MTR ENGINEERING SDN. BHD.
(CO.NO:32999-W)
1st Floor, Block C, Lot 23A, Bundusan Commercial Centre,
Jalan Bundusan, 88300 Kota Kinabalu, Sabah.
E-mail:- mtrengineeringsdnbhd@gmail.com
Tel : 088-723935 Fax : 088-723934

Rujukan Kami: MTR/KPKT/JBPM/2022/229
Tarikh : 01st June 2022

**ALASIM OMAR ARCHITECT**
F-27-1, Royal Plaza Putatan KM11.2,
Jalan Putatan,
88200 Kota Kinabalu, Sabah.
Tel : 013-397 5752
Email : alasim.architect@gmail.com

RECEIVED 0 2 JUN 2022
DANIAL AFIFI

**Tuan,**

**PEMBINAAN PROJEK BALAI BOMBA DAN KUARTERS PUTATAN, SABAH**
**(KPKT/BPEMB/JPBM/6/14/2021)**
PER: MATERIAL SUBMISSION OF ANTI CLIMB FENCE

Referring to the above matter.

02. Enclosed with this letter are documents for review and approval from you.

1. Material Submittal Form
2. Product Specifications for Anti Climb Fence
3. Product Certification

03. All the attention and cooperation from you is greatly appreciated.

Thank you

Yours Sincerely,

.....
**MTR Engineering Sdn. Bhd.**
(SUFIAN BIN SUTRESNO)
CONSTRUCTION MANAGER

4.

| | | | |
|---|---|---|---|
| | BK-PEMB-PK(P)-08-07 | Pindaan | 00 |
| | BORANG KELULUSAN BAHAN/PEMERIKSAAN MOCK-UP | Mukasurat | 1 / 1 |
| | | Tarikh | |

# BORANG KELULUSAN BAHAN/PEMERIKSAAN MOCK-UP

Note: *Potong mana yg tidak berkenaan.

| | | | |
|---|---|---|---|
| **PROJEK: MEMBINA BALAI BOMBA DAN KUARTERS PUTATAN, SABAH.**<br>No. Kontrak : KPKT/BPEMB/JBPM/6/14/2021 | | **Kontraktor :** MTR ENGINEERING SDN.BHD. | |
| **BUTIRAN KERJA KELULUSAN BAHAN/MOCK-UP/ DESKRIPSI ITEM SAMPEL:** | | **Lokasi Mock-~~up~~/ Bahan/Kerja :** | **Tarikh :** |
| **Model:**<br>**Kod Item:** Anti Climb Fence 25mm x 75mm | **Pengilang:** Bars & Mesh Industries Sdn. Bhd. | **Negara Asal:**<br>MALAYSIA | **Pengedar Tempatan:** CHRB Building Material Sdn Bhd. |

**PERAKUAN PERUNDING (ARKITEK) (*Jika projek R&B*):**

**Saya dengan ini mengesahkan bahawa cadangan bahan/peralatan/*mock-up* adalah mematuhi kehendak spesifikasi dan berfungsi seperti kehendak kontrak.**

Disertakan

Katalog [✓] Lukisan [ ] Sampel Bahan [ ] Spesifikasi [✓] Sijil [✓]

Sampel kerja [ ] *Mock-up* [ ]

PRODUCT SPECIFICATION : 2400mm (W)
PROFILE B : 75mm x 200mm 1800mm (H)
ROLLED TOP FENCE 2250mm (L)

| | |
|---|---|
| **Tandatangan CPP/ Perunding /Arkitek/M&E/C&S *** | **Jawatan/Cap Rasmi :** |
| LEMBAGA ARKITEK MALAYSIA<br>Ar. Datu Alasim Datu Omar<br>ARKITEK<br>No. Pendaftaran LAM : A/D 17 | ALASIM DATU OMAR ARCHITECT LAM AD17 |
| Nama : | Tarikh : |

**PERAKUAN KONTRAKTOR:**

**Saya dengan ini berjanji akan mematuhi kehendak CPP/Perunding* dan memastikan *bahan/peralatan/mock up/kerja yang dicadangkan mengikut spesifikasi dan berfungsi seperti di dalam kontrak.**

| | |
|---|---|
| **Tandatangan Wakil Kontraktor** | **Jawatan/Cap Rasmi**<br>Pengurus pembinaan |
| Nama : **Sufian Bin Sutresno** | Tarikh : |

**KEPUTUSAN ~~JKR~~ CPP:**

Dipersetujui (*concurred*) [ ]

**Walaupun perkara di atas telah dipersetujui, adalah menjadi tanggungjawab kontraktor bagi memastikan *bahan/peralatan/mock up/kerja mematuhi kehendak spesifikasi dan berfungsi seperti yang telah dinyatakan di dalam kontrak.**

**Ditolak dan perlu kemukakan semula** [ ]

| | |
|---|---|
| **Tandatangan KUR*(Arkitek/M&E/C&S)/Wakil PP** | Jawatan/Cap Rasmi |
| Nama : | Tarikh |

*Nota: Potong mana yang tidak berkenaan.

No Lesen : **PC037702**
*Licence No :*

# LESEN PENSIJILAN BARANGAN
## *Product Certification Licence*

SIRIM

PC 05102004 CB 01

**SIRIM QAS International Sdn. Bhd. dengan ini menganugerahkan kepada**
*SIRIM QAS International Sdn. Bhd. hereby grants to*

**CHRS SAMAWIRA MESH SDN. BHD.**
**LOT 7401, PT 1888**
**JALAN ZAMRUD 1, KAWASAN PERINDUSTRIAN NILAI**
**FASA II**
**71800 NILAI**
**NEGERI SEMBILAN, MALAYSIA**

**Lesen untuk menggunakan Tanda Pensijilan di atas barangan**
*a licence to use the Certification Mark on*

**COLD WORKED STEEL WIRE FOR REINFORCEMENT OF CONCRETE PRODUCTS**

**Please refer to detail in the SCHEDULE**

**sebagai mematuhi keperluan**
*as complying with*

**MS 144 : 2014**

**Nur Fadhilah binti Muhammad**
Ketua Pegawai Eksekutif
*Chief Executive Officer*
SIRIM QAS International Sdn. Bhd.

**SIRIM QAS International Sdn. Bhd.**
(No. Syarikat 410334-X)
1, Persiaran Dato' Menteri
Seksyen 2, Peti Surat 7035
40700 Shah Alam
Selangor Darul Ehsan
MALAYSIA.

Tel : 60-3-55446400
Faks : 60-3-55446466
http://www.sirim.my
http://www.malaysian-certified.my

| | | | |
|---|---|---|---|
| **Tarikh Mula Pensijilan** | **: 27 January 2005** | **Tarikh Dikeluarkan** | **: 06 January 2022** |
| *Certified Since* | | *Issue Date* | |
| **Sah Sehingga** | **: 27 January 2023** | **No Siri** | : 070558 |
| *Valid Until* | | *Serial No* | |

Lesen ini dianugerahkan tertakluk kepada syarat-syarat Perjanjian Pensijilan Barangan SIRIM QAS International Sdn. Bhd.
*This Licence is granted subject to the provisions of the Product Certification Agreement of SIRIM QAS International Sdn. Bhd.*

No Lesen : **PC037702**
*Licence No :*

# SCHEDULE

**CHRS SAMAWIRA MESH SDN. BHD.**

SIRIM

PC 05102004 CB 01

| | |
|---|---|
| Trade Mark | :COMPANY ID = CHRS SAMAWIRA MESH SDN. BHD. |
| Model | :GRADE 500 |
| Type | :PLAIN STEEL WIRE; PRODUCED IN COIL AND DELIVERED DECOILED |
| Size | :NOMINAL SIZE (mm) = 4, 5, 6, 7, 8, 9, 10 |

| | |
|---|---|
| Trade Mark | :COMPANY ID = CHRS SAMAWIRA MESH SDN. BHD. |
| Model | :GRADE 500 |
| Type | :RIBBED STEEL WIRE; PRODUCED IN COIL AND DELIVERED DECOILED |
| Size | :NOMINAL SIZE (mm) = 6, 7, 8, 9, 10 |

*End of page*

**SIRIM QAS International Sdn. Bhd.**
(No. Syarikat 410334-X)
1, Persiaran Dato' Menteri
Seksyen 2, Peti Surat 7035
40700 Shah Alam
Selangor Darul Ehsan
MALAYSIA.

Tel : 60-3-55446400
Faks : 60-3-55446466

http://www.sirim.my
http://www.malaysian-certified.my

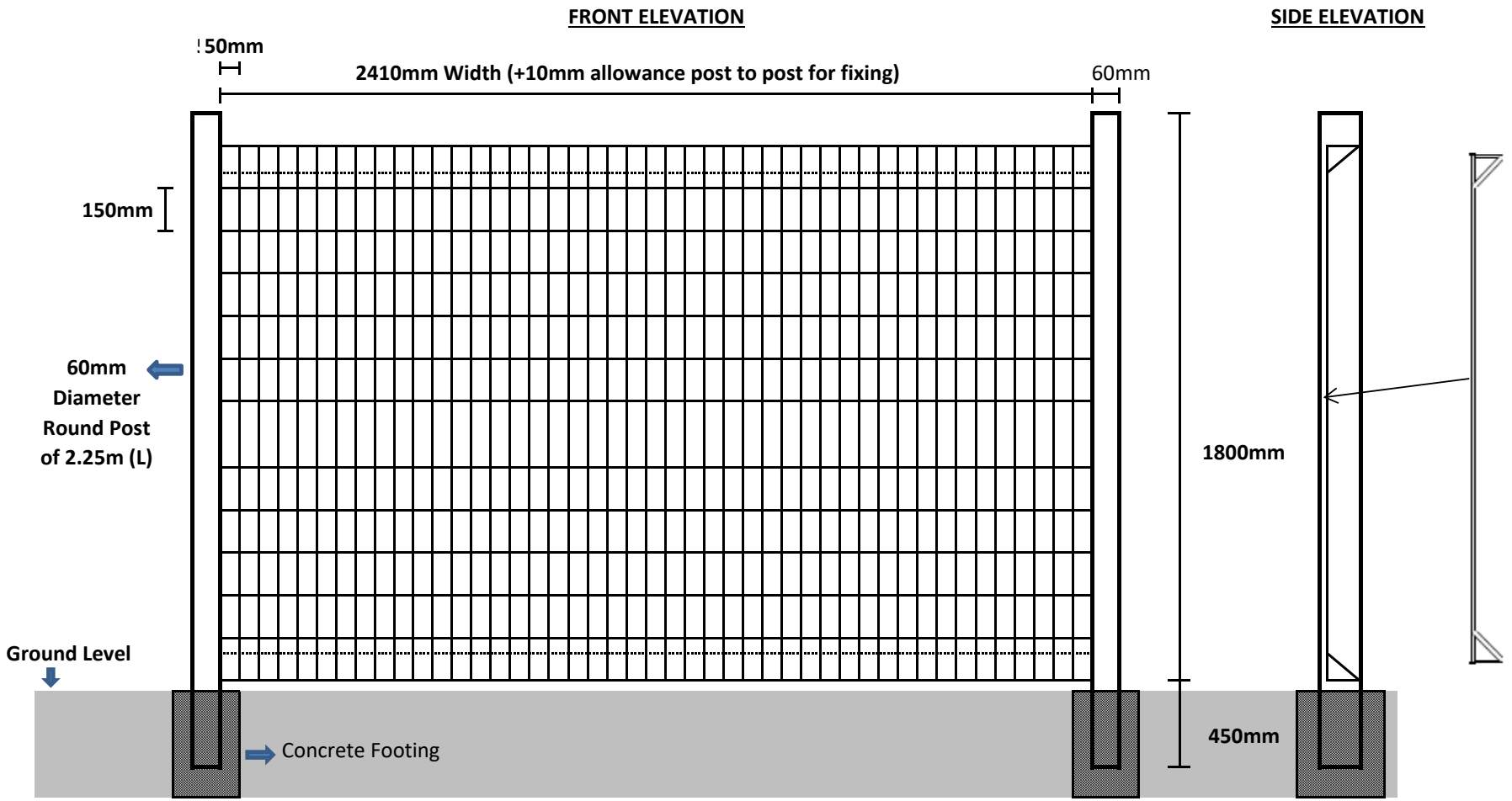
| | | | |
|---|---|---|---|
| **Tarikh Mula Pensijilan** | **: 27 January 2005** | **Tarikh Dikeluarkan** | **: 06 January 2022** |
| *Certified Since* | | *Issue Date* | |
| **Sah Sehingga** | **: 27 January 2023** | **No Siri** | : 070558 |
| *Valid Until* | | *Serial No* | |

Lesen ini dianugerahkan tertakluk kepada syarat-syarat Perjanjian Pensijilan Barangan SIRIM QAS International Sdn. Bhd.
*This Licence is granted subject to the provisions of the Product Certification Agreement of SIRIM QAS International Sdn. Bhd.*

## SECURITY FENCING PROFILE B - ROLLED TOP

**Project : BALAI BOMBA PUTATAN**

**Installation Method - ESY6LH-B Rolled Top Fence - 1800mm Height x 2400mm Width**




| | |
|---|---|
| **General Information:** | ***Vertical Wire Diameter : 4.5mm @ 50mm**<br>***Horizontal Wire Diameter : 4.5mm @ 150mm spacing**<br>***Round Post : 60mm diameter @ 2250mm length** |

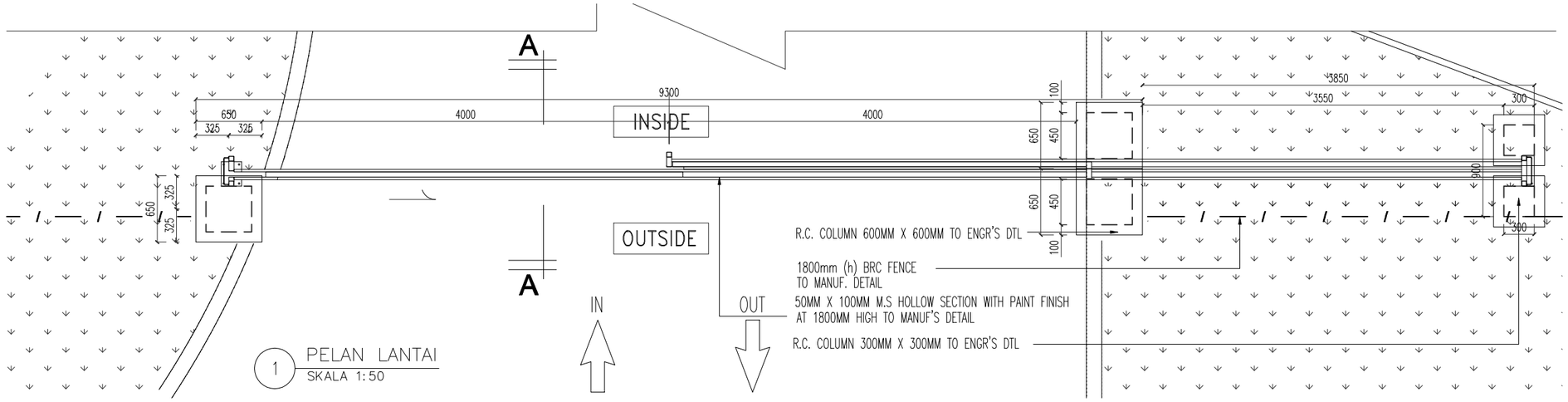
Drawing is not to scale.

**Confirmed and accepted by Purchaser**

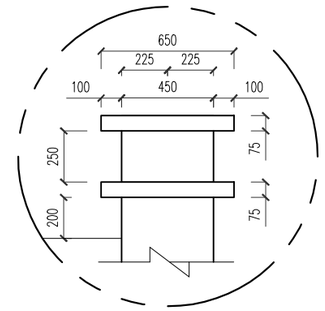
…… Company chop

Name :

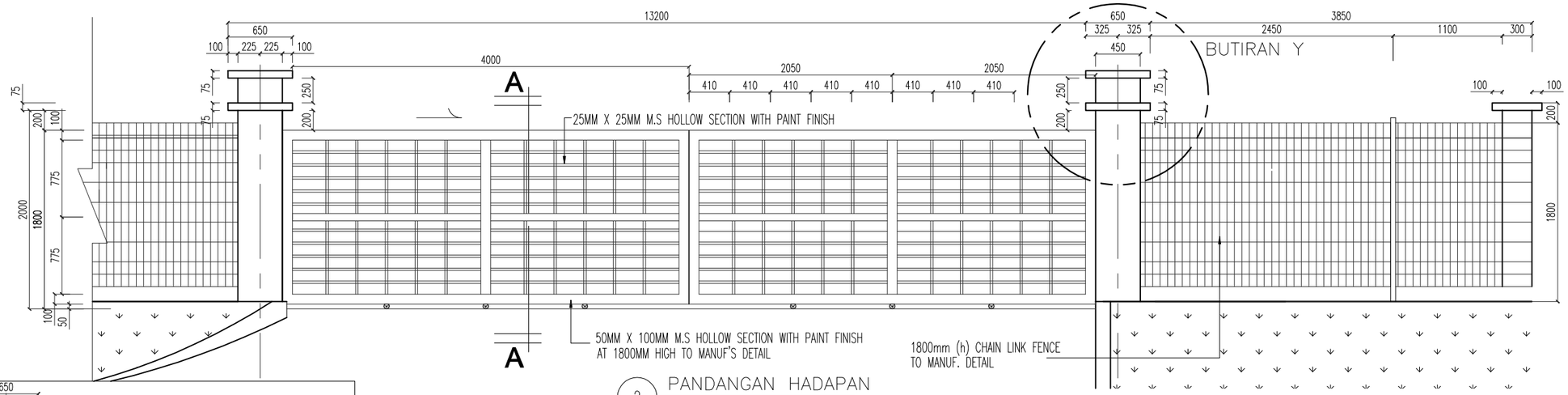
Date:



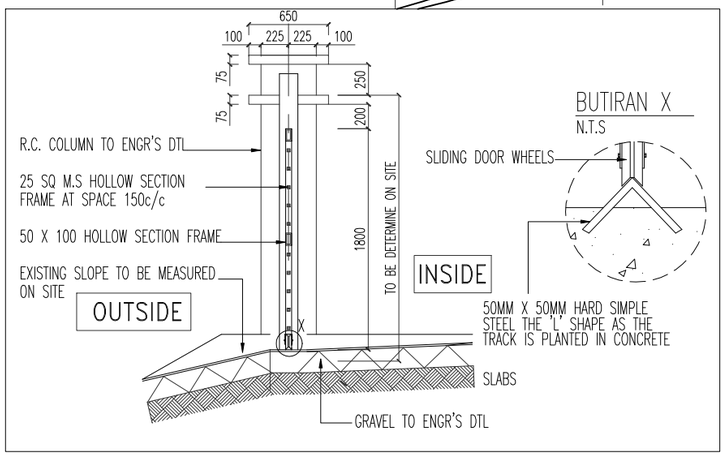

1 PELAN LANTAI
SKALA 1:50



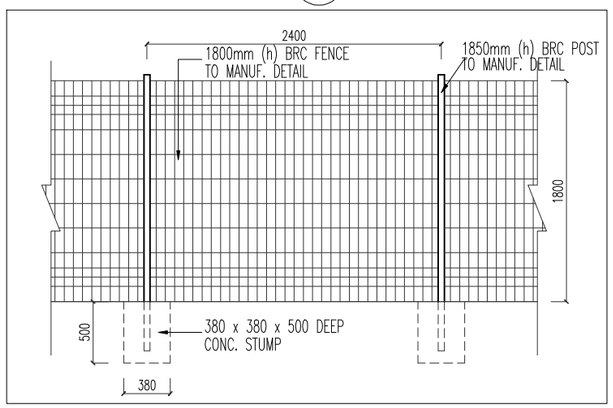

BUTIRAN Y
SKALA 1:30



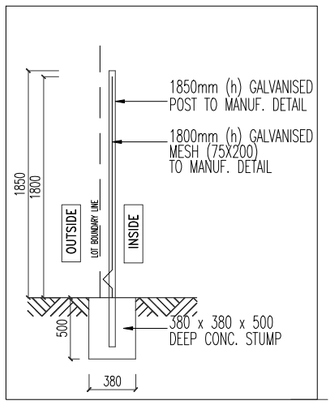

2 PANDANGAN HADAPAN
SKALA 1:50




3 KERATAN A–A
SKALA 1:25



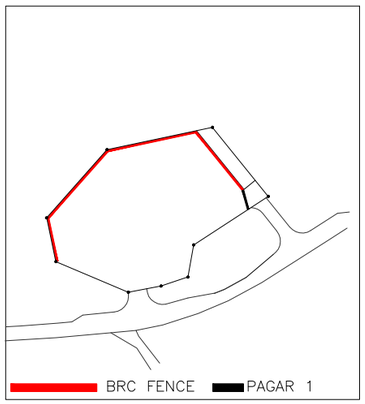

4 BUTIRAN 'A' (CHAIN LINK FENCE)
SKALA 1:50




5 BUTIRAN 'B'(CHAIN LINK FENCE)
SKALA 1:50



6 GAMBAR (CHAIN LINK FENCE)
N.T.S




7 LOKASI PAGAR
N.T.S

**CONSTRUCTION DRAWING**

Pemaju :

KEMENTERIAN PERUMAHAN DAN KERAJAAN TEMPATAN

Pemilik :

JABATAN BOMBA DAN PENYELAMAT MALAYSIA

Tajuk Projek:

CADANGAN PEMBINAAN PROJEK BALAI BOMBA & KUARTERS PUTATAN DI ATAS SEBAHAGIAN LOT N.T 213059771, JALAN SAILAN IMBAAN PUTATAN, DAERAH PUTATAN, SABAH

Tajuk Komponen:

PAGAR 2

Tajuk Lukisan:

PELAN LANTAI
PANDANGAN HADAPAN
KERATAN A–A
BUTIRAN 'A' ( BRC FENCE )
BUTIRAN 'B'( BRC FENCE )
GAMBAR (BRC FENCE)
LOKASI PAGAR

ARCHITECT

ALASIM OMAR ARCHITECT
F–27–1, ROYAL PLAZA PUTATAN
KM 11.2, JALAN PUTATAN
88200, KOTA KINABALU, SABAH
E : alasim.architect@gmail.com
T : +6 088 760 752
F: +6 088 761 752

DWG INFO

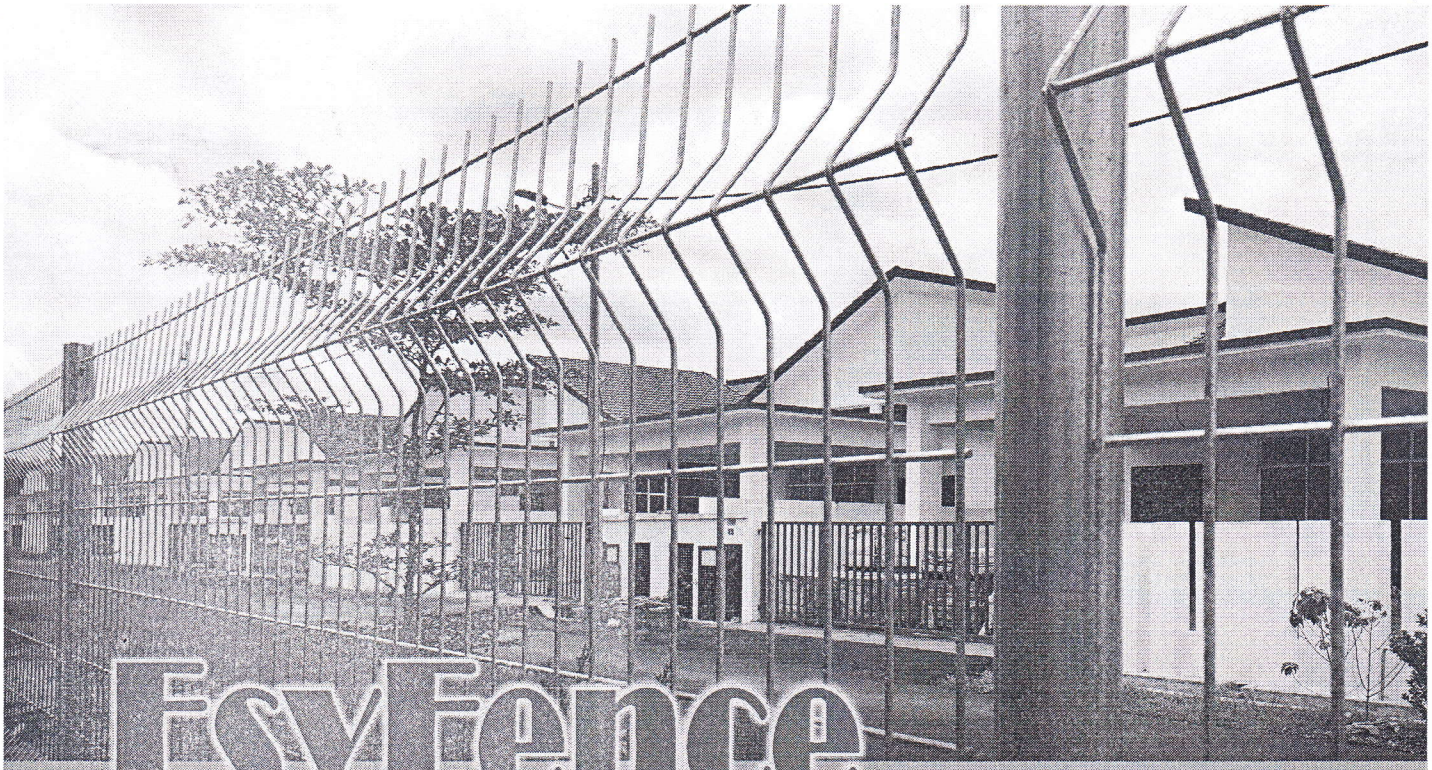
Drawn by : SYAH
Checked by : Sym
Scale : As Shown
Date : JUN 2020

Drawing Number : Revision 0 1 2

DWG TITLE

| Sketch | DP Sub | JPBM | Construction |
|---|---|---|---|
| Prelim | BP Sub | Contract | As–Built |

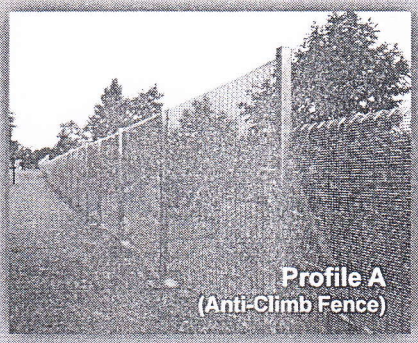
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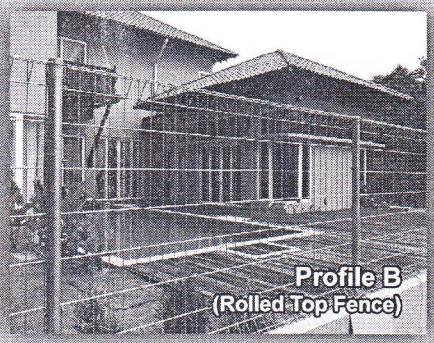


# EsyFence™

With EsyFence™, its application is virtually limitless and it is highly recommended for use at the following locations: -

- Residential Houses & Condominiums
- Walkways, Highways & Railways
- Airports, Harbours & Train Stations
- Police Quarters & Army Camps
- Golf Courses & Race Tracks
- Shops, Factories & Warehouses
- Zoos, Parks, Playgrounds & Stadiums
- Public & Governmental Buildings







CHUANHUAT GROUP
since 1957

QUALITY SYSTEM
SIRIM
Certified to ISO9001:2015
Cert. No.: AR4430

MS
SIRIM
MS145:2014
License No.: PC037701

MS
SIRIM
MS144:2014
License No.: PC037702

GOLDEN BULL AWARD 2010
WINNER OF SUPER GOLDEN BULL

Made In Malaysia

Bars & Mesh Industries Sdn. Bhd. Registration No: 198101003049 (69163-W)
Wisma Lim Kim Chuan, Lot 50A, Jalan 1/89B, 3½ Miles, Off Jalan Sg. Besi, 57100 Kuala Lumpur, Malaysia.
Tel: +603-7987 6188 (Hunting Lines) Fax: +603-7987 7566
Email: esyfence@chuanhuat.com.my Home: www.esyfence.com.my

scan me

CHUANHUAT GROUP

# EsyFence™ Your Reliable Fencing Solution

EsyFence™ is most ideal for usage in location where security and safety is a prerequisite be it at residential, industrial or commercial sites. Cost savings can be achieved with its easy installation, durability and maintenance free features makes it the preferred choice where fencing is concerned.

E

**EXCELLENT Visibility** for early detection to prevent intrusion and illegal enrty. Acts as a deterrent against trespassing.

S

**SECURE & SAFE.** The panel can be designed to suit various security applications with Add-Ons available.

Y

made from High **YIELD** Steel Wires conforming to MS144 (Grade 500) specifications that uses microprocessor controlled welding process, making the wires strong, difficult to cut & vandal proof.

F

**FREE of Maintenance.** Galvanized to BS729 / EN ISO1461 standard, which provides extra long life usage and protection against corrosion.

E

**EASY Installation & Handling** as we manufacture the complete fencing system. Damaged panels can be easily replaced.

N

Weld Strength Testing of EsyFence™
**NEW** investment on latest equipment and machinery to ensure that we supply consistent quality products and services.

C

**CERTIFIED** to Sirim QAS International Sdn. Bhd.'s MS ISO9001 standard. Your assurance of our Quality and Commitment.

E

**EXPERTISE** provided by our team of Technical Engineers who are always on-hand to assist in ensuring trouble-free usage of our products.

# PRODUCT SPECIFICATIONS

CHUANHUAT GROUP

| FENCE | | | *POST | | | |
|---|---|---|---|---|---|---|
| Size (Profile) | Width (mm) | **Height (mm) | Model | Length (mm) | Size (mm) | |
| | | | | | Profile A (Square Post) | Profile B & C (Round Post) |
| ESY4LH (A/B/C) | 2'400 | 1'200 | ESY4RP | 1'500 | 50x50 | Ø60mm |
| ESY5LH (A/B/C) | | 1'500 | ESY5RP | 1'900 | 50x50 | |
| ESY6LH (A/B/C) | | 1'800 | ESY6RP | 2'250 | 65x65 | |
| ESY7LH (A/B/C) | | 2'100 | ESY7RP | 2'600 | 65x65 | |
| ESY8LH (A) | | 2'400 | ESY8RP | 3'000 | 65x65 | |

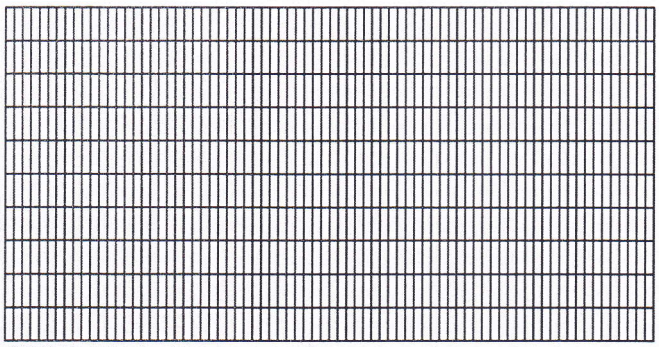
*Thickness of post = 1.5mm – 2.3mm
**kindly revert for other heights availability

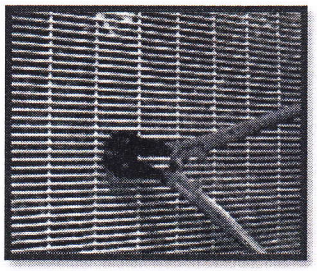
# PROFILE A – ANTI-CLIMB FENCE

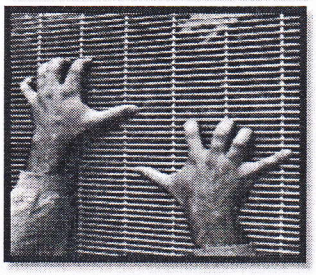
CHUANHUAT GROUP

A welded mesh panel ideal for endorsing high security and key point installations.

| | |
|---|---|
| Vertical wire diameter | 4mm |
| Horizontal wire diameter | 4mm |
| Pitch | 75mm x 12.5mm |
| | 12.5mm x 75mm |
| | 75mm x 25mm |
| | 25mm x 75mm |







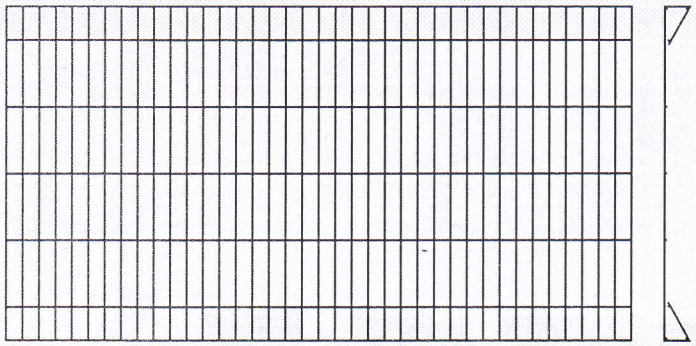
Anti-Cut & Anti-Climb

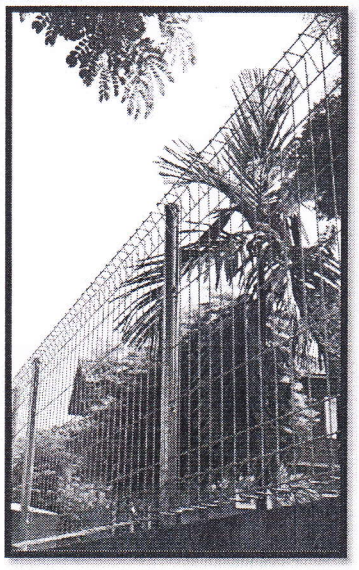
EsyFence™

# PROFILE B – ROLLED TOP FENCE

CHUANHUAT GROUP

A welded mesh panel with a rolled top and bottom edge for giving good rigidity.





| Fence Model | Wire diameter (mm) | | Spacing (mm) |
|---|---|---|---|
| | Vertical | Horizontal | |
| ESY4LH-B | 5 | 5 | *50mm x 150mm or *75mm x 200mm |
| ESY5LH-B | | | |
| ESY6LH-B | | | |
| ESY7LH-B | | | |

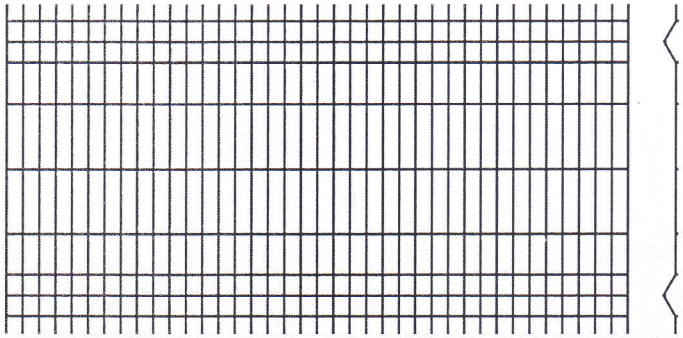
**4mm diameter is available upon request*

*Standard heights: 1200, 1500, 1800, 2100mm*

# PROFILE C – V-PRESSED FENCE

CHUANHUAT GROUP

A welded mesh panel with a V-Press at top and bottom edge for giving good rigidity & cost saving.





| Fence Model | *Wire diameter (mm) | | Spacing (mm) |
|---|---|---|---|
| | Vertical | Horizontal | |
| ESY4LH-C | 5 | 5 | *50mm x 150mm or *75mm x 200mm |
| ESY5LH-C | | | |
| ESY6LH-C | | | |
| ESY7LH-C | | | |

**4mm diameter is available upon request*

*Standard heights: 1200, 1500, 1800, 2100mm*

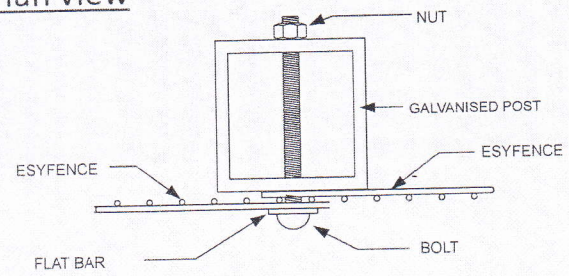
EsyFence™

# INSTALLATION DETAILS

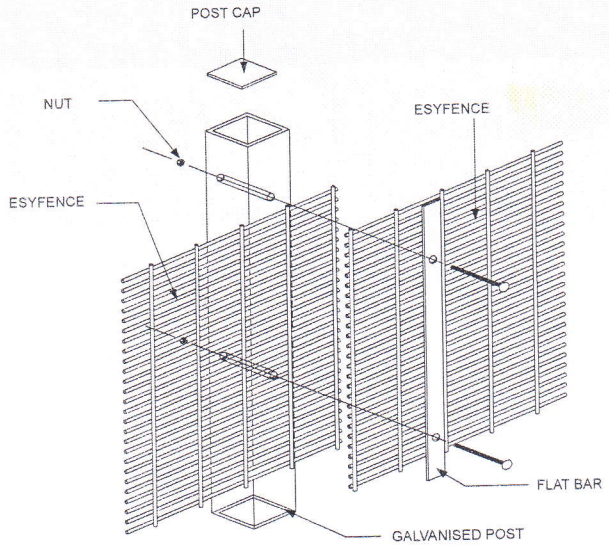
CHUANHUAT GROUP

## A. SQUARE POST

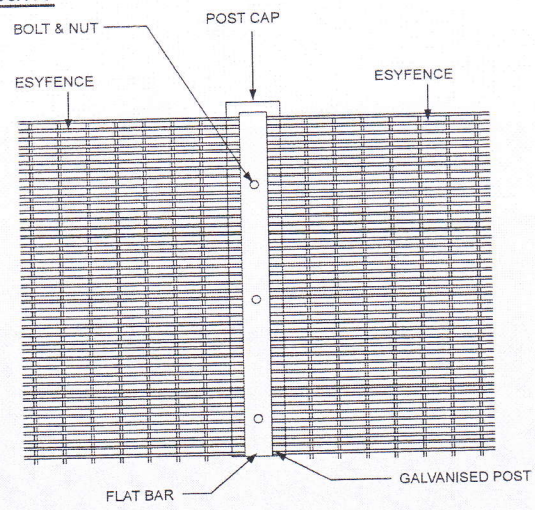
### Plan view




### Isometric View (Installation )



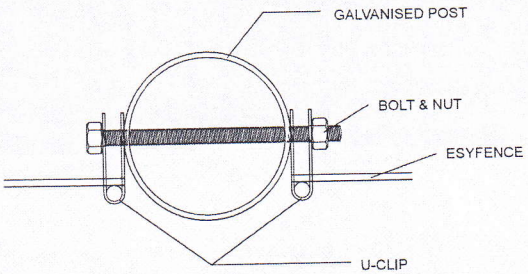

### Details



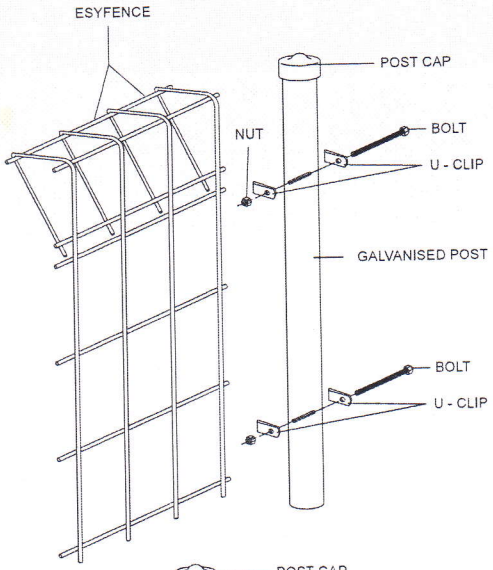

*For Profile A

## B. ROUND POST

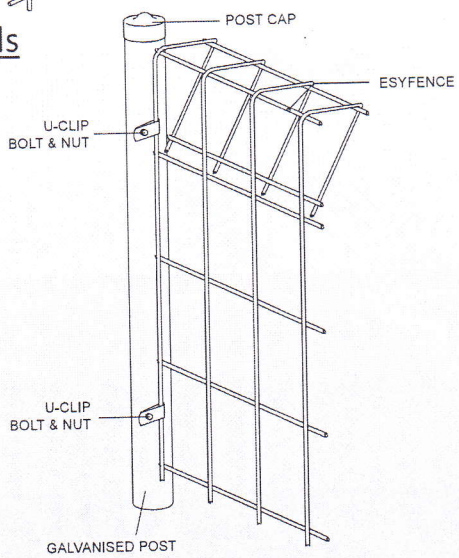
### Plan view




### Isometric View (Installation )




### Details

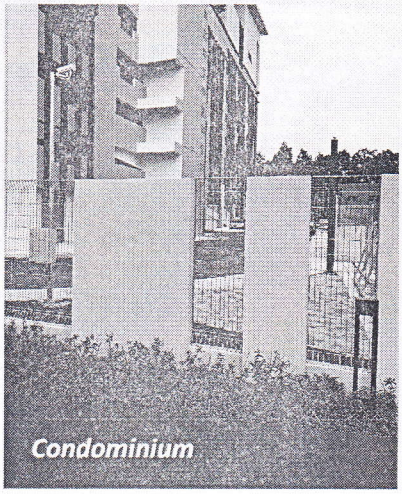


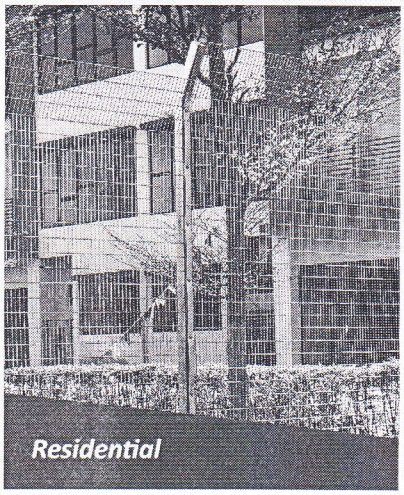

*For Profile B & C

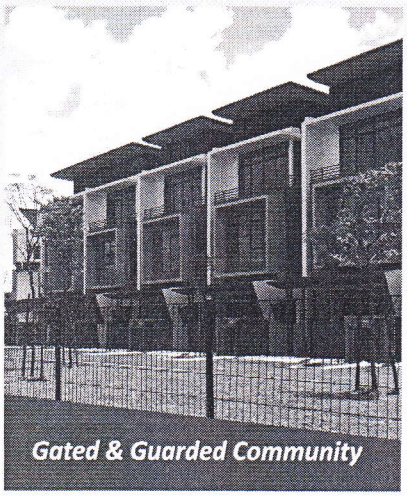
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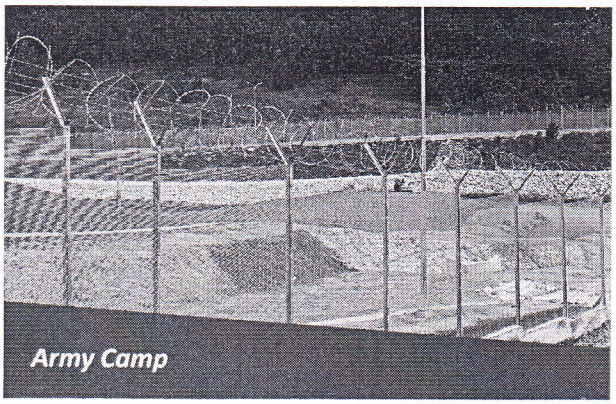

Condominium

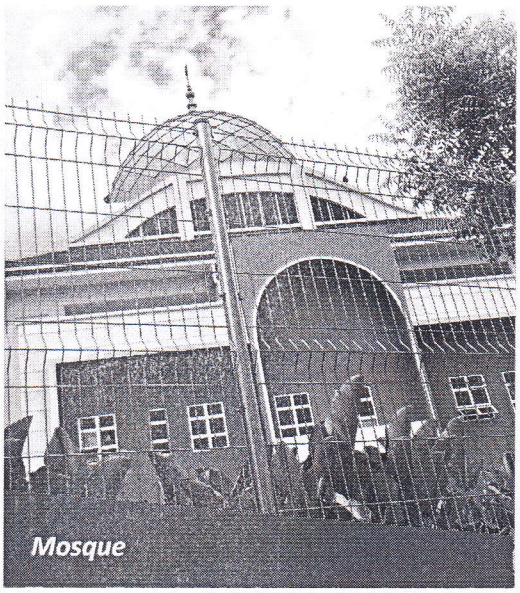

Residential


Gated & Guarded Community



Army Camp


Army Camp


Mosque



University

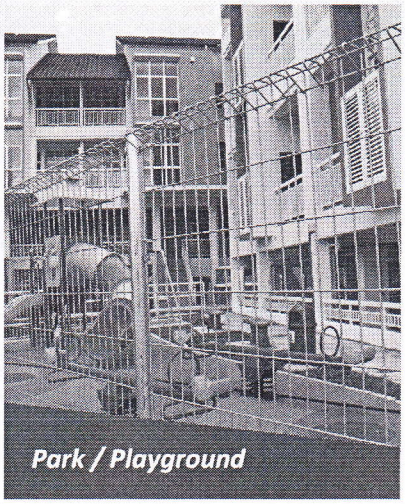
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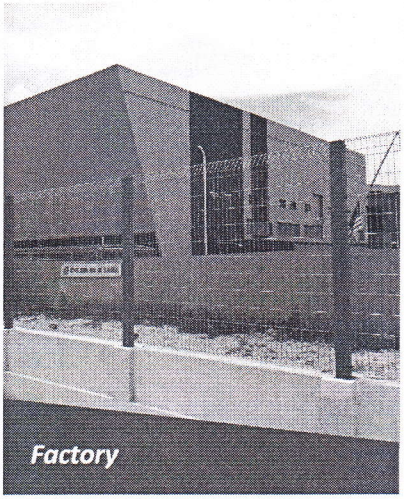

Basketball Court

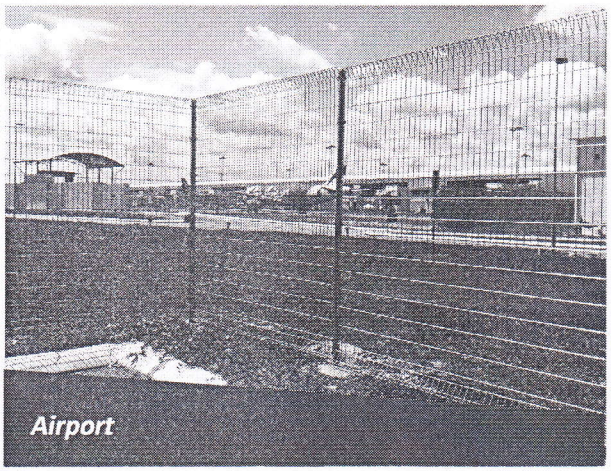

Multi Purpose Court


Park / Playground


Container Warehouse

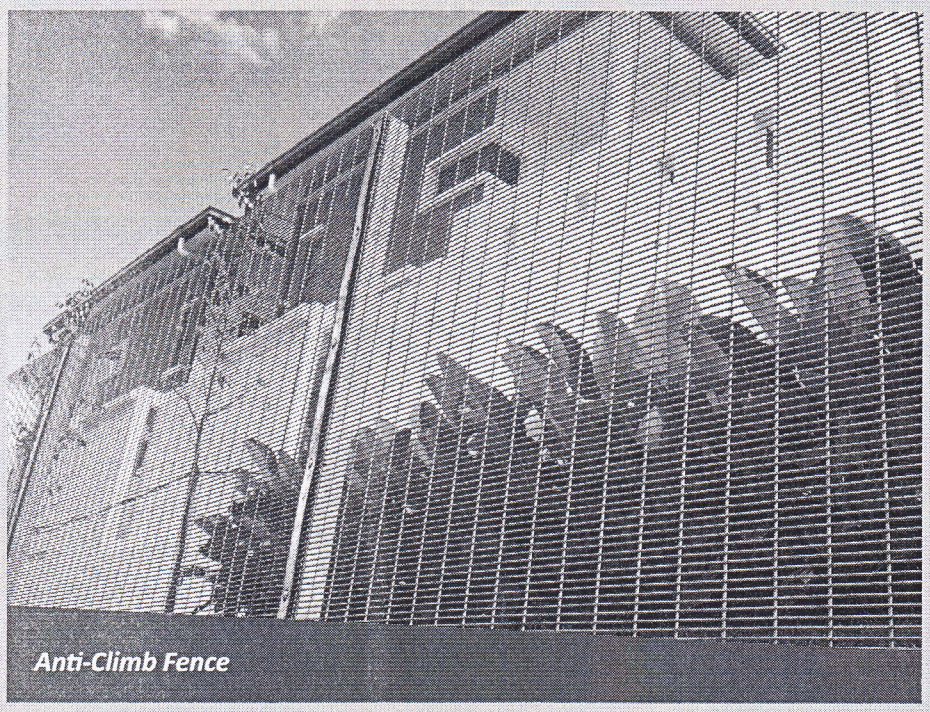

Warehouse


Factory

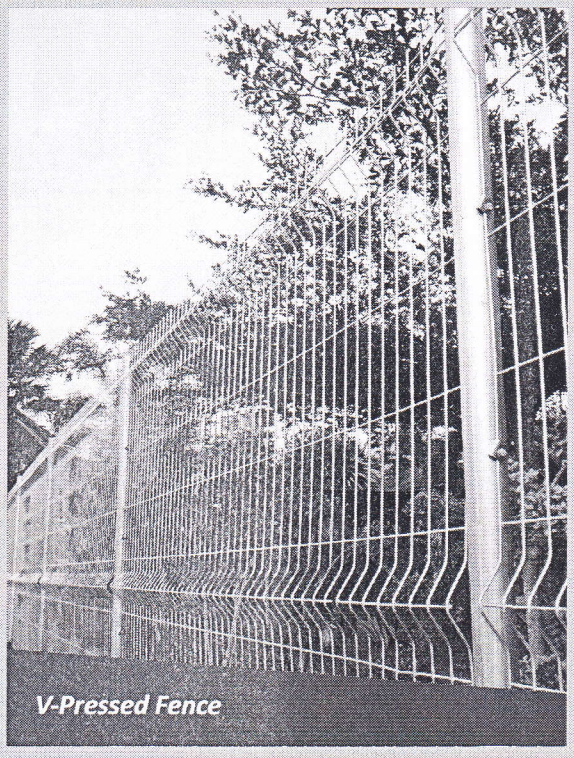

Airport


Telecommunication Tower

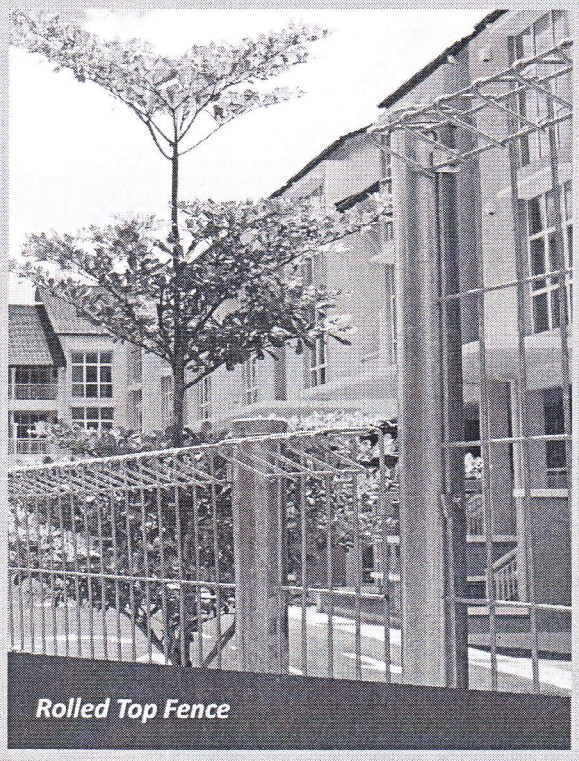
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