

# 03 21 Reinforcement Bars

## 03 21 11 – Plain Steel Reinforcement Bars

| 03 21 11.60 Reinforcing In Place |  |  |  | Daily<br>Crew | Labor-<br>Output | Hours | Unit   | Material | 2022 Bare Costs |           | Total  | Total<br>Incl O&P |
|----------------------------------|--|--|--|---------------|------------------|-------|--------|----------|-----------------|-----------|--------|-------------------|
|                                  |  |  |  |               |                  |       |        |          | Labor           | Equipment |        |                   |
| 0010                             | <b>REINFORCING IN PLACE</b> , 50-60 ton lots, A615 Grade 60                |  |  | R032110-10    |                  |       |        |          |                 |           |        |                   |
| 0020                             | Includes labor, but not material cost, to install accessories              |  |  |               |                  |       |        |          |                 |           |        |                   |
| 0030                             | Made from recycled materials   |  |  |               |                  |       |        |          |                 |           |        |                   |
| 0100                             | Beams & Girders, #3 to #7  |  |  | G             | 4 Rodm           | 1.60  | 20     | Ton      | 1,450           | 1,225     | 2,675  | 3,425             |
| 0150                             | #8 to #18 R032110-20   |  |  | G             |                  | 2.70  | 11.852 |          | 1,450           | 720       | 2,170  | 2,675             |
| 0200                             | Columns, #3 to #7  |  |  | G             |                  | 1.50  | 21.333 |          | 1,450           | 1,300     | 2,750  | 3,525             |
| 0250                             | #8 to #18  |  |  | G             |                  | 2.30  | 13.913 |          | 1,450           | 845       | 2,295  | 2,850             |
| 0300                             | Spirals, hot rolled, 8" to 15" diameter                                    |  |  | G             |                  | 2.20  | 14.545 |          | 1,850           | 885       | 2,735  | 3,375             |
| 0320                             | 15" to 24" diameter R032110-40   |  |  | G             |                  | 2.20  | 14.545 |          | 1,775           | 885       | 2,660  | 3,275             |
| 0330                             | 24" to 36" diameter  |  |  | G             |                  | 2.30  | 13.913 |          | 1,700           | 845       | 2,545  | 3,100             |
| 0340                             | 36" to 48" diameter R032110-50   |  |  | G             |                  | 2.40  | 13.333 |          | 1,600           | 810       | 2,410  | 2,975             |
| 0360                             | 48" to 64" diameter  |  |  | G             |                  | 2.50  | 12.800 |          | 1,775           | 775       | 2,550  | 3,100             |
| 0380                             | 64" to 84" diameter R032110-70   |  |  | G             |                  | 2.60  | 12.308 |          | 1,850           | 745       | 2,595  | 3,175             |
| 0390                             | 84" to 96" diameter  |  |  | G             |                  | 2.70  | 11.852 |          | 1,950           | 720       | 2,670  | 3,200             |
| 0400                             | Elevated slabs, #4 to #7 R032110-80  |  |  | G             |                  | 2.90  | 11.034 |          | 1,450           | 670       | 2,120  | 2,600             |
| 0500                             | Footings, #4 to #7   |  |  | G             |                  | 2.10  | 15.238 |          | 1,450           | 925       | 2,375  | 2,975             |
| 0550                             | #8 to #18  |  |  | G             |                  | 3.60  | 8.889  |          | 1,450           | 540       | 1,990  | 2,400             |
| 0600                             | Slab on grade, #3 to #7  |  |  | G             |                  | 2.30  | 13.913 |          | 1,450           | 845       | 2,295  | 2,850             |
| 0700                             | Walls, #3 to #7  |  |  | G             |                  | 3     | 10.667 |          | 1,450           | 645       | 2,095  | 2,575             |
| 0750                             | #8 to #18  |  |  | G             |                  | 4     | 8      |          | 1,450           | 485       | 1,935  | 2,325             |
| 0900                             | For other than 50-60 ton lots  |  |  |               |                  |       |        |          |                 |           |        |                   |
| 1000                             | Under 10 ton job, #3 to #7, add  |  |  |               |                  |       |        |          | 25%             | 10%       |        |                   |
| 1010                             | #8 to #18, add   |  |  |               |                  |       |        |          | 20%             | 10%       |        |                   |
| 1050                             | 10-50 ton job, #3 to #7, add   |  |  |               |                  |       |        |          | 10%             |           |        |                   |
| 1060                             | #8 to #18, add   |  |  |               |                  |       |        |          | 5%              |           |        |                   |
| 1100                             | 60-100 ton job, #3 to #7, deduct   |  |  |               |                  |       |        |          | 5%              |           |        |                   |
| 1110                             | #8 to #18, deduct  |  |  |               |                  |       |        |          | 10%             |           |        |                   |
| 1150                             | Over 100 ton job, #3 to #7, deduct   |  |  |               |                  |       |        |          | 10%             |           |        |                   |
| 1160                             | #8 to #18, deduct  |  |  |               |                  |       |        |          | 15%             |           |        |                   |
| 1200                             | Reinforcing in place, A615 Grade 75, add                                   |  |  | G             |                  |       |        | Ton      | 151             |           | 151    | 166               |
| 1220                             | Grade 90, add  |  |  |               |                  |       |        |          | 170             |           | 170    | 187               |
| 2000                             | Unloading & sorting, add to above  |  |  |               | C-5              | 100   | .560   |          | 34              | 21        | 55     | 73.50             |
| 2200                             | Crane cost for handling, 90 picks/day, up to 1.5 tons/bundle, add to above |  |  |               |                  | 135   | .415   |          | 25              | 15.50     | 40.50  | 54.50             |
| 2210                             | 1.0 ton/bundle   |  |  |               |                  | 92    | .609   |          | 37              | 23        | 60     | 80                |
| 2220                             | 0.5 ton/bundle   |  |  |               |                  | 35    | 1.600  |          | 96.50           | 60        | 156.50 | 210               |
| 2400                             | Dowels, 2 feet long, deformed, #3  |  |  | G             | 2 Rodm           | 520   | .031   | Ea.      | .60             | 1.87      | 2.47   | 3.45              |
| 2410                             | #4   |  |  | G             |                  | 480   | .033   |          | 1.07            | 2.02      | 3.09   | 4.19              |
| 2420                             | #5   |  |  | G             |                  | 435   | .037   |          | 1.67            | 2.23      | 3.90   | 5.15              |
| 2430                             | #6   |  |  | G             |                  | 360   | .044   |          | 2.40            | 2.70      | 5.10   | 6.65              |
| 2450                             | Longer and heavier dowels, add   |  |  | G             |                  | 725   | .022   | Lb.      | .80             | 1.34      | 2.14   | 2.88              |
| 2500                             | Smooth dowels, 12" long, 1/4" or 3/8" diameter                             |  |  | G             |                  | 140   | .114   | Ea.      | 1.02            | 6.95      | 7.97   | 11.50             |
| 2520                             | 5/8" diameter  |  |  | G             |                  | 125   | .128   |          | 1.79            | 7.75      | 9.54   | 13.55             |
| 2530                             | 3/4" diameter  |  |  | G             |                  | 110   | .145   |          | 2.22            | 8.85      | 11.07  | 15.65             |
| 2600                             | Dowel sleeves for CIP concrete, 2-part system                              |  |  |               |                  |       |        |          |                 |           |        |                   |
| 2610                             | Sleeve base, plastic, for 5/8" smooth dowel sleeve, fasten to edge form    |  |  |               | 1 Rodm           | 200   | .040   | Ea.      | .57             | 2.43      | 3      | 4.26              |
| 2615                             | Sleeve, plastic, 12" long, for 5/8" smooth dowel, snap onto base           |  |  |               |                  | 400   | .020   |          | 1.41            | 1.21      | 2.62   | 3.36              |
| 2620                             | Sleeve base, for 3/4" smooth dowel sleeve                                  |  |  |               |                  | 175   | .046   |          | .57             | 2.77      | 3.34   | 4.77              |
| 2625                             | Sleeve, 12" long, for 3/4" smooth dowel                                    |  |  |               |                  | 350   | .023   |          | 1.41            | 1.39      | 2.80   | 3.62              |
| 2630                             | Sleeve base, for 1" smooth dowel sleeve                                    |  |  |               |                  | 150   | .053   |          | .96             | 3.24      | 4.20   | 5.90              |
| 2635                             | Sleeve, 12" long, for 1" smooth dowel                                      |  |  |               |                  | 300   | .027   |          | 1.48            | 1.62      | 3.10   | 4.05              |
| 2700                             | Dowel caps, visual warning only, plastic, #3 to #8                         |  |  |               | 2 Rodm           | 800   | .020   |          | .64             | 1.21      | 1.85   | 2.51              |
| 2720                             | #8 to #18  |  |  |               |                  | 750   | .021   |          | 1.11            | 1.29      | 2.40   | 3.15              |