



JMC Steel Group
Pipe and Tube Solutions

Solar Energy

Supporting • Framing • Protecting

The Strength to Deliver



What Makes JMC Steel Group Your Best Choice?

We've supplied major solar energy projects throughout North America, including our rooftop Solar Installation in Harrow, Ontario, a 650,000 sq. ft. roof-top solar project, the size of 12 football fields.

We're the largest independent manufacturer of tubular products in North America, with 11 production facilities in the U.S. and Canada.

- Number 1 in structural steel tubing (Hollow Structural Sections — HSS)
- Number 1 in electrical conduit
- One of the largest fence framework manufacturers in North America
- Number 1 domestic pipe producer in North America

JMC Value-Added Services

- Shortest production cycle times in the industry. If it's not in stock, we make it every 2-3 weeks.
- In-house hot galvanizing
- In-line galvanized tubing
- Ability to provide end-use lengths to specific customer needs

Galvanized Steel Products For The Solar Energy Industry

JMC Steel Group companies produce a wide range of products for the solar energy industry.

- Galvanized steel pipe and HSS tubing that provide the support structure and framing systems that hold your solar panels.
- Steel conduit and couplings that protect the electricity that you generate and transport within your facility.
- Steel fence framework that guards the perimeter of your facility to keep out unwanted visitors.

JMC Steel Group: Tough, lightweight, long lasting support and protection.

Protecting The Electricity You Generate and Transport

Electrical Conduit and Fittings

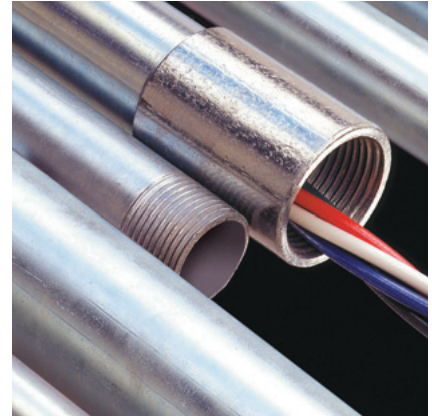
We produce a full line of steel electrical conduit and fittings that provide superior physical protection for the electric power that's generated and transported within your facilities.

Galvanized Steel Rigid Metal Conduit (RMC) in trade sizes from 1/2" to 6". RMC is the ultimate protection for electrical conductors

Steel Intermediate Metallic Conduit (IMC), available in 1/2" to 4" diameter, is a lighter weight alternative that still provides excellent physical protection.

Fas Trak Electrical Metallic Tubing (EMT) comes in 1/2" to 4-inch sizes. Fas Trak is a thinner wall steel conduit that offers good physical protection and is fast and easy to install.

Fittings — elbows, couplings and nipples — to complete your installation.



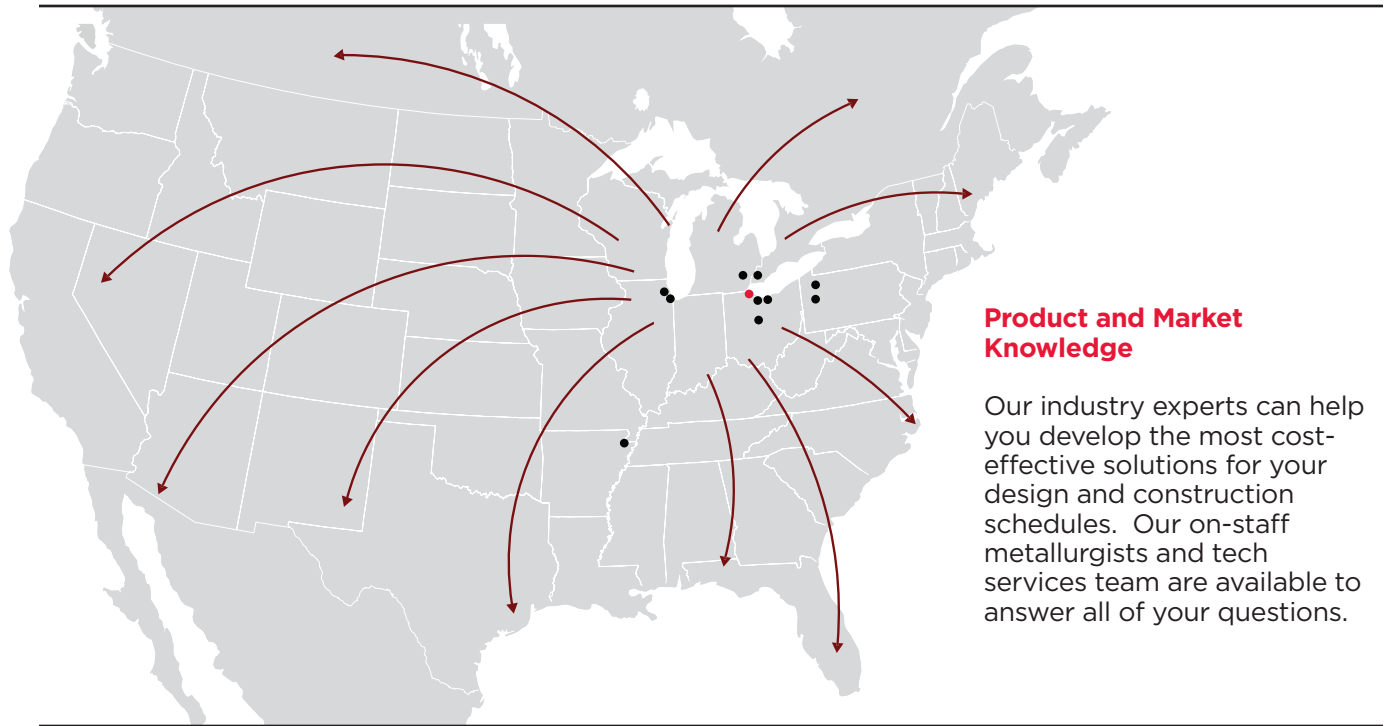
Protecting Your Facilities

Fence Framework

We also make a complete line of fence framework to protect your facilities.

- JMC Steel Group's fence framework pipe is available in regular (30,000 min. yield), intermediate (50,000 min. yield) and high strength (83,000 min. yield) grades.
- Our ASTM F1083 schedule 40, WT-40 and WT-30 are designed for high security and industrial applications.
- Our ASTM F1083 schedule 40 hot-dip galvanized pipe has a full-weight galvanized coating on the outside and inside and our in-line, hot-dip galvanized 50,000 min. yield fence framing pipe has a triple exterior coating and a zinc-rich interior coating to protect against white rust and corrosion..

Where We Make The Products for the Solar Energy Industry



Product and Market Knowledge

Our industry experts can help you develop the most cost-effective solutions for your design and construction schedules. Our on-staff metallurgists and tech services team are available to answer all of your questions.

We Set the Standards For Quality

All of our facilities have quality systems, which, at a minimum, are registered to ISO 9001:2008 Quality Management System standards.

We meet the specifications and standards of ANSI, ASTM, CSA, FM Global, UL and we're licensed to produce products to American Petroleum Institute (API) standards and the automotive industry's demanding ISO/TS 16949:2009 Quality Management System Standards.

Not only do we meet the industry's highest standards, we help establish them. We're actively involved in helping develop the codes and standards for the industries in which we operate.

And to assure that we measure up to *your* standards, we maintain comprehensive in-house lab and testing capabilities — tensile and hardness testing, steel chemistries, corrosion protection, heat treating, metallurgical analysis and wet chemical analysis.

Support and Framing Systems For Your Solar Panels

Whether you install roof-mounted, ground-mounted or ballast-mounted solar systems, JMC Steel Group can provide the round, square and rectangular galvanized steel pipe and tubing you need. We produce all of the most commonly used sizes.

Ground-Mounted or Ballast-Mounted Applications

JMC's high-strength, hot-dipped galvanized steel pipe and tubing are available in a wide variety of sizes and gauges. Our galvanized pipe has the strength and corrosion resistance that make it the ideal choice for ballast-mounted applications, or ground-mounted applications where steel tubes are driven into the soil to support the framing structure. We're also the product of choice for above ground framing and support.

- A500 GR B and C
- HS-83K (83,000 min. yield & pipes)
- HSLA Grades (50-70 min. yield)
- Square Tubing - 1" - 16"
- Rectangular Tubing - $\frac{3}{4}$ " x $1\frac{1}{2}$ " through 20" x 12"
- Round Tubing - 1" - 20"
- Wall Thicknesses - .083" - .625"
- Mill Lengths - 14 ft. - 80 ft.
- AS-3 Type F and B



In Roof-Mounted Installations, HSS Can Mean Less Weight, Less Cost

HSS has greater strength-to-weight ratios than other steel shapes, so you need less steel (by weight) to do the job. Less weight means less cost. And you can also save money on transportation, handling and erection costs. HSS also provides a cost competitive alternative to other types of metal.





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JMC Steel Group prides itself on having the knowledge and experience to deliver your steel pipe and tube solutions.

Since the founding of the company in 1877, when John Maneely first began selling pipe, valves and fittings in Philadelphia, our products — Hollow Structural Steel (HSS), pipe, tube, electrical conduit — have been used in some of the best known structures in North America, because our pipe and tube solutions deliver superior quality and value that have earned the trust of customers who demand the very best. JMC Steel Group has the knowledge, experience and credentials — qualities that we have earned and that have made us successful in the marketplace — to be there for you.

Today, we are the largest independent pipe and tube manufacturer in North America, producing 2 million tons of pipe and tube annually in our 11 manufacturing plants.

We are one company, with one goal: to deliver the pipe and tube solutions that contribute to our customers' success.