CERTIFICACIONES
CERTIFICATIONS

SYSTEM

ISO 9001:2008 NUEVA INCAL

Manufacturing and marketing of cold finished steel bars.

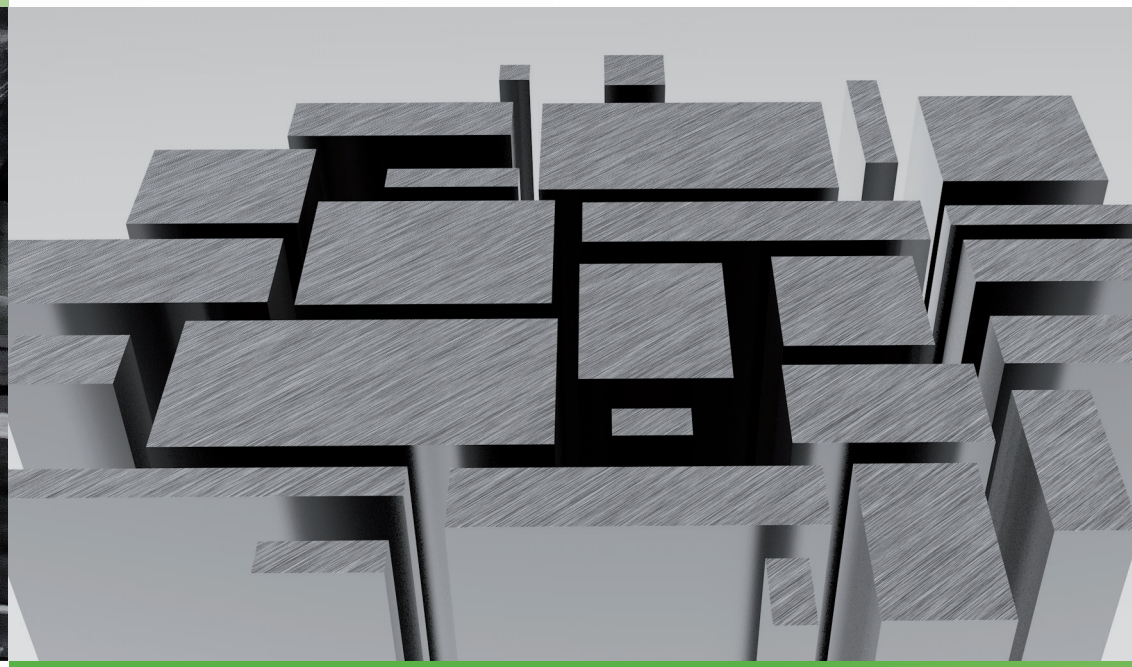
Goikoibarra, 24 - P.O. Box 13
48300 Gernika (Bizkaia). Spain
Tel.: (+34) 94 625 17 12 / Fax: (+34) 94 625 46 26

Contact: Mr. Manuel Torrico Moreno
manoloincal@nuevaincal.com

www.nuevaincal.com

AENOR ER Empresa Registrada UNE-EN ISO 9001

IQNet CERTIFIED MANAGEMENT SYSTEM



Nueva Incal

Medidas / Dimensions

Formato / Shape		Normas / Standards	Medidas* / Dimensions*	Longitud / Length
▬	Pletina / Flat	ASTM A 108-13	Ancho / Width: 7/8" - 8" Espesor / Thickness: 3/16" - 2"	3,00 - 7,20 m 10' - 29'
		EN 10277 EN 10278	Ancho / Width: 20-200 mm Espesor / Thickness: 4-50 mm	
■	Cuadrado / Square	ASTM A 108-13	3/16" - 2"	
		EN 10277 EN 10278	4 - 50 mm	

*Otras medidas bajo consulta. *More dimensions under request.

Pletinas / Flats

Ancho Width	Espesor / Thickness											
	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	1 3/4"	2"
7/8"												
1"					●							
1 1/4"	●	●	●	●	●	●	●	●				
1 1/2"	●	●	●	●	●	●	●	●				
1 3/4"			●		●		●	●				
2"	●	●	●	●	●	●	●	●	●	●	●	
2 1/4"		●	●	●	●	●	●	●	●	●	●	●
2 1/2"		●	●	●	●	●	●	●	●	●	●	●
2 3/4"			●	●	●	●	●	●	●	●	●	●
3"		●	●	●	●	●	●	●	●	●	●	●
3 1/2"			●	●	●	●	●	●	●	●	●	●
4"		●	●	●	●	●	●	●	●	●	●	●
5"			●	●	●	●	●	●	●	●	●	●
6"					●	●	●	●	●	●	●	●
8"					●	●	●	●	●	●	●	●

*Otras medidas bajo consulta. *More dimensions under request.

Cuadrado / Square

3/16"	
1/4"	●
5/16"	
3/8"	
7/16"	●
1/2"	●
9/16"	●
5/8"	●
3/4"	
1"	
1 1/2"	
1 3/4"	
2"	

*Otras medidas bajo consulta. *More dimensions under request.

Pletinas / Flats

Ancho Width	Espesor / Thickness															
	4	5	6	8	10	12	14	15	16	18	20	25	30	40	45	50
20	●	●	●	●	●											
25	●	●	●	●	●											
30	●	●	●	●	●	●		●	●		●					
35	●	●	●	●	●	●										
40		●	●	●	●	●	●	●	●	●	●	●	●			
45		●	●	●	●	●	●	●	●	●	●	●	●			
50		●	●	●	●	●	●	●	●	●	●	●	●	●		
55		●	●	●	●	●	●	●	●	●	●	●	●	●	●	
60		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
65		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
70		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
75		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
80		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
90			●	●	●	●	●	●	●	●	●	●	●	●	●	●
100			●	●	●	●	●	●	●	●	●	●	●	●	●	●
110				●	●	●	●	●	●	●	●	●	●	●	●	●
120				●	●	●	●	●	●	●	●	●	●	●	●	●
125					●	●	●	●	●	●	●	●	●	●	●	●
130					●	●	●	●	●	●	●	●	●	●	●	●
140					●	●	●	●	●	●	●	●	●	●	●	●
150					●	●	●	●	●	●	●	●	●	●	●	●
160					●	●	●	●	●	●	●	●	●	●	●	●
180					●	●	●	●	●	●	●	●	●	●	●	●
200					●	●	●	●	●	●	●	●	●	●	●	●

*Otras medidas bajo consulta. *More dimensions under request.

Tolerancias / Tolerances A108-13

Size tolerances for Level One Cold-Finished-Carbon Steel Bars, Cold Drawn[A] or Turned and Polished[A]
Size tolerances for Level One Cold-Finished-Carbon Steel Bars, Cold Drawn[A] or Turned and Polished[A]

Size, in. [B] / Size, in. [B]	Maximum of Carbon Range 0.28% or less / Maximum of Carbon Range 0.28% or less	Maximum of Carbon Range over 0.28% to 0.55% inc / Maximum of Carbon Range over 0.28% to 0.55% incl	Maximum of Carbon Range to 0.55% incl, Stress Relieved or Annealed after Cold Finishing / Maximum of Carbon Range to 0.55% incl, Stress Relieved or Annealed after Cold Finishing	Maximum of Carbon Range over 0.55% or All Grades Quenched and Tempered or Normalized and Tempered before or after Cold Finishing / Maximum of Carbon Range over 0.55% or All Grades Quenched and Tempered or Normalized and Tempered before or after Cold Finishing
	All tolerances are in inches and are minus [C] / All tolerances are in inches and are minus [C]			
Anchura / Width	PLETINAS / FLATS [D]			
To ¾ incl	0.003	0.004	0.006	0.008
Over ¾ to 1 ½ incl	0.004	0.005	0.008	0.010
Over 1 ½ to 3 incl	0.005	0.006	0.010	0.012
Over 3 to 4 incl	0.006	0.008	0.011	0.016
Over 4 to 6 incl	0.008	0.010	0.012	0.020
Over 6	0.013	0.015		

[A] When the purchaser requires a more restrictive size tolerance, then refer to Table A1.3, which requires the above cold drawn or turned and polished bar product to be ground and polished as a final sizing operation.

[B] Standard manufacturing practice can cause end distortion resulting in those portions of the bar being outside the applicable size tolerance. When this end condition is undesirable, a saw cut end to remove end distortion should be considered.

[C] While size tolerances are usually specified as minus, tolerances may be ordered all plus, or distributed plus and minus, with the sum being equivalent to the tolerances listed.

[D] Width governs the tolerances for both width and thickness of flats. For example, when the maximum of carbon range is 0.28% or less, for a flat 2 in. wide and 1 in. thick, the width tolerance is 0.005 in. and the thickness tolerance is the same, namely, 0.005 in. [A] When the purchaser requires a more restrictive size tolerance, then refer to Table A1.3, which requires the above cold drawn or turned and polished bar product to be ground and polished as a final sizing operation.

[B] Standard manufacturing practice can cause end distortion resulting in those portions of the bar being outside the applicable size tolerance. When this end condition is undesirable, a saw cut end to remove end distortion should be considered.

[C] While size tolerances are usually specified as minus, tolerances may be ordered all plus, or distributed plus and minus, with the sum being equivalent to the tolerances listed.

[D] Width governs the tolerances for both width and thickness of flats. For example, when the maximum of carbon range is 0.28% or less, for a flat 2 in. wide and 1 in. thick, the width tolerance is 0.005 in. and the thickness tolerance is the same, namely, 0.005 in.

Tolerancias / Tolerances EN 10278

Tolerancias para los planos estirados / Tolerances for cold-drawn flats

Anchura / Width	Desviación / Deviation (mm)		ISO 286-2
≤ 18 mm	0	-0,11	h11
> 18 ≤ 30 mm	0	-0,13	h11
> 30 ≤ 50 mm	0	-0,16	h11
> 50 ≤ 80 mm	0	-0,19	h11
> 80 ≤ 100 mm	0	-0,22	h11
> 100 ≤ 150 mm	0,50	-0,50	
> 150 ≤ 200 mm	1,00	-1,00	
> 200 ≤ 300 mm	2,00	-2,00	

Espesor / Thickness	Desviación / Deviation (mm) [1] [2]	ISO 286-2
> 3 ≤ 6 mm	-0,075	h11
> 6 ≤ 10 mm	-0,090	h11
> 10 ≤ 18 mm	-0,110	h11
> 18 ≤ 30 mm	-0,130	h11
> 30 ≤ 50 mm	-0,160	h11

[1] Todas las desviaciones son 0. [2] Las tolerancias son para aceros de bajo contenido en carbono (C ≤ 20%) y a los aceros de fácil mecanización con bajo contenido en carbono. Para otros aceros, las desviaciones pueden aumentarse en un 50%.

[1] All deviations are +0. [2] Tolerances are for steels with low carbon content (C ≤ 20%) and free-cutting steels with low carbon content. For others steels the deviation can increase 50%.

Calidades de acero / Steel Grades

SAE1018	F-111	C10	S235JR
SAE1008	F-113	C15	S275JR
080A15	F-114	C16	S355JR
080A42	F-115	C35	S355J2
		C45	

*Otras medidas bajo consulta. *More dimensions under request.