



# SICARTSA



*Fabricated  
Re-Bar*



ISO 9002  
FM 13191

# Vilacero

# Fabricated Re-Bar



## Description:

SICARTSA's Fabricated Re-Bar it is the reinforcement steel cut and bent to the shapes, sizes and amounts your projects require.

Corrugated rods can be bent in different angles, according to constructor's needs.

SICARTSA's Fabricated Re-Bar, is an important change to the modernization of industry construction labor, which translates into big operational and economic benefits for your company.

## Advantages:

### *Economics:*

Requires a lower investment on reinforcement steel, doing away with high costs, since no scrap is generated.

### *Labor:*

No personnel is required for enabling. The risk of accidents is considerably decreased, makes supervision easy and reduces interference with other contractors.

### *Time:*

Once SICARTSA's Re-Bar is enabled, the product's installation time at the construction site is spend up (or accelerated).

### *Tools and equipment:*

They are not required, since SICARTSA's Re-Bar is enabled by means of specialized equipment and machinery according blue prints, so material is delivered with the shapes and sizes required.

## *Management:*

Facilitates inventory and consumption control avoiding the risk of theft of the product. It has got to be considered as additional benefit the fact of having hired less personnel, therefore reducing social security and taxes expenses, among others.

## *Product optimization:*

When using SICARTSA's Fabricated Re-Bar, generation of scrap due to leftovers it is 100% avoided.

## *Supply:*

The warehouse area is smaller since not all of the re-bar is necessary at the beginning of construction. SICARTSA's Fabricated Re-Bar is delivered bounded and counted, making easy control and handling, avoiding leftovers and/or shortages per products gauge. In addition, enabling and cut work area is eliminated.

## Materials:

Raw material is SICARTSA's Re-Bar.

## Specifications:

Complies with ASTM-A-615.

The fabrication of this product is certified by ISO 9002.



45°



90°



180°

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**FABRICATED RE-BAR  
SICARTSA**

## WEIGHT AND MEASUREMENTS

Re-bar		Diameter		Perimeter		Area		Mass		Weight per piece (kg)		Weight per piece (lb)	
Number	in	(cm)	(in)	(cm)	(in)	(cm <sup>2</sup> )	(in <sup>2</sup> )	(kg/m)	(lb/ft)	9.15 m	12.00 m	30 ft	40 ft
2.5	5/16	0.79	0.313	2.49	0.982	0.49	0.08	0.384	0.258	3.51	4.61	7.74	10.32
3	3/8	0.95	0.375	2.99	1.178	0.71	0.11	0.560	0.376	5.12	6.72	11.28	15.04
4	1/2	1.27	0.500	3.99	1.571	1.27	0.20	0.994	0.668	9.10	11.93	20.04	26.72
5	5/8	1.59	0.625	4.99	1.964	1.98	0.31	1.552	1.043	14.20	18.62	31.29	41.72
6	3/4	1.91	0.750	5.98	2.356	2.85	0.44	2.235	1.502	20.45	26.82	45.06	60.08
8	1	2.54	1.000	7.98	3.142	5.07	0.79	3.973	2.670	36.35	47.68	80.10	106.80
10	1 1/4	3.18	1.250	9.97	3.927	7.92	1.23	6.225	4.183	56.96	74.70	125.49	167.32
12	1 1/2	3.81	1.500	11.97	4.712	11.40	1.77	8.938	6.006	81.78	107.26	180.18	240.24

### ELONGATION PERCENTAGE MIN.

Re-bar Number	Grade 30	Grade 42	Grade 42*
2.5 a 6	11	9	14
8	10	8	12
10	8	7	12
12	7	7	12

### PIECES PER METRIC TON.

Re-bar Number	Pieces per metric ton.	
	9.15 m	12.00 m
2.5	285	217
3	195	149
4	110	84
5	70	54
6	49	37
8	28	21
10	18	13
12	12	9

### BENDING REQUIREMENTS

Re-bar Number	D = Mandrel Diameter for 180°		
	Grade 30	Grade 42	Grade 42*
2.5 a 5	3 1/2 D	3 1/2 D	3 D
6 y 8	5 D	5 D	4 D
10	5 D	7 D	6 D
12	5 D	8 D	6 D

\* Weldable quality.

### TENSILE STRENGTH MIN.

NMX-B-457			Grade 42*
NMX-B-006	Grade 30	Grade 42	
Kgf/cm <sup>2</sup>	5,000	6,300	5,600
ASTM-A-615	Grade 40	Grade 60	
lbs/in <sup>2</sup>	70,000	90,000	

### YIELD STRENGTH MIN.

NMX-B-457			Grade 42*
NMX-B-006	Grade 30	Grade 42	
Kgf/cm <sup>2</sup>	3,000	4,200	Min. 4,200 Max. 5,200
ASTM-A-615	Grade 40	Grade 60	
lbs/in <sup>2</sup>	40,000	60,000	





SICARTSA

SALES

**Monterrey, N.L.**

Ave. Félix U. Gómez No. 4204 Nte.  
Col. Valle del Nogalar  
San Nicolás de los Garza, N.L.  
C.P. 66480 • Tels: [52] 8319-8999,  
8319-8900 • Fax: [52] 8319-8939

**México, D.F.**

Poniente 128 No. 672  
Fracc. Industrial Vallejo  
México, D.F. • C.P. 02300  
Tels: [52] 5729-6781, 5729-6700  
Fax: [52] 5729-6793

**Córdoba, Ver.**

Km. 10 Carretera Córdoba-Veracruz  
Amatlán de los Reyes • C.P. 94946  
Córdoba, Ver. • Tel. [52] (2) 716-6622  
Fax: [52] (2) 716-6023

**Guadalajara, Jal.**

Prolongación Colón No. 4700  
Tlaquepaque, Jal. • C.P. 44960  
Tels./Fax: [52] 3645-8149,  
3645-8169 y 3646-4915

**Celaya, Gto.**

Juárez 113 Nte.  
2o. Piso Despacho 1  
Centro • C.P. 38050  
Tels: [52] (4) 159-0129, 159-0130  
Fax: [52] (4) 159-0125

Tel: [52] 8319-8999  
sales@villacero.com  
www.villacero.com