

Expanded Metal Products

Expanded Metal is an intermediate raw material that allows light and air to flow freely through it and has more rigidity than the sheet from which it was produced. It is formed in an expanded metal press and produced from any malleable metal sheet product. The plate, sheet or coil is simultaneously slit and stretched into diamond-shaped openings. These openings are of uniform size and regularity.

Member firms of NAAMM's Expanded Metal Manufacturers Association (EMMA) Division produce expanded metal of different types for a variety of applications:

Regular (standard or raised) – the strands and bonds are set at a uniform angle to the plane of the sheet, giving it added strength and rigidity

Flattened – manufactured by processing regular expanded metal in a rolling mill, reducing the thickness of the original base metal

Decorative Meshes – have smaller diamond sizes, or unique-shaped openings

Architectural Meshes – have unique-shaped openings, appealing to architects and designers

Fine Mesh – a precise, miniature version of conventional expanded metal that can be manufactured from a wide range of raw material

Material suitable for manufacturing Expanded Metal: aluminum, brass, copper, Cor-Ten, galvanized steel, gold, nickel, platinum, titanium and zinc

Applications

Expanded Metal is an extremely versatile product with numerous applications and even more to come. For example, expanded metal is used for billboard floors, sun shields, ceilings and roofs, decorative dividers, banister and other guards, air and fluid filters, EM/RFI, shielding battery cells, ventilation systems, strainers, satellite and radar antennas, partitions, outdoor furniture, speaker grills, security walls, ceilings, floors, doors, machine and window guards, fencing, shelving and racks, concrete reinforcement, containers, and greenhouse benches.

For design professionals from EMMA:

AIA Continuing Education

EMMA05A – Introduction to Expanded Metal and Applications
<http://ronblank.com/emm05a/intro/index.htm>

Technical Standards and Specifications

Standards for Expanded Metal (EMMA 557-99)



Expanded Metal Manufacturers
ASSOCIATION

A Division of



The following is a complete listing of **EMMA** member firms:

Alabama Metal Industries Corp.

Birmingham, AL
www.gibraltar1.com

Exmet Industries, Inc.

N. Vancouver, BC
www.exmet.com

Expanded Solutions, LLC

Oklahoma City, OK
www.expandedsolutions.com

Fisher & Ludlow

Burlington, ON
www.fisherludlow.com

Midwest Expanded Metal

Waconia, MN
www.midwestexpandedmetal.com

New Metals, Inc.

Laredo, TX
www.newmetals.com

Spantek Expanded Metal

Hopkins, MN
www.spantek.com

To order product literature, please call 630-942-6591, or visit our website: www.emma-assoc.org . School discounts are available.