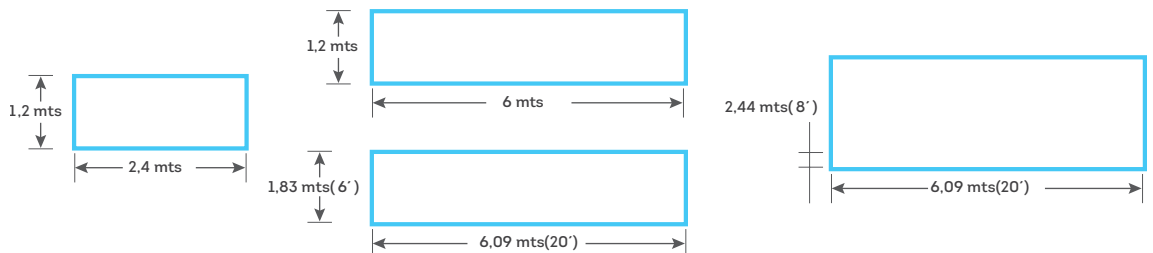


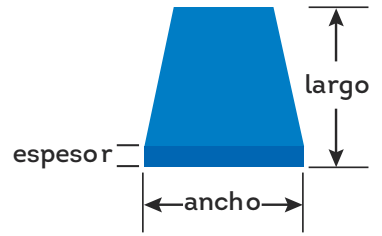
CALIDADES DE ACEROS PLANOS MÁS COMERCIALES EN COLOMBIA

CALIDADES MAS COMUNES		COMPOSICIÓN QUÍMICA										PROPIEDADES MECÁNICAS			APLICACIONES MAS FRECUENTES
ASTM	DIN	L	C	MN	P	S	SI	CU	Ni	Cr	V	LÍMITE ELÁSTICO	RESISTENCIA A LA TRACCIÓN	% ALARGA	
		(x 100)	(x 100)	(x 100)	(x 100)	(x 100)	(x 100)	(x 100)	(x 100)	(x 100)	(x 100)				
A - 36	ST 33 - 1.2	MIN		80			15						400MPa	20	Estructuras metálicas en general.
	ST 37 - 3U	MAX	25	120	4	4	30					≥250MPa	550MPa	23	
A - 283 GR C	RST 37 - 1.2	MIN		50			7					-	380MPa	20	Tanques de almacenamiento
		MAX	18	90	3.5	3.5	35					205MPa	450MPa	23	
A - 285 GR C	HII	MIN										-	380MPa	23	Recipientes a presión de baja e intermedia resistencia a la tracción.
		MAX	28	90	3.5	3.5						205MPa	515MPa	27	
A - 131 GR A	RST 34 - 1.2	MIN		53				20				-	400MPa	21	Construcción naval en general.
		MAX	21		4	4	50.4	20				235MPa	490MPa	24	
A - 516 GR 70	17mn4	MIN	27	85			15					-	485MPa	17	Recipientes a presión temperaturas media- alta.
		MAX	31	120	4	3.5	40					260MPa	620MPa	21	
A - 514 GR A	RQT 601	MIN				1.5						-	690MPa	-	Resistencia a la abrasion.
		MAX	20	150	3.5	4	50					≥600MPa	850MPa	19	
A - 572 GR 50	ST 52-3N	MIN					15							-	Fabricación de estructuras metálicas.
		MAX	23	135	4	5	40					≥345MPa	450MPa	20	
A - 588 GR B	WTST 52-3	MIN		75			15	2		4	0.1	-		-	Fabricación de estructuras metálicas que no requerirán de recubrimiento.
		MAX	20	135	4	5	40	4	5	7	1	345MPa	485MPa	18	

FORMATOS DE LÁMINAS MÁS COMERCIALES EN COLOMBIA



LÁMINAS HOT ROLLED Ó LAMINADAS EN CALIENTE (DIMENSIONES Y PESOS)



DIMENSIONES Y PESOS DE PLANCHAS COMERCIALES									
	ESPESOR			M2	1.0 X 2.0 M	1.22 X 2.44 M (4' X 8')	1.83 X 6.09 M (6' X 20')	2.0 X 6.0 M	2.44 X 6.09 M (8' X 20')
	CALIBRE	PULGADA	MILÍMETRO	Kg.	Kg.	Kg.	Kg.	Kg.	Kg.
LÁMINAS EN CALIENTE	16		1.50	11.78	23.56	35.01	131.00	141.00	175.00
	14		1.90	14.92	29.85	44.35	166.00	179.00	222.00
			2.50	19.63	39.27	58.35	219.00	236.00	292.00
	12		2.66	20.89	41.78	62.09	233.00	251.00	311.00
	11		3.00	23.56	47.12	70.02	263.00	283.00	350.00
		1/8"	3.17	24.90	49.79	73.99	278.00	299.00	370.00
			4.00	31.42	62.83	93.37	350.00	377.00	467.00
			4.50	35.34	70.69	105.04	394.00	424.00	525.00
		3/16"	4.76	37.38	74.77	111.11	417.00	449.00	556.00
			5.00	39.27	78.54	116.71	438.00	471.00	584.00
			6.00	47.12	94.25	140.05	525.00	565.00	700.00
		1/4"	6.35	49.87	99.75	148.22	556.00	598.00	741.00
		5/16"	7.94	62.36	124.72	185.33	695.00	748.00	927.00
			8.00	62.83	125.66	186.73	700.00	754.00	934.00
			9.00	70.69	141.37	210.07	788.00	848.00	1.051.00
		3/8"	9.53	74.85	149.70	222.44	834.00	898.00	1.113.00
			10.00	78.54	157.08	233.41	876.00	942.00	1.167.00
			12.00	94.25	188.50	280.10	1.051.00	1.131.00	1.401.00
		1/2"	12.70	99.75	199.49	296.44	1.112.00	1.197.00	1.483.00
			13.00	102.10	204.20	303.44	1.138.00	1.225.00	1.518.00
			15.00	117.81	235.62	350.12	1.313.00	1.414.00	1.751.00
		5/8"	15.88	124.72	249.44	370.66	1.390.00	1.497.00	1.854.00
			16.00	125.66	251.33	373.46	1.401.00	1.508.00	1.868.00
			19.00	149.23	298.45	443.49	1.664.00	1.791.00	2.218.00
		3/4"	19.05	149.62	299.24	444.65	1.668.00	1.795.00	2.224.00
			22.00	172.79	345.58	513.51	1.926.00	2.073.00	2.568.00
		7/8"	22.23	174.59	349.19	518.88	1.946.00	2.095.00	2.595.00
			25.00	196.35	392.70	583.54	2.189.00	2.356.00	2.919.00
		1"	25.40	199.49	398.98	592.87	2.224.00	2.394.00	2.965.00
			30.00	235.62	471.24	700.24	2.627.00	2.827.00	3.502.00
		1 1/4"	31.75	249.36	498.73	741.09	2.780.00	2.992.00	3.707.00
			32.00	251.33	502.65	746.93	2.802.00	3.016.00	3.736.00
			35.00	274.89	549.78	816.95	3.065.00	3.299.00	4.086.00
			38.00	298.45	596.90	886.97	3.327.00	3.581.00	4.436.00
		1 1/2"	38.10	299.24	598.47	889.31	3.336.00	3.591.00	4.448.00
			40.00	314.16	628.32	933.66	3.502.00	3.770.00	4.670.00
			50.00	392.70	785.40	1.167.07	4.378.00	4.712.00	5.837.00
		2"	50.80	398.98	797.96	1.185.74	4.448.00	4.788.00	5.931.00
			62.00	486.95	973.89	1.447.17	5.429.00	5.843.00	7.238.00
		2 1/2"	63.50	498.73	997.46	1.482.18	5.560.00	5.985.00	7.413.00
		75.00	589.05	1.178.10	1.750.61	6.567.00	7.069.00	8.756.00	
	3"	76.20	598.47	1.196.95	1.778.62	6.672.00	7.182.00	8.896.00	
		100.00	785.40	1.570.80	2.334.14	8.756.00	9.425.00	11.675.00	
	4"	101.60	797.96	1.595.93	2.371.49	8.896.00	9.576.00	11.861.00	

RANGO (ESPEORES)			ALFAJOR	ASTM A-36			ASTM A-131A		ASTM A-283C		A-516 70		A-572 50		A-588 B	
CAL	MILM.	PULG.	1.0X3.0 MT	1.2X2.4 MT	1.2X6 MT	1.83X6.09 MT (6X20)	2.44X6.0 MT (8X20)	1.83X6.09 MT (6X20)	2.44X6.09 MT (8X20)	1.83X6.09 MT (6X20)	2.44X6.09 MT (8X20)	2.44X6.09 MT (8X20)	2.44X8.534 MT (8X28)	2.44X6.09 MT (8X20)	2.44X12.192 MT (8X40)	2.44X6.09 MT (8X20)
16	1.5			1.2x2.4mt												
14	1.9			1.2x2.4mt												
	2.5		1.0x3.0mt	1.2x2.4mt	1.2x6mt											
12	2.66			1.2x2.4mt												
11	3		1.0x3.0mt	1.2x2.4mt	1.2x6mt											
	3.17	1/8"		1.2x2.4mt	1.2x6mt											
	4		1.0x3.0mt	1.2x2.4mt	1.2x6mt											
	4.5		1.0x3.0mt	1.2x2.4mt	1.2x6mt	1.83 x 6.09mt		1.83 x 6.09mt		1.83 x 6.09mt						
	4.76	3/16"														
	5		1.0x3.0mt	1.2x2.4mt	1.2x6mt											
	6		1.0x3.0mt	1.2x2.4mt	1.2x6mt	1.83 x 6.09mt	2.44 x 6.09mt									
	6.35	1/4"				1.83 x 6.09mt	2.44 x 6.09mt	1.83 x 6.09mt	2.44 x 6.09mt	1.83 x 6.09mt	2.44 x 6.09mt	2.44 x 6.09mt	2.44 x 8.534	2.44 x 6.09mt	2.44 x 12.192	2.44 x 6.09mt
	8	5/16"	1.0x3.0mt	1.2x2.4mt	1.2x6mt	1.83 x 6.09mt	2.44 x 6.09mt	1.83 x 6.09mt	2.44 x 6.09mt	1.83 x 6.09mt	2.44 x 6.09mt	2.44 x 6.09mt	2.44 x 8.534	2.44 x 6.09mt	2.44 x 12.192	2.44 x 6.09mt
	9					1.83 x 6.09mt	2.44 x 6.09mt									
	9.53	3/8"				1.83 x 6.09mt	2.44 x 6.09mt	1.83 x 6.09mt	2.44 x 6.09mt	1.83 x 6.09mt	2.44 x 6.09mt	2.44 x 6.09mt	2.44 x 8.534	2.44 x 6.09mt	2.44 x 12.192	2.44 x 6.09mt
	12			1.2x2.4mt	1.2x6mt											
	12.7	1/2"				1.83 x 6.09mt	2.44 x 6.09mt	1.83 x 6.09mt	2.44 x 6.09mt	1.83 x 6.09mt	2.44 x 6.09mt	2.44 x 6.09mt	2.44 x 8.534	2.44 x 6.09mt	2.44 x 12.192	2.44 x 6.09mt
	15					1.83 x 6.09mt	2.44 x 6.09mt									
	15.88	5/8"						2.44 x 6.09mt		2.44 x 6.09mt		2.44 x 6.09mt	2.44 x 8.534	2.44 x 6.09mt	2.44 x 12.192	2.44 x 6.09mt
	19							2.44 x 6.09mt		2.44 x 6.09mt		2.44 x 6.09mt	2.44 x 8.534	2.44 x 6.09mt	2.44 x 12.192	2.44 x 6.09mt
	19.05	3/4"						2.44 x 6.09mt		2.44 x 6.09mt		2.44 x 6.09mt	2.44 x 8.534	2.44 x 6.09mt	2.44 x 12.192	2.44 x 6.09mt
	22															
	22.23	7/8"										2.44 x 6.09mt	2.44 x 8.534	2.44 x 6.09mt	2.44 x 12.192	2.44 x 6.09mt
	25					1.83 x 6.09mt	2.44 x 6.09mt									
	25.4	1"						2.44 x 6.09mt		2.44 x 6.09mt		2.44 x 6.09mt	2.44 x 8.534	2.44 x 6.09mt	2.44 x 12.192	2.44 x 6.09mt
	28.5	1 1/8"										2.44 x 6.09mt	2.44 x 8.534	2.44 x 6.09mt	2.44 x 12.192	2.44 x 6.09mt
	31.75	1 1/4"										2.44 x 6.09mt	2.44 x 8.534	2.44 x 6.09mt	2.44 x 12.192	2.44 x 6.09mt
	32						2.44 x 6.09mt									
	38						2.44 x 6.09mt									
	38.1	1 1/2"										2.44 x 6.09mt	2.44 x 8.534	2.44 x 6.09mt	2.44 x 12.192	2.44 x 6.09mt
	50						2.44 x 6.09mt									
	50.8	2"												2.44 x 6.09mt	2.44 x 12.192	2.44 x 6.09mt
	63						2.44 x 6.09mt									
	63.5	2 1/2"														
	75						2.44 x 6.09mt									
	76.2	3"														
	100						2.44 x 6.09mt									
	101.6	4"														
TOTALES			7	13	10	12	18	5	7	5	7	11	11	10	10	10
GENERAL			136													