



The Nation's Largest
Louver Manufacturer





Why Choose Us?

For over fifty years, we have been engineering and manufacturing industrial equipment screening. PalmSHIELD has fabricated over 20,000 square feet of screening each year. You can find our work in all 50 states, from the Las Vegas strip to the streets of New York. PalmSHIELD is the ultimate architectural equipment screening.

Our fabrication division operates in an 80,000 square foot facility that provides complete fabrication and coatings. Our team is led by a seasoned group of certified welders, coaters, project engineers and drafters. All we do is custom fabricate architectural products. Perforated metal, square woven and weld mesh, grating, industrial louvers and cable railings are some of our top products.

Our systems are engineered to overcome all of the challenges in delivery, installation and sustainability. PalmSHIELD is unique in that we focus on stand-alone screen systems and not just louvered panels or standalone louver profiles. Having installed hundreds of screen wall systems and thousands of gates, we can engineer your system.

What Makes Us Unique

What sets PalmSHIELD above all others is:

- Custom fabrication. Every project is custom fabricated.
- Our picture frame design. We are the only fully-framed louvered system.
- Ease of installation. Our systems are fully shop assembled, disassembled and packaged.
- Designed & Engineered. PalmSHIELD is engineered to meet IBC codes for wind loads.
- Gates first. Our gates are designed first as gates then we install our panels.



PalmSHIELD Engineering

PalmSHIELD has been working with engineers for over 20 years to ensure that our louvers perform structurally and do not interfere with the mechanical performance of the equipment the louvers are intended to screen. Mechanical equipment may include compressors, condensers, chillers, HVAC, compactors, breakers, meters, containers, generators, and like-kind equipment. Each one of these unique pieces of equipment has requirements specific to the volume of air surrounding the equipment and the exchanging of that air which allows for dispersing heat.

PalmSHIELD mechanical equipment screen has been engineered to meet the standard in openness for maximum air flow while still maintaining 100% direct visual screening. The percentage of openness is the actual openness between the louvers over a specific area. The smallest opening between two louvers is the greatest factor impacting the percentage of openness. PalmSHIELD louvers provide 64% free area. This meets and exceeds most equipment manufacturers' required percentage of openness. In other words, with 4" tall louvers spaced 3 1/2" on center, the smallest opening is 2 1/4". Boiled down, every 3 1/2" of travel, there is a 2 1/4" opening. This ultimately translates into approximately a 64% free area.

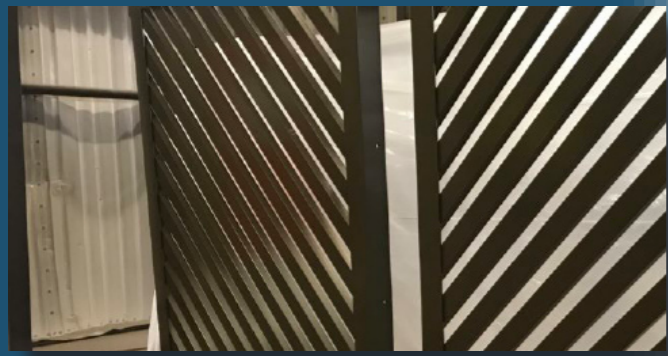
OUR PRODUCTS

HORIZONTAL LOUVERS



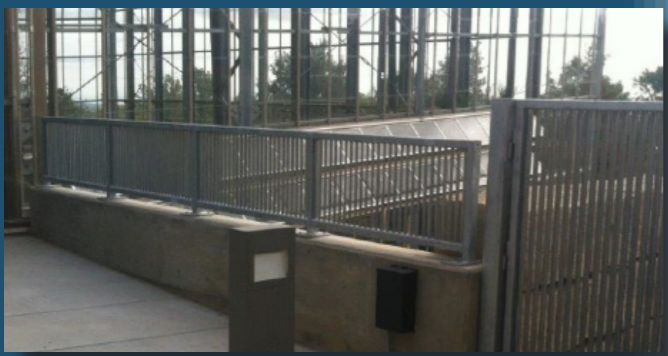
PalmSHIELD horizontal louvered screening is perfect for providing excellent ventilation while keeping items out of sight from others. Using the industry's only picture frame design, each panel is rigid enough to stand on its own. Maintaining a consistent design throughout the system, PalmSHIELD can be configured as a series of screens, grills, swing gates and even sliding gates. Horizontal louvered panels are custom fabricated to each application, allowing end users to select the amount of visibility and air flow by varying louver spacing.

DIAGONAL LOUVERS



PalmSHIELD's diagonal louvered panels provides a real eye-catching appeal. When architects and designers are looking for that really unique design which may be the focal point, this design is perfect for enclosing outdoor patios and cafes. These panels provide some needed shade while also forming some appealing shadows. Diagonal louvers may also be a perfect solution for mechanical equipment and trash enclosures when more traditional designs just won't do. Its diagonal louvers or slats will form a pattern throughout the system that really gets noticed.

VERTICAL LOUVERS



Vertical louvers are very popular for mechanical equipment screen enclosures and rooftop equipment screening when designers and architects want to match an existing design. PalmSHIELD recognizes roof panels and building eaves have a vertical pattern in panel ribbing or ridges. Where the louvered screening aligns closely to roofing and eaves, designers want to continue this pattern for a consistent look. The challenge with a vertical louver design is that using traditional single profile louvers will not consistently provide the necessary screening. The challenge with a vertical louver design is traditional single profile louvers do not provide 100% screening. Our nested angle designed louvers provide 100% screening from any position.

BAR GRATING



Bar grating is popular as a vertical infill material due to its real three-dimensional appearance. With bars varying from 1" to 1-1/2" wide, it provides a great deal of depth. Bar grating consists of a series of bearing bars welded or pressed at various intervals to perpendicular cross bars to form a load-bearing panel. Panels are manufactured by welding, locked by swaging, or press-locked processes. A typical panel configuration has bearing bars that are spaced 1-3/16" on center with perpendicular cross bars spaced 4" apart (center to center). Bar grating is available in a wide selection of panel sizes, bar sizes and spacings, bar shapes and material types.

WIRE MESH

Woven wire mesh is made in a similar fashion to woven fabrics; woven together to create a wire mesh in different patterns. Welded wire mesh simply lays the vertical wires over the top of the horizontal wires and uses a welding process that fuses the two wires together. The most common materials used to create woven wire and welded wire mesh include carbon steel, galvanized steel, aluminum mesh and stainless steel. Heavier woven wires must be pre-crimped. The material remains very strong and firm after the crimping process.



PERFORATED SCREEN

With a wide variety of hole sizes, percentages of open area, high strength-to-weight ratio and aesthetic appeal, perforated metal sheets have endless applications such as enclosures, partitions, sign panels, guards, screens, and more. PalmSHIELD has been incorporating perforated metal panels in our exclusive PalmSHIELD frames and column systems for over 20 years. Perforated infill is perfect when you want to show a silhouette of what is behind your screening but nothing more. Playgrounds, mechanical equipment and divided walkways are perfect applications for this material. You can obscure what is behind the screen but you can still see others moving about. Perforated sheets also provides exceptional wind flow as hole sizes and on-centers can vary.



CABLE RAILING

PalmSHIELD cable railing is growing in popularity in new contemporary and modern architectural schemes. Designers like the look of this unique installation due to its slim and discreet appearance that leaves the eye to look beyond the railing. PalmSHIELD uses its own exclusive architectural cable design that is a real architectural wonder for cable railing. PalmSHIELD utilizes a single cable design where the cable is attached at the top of the panel and then strewn back and forth over a series of spools to a final and single tensioner at the bottom. This is a much more interesting and cleaner design than traditional cable railing.



DUMPSTER ENCLOSURES

Refuge dumpsters have a standard footprint and solid waste management companies require specific access and space around these dumpsters to remove the trash from the dumpsters, and this access and footprint are consistent. Our full packaged enclosures were made specifically to accommodate this standard footprint.



ARCHITECTURAL SWING GATE

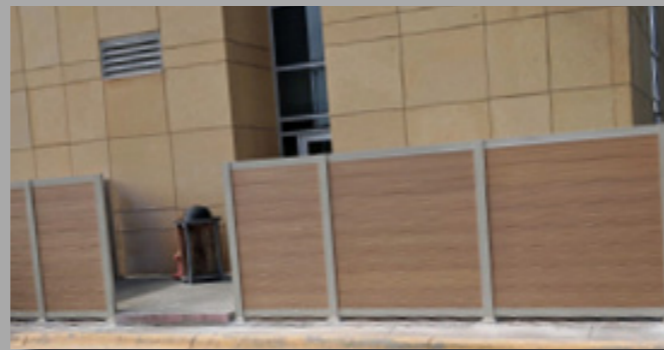
PalmSHIELD's louvers are not limited to our panels. We also make gates with our renowned louver system. Our architectural swing gates are a popular choice to get in and out of your louvered panel enclosure. Any building or system design can be easily complemented with our louvered architectural swing gate. Our gates are built as structural stand-alone gates and then we add our panels, placing no stress, twist or misalignment on our louvers.

ARCHITECTURAL SLIDE GATE

Architectural slide gates are rigid and constructed using PalmSHIELD's signature fully-framed structure. Add a louvered architectural slide gate on to your PalmSHIELD barrier or enclosure for consistent air flow and security for your system or facility. PalmSHIELD's architectural slide gates are custom made specifically for each job, allowing you to control the amount of ventilation and visibility that pass through the gate.

ARCHITECTURAL SOLID SCREENING

PalmSHIELD architectural solid screening offers solutions for attractive rooftop & ground screens, enclosures & gates for HVAC systems, dumpsters, mechanical equipment & more. Architectural solid screening is a great solution when you want a screen that complements your building's exterior finishes, providing 100% coverage of any equipment or dumpsters. If you do not require any degree of openness or ventilation, our solid screening is an excellent choice as it provides a wide array of infill options that are both appealing and economical. Available with vinyl, composite and aluminum infills.



Our Competitors

Want to see how PalmSHIELD compares to other leading louvered screen manufacturers? Check out our comparison below.

	Competitor A	Competitor B	Competitor C	PalmSHIELD
Louver Thickness	0.0625	0.0625	0.0938	0.125
	PalmSHIELD has the thickest material and has a steeper slope providing less visibility and increased air flow.			
Vertical Framing	1-1/2" flat bar	2"x 3/16" flat bar	2"x 1" channel	3"x 3" x 1/4" angle
	With a wider profile, PalmSHIELD provides a 2-3/4" weld able surface for attachment of louvers.			
Louver Top Cap	None	None	None	3"x 3" x 1/4" angle
	Top cap is critical for protecting louvers from falling debris, hail, etc. Also used as a structural member.			
Louver Bottom Cap	None	None	None	3"x 3" x 1/4" angle
	Bottom cap protects louvers from foot traffic and mowers.			
Solid Continuous Frame	None	None	None	Welded/Mitered
	Solid frame supporting louvers independent of the posts keeps the panels from deflecting and warping.			
Cross Bars	5/32" round steel	5/32" round steel	1/2"x 1/8" bar, 18" oc.	1" x 1/8" bar, 18" oc.
	Cross bar is critical in supporting louvers between vertical frameworks. PalmSHIELD has the largest in the class.			
Post Spacing	Not to exceed 72"	Not to exceed 60"	Not to exceed 72"	Not to exceed 60"
Post Size	4"sq (no wall thickness)	3"sq (no wall thickness)	4"sq x 5/16"	4"sq by 3/8"
	Wall thickness protects against wind and snow loading.			
Material	ASTM A 1011/A	ASTM A 1011/A,	ASTM B 209 6063-T6	ASTM B 209 6063-T6
Spec	1011/M	1011/M	ASTM B 221 60603-T6	ASTM B 221 60603-T6
Coatings	Bare steel - polyester powder coating	Bare steel - polyester powder coating	Powder coating ASTM 3363 2H	Powder coating ASTM 3363 2H
	ASTM 3363 2H	ASTM 3363 2H		





Contact Us Today for More Information

12330 Cary Circle
La Vista, NE 68128
531-329-4400
palmshieldlouvers.com

