4.0

High level security systems

Profiled panel systems

Securus profiled 4.1
Ultimate Extra 4.2

Flat panel systems

Securus flat 4.3
Dulok-25 4.4
Securus SR1 4.5
Securus SR2 4.6

Maximum security systems

Active anti-intruder 4.7

High security applications
Security rated to LPS 1175
Heights up to 6.0m
Adaptable for anti-intruder toppings
Suitable for ground burial
BS 1722-14 to Cat 4
Securus™
Profiled panel system

Features
✓ Attractive appearance, even with dense mesh
✓ Rigid welded mesh panels
✓ RAL colours available

Applications
✓ Schools
✓ Industrial and commercial units
✓ Police stations and secure units
✓ MOD
✓ Airports and seaports

Panel dimensions

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Heights</td>
<td></td>
</tr>
<tr>
<td>1800, 2000, 2410, 2970 mm</td>
<td></td>
</tr>
<tr>
<td>other heights from 0.5 m up to 6.0 m available on request</td>
<td></td>
</tr>
<tr>
<td>Panel width</td>
<td>2515 mm</td>
</tr>
<tr>
<td>Mesh size</td>
<td>76.2 x 12.5 mm</td>
</tr>
<tr>
<td>Wire diameter</td>
<td>4 mm (horizontals and verticals)</td>
</tr>
<tr>
<td>Triangular folds</td>
<td>2</td>
</tr>
<tr>
<td>Top edge projection</td>
<td>Nil – wire is flush on all edges</td>
</tr>
</tbody>
</table>

Description
The Securus profiled system has become extremely popular for high security applications. It is suitable for applications such as schools, industrial and commercial units, police stations and secure units. Although a dense mesh it has very little impact on the landscape.

Finish
Galvanised and polyester powder-coated after stringent cleaning and treatment to give a well-adhered coating of 60 microns. Or available as galvanised only which is a high aluminium content galvanising giving four times the life of BS 443. This finish is free of the sharps and irregularities found in the hot dip galvanising process. RAL range of colours available.

Specification clauses
To be read with Preliminaries/General conditions.

Open mesh steel panel general purpose fencing/gates
- Manufacturer & Ref: CLD Fencing Systems,
  Tel. 01270 764751, CLD Securus Profiled Panel System.
- Height: ……* Nominal height: ……* Mesh & wire: 76.2 x 12.5 mm mesh; 4 mm wire, high aluminium content galvanised and polyester powder-coated to minimum 80 microns.
- Posts: 80 x 60 mm Patented Rolled Section, hot dip galvanised after manufacture and polyester powder-coated.
- Fixings: M8 cup square bolt with permacone nut, galvanised.
- Maximum post centres: 2.52 m.
- Set posts: Set posts in holes 300 mm diameter x 750** mm deep, filled not less than half the depth with concrete, as clause 620.
- Bottom of fencing to be: maximum 50 mm above final ground level.
- Other requirements: PPC Colours Green RAL 6005 or galvanised only***.
  * See specification, above, for available heights.
  ** Depending on fence height
  *** Delete as required

* Exploded view of post and clamp for Securus profiled panel system

Securus profiled panel system detail

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All information correct at time of printing. We reserve the right to alter specifications without notice.
Securus™ profiled

High level security systems

Securus posts
For the Securus profiled panel system, CLD offers their own unique state of the art post. A patented roll formed section designed to facilitate ease of installation, providing maximum security when combined with security fastenings.

Description
The CLD ‘Securus’ post is a flanged rolled hollow section formed out of a high grade steel strip (40% higher yield than conventional hollow section), cold rolled with 25 mm integral slotted frames each side with a centre recess, allowing panels to be fitted independently of each other providing a flush face and reducing distortion in the panel. Panels are attached using M8 x 25 cup square galvanised bolts and security clips, washers and permacone fixings.

Finish
All posts are hot dipped galvanised and polyester powder coated either to match or contrast with the panels.

Dimensions
Posts: 80 x 60 mm special flanged section (patent applied for)
Corner posts: 80 x 80 mm standard RHS section
Post centres: 2520 mm

Sloping ground
Panels can be stepped as required on the post system. Where gradients exceed 1:16, it is recommended that taller panels are either part-buried or additional posts are used. Panels can also be sloped to the following gradients, within the tolerance of the post section:
1.8 m high: 1 in 45
2.0 m high: 1 in 50
2.4 m high: 1 in 60
3.0 m high: 1 in 75

Variations
The posts are available in different lengths to accommodate panel heights and ground conditions.
- wall fixing plates, cranked posts or base plated
- cranked or straight extensions for barbed or razor wire
- cranked panels
- Posts made from standard sections complete with clamp bar are available.

Securus profiled panel system

Sloping ground
Panels can be stepped as required on the post system. Where gradients exceed 1:16, it is recommended that taller panels are either part-buried or additional posts are used. Panels can also be sloped to the following gradients, within the tolerance of the post section:
1.8 m high: 1 in 45
2.0 m high: 1 in 50
2.4 m high: 1 in 60
3.0 m high: 1 in 75

Variations
The posts are available in different lengths to accommodate panel heights and ground conditions.
- wall fixing plates, cranked posts or base plated
- cranked or straight extensions for barbed or razor wire
- cranked panels
- Posts made from standard sections complete with clamp bar are available.

Securus™ profiled panel system

Sloping ground
Panels can be stepped as required on the post system. Where gradients exceed 1:16, it is recommended that taller panels are either part-buried or additional posts are used. Panels can also be sloped to the following gradients, within the tolerance of the post section:
1.8 m high: 1 in 45
2.0 m high: 1 in 50
2.4 m high: 1 in 60
3.0 m high: 1 in 75

Variations
The posts are available in different lengths to accommodate panel heights and ground conditions.
- wall fixing plates, cranked posts or base plated
- cranked or straight extensions for barbed or razor wire
- cranked panels
- Posts made from standard sections complete with clamp bar are available.
Ultimate Extra™
Profiled panel system

Features
- Aesthetic solution
- Difficult to climb and cut
- Approved by planning authorities
- RAL colours available

Applications
- Industrial and commercial buildings
- Public buildings
- Schools
- Police stations and secure units

Panel dimensions

<table>
<thead>
<tr>
<th>Height (mm)</th>
<th>1800</th>
<th>2030</th>
<th>2430</th>
<th>3030</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel width (mm)</td>
<td>2485</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mesh size (mm)</td>
<td>165</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wire diameter (mm)</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Triangular folds</td>
<td>3 or 4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top edge projection (mm)</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

† can be inverted to give flush edge.

Description
The Ultimate Extra profiled panel system offers close wire centres which, combined with increased wire diameter and the RHS post and channel clamp strip, give it great strength and make it difficult to climb. This makes for an exceptionally secure fencing system, which is highly approved of by planning authorities. In addition, the Ultimate Extra offers good visibility and an aesthetically pleasing appearance.

Finish
Galvanised and polyester powder-coated, after stringent cleaning and treatment, to give a well adhered coating of 60 microns. RAL range of colours available.

Specification clauses
To be read with Preliminaries/General conditions.
Open mesh steel panel general purpose fencing/gates
- Manufacturer & Ref: CLD Fencing Systems,
  Tel: 01270 764751, CLD Ultimate Extra Profiled Panel System.
- Height: ...... mm*. Nominal height: ...... m*.
  Mesh and wire: 165 x 25 mm mesh; 6 mm wire with 3/4 profiles, hot dip galvanised and polyester powder-coated to minimum 60 microns.
- Posts: 80 x 40 mm RHS, hot dip galvanised after manufacture and polyester powder coated with 41 x 21 x 2.5 mm channel clamp bars galvanised and polyester powder-coated to match fencing.
- Fixings: M8 x 120 cup square bolt with permacone nut galvanised.
- Maximum post centres: 2.485 m. (2050 mm for 3 m high)
- Set posts: Set posts in holes 300 mm diameter x 750** mm deep, filled not less than half the depth with concrete, as clause 620.
- Bottom of fencing to be: approx. 50 mm above final ground level.
- Other requirements: PPC Colour Green RAL 6005.

* See specification, above, for available heights.
** Depending on fence height
Ultimate Extra™ High level security systems

Ultimate Extra™ profiled panel system

Ultimate Extra posts and clamps
For the Ultimate Extra profiled panel system CLD offers a standard post and clamp system which provides a complete method of securing, allowing infinitely variable stepping of panels. It is versatile, strong, simple to fix and vandal-resistant, yet allows panels to be removed without damage to either post or clamp. Accidentally damaged panels can be replaced without removing the post.

Description
The RHS posts are supplied complete with a full-length clamping channel, fixed with cup square M8 bolts and permacone nuts.

Finish
All posts are supplied hot dipped galvanised and polyester powder-coated to give a durable quality finish. Fasteners are supplied galvanised.

Available in the RAL range of colours to match the fencing panels.

Dimensions
Posts: 80 x 40 mm RHS
Clamping channels: 41 x 21 mm
Post centres: 2485 mm (2050 mm for 3 m high)

Sloping ground
Panels can be stepped as required. Where gradients exceed 1:16, it is recommended that taller panels are either part-buried or additional posts are used.

Variations
In addition to the standard posts many variations are available to accommodate site requirements:
• alternative sections
• wall fixing plates, cranked posts or base plated
• cranked or straight extensions for barbed or razor wire
• cranked panels
• concrete or wooden posts with through-bolts and fixing plates.

Plan of end          Plan of panels in line          Plan of internal corner          Plan of external corner
Securus™
Flat panel system

Features
✓ Attractive appearance, even with dense mesh
✓ Rigid flat welded mesh panels
✓ RAL colours available

Applications
✓ Schools
✓ Industrial and commercial units
✓ Police stations and secure units
✓ MOD
✓ Airports and seaports

Panel dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heights</td>
<td>1830, 2030, 2440, 3000 mm</td>
</tr>
<tr>
<td>Heights (available)</td>
<td>from 0.5 m up to 6.0 m</td>
</tr>
<tr>
<td>Panel width</td>
<td>2515 mm</td>
</tr>
<tr>
<td>Mesh size</td>
<td>76.2 x 12.5 mm</td>
</tr>
<tr>
<td>Wire diameter</td>
<td>4 mm (horizontal and verticals)</td>
</tr>
<tr>
<td>Top edge projection</td>
<td>Nil – wire is flush on all edges</td>
</tr>
</tbody>
</table>

Description
The Securus flat system has been used in many and varied applications including perimeter security to schools and police stations. The flat Securus fence system has become increasingly popular as a rebound surface for sports facilities supported on A.I. rails (replacing the conventional rebound board), thus extending the effective working life of the facility, lowering maintenance costs and providing a more aesthetically pleasing appearance in built-up areas.

Finish
Galvanised and polyester powder-coated after stringent cleaning and treatment to give a well-adhered coating of 60 microns. Or available as galvanised only which is a high aluminium content galvanising giving four times the life of BS 443. This finish is free of the sharps and irregularities found in the hot dip galvanising process. RAL range of colours available.

Specification clauses
To be read with Preliminaries/General Conditions.
Open mesh steel panel general purpose fencing/gates
- Manufacturer & Ref: CLD Fencing Systems,
- Tel: 01270 764751, CLD Securus Flat Panel System.
- Height: …… Nominal height: ……
- Mesh & wire: 76.2 x 12.5 mm mesh; 4 mm wire, high aluminium content galvanised and polyester powder-coated to minimum 80 microns.
- Posts: 80 x 60 mm Patented Rolled Section, hot dip galvanised after manufacture and polyester powder-coated.
- Fixings: M8 square bolt with permacone nut, galvanised.
- Maximum post centres: 2.52 m.
- Set posts: Set posts in holes 300 mm diameter x 750** mm deep, filled not less than half the depth with concrete, as clause 620.
- Bottom of fencing to be: maximum 50 mm above final ground level.
- Other requirements: PPC Colours Green RAL 6005 or galvanised only**.

* See specification, above, for available heights.
** Depending on fence height
*** Delete as required
**Securus posts**

For the Securus flat panel system, CLD offers their own unique state of the art post. A patented roll formed section designed to facilitate ease of installation, providing maximum security when combined with security fastenings.

**Description**

The CLD ‘Securus’ post is a flanged rolled hollow section formed out of a high grade steel strip (40% higher yield than conventional hollow section), cold rolled with 25 mm integral slotted frames each side with a centre recess, allowing panels to be fitted independently of each other providing a flush face and reducing distortion in the panel. Panels are attached using M8 x 25 cup square galvanised bolts and security clips, washers and permacone fixings.

**Finish**

All posts are hot dipped galvanised and polyester powder-coated either to match or contrast with the panels.

**Dimensions**

Posts: 80 x 60 mm special flanged section (patent applied for)

Corner posts: 80 x 80 mm standard RHS section

Post centres: 2520 mm

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**Sloping ground**

Panels can be stepped as required on the post system. Where gradients exceed 1:16, it is recommended that taller panels are either part-buried or additional posts are used. Panels can also be sloped to the following gradients, within the tolerance of the post section:

- 1.8 m high: 1 in 45
- 2.0 m high: 1 in 50
- 2.4 m high: 1 in 60
- 3.0 m high: 1 in 75

**Variations**

The posts are available in different lengths to accommodate panel heights and ground conditions.

- wall fixing plates, cranked posts or base plated
- cranked or straight extensions for barbed or razor wire
- cranked panels

Posts made from standard sections are available.
Dulok-25™
Double wire security panel system

Features
✓ Extremely high security, anti-cut-through, double wire panels
✓ Wide range of height options (up to 6 m high)
✓ RAL colours available

Applications
✓ Industrial and commercial buildings
✓ Public buildings
✓ Schools
✓ Police stations and secure units

Panel dimensions

<table>
<thead>
<tr>
<th>Heights (mm)</th>
<th>1830, 2030, 2430, 3060, 4060, 4460, 5090, 5490, 6090</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel width</td>
<td>2506 mm</td>
</tr>
<tr>
<td>Mesh sizes</td>
<td>200 x 25 mm</td>
</tr>
<tr>
<td>Wire diameter</td>
<td>6 mm verticals</td>
</tr>
<tr>
<td></td>
<td>2 x 8 mm horizontal</td>
</tr>
<tr>
<td>Top edge projection</td>
<td>30 mm†</td>
</tr>
</tbody>
</table>

† Fence heights above 2.43 m are made up of 2 or more panels.
† Can be inverted to give flush edge.

Description
The Dulok-25 Double Wire panel system can be used in applications such as data centres, secure units, MOD sites and police stations. With its twin 8 mm wire configuration and 25 mm spaced 6 mm vertical wires making this one of the most impenetrable fence systems on the market. Available in heights ranging from 1.2 m up to 6.0 m.

Finish
Hot dip galvanised only or galvanised and polyester powder-coated. RAL range of colours available.

Specification clauses
To be read with Preliminaries/General conditions.

Open mesh steel panel general purpose fencing/gates
• Manufacturer & Ref: CLD Fencing Systems,
  Tel. 01270 764751, CLD Dulok Double Wire Panel System.
• Height: ……* Nominal height: ……* Mesh & wire: 200 x 25 mm mesh; two 8 mm horizontal wires, one 6 mm vertical wire, galvanised and polyester powder-coated to 60 microns.
• Posts: …… x …… x ……** mm RHS, hot dip galvanised after manufacture and polyester powder-coated with 40 x 5 mm flat clamp bars hot dip galvanised and polyester powder-coated to match post.
• Fixings: M8 x 40 mm stainless steel pin hex dome-head security screws.
• Maximum post centres: 2.52 m.
• Set posts: Set posts in holes 300 mm diameter x 750 mm*** deep, filled not less than half the depth with concrete, as clause 620.
• Bottom of fencing to be: approx. 50 mm above final ground level.
• Other requirements: PPC Colour Green RAL 6005 or hot dip galvanised only.
• Sheardrive™ fixing if required instead of pin hex.

* See specification, above, for available heights.
** See page opposite for post specifications.
*** Depending on fence height
**Dulok-25 posts and clamps**

For the Dulok-25 Double Wire panel system CLD has developed a post and clamp bar system which provides a simple method of securing. Complete with an anti-vandal fastener, installed with either a battery-powered driver or traditional tools, this system offers a rapid and secure installation.

**Description**
The posts are supplied complete with a full-length flat clamp bar and M8 x 40 mm pin hex dome-head security screws, or Sheardrive™ bolts (see below).

**Finish**
All posts and clamps are supplied hot dip galvanised only or hot dip galvanised and polyester powder-coated in colours to match the fencing panels.

**Dimensions**
- Posts: 60 x 40 x 2.5 mm RHS (up to 2.43 m high)
- 80 x 40 x 3 mm RHS (up to 3.66 m high)
- 100 x 50 x 3 mm RHS (up to 4.46 m high)
- 120 x 60 x 3.5 mm RHS (up to 6.09 m high)

Flat clamp bars: 40 x 5 mm
Post centres: 2520 mm

**Sloping ground**
Panels can be stepped as required within the clamp bar system. Where gradients exceed 1:16, it is recommended that taller panels are either part-buried or additional posts are used.

**Variations**
The posts are available in a range of lengths to accommodate panel heights and ground conditions. In addition, many variations are available:

- wall fixing plates, cranked posts or base plated
- cranked or straight extensions for barbed or razor wire
- cranked panels
- concrete or wooden posts with through-bolts and fixing plates
Securus SR1™
High security to LPS 1175 Category 1

Features
- Attractive appearance even with dense mesh
- Strong wire formation
- Unique rolled post design
- RAL range of colours
- Compatible for upgrade to SR2

Applications
- Schools
- MOD
- Police station and secure units
- Airports and seaports
- Utility suppliers

Panel dimensions
- Heights: 2030, 2440, 3000 mm
- Panel width: 2515 mm
- Mesh size: 76.2 x 12.5 mm
- Wire diameter: 4 mm (horizontals and verticals)
- Top edge projection: Nil – wire is flush on all edges

Description
The Securus SR1 system is ideal for high security applications including schools, police stations, utility suppliers and any application where physical security is needed. This system conforms to BS 1722: Part 14: Category 4 and carries certification to LPS 1175 SR1 as required for Secure by Design. All Securus systems are compatible with the active anti-intruder range.

Finish
Galvanised and polyester powder-coated after stringent cleaning and treatment to give a well-adhered coating of 60 microns. Or available as galvanised only which is a high aluminium content galvanising giving four times the life of BS 443. This finish is free of the sharps and irregularities found in the hot dip galvanising process. RAL range of colours available.

Specification clauses
Please contact CLD Fencing systems on 01270 764751.
Securus Posts
For the Securus system, CLD offers their own unique state of the art post. A roll formed section designed to facilitate ease of installation providing maximum security when combined with a full cover clamp strip and stainless steel fasteners.

Description
The CLD ‘Securus’ post is a flanged rolled hollow section formed out of a high grade steel strip (40% higher yield than conventional hollow section), cold rolled with 25mm integral slotted frames each side with a centre recess, allowing panels to be fitted independently of each other providing a flush face and reducing distortion in the panel. Panels are attached using clamp bars stainless steel cup square bolts, washers and permacone nuts.

Finish
All posts are hot dipped galvanized and polyester powder-coated either to match or contrast with the panels.

Dimensions
Posts: 80 x 60mm special flanged section (Patent applied for)
Corner posts: 80 x 80mm RHS section flanged
Post centres: 2520mm

Sloping ground
Panels can be stepped as required on the post system. Where gradients exceed 1:16, it is recommended that taller panels are either part-buried or additional posts are used. Panels can also be sloped to the following gradients, within the tolerance of the post section.
- 2.4m high 1 in 60
- 3.0m high 1 in 75

Variations
The posts are available in different lengths to accommodate panel heights and ground conditions:
- base plated
- cranked or straight extensions for barbed or razor wire
Securus SR2™
High security flat panel system to LPS 1175 Category 2

Features
- Double layer mesh system
- Unique rolled post design
- RAL colours available

Applications
- Secure units
- High risk sites
- Government buildings
- Utility suppliers

Panel dimensions
- Heights: 2030, 2440, 3000 mm
- Panel width: 2515 mm
- Mesh size: 76.2 x 12.5 mm
- Wire diameter: 4 mm (horizontals and verticals)
- Top edge projection: Nil – wire is flush on all edges

Description
The Securus SR2 system is a high security rated fence to LPS 1175 Category 2. This system is ideal for applications where governing bodies dictate a security standard which conforms to global standards. Consisting of two panels of Securus mesh attached to one another at primary and secondary posts, plus additional joining clamps. All with stainless steel fixings, creating a formidable barrier and allowing a high level of visibility. All securus systems are compatible with the active anti–intruder range.

Finish
Galvanised and polyester powder-coated after stringent cleaning and treatment to give a well-adhered coating of 60 microns. Or available as galvanised only which is a high aluminium content galvanising giving four times the life of BS 443. This finish is free of the sharps and irregularities found in the hot dip galvanising process. RAL range of colours available.

Specification clauses
Please contact CLD Fencing systems on 01270 764751.
Securus Posts
For the securus system, CLD offers their own unique state of the art post. A roll formed section designed to facilitate ease of installation providing maximum security when combined with a full cover clamp strip and stainless steel fasteners.

Description
The CLD ‘Securus’ post is a flanged rolled hollow section formed out of a high grade steel strip (40% higher yield than conventional hollow section), cold rolled with 25mm integral slotted frames each side with a centre recess, allowing panels to be fitted independently of each other providing a flush face and reducing distortion in the panel. Panels are attached using clamp bars stainless steel cup square bolts, washers and permacone nuts.

Finish
All posts are hot dipped galvanized and polyester powder-coated either to match or contrast with the panels.

Dimensions
Posts: 80 x 60mm special flanged section (Patent applied for)
Corner posts: 80 x 80mm RHS section flanged
Post centres: 2520mm

Sloping ground
Panels can be stepped as required on the post system. Where gradients exceed 1:16, it is recommended that taller panels are either part-buried or additional posts are used. Panels can also be slopped to the following gradients, within the tolerance of the post section.
2.4m high 1 in 60
3.0m high 1 in 75

Variations
The posts are available in different lengths to accommodate panel heights and ground conditions:
• base plated
• cranked or straight extensions for barbed or razor wire
Active anti-intruder systems

Maximum security

Features
✓ Physical deterrent
✓ Integrates with all CLD fence systems
✓ Up to BS 1722-4

Applications
✓ MOD sites
✓ Prisons
✓ Airports and seaports
✓ Data centres

Description
CLD are able to enhance and increase the security level of fencelines by offering a wide range of security topping systems that can be manufactured as an integral part of the system or supplied later as a bolt-on attachment, ranging from simple strands of barbed wire to double mesh cranks and coiled razor wire up to 1 m in diameter.

Finish
Most toppings are in a self finish colour of galvanised or aluminium, with options of having the steelwork in galvanised only or polyester powder-coated to match the fence colour. This anti-climb rotating spike is available in aluminium only or polyester powder-coated to match fence colour.

Fixing
All of the range of anti-intruder security toppings available from CLD are compatible with any of our fence systems. We can offer design and technical advice to assist with your application.
Active anti-intruder systems

High level security systems

- Anti-climb rotating spike
- Cranked Dulok extension at oil works
- Unique flat form razor extension being less obtrusive than a cranked extension
- 90º Securus eaves crank for secure unit
- Saw tooth spike – popular option on gates
- Exemplar mesh clad "Y" crank for animal enclosure
- 3 strands of barbed wire on straight extension

Telephone +44 (0)1270 764751  Fax +44 (0)1270 757503  E-mail sales@cld-fencing.com  www.cld-fencing.com

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