

THE FUTURE OF INFRASTRUCTURE



DRIVEN BY TECHNOLOGY

Forged in nanotechnology, MMFX steel's revolutionary atomic structure is reinforcing the bridges and highways we drive on and the buildings we live in with steel unlike any on the market today. In just over a decade, MMFX uncoated corrosion-resistant and high-strength steel has been approved by notable agencies and organizations in North America:

- American Society of Testing Materials (ASTM)
- Federal Highway Administration (FHWA)
- American Concrete Institute (ACI)
- American Association of State Highway and Transportation Officials (AASHTO)
- VDOT's Corrosion-Resistant Reinforcing (CRR) Specification

FROM COAST TO COAST - BY THE NUMBERS

From the Federal Highway Administration to Departments of Transportation, MMFX is emerging as the steel of choice in the rebuilding of North America's deteriorating infrastructure. Why is it found in projects in 26 states? The reason is in the numbers:

- 100-year+ service life
- 100,000 pounds per square inch (psi) - minimum yield strength - strongest reinforcing steel bars available today (ASTM A1035 Grade 100)
- 5 times more corrosion resistant than conventional steel

SAVING MONEY FROM THE GROUND UP

MMFX concrete-reinforcing steel is up to twice as strong as conventional rebar - a number impressive enough on its own. But it only scratches the surface of how MMFX can help you engineer project efficiencies, saving you time, labor and millions of dollars in upfront and lifetime costs of construction projects:

- Up to 60% labor savings
- Quicker build times
- Use from 20% to 50% less steel



From highways to high-rise buildings, and everything in between, MMFX is the cost-effective solution to enhance the durability of concrete structures.

ANSWERING SERVICE LIFE REQUIREMENTS

Many government agencies now require a 100-year+ service life for concrete structures and the only commercially-available products conforming to this requirement are MMFX and solid stainless steel. All 50 state Departments of Transportation recently voted to adopt the new AASHTO MP 18M/MMP 18-09 specification, establishing the standard that "uncoated," "corrosion-resistant" rebar and smooth dowels must meet when corrosion-resistant performance is needed for a particular structure. The only concrete-reinforcing-steel materials referenced in this standard are either ASTM A1035 (MMFX) or ASTM A955 (solid stainless steel). At a cost significantly less than stainless steel, MMFX is clearly the most cost-effective, high-performance product of choice for states and provinces to use in infrastructure projects. Competing steel products cannot match what MMFX brings to the marketplace, making it ideal for:

- Bridge decks
- Network of abutments
- Pier caps under joints
- Stirrups of prestressed concrete beams
- Highly-congested areas of structures

CORROSION-RESISTANT HIGH-STRENGTH STEEL

ASTM A1035
AASHTO MP 18M/MMP 18-09
ACI ITG-6R-10
ACI 318

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