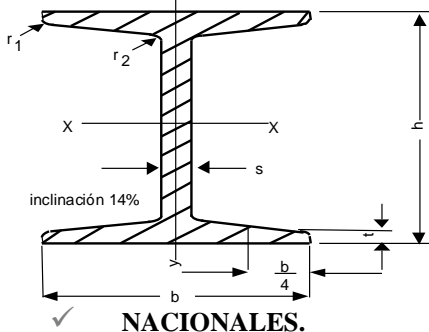




VIGAS

VIGAS IPN



DIMENSIONES

h: Altura
 b: Ancho del ala
 s: Espesor del alma
 t: Espesor del ala
 r: Angulo

MOMENTO RESPECTO A LOS EJES

I = Momento de Inercia.
 S = Momento de Resistencia
 R = Radio de Inercia, siempre referido al eje De reflexión correspondiente.

Longitud de 12 metros

Calidad ⇒ COVENIN 1149:2005

⇒ ASTM - A - 36.

⇒ ST - 37 - 2.

Grado de Acero: Covenin AE-25

✓ NACIONALES.

IPN (I)	DIMENSIONES (mm)						AREA cm ²	PESO kg/m	MOMENTO RESPECTO A LOS EJES					
	h	b	s	t	r ₁	r ₂			EJE X - X			EJE Y - Y		
									I _x cm ⁴	S _x cm ³	R _x cm	I _y cm ⁴	S _y cm ³	R _y cm
60	60	3.6	5.3	-	-	-	5.35	4.20	30.40	10.1	2.38	3.04	1.79	0.75
80	80	42	4.2	5.9	3.9	2.3	7.77	6.10	78.40	19.6	3.18	6.29	2.99	0.90
100	100	50	4.5	6.8	4.5	2.7	10.60	8.34	171.00	34.2	4.01	12.20	4.88	1.07
120	120	58	5.1	7.7	5.1	3.1	14.20	11.10	328.00	54.7	4.81	21.50	7.41	1.23
140	140	66	5.7	8.6	5.7	3.4	18.20	14.30	573.00	81.9	5.61	35.20	10.70	1.40

✓ IMPORTADAS.

160	160	74	6.3	9.5	6.3	3.8	22.8	17.90	935.0	117.0	6.40	54.70	14.80	1.55
180	180	82	6.9	10.4	6.9	4.1	27.9	21.90	1450.0	161.0	7.20	81.30	19.80	1.71
200	200	90	7.5	11.3	7.5	4.5	33.4	26.20	2140.0	214.0	8.00	117.00	26.00	1.87
220	220	98	8.1	12.2	8.1	4.9	39.5	31.10	3060.0	278.0	8.80	162.00	33.10	2.02
240	240	106	8.7	13.1	8.7	5.2	46.1	36.20	4250.0	354.0	9.59	221.00	41.70	2.20
260	260	113	9.4	14.1	9.4	5.6	53.3	41.90	5740.0	442.0	10.40	288.00	51.00	2.32
280	280	119	10.1	15.2	10.1	6.1	61.0	47.90	7590.0	542.0	11.10	364.00	61.20	2.45
300	300	125	10.8	16.2	10.8	6.5	69.0	54.20	9800.0	653.0	11.90	451.00	72.20	2.56
320	320	131	11.5	17.3	11.5	6.9	77.7	61.00	12510.0	782.0	12.70	555.00	84.70	2.67
340	340	137	12.2	18.3	12.2	7.3	86.7	68.00	15700.0	923.0	13.50	674.00	98.40	2.80
360	360	143	13.0	19.5	13.0	7.8	97.0	76.10	19610.0	1090.0	14.20	818.00	114.00	2.90
380	380	149	13.7	20.5	13.7	8.2	107.0	84.00	24010.0	1260.0	15.00	975.00	131.00	3.02
400	400	155	14.4	21.6	14.4	8.6	118.0	92.40	29210.0	1460.0	15.70	1160.00	149.00	3.13
425	425	163	15.3	23.0	15.3	9.2	132.0	104.00	36970.0	1740.0	16.70	1440.00	176.00	3.30
450	450	170	16.2	24.3	16.2	9.7	147.0	115.00	45850.0	2040.0	17.70	1730.00	203.00	3.43
475	475	178	17.1	25.6	17.1	10.3	163.0	128.00	56480.0	2380.0	18.60	2090.00	235.00	3.60
500	500	185	18.0	27.0	18.0	10.8	179.0	141.00	68740.0	2750.0	19.60	2480.00	268.00	3.72
550	550	200	19.0	30.0	19.0	11.9	212.0	166.00	99180.0	3610.0	21.60	3490.00	349.00	4.02
600	600	215	21.6	32.4	21.6	13.0	254.0	199.00	139000.0	4630.0	23.40	4670.00	434.00	4.30