

1. DESCRIPTION

Weldable hot rolled deformed steel bars in coils for concrete reinforcing according to CSA G30.18-09 (R2014) grade 400W.

2. CHEMICAL COMPOSITION OF FINISHED BARS

| | Limits | C % | Mn % | P % | S % | Si % |
|-----------------------|--------|------|------|-------|-------|------|
| CSA G30.18-09 (R2014) | max | 0.33 | 1.65 | 0.043 | 0.053 | 0.55 |

Note:

- Carbon equivalent of heat analysis maximum 0.55%.
- Even elements like Cu, Cr, Ni, Mo, V are determined.

3. TENSILE AND DIMENSIONAL PROPERTIES

| Standard | Steel grade | Bar designation range mm | Y.S. min MPa | Y.S. max MPa | T.S. min MPa | Elongation min in 200mm % |
|-----------------------|-------------|--------------------------|--------------|--------------|--------------|---------------------------|
| CSA G30.18-09 (R2014) | 400W | 10M ÷ 55M | 425 | 550 | 565 | note |
| FERRIERE NORD | 400W | 10M ÷ 15M | 425 | 550 | 565 | 13 |

NOTES:

- mechanical test in as rolled condition after straightning by laboratory machine
- Ratio T.S./Y.S.: not less than 1.15
- Elongation according to CSA G30.18-09 (R2014) Table 4.
- Deformations: according to CSA G30.18-09 (R2014) Chapter 8 and Table 1.
- Variation in mass per unit length: according to CSA G30.18-09 (R2014) Chapter 13

4. BENDING PROPERTIES

| Bar designation Nr. | Pin diameter for bend test 180° |
|---------------------|---------------------------------|
| 10M or 15M | 3 d |

5. STANDARD PACKAGING

Coils of std weight 2,4 t and 4.8 t. Height = 900 mm, internal diameter = 700 mm, max width 1050 mm (2.4 t) and 1320 mm (4.8 t). Coils are tied with 4 metallic strips

6. STANDARD IDENTIFICATION

Each coil identified with label reporting: manufacturer, grade, heat number, bar designation, nominal coil weight, standard reference, date of rolling.

7. STANDARD TEST REPORT

Test Report according to CSA G30.18-09 (R2014) Chapter 18.

8. IDENTIFICATION MARK AND RIB PATTERN

Example of marking for bar designation.

