MMFX$_2$ (ASTM A1035) CONCRETE REINFORCING STEELS

TWICE THE STRENGTH OF CONVENTIONAL STEEL

MMFX$_2$ rebar offers twice the strength of conventional steel (120 ksi vs 60 ksi). That means:

- **Less Steel**
  Engineering the structure using high-strength rebar (100+ ksi) reduces the amount of rebar needed for the project by 20% – 50%

- **Less Labor**
  Labor costs can be lowered by up to 60%

- **Less Congestion**
  Structures can be designed with less congestion, as illustrated →

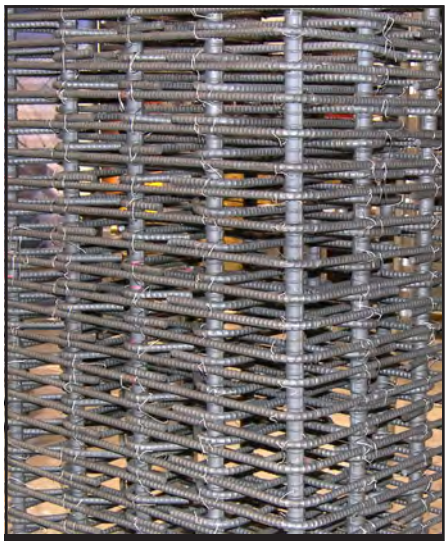
- **Better Constructability**
  Higher strength steels provide more flexibility and efficiency in design

- **Faster Construction Timelines**
  Less steel and less congestion leads to shorter construction times and faster project completions

- **Handles Like Conventional Steel**
  - Can be fabricated on conventional fabrication equipment
  - Better ductility than other high-strength steels (7% – 16%)

MMFX$_2$ (ASTM A1035/ AASHTO MP 18) rebar is appropriate for use as concrete reinforcement in commercial, industrial, utilities, waterways, transportation and other reinforced concrete applications, including:

- Buildings (piles, foundations, slabs, beams, columns)
- Bridges (decks, girders, columns, abutments)
- Retaining walls, marine facilities (docks, piers, fenders, etc.)
- Pavement (dowel bars and lane tie bars)
- Cast-in-place and precast reinforced concrete members.



CONVENTIONAL STEEL

MMFX$_2$ STEEL

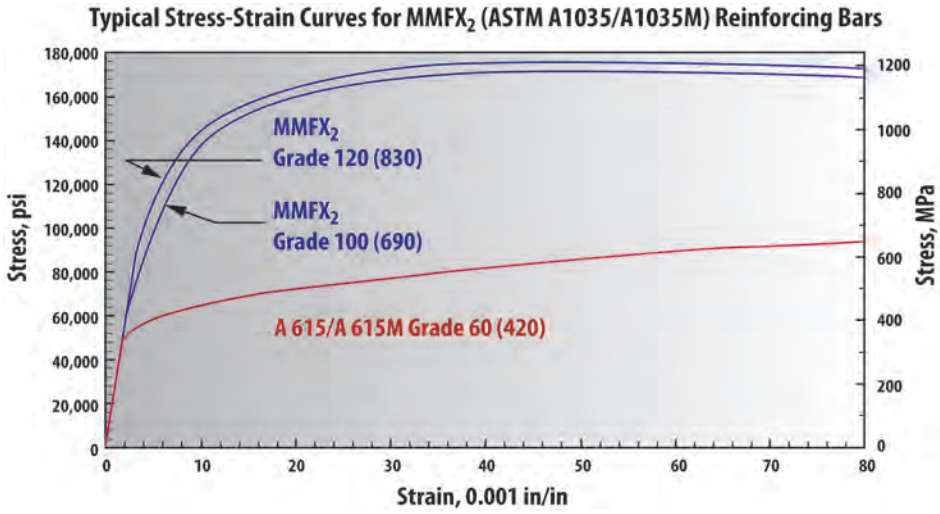
The columns shown above provide the same strength

$MMFX_2$ (ASTM A1035) CONCRETE REINFORCING STEELS

$MMFX_2$ steel rebar meets or exceeds the requirements of ASTM A615 (Grades 75 and 80), ASTM A1035 (Grades 100 and 120), and AASHTO MP 18 (Grade 100), enabling structural engineers to improve the way buildings, highways, and bridges are designed and built.

Historical strength requirements for conventional steel customarily dictated 60 ksi (Grade 60). $MMFX_2$, by comparison, establishes today's steel standard at minimum yield strengths of 100 ksi (Grade 100) – and even 120 ksi (Grade 120).

The figure below shows the stress-strain curves for $MMFX_2$



$MMFX_2$ is approved for use in the United States, Canada, Mexico and Gulf Corporation Council (GCC) countries – after rigorous testing from the industry's most influential authorities, including:

- Federal Highway Administration
- Virginia Transportation Research Council
- Florida Department of Transportation
- Louisiana Department of Transportation
- Michigan Department of Transportation
- New Jersey Department of Transportation
- South Dakota Department of Transportation
- Iowa State University
- University of Kansas
- University of South Carolina
- Concrete Innovations Appraisal Service (CIAS)

AVAILABILITY

REBAR: #3 - #11, #14, & #18
COIL: #3 & #4

SMOOTH ROUND DOWELS:
1-1/4 & 1-1/2 inch diameter

CUSTOM MILL-CUT LENGTHS:
Available by special order of 25 tons or greater and a minimum length of 20'

Concrete structures stand on the strength of steel. That is why top project managers, engineers and fabricators use the strongest rebar on the market today:

$MMFX_2$ Steel. Today's Steel Standard.