSIA

- Malayan Chun Hoe Perakasa 3dn Bhd
- +6016-8888 254
- iew@brcfence.my
- http://www.brcfence.my



SINGAPORE

- Chun Hoe Pte Ltd
- +65-6816 8888 (13Lines)
- +65-6816 8888
- admin@chunhoe.sg
- http://www.chunhoe.sg



INDONESIA

- PT.Chun Hoe Indonesia
- +65 9796 8888
- admin@chunhoe.co.id
- http://www.chunhoe.co.id



CHUN HOE

EXPANDED METAL SPECIFICATIONS

TYPE	Ref. No	Material	Nominal Size Of Mesh		Thickness* (± 10%) (mm)	Strand Width (± 10%) (mm)	Weight (± 10%) kg/m ²	Standard Sheet Size SWM x LWM (mm)
			SWM (mm)	LWM (mm)				
Light Mesh	LM 0515 (GI)	Steel	10	21	0.5	1.5	1.24	2440 x 1220
	LM 0715 (GI)	Steel	10	21	0.7	1.5	1.75	2440 x 1220
	LM 0915 (GI)	Steel	10	21	0.9	1.5	2.25	2440 x 1220
	LM 1015 (GI)	Steel	9	29	1.0	1.5	2.70	2440 x 1220
	LM 1515	Steel	9	29	1.5	1.5	4.03	2440 x 1220
	LM 2015	Steel	9	29	2.0	1.5	5.37	2440 x 1220
	LM 1520	Steel	16	38	1.5	2.0	3.0	2440 x 1220
	LM 1528	Steel	22	57	1.5	2.8	3.02	2440 x 1220
	LM 2028	Steel	22	57	2.0	2.8	4.03	2440 x 1220
LM 2030	Steel	35	76	2.0	3.0	3.02	2440 x 1220	
Security & Decorative Mesh	SM 3030	Steel	22	57	3.0	3.0	6.49	2440 x 1220
	SM 3035	Steel	22	57	3.0	3.5	7.3	2440 x 1220
	SM 30045	Steel	22	57	3.0	4.5	9.75	2440 x 1220
	SM 4545	Steel	22	57	4.5	4.5	15	2440 x 1220
	SM 30030	Steel	35	76	3.0	3.0	4.03	2440 x 1220
	SM 3045	Steel	35	76	3.0	4.5	6.05	2440 x 1220
	SM 45050	Steel	35	76	4.5	5.0	10.48	2440 x 1220
	SM 45060	Steel	35	76	4.5	6.0	12.43	2440 x 1220
	SM 6060	Steel	35	76	6.0	6.0	16.58	2440 x 1220
	SM 3545	Steel	42	115	3.0	4.5	5.37	2440 x 1220
	SM 3060	Steel	42	115	3.0	6.0	7.05	2440 x 1220
	SM 4560	Steel	42	115	4.5	6.0	10.41	2440 x 1220
	SM 3050	Steel	50	150	3.0	5.0	4.71	2440 x 1220
	SM 5050	Steel	75	150	5.0	5.0	5.3	2440 x 1220
	SM 3075	Steel	95	200	3.0	7.5	3.8	2440 x 1220
DM 3032	Steel	25	40/81	3.0	3.2	6.05	2440 x 1220	
Walkway Mesh	WM 50080	Steel	45	135	5.0	8.0	14.11	2440 x 1220
	WM 50110	Steel	45	135	5.0	11.0	19.48	2440 x 1220
	WM 30080	Steel	30	75	3.0	8.0	12.55	2440 x 1220
	WM 50075	Steel	30	75	5.0	7.5	23.5	2440 x 1220
	WM 50105	Steel	30	75	5.0	10.5	27.55	2440 x 1220
Louvre Mesh	LOM 1563	Alum	16	76	1.5	6.3	3.4	2440 x 1220
	LOM 2045	Alum	12	65	2	4.5	4.1	2440 x 1220
	LOM 2050	Alum	13.5	45	2	5.0	4.2	2440 x 1220

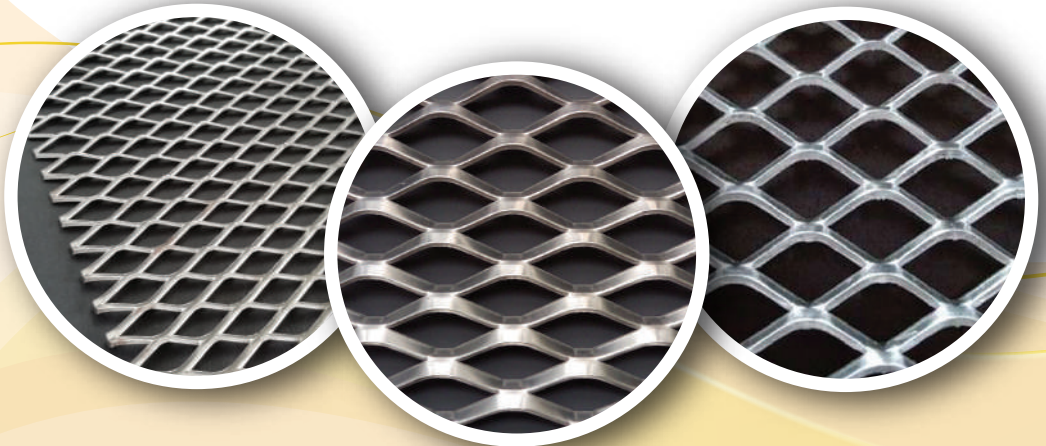
Expanded Metal to Japan Standard

TYPE	Ref. No	Material	Nominal Size Of Mesh		Thickness* (± 10%) (mm)	Strand Width (± 10%) (mm)	Weight (± 10%) kg/m ²	Standard Sheet Size SWM x LWM (mm)
			SWM (mm)	LWM (mm)				
	XG11	Steel	34	135.4	4.5	7.0	14.5	2440 x 1220
	XG12	Steel	34	135.4	6.0	7.0	19.4	2440 x 1220
	XG13	Steel	34	135.4	6.0	9.0	24.9	2440 x 1220
	XG14	Steel	34	135.4	8.0	9.0	33.2	2440 x 1220
	XG21	Steel	36	101.6	4.5	7.0	13.7	2440 x 1220
	XG22	Steel	36	101.6	6.0	7.0	18.3	2440 x 1220
	XG23	Steel	36	101.6	6.0	9.0	23.6	2440 x 1220
	XG24	Steel	36	101.6	8.0	9.0	31.4	2440 x 1220

* Thickness up to 9.0mm (to a maximum of 1525 LWM Direction)

General Conditions

1. Standard weight tolerance, subject to $\pm 10\%$.
2. Nominal sheet size-shortway direction, subject to $\pm 50\text{mm}$.
Nominal sheet size-longway direction, subject to $\pm 10\text{mm}$.
3. Also available in material such as Aluminium and Stainless Steel.
4. Special sheet sizes also available upon request.
5. Short way mesh and strand width may vary $\pm 10\%$ due to manufacturing constraints. Should you need exact opening, you must discuss with our sales staff prior to ordering.



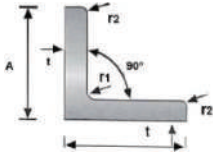
Angle Bars

Specification: EN 10025 S275 JR | ASTM A36 | JIS G 3101 SS400

Size Range

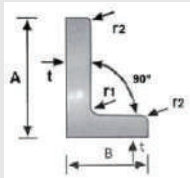
Smallest

Largest



20mm x 20mm
(AxA)

250mm x 250mm
(AxA)



63mm x 38mm
(AxB)

200mm x 150mm
(AxB)

Flat Bars

Specification: EN 10025 S275 JR | JIS G 3101 SS400 | ASTM A36

Size Range

Smallest

Largest



3mm x 12mm
(Thickness x Width)

36mm x 200mm
(Thickness x Width)

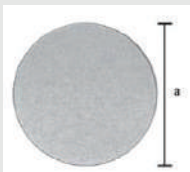
Round Bars

Specification: JIS G 3101 SS400 | ASTM A36 | EN 10025 S275 JR

Size Range

Smallest

Largest



6mm
(Diameter)

200mm
(Diameter)

Square Bars

Specification: EN 10025 S275 JR | JIS G 3101 SS400

Size Range

Smallest

Largest



9mm
(a)

100mm
(a)

Deformed Bars

Specification : BS4449-500B

Size Range

Smallest

Largest



6mm
(Diameter)

50mm
(Diameter)

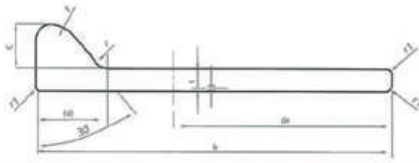
Buld Flats

Specification : ABS-A | ABS-AH36 | ABS-EH36

Size Range

Smallest

Largest



60mm x 4mm

320mm x 12mm

Shipbuilding Plates

Specification : ABS-A | ABS-AH36 | ABS-EH36 | ABS-EH36/AP12W

Thickness
Range

Panel Size
Range



6mm to 150mm
(t)

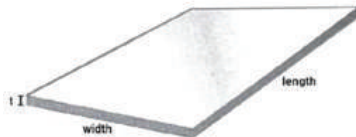
6'x30' to 8'x30'
(Width x Length)

Mild Steel Plates

Specification : EN 10025 S275 JR | EN 10025 S355 JR | ASTM A36 | JIS G 3101 SS400

Thickness
Range

Panel Size
Range



1.2mm to 150mm
(t)

4'x8' to 8'x20'
(Width x Length)

Chequered Plates

Specification : EN 10025 S275 JR | ASTM A36 | JIS G 3101 SS400

Thickness
Range

Panel Size
Range

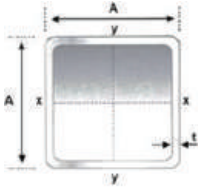


2.5mm to 12mm
(t)

4'x8' to 5'x20'
(Width x Length)

Cold Formed Hollow Section Square

Specification : EN 10025 S275 JR | ASTM A500 | EN 10219 S275 J0H, S275 J2H



Size Range

Smallest

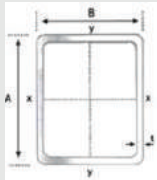
Largest

16mm x 16mm
(AxA)

300mm x 300mm
(AxA)

Cold Formed Hollow Section Rectangular

Specification : EN 10025 S275 JR | ASTM A500 | EN 10219 S275 J0H, S275 J2H



Size Range

Smallest

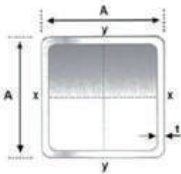
Largest

38mm x 19mm
(AxB)

300mm x 200mm
(AxB)

Hot Finished Hollow Section Square

Specification : EN 10210 S355 J2H



Size Range

Smallest

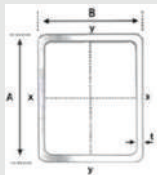
Largest

50mm to 50mm
(AxA)

350mm x 350mm
(AxA)

Hot Finished Hollow Section Rectangular

Specification : EN 10210 S355 J2H



Size Range

Smallest

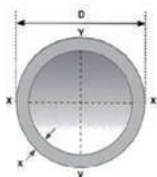
Largest

60mm to 40mm
(AxB)

350mm x 250mm
(AxB)

Hot Finished Hollow Section Circular

Specification : EN 10210 S355 J2H



Size Range

Smallest

Largest

88.9mm

355.6mm

Channels

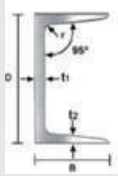
Specification : EN 10025 S275 JR | EN 10025 S355JR | JIS G 3101 S400 | ASTM A36

Size Range

Smallest

Largest

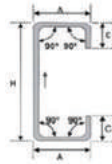
a. Tapered Flange



50mm x 25mm
(DxB)

380mm x 100mm
(DxB)

b. Lip Channels



75mm x 45mm
x 15mm
(HxAxC)

250mm x 75mm
x 25mm
(HxAxC)

Universal Beam and Column

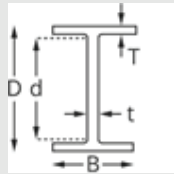
Specification : EN 10025 S275 JR | EN10025 S355JR | JIS G3101 | ASTM A36

Size Range

Smallest

Largest

a. Universal Beam



Inch
Series

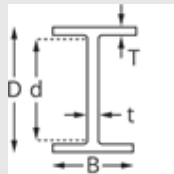
5"x3"
(DxB)

40"x12"
(DxB)

127mm x 76mm

1016mm x 305mm

b. Universal Column



Inch
Series

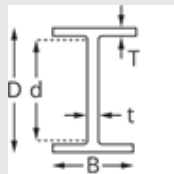
4"x4"
(DxB)

14"x16"
(DxB)

102mm x 102mm

356mm x 406 mm

c. Metric Beams

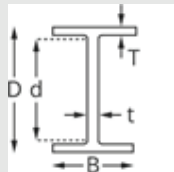


Metrics
Series

100mm x 50mm
(DxB)

900mm x 300mm
(DxB)

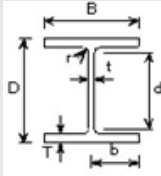
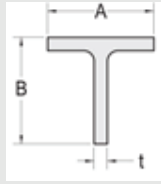
d. Metric Column



Metrics
Series

100mm x 100mm
(DxB)

400mm x 400mm
(DxB)



Metrics Series	50mm x 100mm (BxA)	450mm x 300mm (BxA)
Inch Series	102mm x 76mm (BxA)	457mm x 508mm (BxA)
Metrics Series	200mm x 200mm (DxB)	400mm x 400mm (DxB)
Inch Series	203mm x 203mm (DxB)	356mm x 368mm (DxB)

Welded Steel Pipes



Class Size Range

A	15mm to 100mm
B	15mm to 400mm
C	15mm to 150mm
AA	15mm to 150mm

API Seamless Pipes / API ERW Pipes

Specification : ASTM A53 / A106-AP15L

Size Range

Smallest Largest



6mm 600mm



MALAYSIA



Malayan Chun Hoe Perkasa Sdn Bhd

+6016-8888 254

liew@brcfence.my

<http://www.brcfence.my>



SINGAPORE



Chun Hoe Pte Ltd

+65-6816 8888 (13Lines)

+65-6816 6888

admin@chunhoe.sg

<http://www.chunhoe.sg>



INDONESIA



PT.Chun Hoe Indonesia

+65 9796 8888

admin@chunhoe.co.id

<http://www.chunhoe.co.id>