

EXPANDED METAL

FOR COMMERCIAL & INDUSTRIAL USES

The demands experienced by products used for commercial and industrial applications require materials that ensure worker safety, are strong, corrosion resistant, have a long lifecycle. To meet these requirements, Wallner Expac manufactures expanded metals that are engineered to offer environmental solutions without compromising strength and durability.



COMMERCIAL & INDUSTRIAL APPLICATIONS FOR EXPANDED METAL

- ◇ Filters- Turbine, Cartridge, All-Metal
- ◇ Filtration- Oil, Air, Fuel, Hydraulic
- ◇ HEPA & HVAC Filtration
- ◇ Mist Elimination, Dust Collection
- ◇ Industrial Food Processing
- ◇ Traction Control/Slip Prevention- Scaffolding, Walkways, Steps
- ◇ Vent Mesh & Screen
- ◇ Safety & Security- Walls, Windows, Perimeters, Tools, Machinery

Keeping workers safe and ensuring a safe working environment are paramount. Operating dangerous machinery is made safer by installing expanded metal security screens. The openings can be adjusted to keep out fingers or contain welding sparks or ejected scrap. Slips and falls are the most common types of worksite accidents. Raised expanded metal has inherent anti-slip properties for applications where secure footing is critical such as scaffolding, elevated walkways, and stairs, or anywhere oils, ice, or other slick substances pool.



Industrial environments and jobsites are also dirty. Dust and other airborne contaminants require specialized filtration- such as turbine filters to ensure heavy equipment receives the airflow needed for operation. Expanded metal is strong and when used to filter lubricants such as oil or grease for heavy equipment, it functions as a pre-filter to strain large particulates from reaching the filter media. This not only maximizes the filter's efficiency, but also increases its lifecycle.



In hospitals and healthcare, expanded metal used in HEPA filters helps remove at least 99.97% of dust, pollen, mold, bacteria, and any airborne particles with a size of 0.3 microns. All-metal filters provide superior abilities to catch dust, are washable, and can be reused, yielding a product life cycle up to four times longer than conventional filters. These can be used in commercial HVAC systems. Special types are available for industrial food processing to prevent contamination by foreign objects.

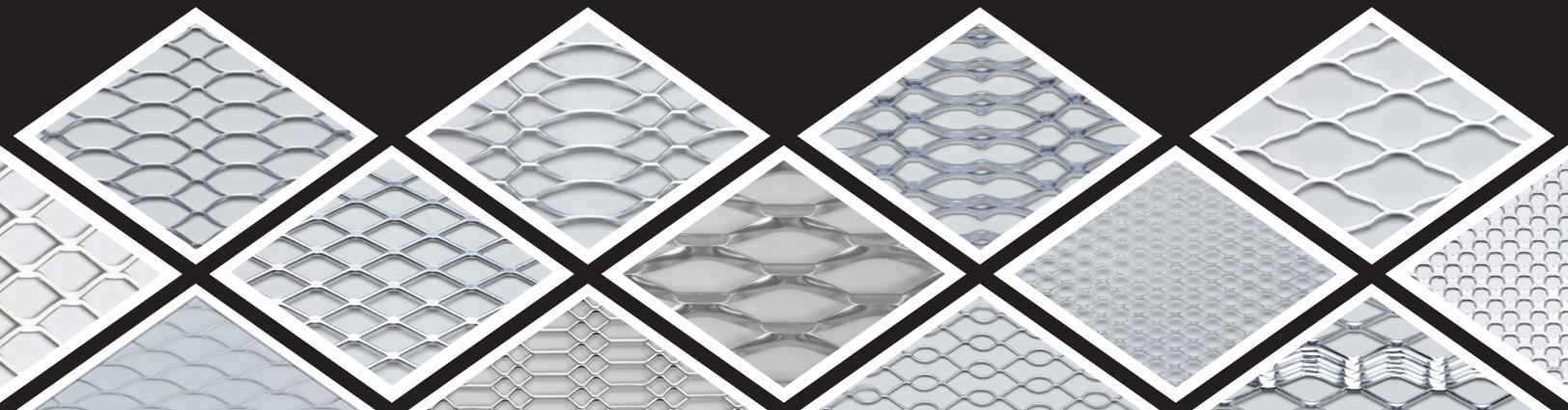
It is also used as vent mesh to keep out insects or animals from an attic or crawl space while allowing air to circulate. Other applications include tool cribs, perimeter fencing, and more.



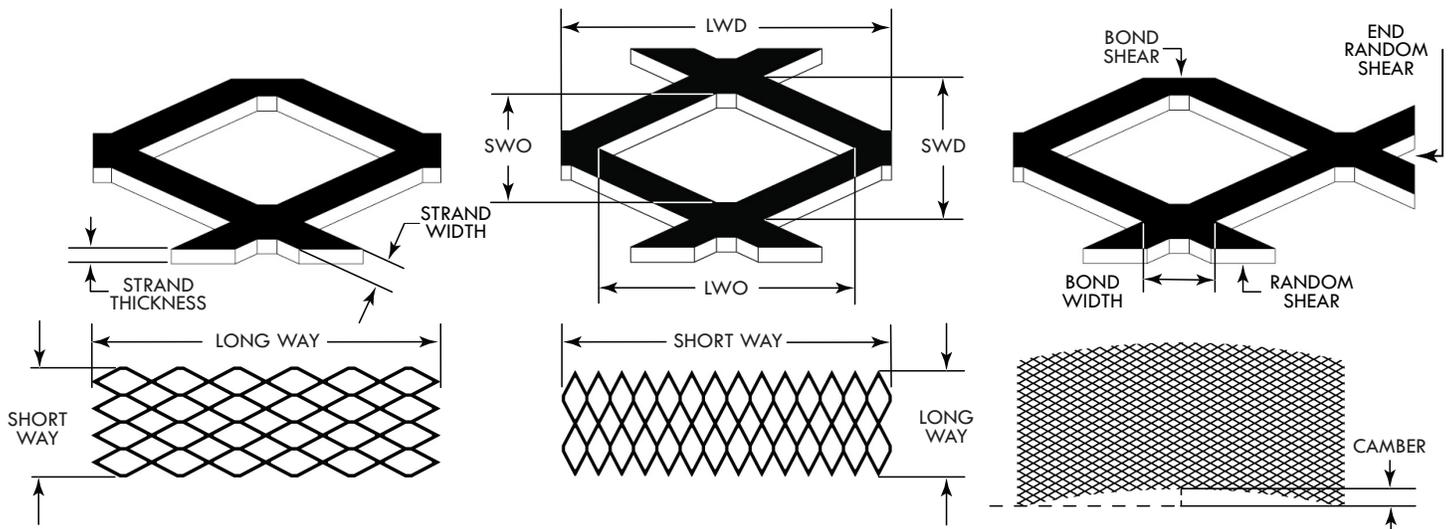
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CAPABILITIES AND PARAMETERS



EXPANDED METAL PARAMETERS

- ◇ Widths up to 48"
- ◇ Base material thicknesses up to 0.075"
- ◇ LWD up to 5.00"
- ◇ Metals: Aluminum, Steel, Copper, and more
- ◇ Paint, Powder Coat, Mill Finishes

SERVICES AND CAPABILITIES

Not all meshes are created equal. Our Shear-Form® service of manufacturing expanded metal yields no waste while providing a high surface area-to-volume ratio, pattern uniformity, and has no points or welds that can separate— all crucial for strong and lightweight material.

By its very nature, expanded metal has an open area percentage and high strength-to-weight ratio, both of which can be optimized to meet the application's needs. Engineered to precise specifications in our U.S.-based, ISO-9001 certified plants, our scalable manufacturing lines and responsiveness allow us to rapidly produce expanded metal sheets with tunable parameters to meet customer specifications. Because we design and build our own expanders, we can tightly control the manufacturing process and fine tune all specifications.

Our on-site tooling facilities support our manufacturing with post-production services including:

- ◇ Wire EDM
- ◇ Surface and OD grinding
- ◇ Precision inspection equipment
- ◇ CNC machining, lathes, radial drills
- ◇ Stamping, Forming, Flattening, Slitting, Welding
- ◇ Engineering & Design
- ◇ Customized patterns can be created

ADDITIONAL USES FOR EXPANDED METAL

- ◇ Safety & Security
- ◇ Filtration- Gaseous, Fluids, Light, Sound
- ◇ Automotive Accessories
- ◇ Architecture & Construction
- ◇ Battery Technologies
- ◇ Lightning Strike Protection
- ◇ Agriculture
- ◇ Arts & Crafts
- ◇ Home Improvement
- ◇ Solar