About ML Innovation

Malaysia anti climb fence manufacturer
ML Innovation Sdn Bhd has in excess of 30 years experience as a headline and manufacturer for steel, wire mesh products and allied anti climb fence products. Our products include design, manufacture and installation of anti climb fence, perimeter security fence, anti-climb barrier and all type of security protection. ML Innovation is one of the noted maker and installed anti climb fencing manufacturer in Malaysia. ML Innovation sales office operates in Kuchai Entrepreneurs Park, Selangor and has its own factory and warehouse in Subang Jaya Industrial Park, Selangor.

Quality Standard Assurance

By declaring our commitment to the ISO 9001:2008, we ensure that your quality & standard are not be underrating the technical, commercial and contractual project specifications & requirements and have all our management system and G2 processes including related operative specifications, procedure, qualification records, welder qualifications, etc. are reviewed and approved by the relevant authorities.

Supply Locality & Export

Throughout ML Innovations network of operations, the company has the resources and experience to service all types of project, i.e. innovations are one of the major supplier to the security industries in Malaysia and exporter to Indonesia, Brunei, Singapore & Thailand.

Full Range Technical Support for Project

By understanding the requirement of each individual project & making our experience with our customers, we believe this adds value to our project teams to complete projects on time and within budget. Our project team and the full range support service will be with you throughout the life of your project. Through our fabrication capability, project management, expertise and quality control, we are confident that we are able to fulfill your fencing project requirements.

Vision & Mission

ML Innovation’s vision statement is “to be a reputable manufacturer leader in the market and to provide the utmost best in what we do”. We are proud to be able to provide a quality, durable product in the market and also to service our clients in a professional manner. Our main goal is to be a professional leader in the market. We strive to constantly improve and to provide the best products available in the market and to deliver the best services to every customer we have.

Our mission is to provide quality products, professional services and to uphold integrity in what we do.

Quality Fences: To provide only the highest quality material, proper installations and competitive pricing.

Professional Services: To provide the highest standard of professional services to our customers.

Innovative: To be able to handle various situations with creativity and constantly be able to grow and to improve ourselves in what we do.
MLV Description

- Modern design outdoor perimeter fencing
- An improved version of welded mesh fencing which is more solid and much stronger.
- MLV design is more efficient in terms of transportation & installation
- Tough and weatherproof (suitable for Malaysia’s weather)
- Widely used for Residential or Complex Boundaries, Car Parks, Walkways, Playgrounds, Parks, Agriculture Farms, Factories and obtained approval and being widely used by Public Works Department Malaysia (JKR).

Application

- Industrial
- Highway
- Military
- Factory
- Parking/Lot
- Park
- Gate Security
MLV
Details drawing will be available upon request.

**Specification and Drawing**

- **Width (m):** 2.3m | 2.4m
- **Height (m):** 0.9m | 1.2m | 1.5m | 1.8m | 2.1m | 2.4m
- **Aperture Gap (vertical):** 175mm - 200mm
- **Aperture Gap (horizontal):** 50mm
- **Wire Diameter (mm):** 5mm
- **Warranty:** 5 years
- **Finishing:** Hot Dip Galvanized (ISO 1461:2009) / Polyester powder coating
- **Application:** Widely used for Residential or Complex Boundaries, Car Parks, Walkways, Playgrounds, Parks, Agriculture Farms, Factories and obtained approval and being widely used by Public Works Department Malaysia (JKR)

MLV can be custom made to your requirements or preference upon request.
MLRT Description

- Traditional outdoor perimeter fencing
- First generation of welded mesh fencing design
- Tough and weatherproof (suitable for Malaysia’s weather)
- Widely used for Road Dividers, Residential or Complex Boundaries, Car parks, Walkways, Playgrounds, Parks, Agriculture Farms, Government Sectors & GLC: JKR, DBKL, MBSU, MBPJ, TNB, KTM, TM, SYABAS etc.

Application

- Industrial
- Highway
- Railways
- Fence
- Parking Lot
- Park
- Good Security
Speciation and Drawing

<table>
<thead>
<tr>
<th>Width (m)</th>
<th>2.3m</th>
<th>2.4m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height (m)</td>
<td>0.9m</td>
<td>1.2m</td>
</tr>
<tr>
<td>Aperture Gap (vertical)</td>
<td>150mm</td>
<td></td>
</tr>
<tr>
<td>Aperture Gap (horizontal)</td>
<td>50mm</td>
<td></td>
</tr>
<tr>
<td>Wire Diameter (mm)</td>
<td>5mm</td>
<td></td>
</tr>
<tr>
<td>Warranty</td>
<td>5 years</td>
<td></td>
</tr>
<tr>
<td>Finishing</td>
<td>Hot Dip Galvanized (ISO 1444:2009) / Polyester powder coating</td>
<td></td>
</tr>
<tr>
<td>Application</td>
<td>Road Dividers, Residential or Complex Boundaries, Corporates, Walkways, Playgrounds, Parks, Agriculture Farms, Government Sections &amp; GCC, JKR, DRK, MBS, MBSSA, MPJ, TNB, KTM, TM, STABAS etc.</td>
<td></td>
</tr>
</tbody>
</table>

MLRT can be custom made to your requirements or preference upon request.
MLDA

Description

- Effective security outdoor perimeter fencing
- Semi-Anti Climb Fencing design which is one of the latest architectural modern design perimeter fencing in the market
- Very tough and weatherproof (suitable for Malaysia’s weather)
- Widely used for High End Residential boundary, Research Centres, Industrial park, Factories, Club Houses, Parks, etc.

Application

- Industrial
- Highway
- Railway
- Factory
- Parking Lot
- Park
- Gold Security
MLDA
Details drawing will be available upon request.

Specification and Drawing

| Width (m) | 2.3m | 2.4m |
| Height (m) | 0.9m | 1.2m | 1.5m | 1.8m | 2.1m | 2.4m | 2.7m | 3.0m |
| Aperture Gap (vertical) | 75mm |
| Aperture Gap (horizontal) | 21mm |
| Wire Diameter [mm] | 4mm |
| Warranty | 5 years |
| Finishing | Hot DIP Galvanized (ISO 1461:2009) / Polyester powder coating / Galvanised wire |
| Application | Widely used for high end residential boundary, research centres, industrial park, modern designed factories, club houses, etc |

MLDA can be custom made to your requirements or preference upon request.
MLAC Description

- Our highest maximum security outdoor perimeter fencing
- One of the latest architectural modern design perimeter fences in the market
- Anti-climb & Anti-cut
- Extremely tough and weatherproof (suitable for Malaysia’s weather)
- Widely used for High Security boundaries, Military Bases, Research Centres, Oil & Gas Plants, Refineries, Industrial Parks, Sewerage Plants, Railway Stations, PDRM, JKRI, SYABAS, TNB, MRTB/LRT, PETRONAS, DBKL, MPSJ etc

Application

- Industrial
- Highway
- Railway
- Park
- Parking Lot
- Refinery
- Golf Security
- Airport
MLAC

Details drawing will be available upon request.

**Specification and Drawing**

- **Width (m):** 2.2m | 2.4m
- **Height (m):** 0.9m | 1.2m | 1.5m | 1.8m | 2.1m | 2.4m | 2.7m
- **Aperture Gap (vertical):** 12.5mm
- **Aperture Gap (horizontal):** 7.5mm
- **Wire Diameter (mm):** 4mm
- **Warranty:** 5 years
- **Finishing:** Hot Dip Galvanized (ISO 1461:2009) / Polyester powder coating / Galvanised wire
- **Application:** High Security boundaries, Military Bases, Research Centres, Oil & Gas Plants, Refineries, Industrial Plants, Sewage Plants, PORM, JK, ITABAS, HAB, MFAUT, PERSONAL, DRIK, APPLI, Modern Design Houses and Factories etc

MLAC can be custom made to your requirements or preference upon request.
R60 & R60BP

R60 Height (m) : 1.4m | 1.7m | 2m | 2.3m | 2.6m | 2.9m
R60BP Height (m) : 0.95m | 1.25m | 1.55m | 1.85m | 2.15m | 2.45m
Post Diameter (mm) : 60mm
Warranty : 5 years
Finishing : Hot Dip Galvanized | ISO 1461:3009 | polyester powder coating / ultrapol
Application : Widely used for Residential or Complex Boundaries, Car Parks, Walkways, Playgrounds, Parks, Agriculture Farms, Factories and obtained approval and being widely used by Public Works Department Malaysia (JKR).

R60 & R60BP can be custom made to your requirements or preference upon request.
H/S70 & H/S70BP

**Specification**

- **Height (m):** 0.95m | 1.25m | 1.55m | 1.85m | 2.15m | 2.45m | 2.75m | 3.05m
- **Post Diameter (mm):** 70mm
- **Warranty:** 5 years
- **Finishing:** Hot Dip Galvanized (ISO 1461:2009) / Polyester powder coating
- **Application:** Widely used for boundary or complex boundaries, car parks, walkways, playgrounds, parks, agriculture farms, factories and obtained approval and being widely used by Public Works Department Malaysia (LUP).

H/S70 & H/S70BP can be custom made to your requirements or preference upon request.
L & Y ANGLE

Speciation

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>300mm</td>
</tr>
<tr>
<td>Angle Bar Size [mm]</td>
<td>50mm x 50mm x 3mm/6mm (H/K)</td>
</tr>
<tr>
<td>Angle [°]</td>
<td>45°</td>
</tr>
<tr>
<td>Warranty</td>
<td>5 years</td>
</tr>
<tr>
<td>Finishing</td>
<td>Hot Dip Galvanized (ISO 1461:2009) / polyester powder coating</td>
</tr>
<tr>
<td>Application</td>
<td>Widely used for Residential or Complex Boundaries, Car Parks, Walkways, Playgrounds, Parks, Agriculture Farms, Factories and obtained approval and being widely used by Public Works Department Malaysia (JPP).</td>
</tr>
</tbody>
</table>

L & Y ANGLE can be custom made to your requirements or preference upon request.
SAFETY BARRIER

**Left View**

- **Panel size**: 2400mm x 1600mm
- **Height (mm)**: 1150mm
- **Width (mm)**: 200mm

**Specifications**

- **Width (m)**: 2.2m / 2.4m
- **Height (m)**: 1.14m
- **Aperture Gap (Vertical)**: 200mm
- **Aperture Gap (Horizontal)**: 40mm
- **Wire Diameter (mm)**: 5mm (V) / 7mm (H)
- **Finishing**: Polyester powder coating
- **Application**: Construction site

*Promote HSE (Health, Safety, & Environment) management
HOT-DIP
GALVANIZING

Introduction
For more than 160 years, hot-dip galvanizing after fabrication has been used to combat steel corrosion in the harshest environment throughout various markets. However, when new technologies and creative chemistry are involved, the usage and specification of hot dip galvanized steel are constantly evolving as the new market emerges. Once considered only as a means of corrosion protection, hot-dip galvanizing is now used for an array of reasons including reducing initial cost, durability, longevity, availability, versatility, sustainability and even aesthetics.

Galvanizing Standard:
EN ISO 1461: 2009 (E)
BS 729: 1999

Surface Preparation
- Degreasing
- Rinse
- Pickling
- Rinse
- Flux Solution
- Drying
- Zinc Bath
- Cooling and Inspection

[Diagram of the galvanizing process with steps listed]
ULTRAGAL Advantage

Save time, labour and costs
Ultragal triple coated system can be used immediately without any further painting, giving great savings in time, labour and costs.

High Yield Strength
Ultragal is 20% to 60% higher in yield strength.

Reduced Weight
Ultragal structures are about 20% lighter:

- High strength
- Smooth & glossy galvanised finishing
- No painting required
- More lasting than GI pipe
- Flexible enough for bending and forming
- Competitively priced
- Available in circular, square and rectangular hollow sections
- Wall thickness varies from 1mm and above
- Save as much as 25% on material

In-line hot dip uniformly galvanized providing bright & shiny surface
Cold formed steel providing high tensile / high yield strength
Internally painted with high corrosion resistance paint
Clear organic coating
GALFAN Advantage

Galfan can lower costs via lighter coating weights while achieving similar or better performance than standard galvanization. Galfan is obtained by continuous hot-dip coating in a bath of molten metal consisting of approximately 95% zinc and 5% aluminum.

- No Spangle
- Low coefficient of friction
- Improved formability
- Enhanced resistance to micro-cracking
- Environmentally friendly (reduces zinc usage up to 50%)
- Excellent paint adhesion

Steel Wire
Iron-Zinc-Aluminum Alloy
95% Zinc-5% Aluminum Mismetal Alloy
Shiny, Smooth Exterior Finish