

1. DESCRIPTION

Deformed steel bars for concrete reinforcing, produced with TEMPCORE process, 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%.

3. TENSILE AND DIMENSIONAL PROPERTIES

Standard	Steel grade	Bar designation range	Y.S. min MPa	Y.S. max MPa	T.S. min MPa	Elongation min in 200mm %
CSA G30.18-09 (R2014)	400W	10M ÷ 35M	400	525	540	note

NOTES:

- Ratio T.S./Y.S.: not less than 1.15
- Elongation according to CSA G30.18-09 (R2014) Table 4: min 13% for bar nr. from 10M to 25M, min 12% for bar nr. from 30M to 35M
- Deformations: according to CSA G30.18-09 (R2014) Chapter 8 and Table 1.
- Variation in weight 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
20M or 25M	4 d
30M or 35M	6 d

5. STANDARD PACKAGING

- Bundles tied with 7 wire rod binding points
- Wire rod for binding 7 mm diam
- Tolerance on bar length -0 / + 50 mm
- No bars shorter than tolerance in the bundle

Piece count and nominal weight for each bundle

Bar designation No.	Length (m)	Piece count (nr)	Nominal bundle weight (kg)
10M	12	264	2487
15M	15	108	2543
20M	15	72	2543
25M	15	42	2473
30M	15	30	2473
35M	15	18	2120



6. STANDARD IDENTIFICATION

Each bundle with label reporting: manufacturer, grade, heat number, bar designation, length, number of pieces per bundle, nominal bundle weight, standard reference, made in Italy.

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.

