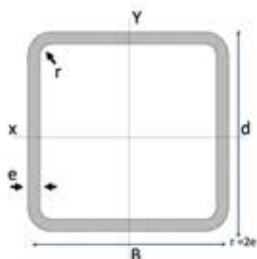


TUBERÍA ESTRUCTURAL

TUBERÍA DE ACERO

ESTRUCTURAL CUADRADA



REF	Dimensiones Nominales			Dimensión de diseño		t_{efecto}	b/t	Área de diseño de la sección [mm ²]	EJE DE SIMETRÍA				Saint Venant J [mm ⁴]	Área superficial [m ² /m]	Peso Nominal [kg/m]
	A [mm]	B[mm]	t[mm]	b[mm]	[mm]				I	S	r	Z			
TUBERÍA CUADRADA	A [mm]	B[mm]	t[mm]	b[mm]	[mm]			[mm ⁴]	[mm ³]	[mm]	[mm ³]	[mm ⁴]	[m ² /m]	[kg/m]	
25 x 25	25	25	1,5	16,00	1,40	11,47	123	10.907	873	9,42	1.057	18.348	0,092	1,16	
	25	25	2,0	13,00	1,86	6,99	156	13.049	1.044	9,13	1.301	23.046	0,090	1,51	
	25	25	2,5	10,00	2,33	4,30	186	14.517	1.161	8,83	1.493	27.106	0,087	1,84	
30 x 30	30	30	2,0	18,00	1,86	9,68	194	24.258	1.617	11,19	1.977	41.446	0,110	1,82	
	30	30	2,5	15,00	2,33	6,45	233	27.660	1.844	10,90	2.310	49.282	0,107	2,26	
	30	30	3,0	12,00	2,79	4,30	268	30.103	2.007	10,59	2.581	56.207	0,105	2,66	
40 x 40	40	40	1,5	31,00	1,40	22,22	207	50.056	2.503	15,57	2.943	80.261	0,152	1,87	
	40	40	2,0	28,00	1,86	15,05	268	62.719	3.136	15,30	3.748	103.194	0,150	2,45	
	40	40	2,5	25,00	2,33	10,75	326	73.487	3.674	15,02	4.466	124.332	0,147	3,02	
	40	40	3,0	22,00	2,79	7,89	380	82.432	4.122	14,73	5.100	143.742	0,145	3,57	
50 x 50	50	50	1,5	41,00	1,40	29,39	262	101.367	4.055	19,66	4.724	160.183	0,192	2,24	
	50	50	2,0	38,00	1,86	20,43	342	128.769	5.151	19,39	6.076	207.506	0,190	3,08	
	50	50	2,5	35,00	2,33	15,05	419	153.123	6.125	19,12	7.320	251.939	0,187	3,81	
	50	50	3,0	32,00	2,79	11,47	491	174.516	6.981	18,84	8.455	293.566	0,185	4,51	
60 x 60	60	60	1,5	51,00	1,40	36,56	318	179.356	5.979	23,74	6.923	280.788	0,232	2,81	
	60	60	2,0	48,00	1,86	25,81	417	229.848	7.662	23,48	8.963	365.543	0,230	3,71	
	60	60	2,5	45,00	2,33	19,35	512	275.866	9.196	23,22	10.871	446.052	0,227	4,59	
	60	60	3,0	42,00	2,79	15,05	603	317.515	10.584	22,95	12.648	522.420	0,225	5,45	
70 x 70	70	70	2,0	58,00	1,86	31,18	491	373.396	10.668	27,57	12.407	588.463	0,270	4,34	
	70	70	2,5	55,00	2,33	23,66	605	451.017	12.886	27,31	15.119	720.622	0,267	5,38	
	70	70	3,0	52,00	2,79	18,64	715	522.589	14.931	27,04	17.678	847.044	0,265	6,39	
90 x 90	90	90	2,0	78,00	1,86	41,94	640	817.658	18.170	35,74	20.970	1.273.597	0,350	5,59	
	90	90	2,5	75,00	2,33	32,26	791	995.743	22.128	35,49	25.709	1.566.932	0,347	6,95	
	90	90	3,0	72,00	2,79	25,81	938	1.163.604	25.858	35,22	30.249	1.850.560	0,345	8,28	
100 x 100	100	100	2,0	88,00	1,86	47,31	714	1.133.253	22.665	39,83	26.089	1.758.130	0,390	6,22	
	100	100	2,5	85,00	2,33	36,56	884	1.383.917	27.678	39,57	32.050	2.166.572	0,387	7,73	
	100	100	3,0	82,00	2,79	29,39	1.049	1.621.864	32.437	39,31	37.790	2.562.932	0,385	9,22	
	100	100	4,0	76,00	3,72	20,43	1.370	2.060.301	41.206	38,78	48.609	3.320.100	0,379	12,14	
	100	100	6,0	64,00	5,58	11,47	1.966	2.792.252	55.845	37,69	67.643	4.697.061	0,369	17,75	
120 x 120	120	120	4,0	96,00	3,72	25,81	1.667	3.677.563	61.293	46,97	71.701	5.848.682	0,459	14,81	
	135 x 135	135	135	4,0	111,00	3,72	29,84	1.890	5.329.924	78.962	53,10	91.949	8.416.638	0,519	16,69
150 x 150	135	135	6,0	99,00	5,58	17,74	2.747	7.438.253	110.196	52,04	130.737	12.095.906	0,509	24,58	
	150	150	4,0	126,00	3,72	33,87	2.114	7.414.726	98.863	59,23	114.709	11.643.882	0,579	18,57	
200 x 200	150	150	6,0	114,00	5,58	20,43	3.082	10.430.275	139.070	58,18	164.055	16.808.007	0,569	27,41	
	150	150	9,0	96,00	8,37	11,47	4.423	14.135.777	188.477	56,53	228.295	23.778.871	0,554	40,08	
	200	200	5,0	170,00	4,65	36,56	3.535	22.142.674	221.427	79,14	256.400	34.665.159	0,774	30,88	
220 x 220	200	200	7,0	158,00	6,51	24,27	4.846	29.556.280	295.563	78,10	346.472	47.158.129	0,764	42,70	
	200	200	9,0	146,00	8,37	17,44	6.097	36.178.243	361.782	77,03	429.529	58.900.090	0,754	54,21	
	220	220	7,0	178,00	6,51	27,34	5.366	39.947.001	363.155	86,28	424.026	63.345.184	0,844	47,09	
250 x 250	220	220	9,0	166,00	8,37	19,83	6.767	49.140.333	446.730	85,22	527.600	79.333.598	0,834	59,86	
	250	250	9,0	196,00	8,37	23,42	7.771	73.861.649	590.893	97,49	693.538	118.080.455	0,954	68,34	
300 x 300	300	300	10,0	240,00	9,30	25,81	10.420	143.654.801	957.699	117,41	1.120.328	228.464.141	1,148	91,25	
	300	300	12,0	228,00	11,16	20,43	12.327	166.884.397	1.112.563	116,35	1.312.443	268.928.112	1,138	108,60	