



SOLUTIONS FOR IMPROVED HABITATS.
BY DESIGN.

ABOUT A-1

A-1 Fence Products Company, since its inception in 1998 has been an industry leader in providing perimeter security solutions in India and across the globe. Being the largest manufacturer of fencing products in India, our core competency lies in being able to provide high quality products, tailored and designed to customer needs and delivered to meet their schedule. A-1 Fence has supplied perimeter security solutions around the world, including India, United States, Canada, United Kingdom, Ireland, Spain, France, Italy, Poland, Belgium, Norway, SouthAfrica, Hong Kong, Australia, UAE and other GCC countries.

WHY A-1?







UNICO SERIES

A-1 Fence Unico Weld Mesh System is an elegant and durable type of Fence which beautifies the borders which it secures. Available in multiple colours to compliment the design theme of the perimeter. Aesthetic appeal of these fences are greatly enhanced by patterns on wire, V-bends, and special profiled posts used for fittings. The panels are powder coated which improves resistance to corrosion and thereby imparting longevity.







UNICOPrima®

Modular Fencing Systems for Aesthetic Perimeter Demarcation

UNICOPrima is a modular weld-mesh fencing system that combines affordability with elegance and durability. Modular design allows endusers and DIY enthusiasts to procure component panels, posts and accessories; for assembling these fences quickly on site without having to bother with on-site welding and painting.



APPLICATIONS



Bungalows



Parks & Playgrounds



Schools & Colleges



Commercial & Residential Buildings



Walkways



Factories & Warehouses

FEATURES



Distinctive and unique profiled fence post with quick clip-on installation. No accessories required for panel to post fixing & easy on corners.



Modular component design for on-site assembly and installation without painting or welding.



Multiple height options - Use 4 ft high panels as wall-tops, or the 6 ft panels for ground-up fencing.



Choice of Colour - mix and match panels and posts for innovative patterns.



UNICO finish - Bright and vibrant UV resistant colours, provide long life, resistant to fading, corrosion resistance, elimination of re-painting, freedom from peeling.



Mass-produced in a factory on automated machines - Uniform and long-lasting welds, dimensional fidelity for field assembly.

PARAMETER	MINI	REGULAR	MAXI
MESH APERTURE	50 mm x 200 mm		
PANEL HEIGHT	1260 mm	1560 mm	1860 mm
PANEL WIDTH		2500 mm	
POST C-C		2560 mm	
POST LENGTH	1300 mm	1600 mm	1900 mm
POST TYPE		UNICO Prima	
ANCHORS	M12 x 150 mm		



Modular Fencing Systems for Professional Perimeter Demarcation

UNICOPro is a modular weld-mesh fencing system that combines affordability with strength and durability. Modular design allows end-users and DIY enthusiasts to order components and assemble the **UNICOPro** fence on-site without any welding or painting in a matter of hours.

UNICOPTO fences offer the **UNICO**Platform benefits of robot-welded strong metal meshes and eyecatching finish, that is easy to hose down, UV resistant, corrosion-free and does not peel or require repainting after every monsoon. Multiple options in sizes and colours enable interesting and creative permutations to achieve configured solutions that are site-specific and aligned to an overall design theme.



APPLICATIONS



Bungalows



Parks & Playgrounds



Schools & Colleges



Commercial & Residential Buildings



Sports-Clubs & Stadia



Factories & Warehouses

FEATURES



Tall and robust H profiled fence post enables taller (8ft) fencing, add-ons. It is a tougher challenge to intrusion.



Modular component design for on-site assembly and installation without painting or welding.



Choice of Colour - mix and match panels and posts for innovative patterns.



UNICO finish - Bright and vibrant UV resistant colours, provide long life, resistant to fading, corrosion resistance, elimination of re-painting, freedom from peeling.



Mass-produced in a factory on automated machines - Uniform and long-lasting welds, dimensional fidelity for field assembly.

SPECIFICATIONS

PARAMETER	MINI	REGULAR	MAXI	TALL
MESH APERTURE		50 mm x	200 mm	
PANEL HEIGHT	1260 mm	1560 mm	1860 mm	2460 mm
PANEL WIDTH		2500	mm	
POST C-C		2515	mm	
POST LENGTH	1300 mm	1600 mm	1900 mm	2500 mm
POST TYPE	UNICOPro UNICOPro			
ANCHORS		M12 x 1	150 mm	

UNICOShield®

Modular Fencing Systems for Secure Perimeter Demarcation

fencing system that is designed to deliver security, without compromising elegance and durability. The close lattice geometry makes it impossible for any intruder to grip the fence and climb over. It also makes it difficult for anyone to use wire cutting tools to create an opening. The fence simply does not provide sufficient space for operating a cutting tool.



APPLICATIONS



Bungalows



Schools & Colleges



Factories & Warehouses



Hotels & Resorts

FEATURES



Anti-climb panel that provides assured security.



Modular component design for on-site assembly and installation without painting or welding.



Choice of Colour - mix and match panels and posts for innovative patterns.



UNICO finish - Bright and vibrant UV resistant colours, provide long life, resistant to fading, corrosion resistance, elimination of re-painting, freedom from peeling.

Mass-produced in a factory on automated machines - Uniform and long-lasting welds, dimensional fidelity for field assembly.

PARAMETER	MINI	REGULAR	MAXI	TALL
MESH APERTURE		76.2 mm x 12.7 mm		
PANEL HEIGHT	1264 mm	1560 mm	1842 mm	2452 mm
PANEL WIDTH		2500 mm		
POST C-C		2515 mm		
POST LENGTH	1300 mm	1600 mm	1900 mm	2500 mm
POST TYPE	UNICOShield			
ANCHORS	M12 x 150 mm			



Premium Modular Fencing Systems for Aesthetic Perimeter Demarcation

UNICOCrown is a premium modular weld-mesh fencing system that uses unique design elements to provide an eye-catching fence. The panels incorporate a unique double wire design making it extremely strong and sturdy. Modular design allows endusers and DIY enthusiasts to order all the component parts and assemble the **UNICOCrown** fence on site without any on-site welding or painting in a few hours.



APPLICATIONS



Bungalows



Schools & Colleges



Historical Places



Hotels & Resorts

FEATURES



Distinctive and unique panel design resulting in exclusive & eye-catching facade



Modular component design for on-site assembly and installation without painting or welding.



Distinctive and unique panel design resulting in high strength against intrusion



Choice of Colour - mix and match panels and posts for innovative patterns.



UNICO finish - Bright and vibrant UV resistant colours, provide long life, resistant to fading, corrosion resistance, elimination of re-painting, freedom from peeling.

Mass-produced in a factory on automated machines - Uniform and long-lasting welds, dimensional fidelity for field assembly.

SPECIFICATIONS

PARAMETER	MAXI
MESH APERTURE	65 x 200 mm
PANEL HEIGHT	1886 mm
PANEL WIDTH	2015 mm
POST C-C	2095 mm
POST LENGTH	1890 mm
POST TYPE	UNICO Crown
ANCHORS	M12 x 150 mm



Modular Fencing Systems for Illuminated Perimeter Demarcation

fencing system with built-in illumination. The fence posts are designed with inbuilt energy efficient LED lights that provide for a great option for parks and gardens and recreational outdoor areas that are used after sunset. Modular design allows endusers and DIY enthusiasts to order components and assemble the UNICOAura fence without any on-site welding or painting in a few hours. The electricals are designed to be easily connected to the supply.



APPLICATIONS



Bungalows



Parks & Playgrounds



Schools & Colleges



Commercial & Residential Buildings



Walkways



Factories & Warehouses

FEATURES



Illuminated landscape - Distinctive fence post available both with and without lighting.



Modular component design for on-site assembly and installation without painting or welding.



Multiple height options - Use 4 ft high panels as wall-tops, or the 6 ft panels for ground-up fencing.



Choice of Colour - mix and match panels and posts for innovative patterns.



UNICO finish - Bright and vibrant UV resistant colours, provide long life, resistant to fading, corrosion resistance, elimination of re-painting, freedom from peeling.



Mass-produced in a factory on automated machines - Uniform and long-lasting welds, dimensional fidelity for field assembly.

PARAMETER	MINI	REGULAR	MAXI
PANEL HEIGHT	1260 mm	1560 mm	1860 mm
PANEL WIDTH		2500 mm	
POST C-C		2530 mm	
POST LENGTH	1300 mm	1600 mm	1900 mm
POST TYPE		UNICO Aura	
ANCHORS		M12 x 150 mm	

WALL SPIKES

Wall spikes are specially designed razor blades which can be added on wall tops and make climbing the walls very difficult.





GATES

Gates are access points along the perimeter. A-1 Fence offers different types of Gate solutions depending upon the site requirements, beautification & security.



APPLICATIONS



FEATURES







TYPES



SINGLE LEAF SWING GATE



TRACK SLIDING GATE





TELESCOPIC GATE



BOOM BARRIER

Gates are access points along the perimeter. A-1 Fence offers different types of Gate solutions depending upon the site requirements, beautification & security.



APPLICATIONS



FEATURES







Technical data	Sector 3	Sector 4.5	Sector 6
Input voltage		220V - 240V AC ± 10 %, 50 Hz	
Motor voltage		12V DC	
Motor power supply		Battery driven - 2A charger	
Boom pole length & raise time	3 m - 1.2 sec	4.5 m - 3 sec	6m - 3 sec
Daily operations - max		3000	
Duty cycle - mains present	80 %		

UNICOLink FENCE

UNICOLink fence is one of the most traditional and versatile form of wire fencing. It's a fence whose fabric is made out of woven wire forming a diamond (rhombus to be precise) shaped mesh. In different colours, it blends well with its surroundings.



APPLICATIONS



Playcourt Demarcation

FEATURES



SPECIFICATIONS (IS 2721)

	Parameter	Specifications
Wire	Diameter	Galvanized: 2.5 mm - 4 mm PVC coated: 3 mm - 5.2 mm
Chain link fabric	Mesh size	25x25 mm, 30x30 mm, 40x40 mm, 50x50 mm, 63x63 mm, 75x75 mm
Circular hollow section post (As per IS1161)	Dimensions	76x3 mm, 60x3 mm, 48x2 mm
Chain link fabric	Roll height	900 mm - 4000 mm
Fabric coating	Finish	Heavy galvanized, PVC coated, Glued PVC, Fusion bonded or PA6
Post coating	Finish	Powder coating, Dual coating, Thermoplastic coating

HONEYCOMB FENCE

A-1 Fence introduced a woven wire mesh fabric which is more cost efficient and stronger than conventional chain link fence. Owing to the neat honeycomb structure this mesh makes, it is called Honeycomb Fence®.



APPLICATIONS



FEATURES



Parameter	Specifications
Diameter and tolerance	2.7 mm ±0.1 mm
Mesh size	80X100 mm,100X120 mm
Dimensions	Straining post - 76x3 mm
	Intermediate post - 60x3 mm
Dimension	48 x 2 mm
Finish	Heavy galvanized / PVC
Finish	Hot dig galvanized upto 610 GSM
	Diameter and tolerance Mesh size Dimensions Dimension Finish



UNICORobusta

UNICORobusta is a decorative pattern on a window or door consisting of horizontal and/or vertical bars that divide the larger sheet of glass into smaller panes



APPLICATIONS







Fall Protection

FEATURES



Modular



	Parameter	Specifications
Weldmesh panel	Diameter	8 mm - Vertical wire 6 mm - Horizontal wire
Weldmesh panel	Dimensions	1397 mm - Width 1702 mm - Length
Sub frame (mount in wall)	Cross section Thickness Length	138 mm x 57 mm 2 mm 2000 mm
Mainframe (welded with grill)	Cross section Thickness	45 mm x 45 mm 4 mm
Polyester powder coating	Thickness	60 to 80 microns

TRELLIS WALL

Trellis wall are used in high rise residential and commercial building alongside approach ways, lawns and gardens. They may be indoors or outside, freestanding or attached to an existing wall, and come in a great variety of sizes. They require no structural maintenance and provide insulation keeping the building's inside temperature consistent. The wires are galvanised and powder coated improving its corrosion resistance.



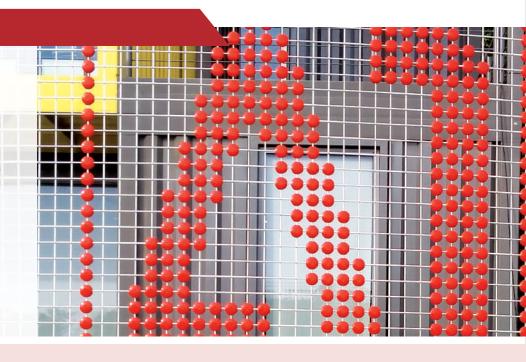
TREE GUARD

Tree guards are used to protect and demarcate tree saplings in the early stages of their growth and help in beautification of the vicinity. The spiral wound wire helps provide rigidity to the structure while maintaining good aesthetics and its modular design ensures easy logistical handling. Galvanised and powder coated wire mesh prevents formation of rust further improving its durability.



PIXEL FENCE

Pixel fence is an artistic fence which consists of colourful "pixels" clipped to the fence in a certain manner to produce a design or an image which beautifies the fencing system and thus makes it unique.



APPLICATIONS





Aesthetic Demarcation

Facades

FEATURES



	Parameter	Specifications
Wire	Diameter	Upto 5 mm
Weldmesh panel	Mesh size	50 mm x 50 mm
Pixel sizes	Diameter	40 mm
Pixel colours	Colour pallette	21 colors are available

ARCHITECTURAL GABIONS

Architectural gabions are a combination of weldmesh panel & gabions which imparts uniqueness and high rigidity to the system.





APPLICATIONS





Aesthetic Demarcation

Garden/Spaces Beautification

FEATURES



	Parameter	Specifications
Wire	Diameter	4 mm & 4.5 mm
Weldmesh panel	Mesh size	75 mm X 75 mm
Wall	Height	1000 mm to 3500 mm
Wall	Width	450 mm & above
Coating	Finish	Galvanized +PVC / Powder coated

ELECTRIC FENCE

Electric Fence is as the name suggests a fence powered by Electricity. It constitutes of bare conductive wire supported by poles at regular intervals and insulated from the wire. The wires give a powerful yet safe shock to anyone who touches it. Shorting or cutting of wires triggers the alarm system.



APPLICATIONS







Residential Complexes

FEATURES



Intrusion Detection System



Non Lethal Shock



Integratable with Cameras, Radars



SPECIFICATIONS (ENERGIZER)

Parameter	Specifications
Voltage	5000 - 9000 Volts
Energy	4 Joules / zone
Duration of pulse	1.2 secs
Duration of shock	0.2 milli secs

LIMINAL-K

LIMINAL-K (Vibration Sensor) is a fence/wall mounted intrusion detection sensor. It raises an alarm against intrusion attempts like climbing, cutting, breaking etc. by measuring the kinetic energy imparted to the fence/wall. The sensor along with the Sensor Master & the VIGIL Software makes a complete perimeter intrusion detection system.



APPLICATIONS



FEATURES



Accurate detection



Software zoning



Customized sensitivity



Weather proof



Configurable redundancy



Reduced nuisance alarms due to advanced detection algorithms.



CCTV & Alarm Integration ready

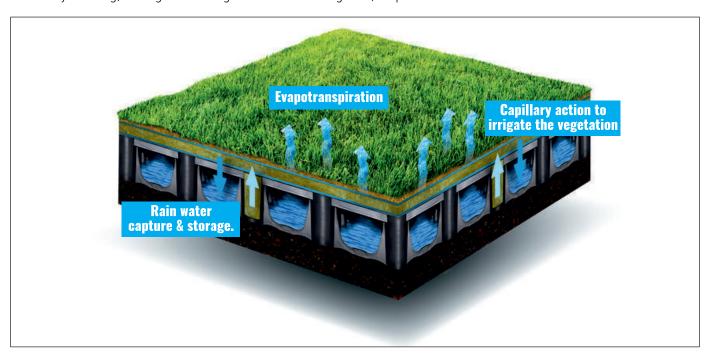
Parameter	Specifications
Sensor	Length - 87 mm
	Width - 45 mm
	Height - 25 mm
Detection range	2.5m on either side
Ingress protection	IP67
Operating temperature	-30°C to +60°C
Customisable	Sensitivity

PERMAVOID

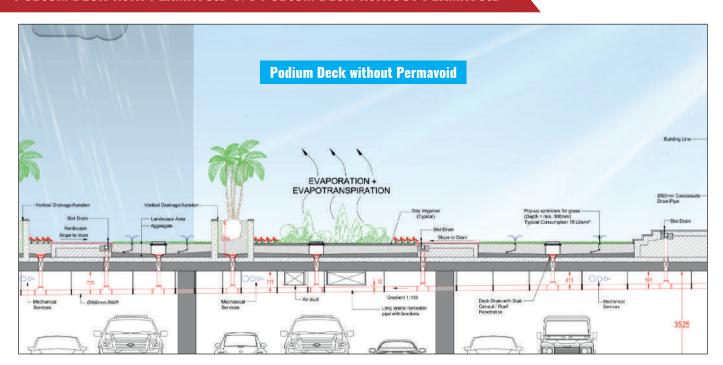


In today's world where cities become denser every day, the necessity to assign multiple functions to urban areas increases rapidly. With every design, it is important to incorporate storm water management, protect water quality and facilitate urban cooling by supporting green infrastructure.

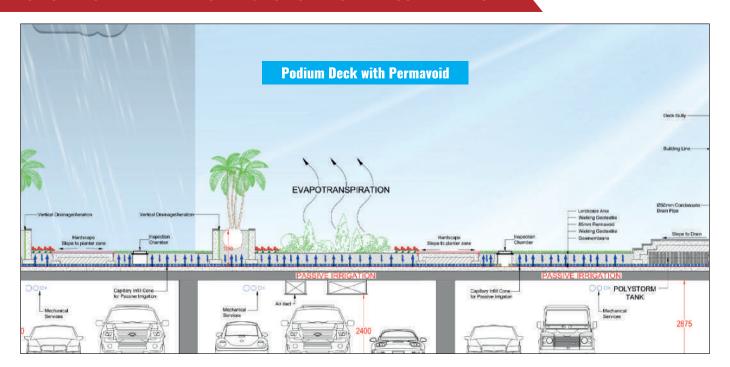
At A-1 Fence, we have partnered with international water management expert, Permavoid, to be able to offer solutions that help create healthier cities. The Permavoid range of products and systems are capable of creating circular nature-based solutions for sustainable water management in metropolitan areas. Solutions encompass blue-green roofs, multifunctional podium decks, sports pitches and SUDs aiming at water-sensitive design. Together with Permavoid, we make sure that no precious water goes to waste by catching, storing and reusing stormwater for irrigation, evaporation or infiltration.



PODIUM DECK WITH PERMAVOID V/S PODIUM DECK WITHOUT PERMAVOID



PODIUM DECK WITH PERMAVOID V/S PODIUM DECK WITHOUT PERMAVOID



KEY BENEFITS

- Zero Operational & Maintenance cost
- Local Authority requirement for stormwater attenuation is used in the Permavoid installations. RCC tanks, pumps, and mechanical plant/equipment are therefore not required to reduce structural/sub-structure considerations
- Storm/surface water discharge to the external Authority drainage network is controlled/attenuated through the Permavoid installations and provides for passive irrigation
- Storm/surface water protection devices (e.g. silt traps/interceptors) can form part of the Permavoid installation
- Overflow/discharge pipework from the Permavoid system can be fixed based on the site locations
- Landscape drainage is mainly confined within the landscaped zone
- Mechanical irrigation can be reduced by utilizing the passive irrigation potential of the Permavoid solution in turn reducing water consumption
- Significantly reduces access and maintenance from landscape drainage
- Additional usable/sellable space is made available (parking etc.)
- Compliance with regional authority

PERMAVOID 150

For high rainfall areas

Permavoid 150 is a modular interlocking polypropylene void-former. It was originally designed as a high strength, lightweight and open sub base replacement system. The system is characterized by an exceptionally high compressive strength and bending resistance.

The units connected with PermaTies create a rigid horizontal structural 'raft', ideal for multifunctional subbase applications.



The system has evolved to a subbase replacement system with aeration, water conveyance, storage, infiltration and irrigation functionality. It effectively combines its high compression strength with the very high void ratio (95%), providing reliable and efficient water conveyance and storage in subbase constructions in SUDS, road-, sports- and rooftop applications.

Using the capillary fibre technology the system is not only suitable for water attenuation and conveyance, but also functions as a sub-soil capillary irrigation system, creating a constant soil moisture content for plants, turf grass or equestrian surfaces.

The units are designed with tomorrow's world in mind. Made from 100% recycled materials now, fully deconstructable and reusable, and again 100% recyclable in the future.

FEATURES



Creates a 150mm Sustainable Urban Drainage Systems (SuDS)



Replaces gravel subbase, creating a lightweight sub base with 95% open space



Suited for stormwater catchment, conveyance, attenuation and irrigation of soil above the system



Suitable for water management (catch-store-reuse) in gardens, public green space, greenroofs, podum decks, sports, play and equestrian arenas

PERMAVOID 85S

Permavoid 85S is a 85mm high modular interlocking void former designed for use as a combined drainage component and subbase replacement system.

The system is characterized by an exceptionally high compressive strength and bending resistance. The units connected with PermaTies create a rigid horizontal structural 'raft', ideal for multifunctional subbase applications.



The system has evolved to a subbase replacement system with aeration, water conveyance, storage, infiltration and irrigation functionality. It effectively combines its high compression strength with the very high void ratio (95%), providing reliable and efficient water conveyance and storage in subbase constructions in SUDS, road-, sports- and rooftop applications.

Using the capillary fibre technology the system is not only suitable for water attenuation and conveyance, but also functions as a sub-soil capillary irrigation system, creating a constant soil moisture content for plants, turf grass or equestrian surfaces.

FEATURES



Creates a shallow (85mm) Sustainable Urban Drainage Systems (SUDS)



Replaces gravel subbase, creating a lightweight sub base with 95% open space



Suited for stormwater catchment, conveyance, attenuation and irrigation of soil above the system



Suitable for water management (catch-store-reuse) in gardens, public green space, greenroofs, podum decks, sports, play and equestrian arenas

APPLICATIONS - PERMAVOID 85S & 150







Ground Irrigation/Trees



Rooftops of Residences or Corporate Buildings



Subsurface drainage for roads



Sports grounds

ANS GLOBAL

ANS Global is the world's leading living wall specialist, having completed over 1,800 projects in 29 countries.





WHAT WE DO

ANS Global manufacture and install a unique natural soil living wall system

Our living walls are used as sustainable rainscreen cladding facades, and interior design statements that promote wellbeing

We provide a biophilic solution to today's environmental challenges

ANS PROCESS



Design: A successful living wall project starts with a through planning and design stage .Living walls are such a visual feature so our design team will prepare a range of visualisations to help you to decide on exactly what plant mix and features you want to include. Our full proposal includes project cost, visualisations and time scale. This puts you in control of the process and gives you confidence to sign off the proposal.



Planting: Once our proposal has been signed off we produce full planting plan in our bespoke software. Our team will select the plans needed for the living wall and plant them into the ANS living wall modules. As the modules are planted they are placed vertically (pictured) to fill out and grow prior to delivery to site. We normally allow minimum establishment time of 3-4 weeks for internal living walls and 6-8 weeks for external.



Installation: Our standard method is to fix back to an existing structure, such as concrete or brick work. We can also add steel or timber frame if required. The living wall modules are pregrown providing instant impact from the day of installation. We have improved the method over the years and can always find a way to bring your dream to reality. Our friendly team is renowned for their fast work and marinating a neat and tidy site.



Maintenance: All living walls require a maintenance schedule which will be tailored to each project based on the location, aspect, plant mix, light levels and seasonal changes. Our teams will remove any airborne weeds, dead leaves and check for pest and diseases. The irrigation is recalibrated for each season. We will always maintain a tidy workspace and our friendly team will do their best to answer any questions while on site.

We offer a turn-key solution with no hidden extras. Our team will support you through your living wall project to ensure successful completion.

GLIMPSE OF A FEW PROJECTS









- CUSTOMER BASE
- MANUFACTURING | SALES OFFICE

HEADQUARTERS

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