



# REBAR

NMX-B-506,  
ASTM-A615M y ASTM-A706M



The rebar manufactured by GRUPO ACERERO meets the highest quality, attached to Mexican standard NMX-B-506-CANACERO-2019, and USA standard ASTM-A615M and ASTM-A706M.

Special rod orders to different chemical and physical characteristics (weldability, ductility, diameter and length, among others) based on our markets' requirements are also manufactured.

## ▶ Nominal Dimensions NMX-B-506

| Bar Designation No. | Size   | Diameter |      | Cross-Sectional Area |                 | Nominal Weight |       |
|---------------------|--------|----------|------|----------------------|-----------------|----------------|-------|
|                     |        | in       | mm   | in <sup>2</sup>      | mm <sup>2</sup> | lb/ft          | kg/m  |
| 3                   | 3/8"   | 0.375    | 9.5  | 0.11                 | 71              | 0.376          | 0.560 |
| 4                   | 1/2"   | 0.500    | 12.7 | 0.20                 | 127             | 0.668          | 0.994 |
| 5                   | 5/8"   | 0.625    | 15.9 | 0.31                 | 198             | 1.043          | 1.552 |
| 6                   | 3/4"   | 0.750    | 19.0 | 0.44                 | 285             | 1.502          | 2.235 |
| 8                   | 1"     | 1.000    | 25.4 | 0.79                 | 507             | 2.670          | 3.973 |
| 10                  | 1" 1/4 | 1.270    | 31.8 | 1.27                 | 794             | 4.303          | 6.225 |
| 12                  | 1" 1/2 | 1.500    | 38.1 | 1.76                 | 1140            | 6.464          | 8.938 |

## ▶ Tensile Requirements NMX-B-506

| Bar Designation No. | Tensile Strength, min. kg/cm <sup>2</sup> | Yield Strength, min. kg/cm <sup>2</sup> | Elongation in 200 mm, min. % |
|---------------------|---|---|------------------------------|
| 3, 4, 5, 6          | 6,300 kg/cm <sup>2</sup>                  | 4,200 kg/cm <sup>2</sup>                | 9                            |
| 8                   |   |   | 8                            |
| 10,12               |   |   | 7                            |

## ▶ Bend Test Requirements NMX-B-506

| Bar Designation No. | Grade 60 (42) |
|---------------------|---------------|
| 3, 4, 5             | 3 1/2 d       |
| 6, 8                | 5 d           |
| 10                  | 6d            |
| 12                  | 8d            |



➤ **Nominal Dimension ASTM A706/A706 M**

| Bar Designation No | Size   | Diameter |                 | Área de sección transversal |                 | Peso nominal |       |
|--------------------|--------|----------|-----------------|-----------------------------|-----------------|--------------|-------|
|                    |        | in       | mm <sup>2</sup> | in <sup>2</sup>             | mm <sup>2</sup> | lb/ft        | kg/m  |
| 4                  | 1/2"   | 0.500    | 12.7            | 0.20                        | 127             | 0.668        | 0.994 |
| 5                  | 5/8"   | 0.625    | 15.9            | 0.31                        | 199             | 1.043        | 1.552 |
| 6                  | 3/4"   | 0.750    | 19.1            | 0.44                        | 284             | 1.502        | 2.235 |
| 8                  | 1"     | 1.000    | 25.4            | 0.79                        | 510             | 2.670        | 3.973 |
| 10                 | 1" 1/4 | 1.270    | 32.3            | 1.27                        | 819             | 4.303        | 6.404 |

➤ **Tensile Requirements ASTM A706/A706 M**

| Bar Designation No. | Tensile Strength, min, psi [MPa] | Yield Strength, min. psi [MPa] | Yield Strength, min. psi [MPa] | Elongation in 200 mm, min, % |
|---------------------|----------------------------------|--------------------------------|--------------------------------|------------------------------|
| 4, 5, 6             | 80 000 [550]                     | 60 000 [420]                   | 78 000 [540]                   | 14                           |
| 8,10                |                                  |                                |                                | 12                           |

➤ **Band Test Requirements ASTM A706/A706M**

| Bar Designation No. | Grado 60 (42) |
|---------------------|---------------|
| 4, 5                | 3 d           |
| 6, 8                | 4 d           |
| 10                  | 6 d           |

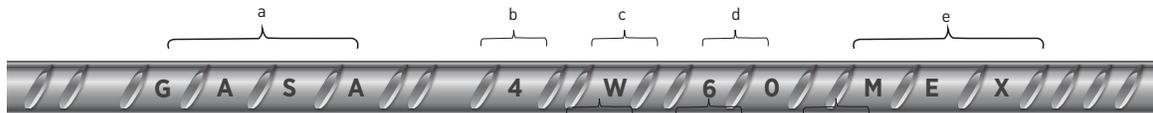
➤ **Marking**



Bar Marking with normal denomination

|   |   |                 |
|---|---|-----------------|
| a | POINT OF ORIGIN                                       | GASA            |
| b | BAR DESIGNATION NO.                                   | 3,4,5,6,8,10,12 |
| c | DESIGNATION OF THE STANDARD (NMX-B-506-CANACERO-2019) | N               |

|   |  |            |
|---|--|------------|
|   | DESIGNATION OF THE STANDARD (ASTM A-706)             | W          |
| c | DESIGNATION OF THE STANDARD (ASTM A-615)             | S          |
|   | DESIGNATION OF THE STANDARD (ASTM A-706 /ASTM A-615) | WS         |
| d | BAR GRADE IDENTIFICATION                             | 42, 52, 60 |
| e | Denomination of the country of origin "México"       |            |



Bar marking under Official Standard ASTM A-706



Bar marking under Official Standard ASTM A-615



Bar marking under Official Standard ASTM A-615



Bar marking under Official Standard ASTM A-615



"DUAL" type bar marking /(compliance with both Official Standards)

## ► Packaging specifications straight and bent rebar

| Diameter (inches) | Presentation | Length | Rods per ton (depending on length) |
|-------------------|--------------|--------|------------------------------------|
| 3/8"              | Bent         | 12.0 m | 149 a 154                          |
| 3/8"              | Straight     | 12.0 m | 149 a 154                          |
| 3/8"              | Straight     | 9.00m  | 199 a 207                          |
| 3/8"              | Straight     | 9.15 m | 196 a 204                          |
| 1/2"              | Bent         | 12.0 m | 84 a 86                            |
| 1/2"              | Straight     | 12.0 m | 84 a 86                            |
| 1/2"              | Straight     | 9.00m  | 111 a 115                          |
| 1/2"              | Straight     | 9.15m  | 110 a 113                          |
| 5/8"              | Straight     | 12.0m  | 53 a 55                            |
| 3/4"              | Straight     | 12.0m  | 37 a 38                            |
| 1"                | Straight     | 12.0m  | 21                                 |
| 1" 1/4            | Straight     | 12.0m  | 13                                 |
| 1" 1/2            | Straight     | 12.0m  | 9                                  |

NOTE: Cut to order based on customer needs (special lengths). Various corrugation types according to end consumer needs available.

## ► Packaging specifications coil rebar

| Bar Designation No. | Diameter mm | Weight kg       | Internal Diameter m | External Diameter m | Length m    |
|---------------------|-------------|-----------------|---------------------|---------------------|-------------|
| 3                   | 9.5         |                 |                     |                     |             |
| 4                   | 12.7        | 2,300 kg. aprox | 0.91 - 0.99         | 1.15 - 1.20         | 1.80 - 1.98 |
| 5                   | 15.9        |                 |                     |                     |             |

These products earn the following LEED® credits thanks to regional, recycled material content



**LEED® v4**  
**Prerequisite MRp:**  
 Construction and demolition waste management planning.

- **Credit M12:** Construction Waste Management.
- **Building Product disclosure:**
  - Material ingredients
  - Sourcing of raw materials

- **MCr2:** Construction Waste Management.
- **MRC4:** Recycled Content.
- **MRC5:** Reegional Materials.