

Première édition

2021

# MANUEL DES PROPRIÉTÉS GÉOMÉTRIQUES DE SECTIONS EXTRUDÉES EN ALUMINIUM



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## ALUQUÉBEC

AluQuébec réunit les producteurs d'aluminium, les transformateurs, les équipementiers, les fournisseurs spécialisés, les centres de R-D ainsi que les institutions d'enseignement liés à l'industrie.

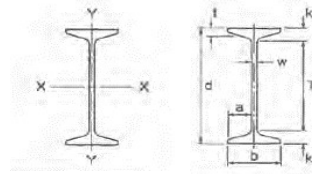
Comme instance fédératrice de l'ensemble de cet écosystème, AluQuébec stimule le développement et le rayonnement de la chaîne de valeur de l'industrie québécoise de l'aluminium autour de solutions concrètes afin de développer le plein potentiel de l'industrie et accroître l'utilisation du matériau.

Le rôle d'AluQuébec est d'agir comme levier pour l'industrie de l'aluminium d'ici en assurant la cohérence et la convergence entre les parties prenantes pour faciliter et favoriser la prise d'actions globales et porteuses qui répondent aux besoins de l'industrie et dont les répercussions seront bénéfiques pour l'ensemble du Québec tout en assurant un rayonnement à l'international.

Concrètement, AluQuébec collabore avec l'industrie à l'intérieur de groupes de travail – appelés chantiers – à la mise en place des projets arrimés aux besoins des entreprises qui composent la filière aluminium. De plus, AluQuébec fait la promotion de l'utilisation et de l'intégration de l'aluminium dans des secteurs d'activité porteurs tels que le bâtiment, la construction durable, les infrastructures, les ponts et les passerelles ainsi que le transport, notamment en offrant un appui technique complet et de la formation pour soutenir l'innovation et la R-D en entreprise via le Centre d'expertise et d'innovation sur l'aluminium d'AluQuébec (CeIAI).

L'équipe du CeIAI accompagne les entreprises, les professionnels et la relève afin de faciliter une plus grande utilisation de l'aluminium. Le CeIAI se veut une référence au Québec en termes d'information, de formations sur les normes, les alliages, les contraintes, etc. Le CeIAI est aussi un partenaire dans le développement de concepts qui permettront de mener à bien des projets novateurs avec l'aluminium.

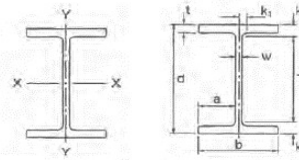
S SHAPES



S SHAPES

Extrudeur	Emplacement	Identification de la section du fabricant	Identification de la section	Poids nominale	Aire	Axe X-X				Axe Y-Y				Constante de torsion	Constante de gauchissement	Masse théorique	Profondeur	Aile		Épaisseur de l'âme	Distances			Aire par mètres de longueur						
						lx	Sx	rx	Zx	ly	Sy	ry	Zy					J	C_W		ω	d	b	Valeur moyenne de l'épaisseur	w	a	T	k	Total	Sans la surface de l'aile supérieure
						10 <sup>6</sup> mm <sup>4</sup>	10 <sup>2</sup> mm <sup>3</sup>	mm	10 <sup>3</sup> mm <sup>3</sup>	10 <sup>6</sup> mm <sup>4</sup>	10 <sup>2</sup> mm <sup>3</sup>	mm	10 <sup>3</sup> mm <sup>3</sup>					10 <sup>3</sup> mm <sup>4</sup>	10 <sup>6</sup> mm <sup>6</sup>		kg/m	mm	mm	mm	mm	mm	mm	mm	mm	m <sup>2</sup>
Extrudex	Québec	S-18183		0.0023	930	1.555	30.61	50.30	35.39	0.118	4.36	15.68	7.26	8.524	0.262	0.233	101.6	54.0	3.81	4.1	25.0	81.9	9.9	0.394	0.340					

PROFILÉS EN I



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Extrudeur	Emplacement	Identification de la section du fabricant	Identification de la section	Poids nominale	Aire	Axe X-X				Axe Y-Y				Constante de torsion	Constante de gauchissement	Masse théorique	Profondeur	Aile		Épaisseur de l'âme	Distances					Aire par mètres de longueur	
						Ix	Sx	rx	Zx	Iy	Sy	ry	Zy					b	Valeur moyenne de l'épaisseur		a	T	k	k_1	d-2t	Total	Sans la surface de l'aile supérieure
Extrudex	Toronto	S-20745		0.0178	7168	53.602	527.57	86.48	593.36	17.802	175.21	49.84	269.05	445.960	156.760	1.812	203.2	203.2	12.70	9.53	96.8	139.7	31.8	23.8	177.8	1.167	0.964
Extrudex	Toronto	S-17391		0.0146	5884	45.646	449.27	88.08	497.45	15.389	151.47	51.14	230.01	230.070	140.750	1.488	203.2	203.2	11.00	7.32	97.9	160.9	21.2	13.8	181.2	1.187	0.984
Extrudex	Ohio	S-26325		0.0080	3239	23.615	232.43	85.39	260.43	3.096	46.44	30.92	71.43	64.545	29.241	0.819	203.2	133.4	7.82	5.84	63.8	171.3	16.0	11.0	187.6	0.914	0.781
Extrudex	Toronto	S-27029		0.0119	4807	34.306	337.65	84.48	384.79	4.353	68.56	30.10	106.45	255.650	38.406	1.215	203.2	127.0	12.70	7.90	59.6	149.2	27.0	18.2	177.8	0.874	0.747
Extrudex	Ohio	S-21927		0.0096	3853	28.212	277.68	85.57	312.25	3.561	56.07	30.40	86.07	121.870	32.750	0.974	203.2	127.0	10.41	6.35	60.3	167.1	18.0	10.8	182.4	0.889	0.762
Extrudex	Toronto	S-24405		0.0079	3182	17.853	200.82	74.90	226.08	2.406	42.10	27.50	64.63	87.923	16.803	0.805	177.8	114.3	9.65	5.84	54.2	143.3	17.3	10.5	158.5	0.788	0.674
Extrudex	Toronto	S-24769		0.0128	5159	20.859	273.74	63.59	313.59	7.505	98.50	38.14	150.90	275.610	35.885	1.304	152.4	152.4	12.70	9.53	71.4	108.0	22.2	14.3	127.0	0.879	0.727
Hydro	Montreal	AS-45766		0.0101	4018	16.639	218.35	64.35	246.28	5.627	73.84	37.42	113.03	124.940	28.299	1.033	152.4	152.4	9.53	7.94	72.2	117.4	17.5	11.9	133.4	0.885	0.732
Extrudex	Toronto	S-5411		0.0104	4177	17.271	226.66	64.30	256.34	5.639	74.00	36.74	114.34	159.600	27.713	1.056	152.4	152.4	9.53	7.92	72.2	101.6	25.4	19.8	133.4	0.871	0.719
Extrudex	Ohio	S-58		0.0073	2963	12.557	164.80	65.10	183.27	4.034	52.94	36.90	80.79	47.841	21.178	0.749	152.4	152.4	6.83	6.10	73.2	126.0	13.2	9.4	138.7	0.891	0.739
Extrudex	Toronto	S-20791		0.0074	2994	11.740	154.07	62.63	176.81	1.673	32.94	23.64	51.50	96.316	8.271	0.757	152.4	101.6	9.53	7.14	47.2	111.2	20.6	14.7	133.4	0.678	0.576
Hydro	Montreal	MS-17279		0.0056	2222	9.169	120.33	64.24	135.13	1.290	25.39	24.10	39.05	38.299	6.686	0.569	152.4	101.6	7.37	4.90	48.3	122.4	15.0	10.1	137.7	0.688	0.587
Extrudex	Ohio	S-57		0.0057	2282	9.053	118.80	62.98	134.88	1.242	24.44	23.33	37.91	37.912	6.465	0.577	152.4	101.6	7.09	5.84	47.9	125.5	13.4	9.3	138.2	0.689	0.587
Hydro	Montreal	AS-8126		0.0066	2647	10.350	135.83	62.53	156.06	1.122	25.24	20.59	39.59	81.811	5.537	0.669	152.4	88.9	9.53	6.35	41.3	111.1	20.7	14.3	133.4	0.629	0.540
Extrudex	Toronto	S-3859		0.0066	2647	10.350	135.83	62.53	156.06	1.122	25.24	20.59	39.59	81.811	5.537	0.669	152.4	88.9	9.53	6.35	41.3	111.1	20.7	14.3	133.4	0.629	0.540
Hydro	Montreal	AS-7696		0.0053	2153	7.998	104.96	60.95	122.02	0.590	15.48	16.55	24.80	48.600	2.974	0.542	152.4	76.2	7.92	6.35	34.9	117.5	17.4	12.7	136.6	0.581	0.504
Extrudex	Toronto	S-4851		0.0093	3759	13.887	198.81	60.78	219.91	8.252	89.62	46.85	135.89	81.302	35.453	0.951	139.7	184.2	7.92	6.35	88.9	108.0	15.8	11.1	123.9	0.990	0.806
Hydro	Montreal	AS-8304		0.0085	3451	9.652	152.00	52.88	174.14	3.267	51.44	30.77	79.77	130.420	10.755	0.868	127.0	127.0	9.53	7.92	59.5	79.3	23.8	18.3	108.0	0.722	0.595
Extrudex	Toronto, Ohio	S-4403		0.0086	3451	9.650	151.97	52.88	174.11	3.267	51.44	30.77	79.77	130.340	10.756	0.872	127.0	127.0	9.53	7.92	59.5	79.4	23.8	18.2	108.0	0.722	0.595
Extrudex	Toronto, Ohio	S-20801		0.0074	3009	8.375	131.89	52.75	150.39	2.724	42.89	30.09	66.56	81.588	9.328	0.760	127.0	127.0	7.95	7.95	59.5	88.8	19.1	15.1	111.1	0.727	0.600
Extrudex	Québec	S15419		0.0041	1686	4.266	67.19	50.30	78.48	0.415	10.88	15.68	17.85	29.345	1.451	0.423	127.0	76.2	11.10	6.35	34.9	93.7	16.6	14.6	104.8	0.527	0.451
Hydro	Montreal	AS-8127		0.0047	2236	6.081	95.77	52.15	110.72	0.753	19.77	18.35	30.76	72.693	2.484	0.475	127.0	76.2	10.16	5.72	35.2	87.6	19.7	12.4	106.7	0.531	0.455
Extrudex	Toronto	S-2296		0.0042	1686	4.266	67.19	50.30	78.48	0.415	10.88	15.68	17.85	29.335	1.451	0.426	127.0	76.2	5.54	6.35	34.9	93.7	16.6	14.3	115.9	0.527	0.451
Extrudex	Toronto	S-20807		0.0032	1305	2.357	42.42	42.50	50.84	0.142	5.58	10.42	9.35	21.220	0.370	0.330	111.1	50.8	6.35	6.35	22.2	85.7	12.7	9.5	98.4	0.402	0.351
Hydro	Montreal	AS-8060		0.0056	2261	4.049	79.69	42.32	91.39	1.391	27.38	24.80	42.37	56.782	2.919	0.570	101.6	101.6	7.92	6.35	47.6	63.6	19.0	14.3	85.8	0.578	0.476
Extrudex	Toronto, Ohio	S-5258		0.0056	2261	4.049	79.69	42.32	91.39	1.391	27.38	24.80	42.37	56.773	2.919	0.572	101.6	101.6	7.92	6.35	47.6	63.6	19.0	14.3	85.8	0.578	0.476
Extrudex	Ohio	S-26738		0.0052	2243	3.676	72.37	40.48	84.73	1.122	22.09	22.37	35.56	61.098	2.380	0.532	101.6	101.6	6.35	9.53	46.0	66.7	17.4	15.9	88.9	0.571	0.470
Hydro	Montreal	AS-7652		0.0042	1468	2.617	51.51	42.22	58.78	0.471	12.36	17.91	19.29	23.283	1.026	0.426	101.6	76.2	7.92	4.75	35.7	69.9	15.9	11.9	85.8	0.482	0.406
Extrudex	Ohio	S-30270		0.0042	1695	3.037	0.05	42.32	68.53	0.587	15.41	18.61	23.85	37.196	1.239	0.429	101.6	76.2	7.92	4.78	35.7	66.7	17.4	11.9	85.8	0.482	0.406
Hydro	Montreal	AS-7626		0.0036	1471	2.618	51.54	42.20	58.83	0.471	12.36	17.90	19.30	23.362	1.026	0.369	101.6	76.2	6.35	4.78	35.7	69.9	15.9	11.9	88.9	0.482	0.406
Extrudex	Toronto	S-27040		0.0036	1471	2.618	51.54	42.20	58.83	0.471	12.36	17.90	19.30	23.362	1.026	0.372	101.6	76.2	6.35	4.78	35.7	69.9	15.9	11.9	88.9	0.482	0.406
Extrudex	Toronto	S-23023		0.0031	1268	2.340	46.07	42.97	51.84	0.432	11.33	18.45	17.40	14.203	0.971	0.320	101.6	76.2	5.84	3.81	36.2	77.2	12.2	8.3	89.9	0.489	0.413
Extrudex	Québec	S-12408		0.0037	1486	2.451	48.24	40.61	56.28	0.363	10.39	15.63	16.54	23.995	0.795	0.373	101.6	69.9	6.35	6.35	31.8	76.2	12.7	9.5	88.9	0.458	0.388
Extrudex	Ohio	S-26468		0.0023	941	1.669	32.86	42.11	37.33	0.170	5.96	13.45	9.20	7.807	0.390	0.238	101.6	57.2	5.46	3.43	26.9	85.3	8.1	4.4	90.7	0.420	0.363
Hydro	Montreal	MS-18608		0.0009	322	0.310	8.14	31.06	9.30	0.015	0.96	6.73	1.50	0.826	0.019	0.090	95.25	30.15	3.18	1.83	14.2	66.5	4.8	2.6	88.9	0.27	0.24
Metra	Laval	28007		0.0055	2591	3.668	82.33	37.63	94.09	2.720	42.83	32.40	65.46	65.216	4.303	0.557	88.9	127.0	7.95	6.35	60.3	51.0	19.1	14.3	73.0	0.654	0.527
Extrudex	Québec	S-20044		0.0017	714	0.746	19.58	32.31	21.84	0.234	6.15	18.11	9.41	2.716	0.309	0.177	76.2	76.2	3.18	3.18	36.5	63.5	6.4	4.8	69.9	0.445	0.369
Hydro	Montreal	AS-7625		0.0029	1186	1.157	30.36	31.23	35.27	0.273	8.61	15.18	13.51	20.079	0.312	0.298	76.2	63.5	6.35	4.75	29.4	44.5	15.9	11.9	63.5	0.381	0.317
Hydro	Montreal	MS-55927		0.0030	1186	1.157	30.36	31.23	35.27	0.273	8.61	15.18	13.51	20.079	0.312	0.305	76.2	63.5	6.35	4.75	29.4	44.5	15.9	11.9	63.5	0.381	0.317
Extrudex	Toronto	S-23017		0.0029	1186	1.157	30.36	31.23	35.27	0.273	8.61	15.18	13.51	20.079	0.312	0.300	76.2	63.5	6.35	4.75	29.4	44.5	15.9	11.9	63.5	0.381	0.317
Extrudex	Toronto	S-6872		0.0025	1027	0.960	25.19	30.58	29.66	0.141	5.56	30.58	8.91	17.905	0.159	0.259	76.2	50.8	6.35	4.78	23.0	44.5	15.9	11.9	63.5	0.330	0.279

TUBES RONDS



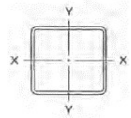
Extrudeur	Emplacement	Identification de la section du fabricant	Identification de la section	Dimension extérieure	Épaisseur	Masse	Charge morte	Aire	I	S	r	Z	Constante de torsion J	Aire par mètres de longueur
Extrudeur	Toronto	H-20787	HSS 273x5.1	273.1	5.08	1.08	0.011	4272	36.320	280.73	94.7	364.25	76829	0.858
Extrudeur	Toronto	H-17180	HSS 219x8.2	219.1	8.18	1.37	0.013	5570	32.793	291.33	76.7	384.68	65584	0.688
Extrudeur	Toronto	H-16450	HSS 203x12	203.2	11.51	1.75	0.017	6922	31.876	313.80	67.9	422.65	63751	0.638
Extrudeur	Toronto	H-14304	HSS 203x7.1	203.2	7.14	1.11	0.011	4392	21.108	207.80	69.3	274.05	42214	0.638
Hydro	Montreal	AH-40797	HSS 203x6.4	203.2	6.35	10.87	0.107	3923	19.001	187.05	69.6	245.76	38000	0.638
Extrudeur	Toronto	H-25529	HSS 203x6.4	203.2	6.35	0.99	0.10	3923	19.001	187.05	69.6	245.76	38000	0.638
Hydro	Montreal	AH-39439	HSS 203x4.8	203.2	4.78	8.24	0.081	2974	14.628	144.00	70.1	187.75	29252	0.638
Hydro	Montreal	AH-40650	HSS 203x4	203.2	3.96	6.73	0.066	2478	12.285	120.94	70.4	157.06	24568	0.638
Hydro	Montreal	AH-60554	HSS 178x6.4	177.8	6.35	9.47	0.093	3417	12.558	141.29	80.6	186.45	25115	0.559
Hydro	Montreal	AH-59663	HSS 178x5.6	177.8	5.56	1.15	0.011	3007	11.150	125.44	60.9	164.82	22298	0.559
Hydro	Montreal	AH-56370	HSS 178x4.8	177.8	4.78	7.19	0.070	2593	9.700	109.14	61.2	142.77	19399	0.559
Hydro	Montreal	AH-40433	HSS 178x4	177.8	3.96	5.99	0.059	2162	8.161	91.82	61.4	119.57	16321	0.559
Hydro	Montreal	AH-47714	HSS 168x11	168.3	10.97	14.71	0.144	5417	16.818	199.93	55.7	271.52	33636	0.529
Extrudeur	Toronto, Ohio	H-21962	HSS 168x11	168.3	10.97	1.37	0.013	5417	16.818	199.93	55.7	271.52	33636	0.529
Hydro	Montreal	AH-41758	HSS 168x7.1	168.3	7.11	9.80	0.096	3597	11.689	138.95	57.0	184.55	23377	0.529
Extrudeur	Toronto, Ohio	H-9036	HSS 168x7.1	168.3	7.11	0.91	0.009	3597	11.689	138.95	57.0	184.55	23377	0.529
Extrudeur	Toronto	H-6399	HSS 168x3.4	168.3	3.40	0.45	0.04	1761	5.980	71.09	58.3	92.39	11959	0.529
Extrudeur	Ohio	H-5063	HSS 168x2.6	168.3	2.64	0.35	0.003	1373	4.705	55.93	58.5	72.36	9409	0.529
Hydro	Montreal	AH-60053	HSS 168x3.4	165.7	3.40	4.81	0.047	1734	5.708	68.89	57.4	89.56	11415	0.521
Hydro	Montreal	AH-07227	HSS 152x6.4	152.4	6.35	7.93	0.078	2911	7.677	101.95	51.7	135.32	15533	0.479
Extrudeur	Toronto, Ohio	H-17229	HSS 152x6.4	152.4	6.35	0.74	0.007	2911	7.677	101.95	51.7	135.32	15533	0.479
Hydro	Montreal	AH-41576	HSS 152x4.8	152.4	4.78	6.13	0.060	2212	6.027	79.10	52.2	103.94	12052	0.479
Extrudeur	Toronto, Ohio	H-23194	HSS 152x4.8	152.4	4.78	0.56	0.005	2212	6.027	79.10	52.2	103.94	12052	0.479
Hydro	Montreal	MH-17235	HSS 152x4.8	152.4	4.78	6.13	0.060	2212	6.027	79.10	52.2	103.94	12052	0.479
Metra	Laval	96881	HSS 152x4.7	152.4	4.75	0.55	0.005	2201	5.998	78.72	52.2	103.42	11994	0.479
Hydro	Montreal	MH-16971	HSS 152x4	152.4	3.96	5.11	0.050	1846	5.082	66.71	52.5	87.19	10163	0.479
Hydro	Montreal	MH-41271	HSS 152x3.2	152.4	3.18	4.12	0.040	1487	4.136	54.29	52.7	70.60	8272	0.479
Metra	Laval	96543	HSS 141x9.5	141.3	9.53	0.99	0.010	3939	8.586	121.55	46.7	165.42	17171	0.444
Hydro	Montreal	AH-49870	HSS 141x9.5	141.3	9.53	10.70	0.105	3939	8.586	121.55	46.7	165.42	17171	0.444
Extrudeur	Toronto, Ohio	H-20331	HSS 141x9.5	141.3	9.53	1.00	0.010	3939	8.586	121.55	46.7	165.42	17171	0.444
Metra	Laval	96640	HSS 141x6.6	141.3	6.55	0.70	0.007	2771	6.298	89.16	47.7	118.89	12595	0.444
Hydro	Montreal	AH-45781	HSS 141x6.6	141.3	6.55	7.53	0.074	2771	6.298	89.16	47.7	118.89	12595	0.444
Extrudeur	Toronto, Ohio	H-17417	HSS 141x6.6	141.3	6.55	0.70	0.007	2771	6.298	89.16	47.7	118.89	12595	0.444
Hydro	Montreal	AH-07185	HSS 141x3.4	141.3	3.40	4.00	0.039	1473	3.500	49.54	48.7	64.63	6908	0.444
Hydro	Montreal	MH-18292	HSS 140x4.8	139.7	4.78	5.60	0.055	2022	4.602	65.90	47.7	86.83	9204	0.439
Extrudeur	Ohio	H-24621	HSS 127x11	127.0	11.10	1.02	0.010	4037	6.834	107.64	41.1	149.32	13668	0.399
Hydro	Montreal	AH-53721	HSS 127x4	127.0	6.35	6.66	0.065	2404	4.382	43.83	42.7	82.37	8765	0.399
Hydro	Montreal	AH-07080	HSS 127x6.3	127.0	6.27	6.45	0.063	2377	4.338	68.32	42.7	91.38	8675	0.399
Hydro	Montreal	MH-16676	HSS 127x6.3	127.0	6.27	6.59	0.065	2377	4.338	68.32	42.7	91.38	8675	0.399
Extrudeur	Toronto, Ohio	H-20332	HSS 127x6.2	127.0	6.22	0.60	0.006	2359	4.308	67.85	42.7	90.71	8615	0.399
Extrudeur	Toronto	H-23250	HSS 127x4.8	127.0	4.78	0.46	0.005	1832	3.422	53.90	43.2	71.26	6844	0.399
Hydro	Montreal	AH-07083	HSS 127x4.8	127.0	4.76	4.96	0.049	1832	3.422	53.90	43.2	71.26	6844	0.399
Hydro	Montreal	MH-16601	HSS 127x4.8	127.0	4.76	5.07	0.050	1832	3.422	53.90	43.2	71.26	6844	0.399
Hydro	Montreal	MH-62791	HSS 127x4.8	127.0	4.76	5.08	0.050	1832	3.422	53.90	43.2	71.26	6844	0.399
Metra	Laval	96879	HSS 127x4.7	127.0	4.75	0.46	0.004	1822	3.406	53.65	43.2	70.91	6811	0.399
Hydro	Montreal	AH-53742	HSS 127x4	127.0	3.96	4.15	0.041	1530	2.895	45.80	43.5	59.91	5790	0.399
Extrudeur	Toronto	H-23595	HSS 127x4	127.0	3.96	0.39	0.004	1530	2.895	45.80	43.5	59.91	5790	0.399
Hydro	Montreal	MH-16923	HSS 127x4	127.0	3.96	4.17	0.041	1530	2.895	45.80	43.5	59.91	5790	0.399
Hydro	Montreal	AH-07082	HSS 127x3.2	127.0	3.18	3.36	0.033	1234	2.364	37.23	43.8	48.62	4727	0.399
Hydro	Montreal	AH-42248	HSS 127x3.2	127.0	3.18	3.42	0.034	1234	2.364	37.23	43.8	48.62	4727	0.399
Extrudeur	Toronto	H-23550	HSS 127x3.2	127.0	3.18	0.31	0.003	1234	2.364	37.23	43.8	48.62	4727	0.399
Hydro	Montreal	MH-17188	HSS 127x3.2	127.0	3.18	3.42	0.034	1234	2.364	37.23	43.8	48.62	4727	0.399
Extrudeur	Québec	V-17021	HSS 127x3.2	127.0	3.18	0.31	0.003	1234	2.363	37.23	43.8	48.60	4726	0.399
Extrudeur	Ohio	H-20779	HSS 127x2.1	127.0	2.11	0.21	0.002	826	1.610	25.36	44.1	32.84	3219	0.399
Extrudeur	Ohio	H-26757	HSS 114x13	114.3	13.49	1.08	0.011	4267	5.512	96.47	35.9	137.67	11024	0.359
Metra	Laval	96884	HSS 114x8.6	114.3	8.56	0.71	0.007	2841	3.927	69.86	37.5	95.77	7984	0.359
Hydro	Montreal	AH-07146	HSS 114x8.6	114.3	8.56	7.71	0.076	2841	3.922	69.86	37.5	95.77	7984	0.359
Extrudeur	Toronto, Ohio	H-6282	HSS 114x8.6	114.3	8.56	0.72	0.007	2841	3.922	69.86	37.5	95.77	7984	0.359
Hydro	Montreal	AH-07081	HSS 114x6	114.3	6.02	5.55	0.054	2046	3.004	52.58	38.3	70.54	6008	0.359
Hydro	Montreal	MH-14249	HSS 114x6	114.3	6.02	5.55	0.054	2046	3.004	52.58	38.3	70.54	6008	0.359
Metra	Laval	96633	HSS 114x6	114.3	6.02	0.51	0.005	2046	3.004	52.58	38.3	70.54	6008	0.359
Extrudeur	Toronto, Ohio	H-6281	HSS 114x6	114.3	6.02	0.52	0.005	2046	3.004	52.58	38.3	70.54	6008	0.359
Hydro	Montreal	AH-63053	HSS 114x4.8	114.3	4.78	4.55	0.045	1641	2.463	43.11	38.7	57.23	4926	0.359
Hydro	Montreal	MH-14343	HSS 114x4.8	114.3	4.78	4.55	0.045	1641	2.463	43.11	38.7	57.23	4926	0.359
Hydro	Montreal	MH-64654	HSS 114x4	114.3	3.96	3.80	0.037	1372	2.089	36.55	39.0	48.18	4177	0.359
Hydro	Montreal	AH-07079	HSS 114x3.2	114.3	3.18	3.01	0.030	1107	1.709	29.91	39.3	39.16	3417	0.359
Metra	Laval	97268	HSS 114x3	114.3	3.05	0.27	0.003	1064	1.646	28.81	39.3	37.68	3292	0.359
Extrudeur	Toronto	H-18705	HSS 114x3	114.3	3.05	0.27	0.003	1064	1.646	28.81	39.3	37.68	3292	0.359
Extrudeur	Ohio	H-19509	HSS 114x3	114.3	3.05	0.27	0.003	1064	1.646	28.81	39.3	37.68	3292	0.359
Extrudeur	Québec	V-15405	HSS 114x3	114.3	3.05	0.27	0.003	1064	1.646	28.81	39.3	37.68	3292	0.359
Extrudeur	Ohio	H-20780	HSS 114x2.1	114.3	2.11	0.19	0.002	742	1.167	20.43	39.7	26.50	2334	0.359
Hydro	Montreal	MH-18570	HSS 114x3.2	114.3	3.18	3.07	0.030	1107	1.709	29.91	39.3	39.16	3417	0.359
Extrudeur	Ohio	H-23670	HSS 105x9.5	104.8	9.53	0.72	0.007	2847	3.258	62.20	33.8	86.57	6516	0.329
Extrudeur	Ohio	H-23171	HSS 105x23	104.6	23.24	1.50	0.015	5938	3.314	101.58	29.9	157.95	10828	0.329
Extrudeur	Ohio	H-21379	HSS 102x13	101.6	12.70	0.90	0.009	3543	3.568	70.25	31.7	100.89	7136	0.319
Extrudeur	Ohio	H-26324	HSS 102x9.5	101.6	9.53	0.70	0.007	2752	2.945	57.98	32.7	80.91	5890	0.319
Metra	Laval	96612	HSS 102x8.1	101.6	8.08	0.60	0.006	2371	2.609	51.36	33.2	70.71	5217	0.319
Hydro	Montreal	AH-07134	HSS 102x8.1	101.6	8.08	6.44	0.063	2371	2.609	51.36	33.2	70.71	5217	0.319
Extrudeur	Toronto, Ohio	H-11496	HSS 102x8.1	101.6	8.08	0.60	0.006	2371	2.609	51.36	33.2	70.71	5217	0.319

TUBES RONDS



Extrudeur	Emplacement	Identification de la section du fabricant	Identification de la section	Dimension extérieure	Épaisseur	Masse	Charge morte	Aire	I	S	r	Z	Constante de torsion	Aire par mètres de longueur
Hydro	Montreal	MH-16269	HSS 102x2.1	101.6	2.11	1.79	0.018	658	0.214	16.03	35.2	20.84	1628	0.319
Extrudex	Toronto, Ohio	H-16034	HSS 102x1.7	101.6	1.65	0.13	0.001	518	0.646	12.72	35.3	16.47	1292	0.319
Extrudex	Québec	V-15874	HSS 102x1.7	101.6	1.65	0.13	0.001	518	0.646	12.72	35.3	16.47	1292	0.319
Metra	Laval	97337	HSS 102x1.6	101.6	1.60	0.13	0.001	502	0.627	12.35	35.3	15.98	1254	0.319
Metra	Laval	97099	HSS 102x1.3	101.6	1.27	0.10	0.001	400	0.503	9.90	35.5	12.76	1005	0.319
Extrudex	Ohio	H-891	HSS 95x13	95.3	12.70	0.83	0.008	3290	2.866	60.19	29.5	87.09	5732	0.299
Extrudex	Toronto	H-3135	HSS 95x8.7	95.3	8.74	0.60	0.006	2372	2.240	47.04	30.7	65.51	4479	0.299
Extrudex	Ohio	H-23172	HSS 92x17	91.9	16.89	1.01	0.010	3979	2.941	63.97	27.2	96.61	5881	0.289
Extrudex	Toronto	H-5299	HSS 90x5	90.0	5.00	0.34	0.003	1335	1.208	26.85	30.1	36.13	2416	0.283
Extrudex	Ohio	H-21470	HSS 89x19	88.9	19.05	1.06	0.010	4176	2.733	61.51	25.6	95.10	5467	0.279
Extrudex	Ohio	H-21356	HSS 89x9.5	88.9	9.53	0.60	0.006	2373	1.894	42.61	28.3	60.20	3787	0.279
Metra	Laval	96524	HSS 89x7.6	88.9	7.62	0.49	0.005	1944	1.618	36.40	28.8	50.41	3235	0.279
Hydro	Montreal	AH-07010	HSS 89x7.6	88.9	7.62	5.28	0.052	1944	1.618	36.40	28.8	50.41	3235	0.279
Extrudex	Toronto, Ohio	H-6857	HSS 89x7.6	88.9	7.62	0.49	0.005	1944	1.618	36.40	28.8	50.41	3235	0.279
Extrudex	Québec	V-14644	HSS 89x7.6	88.9	7.62	0.49	0.005	1944	1.618	36.40	28.8	50.41	3235	0.279
Metra	Montreal	AH-59185	HSS 89x6.4	88.9	6.35	4.56	0.045	1645	1.408	31.68	29.3	43.29	2816	0.279
Metra	Laval	96547	HSS 89x5.5	88.9	5.49	0.36	0.004	1436	1.253	28.20	29.5	38.17	2506	0.279
Hydro	Montreal	AH-07076	HSS 89x5.5	88.9	5.49	3.90	0.038	1436	1.253	28.20	29.5	38.17	2506	0.279
Extrudex	Toronto, Ohio	H-2210	HSS 89x5.5	88.9	5.49	0.36	0.004	1436	1.253	28.20	29.5	38.17	2506	0.279
Hydro	Montreal	MH-14029	HSS 89x5.5	88.9	5.49	3.90	0.038	1436	1.253	28.20	29.5	38.17	2506	0.279
Extrudex	Québec	V-15307	HSS 89x5.5	88.9	5.49	0.36	0.004	1436	1.253	28.20	29.5	38.17	2506	0.279
Metra	Laval	999349	HSS 89x4.8	88.9	4.78	0.32	0.003	1261	1.118	25.15	29.8	33.78	2235	0.279
Hydro	Montreal	AH-07022	HSS 89x4.7	88.9	4.75	3.67	0.036	1254	1.113	25.04	29.8	33.62	2225	0.279
Hydro	Montreal	MH-17805	HSS 89x4.7	88.9	4.75	3.48	0.034	1254	1.113	25.04	29.8	33.62	2225	0.279
Hydro	Montreal	MH-18794	HSS 89x3.9	88.9	3.91	2.89	0.028	1043	0.943	21.22	30.1	28.23	1886	0.279
Extrudex	Québec	V-01815	HSS 89x3.8	88.9	3.76	0.25	0.002	1015	0.920	20.69	30.1	27.49	1839	0.279
Metra	Laval	96836	HSS 89x3.2	88.9	3.18	0.21	0.002	854	0.785	17.66	30.3	23.31	1570	0.279
Hydro	Montreal	AH-60676	HSS 89x3.2	88.9	3.18	2.37	0.023	854	0.785	17.66	30.3	23.31	1570	0.279
Hydro	Montreal	MH-16675	HSS 89x3.2	88.9	3.18	2.37	0.023	854	0.785	17.66	30.3	23.31	1570	0.279
Hydro	Montreal	AH-07075	HSS 89x3	88.9	3.05	2.23	0.022	821	0.757	17.03	30.4	22.44	1514	0.279
Extrudex	Toronto, Ohio	H-16298	HSS 89x3	88.9	3.05	0.21	0.002	821	0.757	17.03	30.4	22.44	1514	0.279
Extrudex	Québec	V-18642	HSS 89x3	88.9	3.05	0.21	0.002	821	0.757	17.03	30.4	22.44	1514	0.279
Metra	Laval	97047	HSS 89x2.1	88.9	2.11	0.14	0.001	574	0.540	12.16	30.7	15.86	1081	0.279
Extrudex	Toronto	H-8495	HSS 89x2.1	88.9	2.11	0.15	0.001	574	0.540	12.16	30.7	15.86	1081	0.279
Extrudex	Québec	V-01132	HSS 83x1.7	83.0	1.65	0.11	0.001	421	0.348	8.39	28.8	10.91	697	0.261
Metra	Laval	990567	HSS 83x1.4	82.6	1.40	0.09	0.001	357	0.295	7.14	28.8	9.24	591	0.260
Extrudex	Ohio	H-26338	HSS 83x1.3	82.6	1.270	0.70	0.007	1519	1.109	26.87	27.0	36.90	2217	0.259
Hydro	Montreal	AH-07002	HSS 83x1.1	82.6	10.67	8.50	0.083	2407	1.587	38.46	25.7	55.44	3174	0.259
Extrudex	Ohio	H-26323	HSS 83x0.5	82.6	0.53	0.55	0.005	2183	1.478	35.82	26.0	51.00	2957	0.259
Extrudex	Toronto, Ohio	H-20283	HSS 83x6.4	82.6	6.35	0.38	0.004	1519	1.109	26.87	27.0	36.90	2217	0.259
Extrudex	Québec	V-20035	HSS 83x6.4	82.6	6.35	0.38	0.004	1519	1.109	26.87	27.0	36.90	2217	0.259
Extrudex	Toronto	H-5298	HSS 80x4	80.0	3.99	0.24	0.002	951	0.688	17.21	26.9	23.03	1377	0.251
Extrudex	Ohio	H-3136	HSS 78x7.1	77.8	7.14	0.40	0.004	1582	0.996	25.61	25.1	35.68	1992	0.244
Extrudex	Ohio	H-20159	HSS 76x19	76.2	19.05	0.86	0.008	3417	1.548	40.65	21.3	64.42	3097	0.239
Extrudex	Ohio	H-20281	HSS 76x13	76.2	13.11	0.66	0.006	2595	1.346	35.33	22.8	52.84	2691	0.239
Extrudex	Ohio	H-29334	HSS 76x13	76.2	12.70	0.64	0.006	2531	1.325	34.79	22.9	51.81	2651	0.239
Hydro	Montreal	AH-7334	HSS 76x6.4	76.2	6.35	3.78	0.037	1392	0.855	22.45	24.8	31.02	1710	0.239
Extrudex	Toronto, Ohio	H-19620	HSS 76x6.4	76.2	6.35	0.35	0.003	1392	0.855	22.45	24.8	31.02	1710	0.239
Hydro	Montreal	MH-58632	HSS 76x6.4	76.2	6.35	3.86	0.038	1392	0.855	22.45	24.8	31.02	1710	0.239
Extrudex	Québec	V-18669	HSS 76x6.4	76.2	6.35	0.35	0.003	1392	0.855	22.45	24.8	31.02	1710	0.239
Hydro	Montreal	MH-54992	HSS 76x4.8	76.2	4.78	2.96	0.029	1070	0.685	17.98	25.3	24.36	1370	0.239
Extrudex	Québec	V-18334	HSS 76x4.8	76.2	4.78	0.27	0.003	1068	0.683	17.94	25.3	24.30	1367	0.239
Hydro	Montreal	AH-07003	HSS 76x4.7	76.2	4.75	2.91	0.029	1065	0.682	17.90	25.3	24.25	1364	0.239
Extrudex	Ohio	H-19266	HSS 76x4.7	76.2	4.75	0.27	0.003	1065	0.682	17.90	25.3	24.25	1364	0.239
Metra	Laval	97095	HSS 76x3.8	76.2	3.76	0.21	0.002	855	0.562	14.74	25.6	19.71	1123	0.239
Hydro	Montreal	MH-19141	HSS 76x3.8	76.2	3.76	2.33	0.023	855	0.562	14.74	25.6	19.71	1123	0.239
Extrudex	Québec	SA-05066	HSS 76x3.8	76.2	3.76	0.22	0.002	855	0.562	14.74	25.6	19.71	1123	0.239
Metra	Laval	96876	HSS 76x3.2	76.2	3.18	0.18	0.002	728	0.485	12.74	25.8	16.92	971	0.239
Extrudex	Toronto	H-3842	HSS 76x3.2	76.2	3.18	0.18	0.002	728	0.485	12.74	25.8	16.92	971	0.239
Hydro	Montreal	MH-16677	HSS 76x3.2	76.2	3.18	2.02	0.020	728	0.485	12.74	25.8	16.92	971	0.239
Extrudex	Québec	V-18406	HSS 76x3.2	76.2	3.18	0.18	0.002	728	0.485	12.74	25.8	16.92	971	0.239
Hydro	Montreal	AH-07021	HSS 76x3	76.2	3.05	1.90	0.019	700	0.468	12.30	25.9	16.29	937	0.239
Extrudex	Québec	SA-05064	HSS 76x2.4	76.2	2.41	0.14	0.001	559	0.380	9.98	26.1	13.12	761	0.239
Extrudex	Toronto	H-2577	HSS 76x1.7	76.2	1.65	0.10	0.001	386	0.268	7.04	26.4	9.16	536	0.239
Hydro	Montreal	MH-43579	HSS 76x1.7	76.2	1.65	1.07	0.010	386	0.268	7.04	26.4	9.16	536	0.239
Metra	Laval	997558	HSS 76x1.4	76.2	1.40	0.08	0.001	328	0.229	6.02	26.4	7.81	458	0.239
Metra	Laval	97098	HSS 76x1.3	76.2	1.27	0.08	0.001	299	0.209	5.50	26.5	7.12	419	0.239
Extrudex	Toronto	H-5503	HSS 76x1.3	76.2	1.27	0.08	0.001	299	0.209	5.50	26.5	7.12	419	0.239
Hydro	Montreal	MH-10841	HSS 76x1.3	76.2	1.27	0.81	0.008	299	0.209	5.50	26.5	7.12	419	0.239

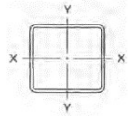
# TUBES CARRÉS COINS CARRÉS



Extrudeur	Emplacement	Identification de la section du fabricant	Identification de la section	Dimension extérieure	Épaisseur	Masse	Charge morte	Aire	I	S	r	Z	Constante de torsion		Aire par mètres de longueur
													J	10 <sup>3</sup> mm <sup>4</sup>	
			mm x mm x mm	mm	mm	kg/m	kN/m	mm <sup>2</sup>	10 <sup>4</sup> mm <sup>4</sup>	10 <sup>3</sup> mm <sup>3</sup>	mm	10 <sup>2</sup> mm <sup>3</sup>	10 <sup>3</sup> mm <sup>4</sup>	m <sup>2</sup>	
Extrudex	Ohio	H-21586	HSS 152x152x4.8	152.40	4.78	0.71	0.007	2820	10.25	134.55	60.3	156.15	15627	0.610	
Hydro	Montreal	AH-39038	HSS 152x152x3.2	152.40	3.18	0.49	0.005	1895	7.04	92.35	60.9	106.07	10674	0.610	
Extrudex	Ohio	H-19501	HSS 152x152x3.2	152.40	3.18	0.48	0.005	1895	7.04	92.35	60.9	106.07	10674	0.610	
Extrudex	Toronto	H-12287	HSS 148x148x2.8	148.08	2.77	0.41	0.004	1609	5.67	76.52	59.3	87.70	8583	0.592	
Extrudex	Toronto, Ohio	H-20593	HSS 127x127x9.5	127.00	9.53	1.13	0.011	4476	10.36	163.19	48.1	197.60	16106	0.508	
Extrudex	Ohio	H-15003	HSS 127x127x6.4	127.00	6.35	0.77	0.008	3065	7.46	117.41	49.3	138.78	11461	0.508	
Hydro	Montreal	AH-07124	HSS 127x127x5.1	127.00	5.08	0.63	0.006	2477	6.15	96.82	49.8	113.33	9409	0.508	
Hydro	Montreal	AH-07105	HSS 127x127x3	127.00	3.05	0.39	0.004	1511	3.87	60.98	50.6	70.26	5882	0.508	
Hydro	Montreal	AH-07147	HSS 114x114x3.2	114.30	3.18	0.36	0.004	1411	2.91	50.87	45.4	58.83	4424	0.457	
Extrudex	Toronto	H-7072	HSS 114x114x3.2	114.30	3.18	0.36	0.003	1411	2.91	50.87	45.4	58.83	4424	0.457	
Extrudex	Toronto	H-7574	HSS 114x114x2.5	114.30	2.54	0.29	0.003	1136	2.37	41.38	45.6	47.60	3589	0.457	
Extrudex	Toronto	H-13109	HSS 111x111x2.8	110.85	2.77	0.30	0.003	1197	2.33	42.07	44.1	48.52	3544	0.443	
Extrudex	Ohio	H-22210	HSS 102x102x13	101.60	12.70	1.14	0.011	4516	6.07	119.49	36.7	151.58	9640	0.406	
Extrudex	Toronto, Ohio	H-23024	HSS 102x102x9.5	101.60	9.53	0.89	0.009	3508	5.01	98.62	37.8	121.56	7852	0.406	
Metra	Laval	998887	HSS 102x102x6.4	101.60	6.35	0.61	0.006	2419	3.67	72.33	39.0	86.54	5681	0.406	
Extrudex	Toronto, Ohio	H-15202	HSS 102x102x6.4	101.60	6.35	0.61	0.006	2419	3.67	72.33	39.0	86.54	5681	0.406	
Extrudex	Québec	V-18063	HSS 102x102x4.7	101.60	4.78	0.46	0.005	1840	2.88	56.76	39.6	66.88	4423	0.406	
Metra	Laval	94205	HSS 102x102x4.7	101.60	4.75	0.46	0.005	1840	2.88	56.76	39.6	66.88	4426	0.406	
Hydro	Montreal	AH-07158	HSS 102x102x4.7	101.60	4.75	0.47	0.005	1840	2.88	56.76	39.6	66.88	4426	0.406	
Extrudex	Toronto, Ohio	H-23960	HSS 102x102x4.7	101.60	4.75	0.47	0.005	1840	2.88	56.76	39.6	66.88	4426	0.406	
Hydro	Montreal	MH-40245	HSS 102x102x4.7	101.60	4.75	0.47	0.005	1840	2.88	56.76	39.6	66.88	4426	0.406	
Metra	Laval	94242	HSS 102x102x3.8	101.60	3.81	0.37	0.004	1490	2.38	46.83	40.0	54.68	3638	0.406	
Extrudex	Québec	SA-05275	HSS 102x102x3.8	101.60	3.81	0.38	0.004	1490	2.38	46.83	40.0	54.68	3637	0.406	
Hydro	Montreal	AH-7322	HSS 102x102x3.2	101.60	3.18	0.31	0.003	1250	2.02	39.77	40.2	46.15	3080	0.406	
Extrudex	Toronto, Ohio	H-20569	HSS 102x102x3.2	101.60	3.18	0.32	0.003	1250	2.02	39.77	40.2	46.15	3080	0.406	
Hydro	Montreal	MH-38554	HSS 102x102x3.2	101.60	3.18	0.32	0.003	1250	2.02	39.77	40.2	46.15	3080	0.406	
Metra	Laval	996204	HSS 102x102x2.4	101.60	2.41	0.24	0.002	957	1.57	30.92	40.5	35.62	2385	0.406	
Hydro	Montreal	AH-07097	HSS 102x102x2.4	101.60	2.41	0.26	0.003	957	1.57	30.92	40.5	35.62	2385	0.406	
Extrudex	Toronto	H-3203	HSS 102x102x2.3	101.60	2.29	0.23	0.002	908	1.49	29.40	40.6	33.83	2267	0.406	
Extrudex	Québec	V-15472	HSS 102x102x2.3	101.60	2.29	0.23	0.002	908	1.49	29.40	40.6	33.83	2267	0.406	
Hydro	Montreal	MH-54929	HSS 92x92x6.4	92.08	6.35	0.55	0.005	2177	2.68	58.25	35.1	70.13	4158	0.368	
Metra	Laval	95933	HSS 89x89x3.2	88.90	3.18	0.27	0.003	1089	1.34	30.04	35.0	35.02	2039	0.356	
Extrudex	Québec	SA-05274	HSS 76x76x9.5	76.20	9.53	0.64	0.006	2540	1.92	50.40	27.5	63.94	3050	0.305	
Hydro	Montreal	AH-07211	HSS 76x76x6.4	76.20	6.35	0.45	0.004	1774	1.45	38.18	28.6	46.60	2270	0.305	
Extrudex	Toronto, Ohio	H-6856	HSS 76x76x6.4	76.20	6.35	0.45	0.004	1774	1.45	38.18	28.6	46.60	2270	0.305	
Hydro	Montreal	MH-39952	HSS 76x76x6.4	76.20	6.35	0.46	0.004	1774	1.45	38.18	28.6	46.60	2270	0.305	
Extrudex	Québec	SA-05278	HSS 76x76x6.4	76.20	6.35	0.44	0.004	1774	1.45	38.17	28.6	46.60	2270	0.305	
Hydro	Montreal	AH-07210	HSS 76x76x4.8	76.20	4.78	0.34	0.003	1364	1.17	30.58	29.2	36.60	1802	0.305	
Extrudex	Toronto, Ohio	H-24939	HSS 76x76x4.8	76.20	4.78	0.34	0.003	1364	1.17	30.58	29.2	36.60	1802	0.305	
Hydro	Montreal	MH-16355	HSS 76x76x4.8	76.20	4.78	0.34	0.003	1364	1.17	30.58	29.2	36.60	1802	0.305	
Extrudex	Québec	V-14322	HSS 76x76x4.7	76.20	4.75	0.34	0.003	5806	2.81	73.74	22.0	110.61	4746	0.305	
Extrudex	Toronto, Ohio	H-5200	HSS 76x76x3.2	76.20	3.18	0.23	0.002	927	0.83	21.68	29.8	25.41	1265	0.305	
Metra	Laval	94192	HSS 76x76x3	76.20	3.05	0.22	0.002	892	0.80	20.91	29.9	24.48	1219	0.305	
Hydro	Montreal	MH-15194	HSS 76x76x3	76.20	3.05	0.23	0.002	892	0.80	20.91	29.9	24.48	1219	0.305	
Extrudex	Québec	SA-05273	HSS 76x76x3	76.20	3.05	0.22	0.002	892	0.80	20.91	29.9	24.47	1220	0.305	
Hydro	Montreal	MH-10699	HSS 76x76x2.4	76.20	2.39	0.18	0.002	705	0.64	16.82	30.2	19.52	977	0.305	

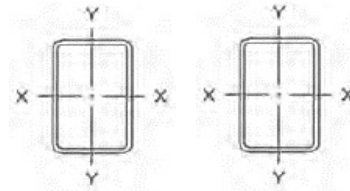


## TUBES CARRÉS COINS RONDS



Extrudeur	Emplacement	Identification de la section du fabricant	Identification de la section	Dimension extérieure	Épaisseur	Masse	Charge morte	Aire	I	S	r	Z	Constante de torsion		Aire par mètres de longueur
													J	m <sup>2</sup>	
			mm x mm x mm	mm	mm	kg/m	kN/m	mm <sup>2</sup>	10 <sup>6</sup> mm <sup>4</sup>	10 <sup>3</sup> mm <sup>3</sup>	mm	10 <sup>3</sup> mm <sup>3</sup>	10 <sup>3</sup> mm <sup>4</sup>	m <sup>2</sup>	
Hydro	Montreal	AH-56068	HSS 152x152x6.4	152.40	6.35	0.95	0.009	3571	12.464	163.57	59.1	193.10	19796	0.588	
Hydro	Montreal	AH-56067	HSS 152x152x4.8	152.40	4.78	0.73	0.007	2681	9.504	124.72	59.5	145.96	14895	0.588	
Extrudex	Ohio	H-20777	HSS 127x127x7.9	127.00	7.92	0.96	0.009	3783	8.985	141.50	48.7	169.26	13943	0.507	
Hydro	Montreal	AH-60928	HSS 127x127x6.4	127.00	6.35	0.77	0.008	3030	7.321	115.30	49.2	136.62	11435	0.497	
Extrudex	Ohio	H-27871	HSS 127x127x4.8	127.00	6.35	0.75	0.007	2960	7.051	111.04	48.8	132.28	11496	0.486	
Extrudex	Ohio	H-26322	HSS 127x127x4.7	127.00	4.75	0.57	0.006	2284	5.565	87.63	49.6	102.87	8890	0.492	
Extrudex	Toronto	H-15425	HSS 114x114x4.8	114.30	4.78	0.51	0.005	2034	4.005	70.08	44.4	82.68	6443	0.441	
Extrudex	Ohio	H-13937	HSS 102x102x11	101.60	11.10	1.02	0.010	4018	5.548	109.22	37.2	136.83	8885	0.398	
Metra	Laval	98210	HSS 102x102x6.4	101.60	6.35	0.58	0.006	2315	3.418	67.29	38.4	81.37	5686	0.385	
Hydro	Montreal	AH-07325	HSS 102x102x6.4	101.60	6.35	0.61	0.006	2280	3.354	66.02	38.4	79.88	5473	0.385	
Extrudex	Toronto, Ohio	H-11781	HSS 102x102x6.4	101.60	6.35	0.59	0.006	2315	3.418	67.29	38.4	81.37	5686	0.385	
Hydro	Montreal	MH-17278	HSS 102x102x6.4	101.60	6.35	0.61	0.006	2385	3.590	70.66	38.8	84.83	5663	0.395	
Hydro	Montreal	AH-42559	HSS 102x102x4.8	101.60	4.78	0.46	0.005	1830	2.849	56.08	39.5	66.24	4437	0.398	
Extrudex	Toronto, Ohio	H-10075	HSS 102x102x4.8	101.60	4.78	0.47	0.005	1849	2.877	56.64	39.4	67.00	4582	0.394	
Extrudex	Québec	V-18401	HSS 102x102x4.8	101.60	4.78	0.46	0.005	1849	2.877	56.64	39.4	67.00	4582	0.394	
Metra	Laval	997486	HSS 102x102x4.7	101.60	4.75	0.45	0.004	1795	2.771	54.55	39.3	64.62	4431	0.393	
Metra	Laval	998758	HSS 102x102x3.2	101.60	3.18	0.31	0.003	1224	1.955	38.48	40.0	44.84	3091	0.395	
Metra	Laval	998907	HSS 102x102x3	101.60	3.05	0.29	0.003	1795	2.771	54.55	39.3	64.62	4431	0.393	
Extrudex	Québec	V-13046	HSS 102x102x3	101.60	3.05	0.29	0.003	1143	1.794	35.31	39.6	41.41	3005	0.385	
Extrudex	Toronto	H-3134	HSS 86x86x13	85.73	12.70	0.94	0.009	3710	3.389	79.06	30.2	102.50	5479	0.337	
Hydro	Montreal	MH-44928	HSS 76x76x9.5	76.20	9.53	0.61	0.006	2323	1.659	43.55	26.7	56.44	2881	0.278	
Hydro	Montreal	AH-07264	HSS 76x76x6.4	76.20	6.35	0.42	0.004	1739	1.408	36.95	28.4	45.33	2259	0.294	
Extrudex	Toronto, Ohio	H-13783	HSS 76x76x6.4	76.20	6.35	0.44	0.004	1757	1.430	37.53	28.5	45.95	2275	0.297	
Extrudex	Toronto, Ohio	H-22173	HSS 76x76x6.4	76.20	6.35	0.43	0.004	1687	1.337	35.10	28.2	43.41	2258	0.286	
Extrudex	Toronto	H-22283	HSS 76x76x6.4	76.20	6.35	0.42	0.004	1670	1.313	34.46	28.0	42.75	2256	0.283	
Hydro	Montreal	MH-55880	HSS 76x76x6.4	76.20	6.35	0.45	0.004	1755	1.428	37.48	28.5	45.88	2265	0.297	
Metra	Laval	998012	HSS 76x76x4.8	76.20	4.78	0.33	0.003	1332	1.121	29.42	29.0	35.40	1798	0.294	
Extrudex	Toronto	H-23747	HSS 76x76x4.8	76.20	4.78	0.34	0.003	1347	1.141	29.94	29.1	35.95	1805	0.297	
Extrudex	Ohio	H-13387	HSS 76x76x4.7	76.20	4.75	0.34	0.003	1349	1.149	30.15	29.2	36.12	1795	0.299	
Extrudex	Toronto	H-14181	HSS 76x76x4.1	76.20	4.06	0.29	0.003	1137	0.971	25.48	29.2	30.43	1572	0.293	
Extrudex	Toronto	H-6826	HSS 76x76x4.1	76.20	4.06	0.30	0.003	1171	1.017	26.70	29.5	31.67	1570	0.302	
Extrudex	Toronto	H-23746	HSS 76x76x3.2	76.20	3.18	0.23	0.002	910	0.802	21.04	29.7	24.77	1265	0.297	
Extrudex	Ohio	H-30389	HSS 76x76x3.2	76.20	3.18	0.23	0.002	901	0.789	20.71	29.6	24.44	1269	0.294	
Extrudex	Québec	V-18636	HSS 76x76x3.2	76.20	3.18	0.23	0.002	910	0.802	21.04	29.7	24.77	1265	0.297	
Hydro	Montreal	MH-42811	HSS 76x76x3	76.20	3.05	0.22	0.002	838	0.722	18.94	29.4	22.46	1214	0.287	
Extrudex	Toronto	H-13792	HSS 76x76x2.5	76.20	2.54	0.19	0.002	743	0.670	17.58	30.0	20.47	1032	0.300	
Extrudex	Québec	V-12342	HSS 76x76x2	76.20	2.01	0.15	0.001	586	0.534	14.02	30.2	16.23	829	0.299	

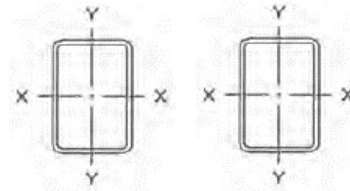
TUBES RECTANGULAIRES COINS CARRÉS



TUBES RECTANGULAIRES COINS CARRÉS

Extrudeur	Emplacement	Identification de la section du fabricant	Identification de la section	Dimensions extérieures		Épaisseur	Masse	Charge morte	Aire	Aire par mètres de longueur	Axe X-X				Axe Y-Y				Constante de torsion
				Hauteur	Largeur						lx	Sx	rx	Zx	ly	Sy	ry	Zy	
				mm	mm						10 <sup>6</sup> mm <sup>4</sup>	10 <sup>3</sup> mm <sup>3</sup>	mm	10 <sup>3</sup> mm <sup>3</sup>	10 <sup>6</sup> mm <sup>4</sup>	10 <sup>3</sup> mm <sup>3</sup>	mm	10 <sup>3</sup> mm <sup>3</sup>	
Extrudex	Toronto	H-21471	HSS 203x152x6.4	203.20	152.40	6.35	1.1012	0.0108	4354.80	0.7112	26.0730	256.6200	77.3770	305.7200	16.6560	218.5800	61.8440	250.4100	31212.00
Extrudex	Ohio	H-25679	HSS 203x102x6.4	203.20	101.60	6.35	0.9381	0.0092	3709.70	0.6096	19.8210	195.0900	73.0960	242.2200	6.6055	130.0300	42.1970	148.0000	15643.00
Extrudex	Ohio	H-19567	HSS 203x76x6.4	203.20	76.20	6.35	0.8565	0.0084	3387.10	0.5588	16.6950	164.3200	70.2060	210.4700	3.4274	89.9580	31.8100	102.9300	9241.30
Hydro	Montreal	AH-40361	HSS 203x51x3.2	203.20	50.80	3.18	0.3964	0.0039	1572.60	0.5080	7.2633	71.4890	67.9610	93.7780	0.7792	30.6780	22.2600	33.8620	2361.70
Extrudex	Québec	V-15438	HSS 178x51x3.2	177.80	50.80	3.18	0.3538	0.0035	1411.30	0.4572	5.1263	57.6330	60.2690	74.8300	0.6876	26.8920	22.0740	30.0220	2008.40
Extrudex	Toronto	H-8744	HSS 159x89x6.4	158.75	88.90	6.35	0.7545	0.0074	2983.90	0.4953	9.8565	124.1800	57.4740	153.7600	3.9098	87.9590	36.1980	101.6500	8802.70
Extrudex	Québec	V-14663	HSS 152x102x6.4	152.40	101.60	6.35	0.7683	0.0075	15484.00	0.5080	29.9680	393.2800	43.9940	589.9200	13.3190	262.1900	29.3290	393.2800	31330.00
Extrudex	Toronto, Ohio	H-13661	HSS 152x102x6.4	152.40	101.60	6.35	0.7749	0.0076	3064.50	0.5080	9.7706	128.2200	56.4650	156.1900	5.1400	101.1800	40.9550	117.2700	10471.00
Extrudex	Ohio	H-27086	HSS 152x102x4.8	152.40	101.60	4.78	0.5903	0.0058	2334.60	0.5080	7.6084	99.8470	57.0870	120.3400	4.0348	79.4250	41.5720	90.6940	8148.30
Extrudex	Ohio	H-15081	HSS 152x76x6.4	152.40	76.20	6.35	0.6933	0.0068	2741.90	0.4572	8.0493	105.6300	54.1820	132.6300	2.6383	69.2470	31.0190	80.3990	6317.80
Extrudex	Ohio	H-1317	HSS 152x76x4.7	152.40	76.20	4.75	0.5263	0.0052	2081.40	0.4572	6.2566	82.1080	54.8270	101.9400	2.0854	54.7340	31.6530	62.2860	4938.10
Extrudex	Ohio	H-13662	HSS 152x76x3.2	152.40	76.20	3.18	0.3568	0.0035	1411.30	0.4572	4.3427	56.9900	55.4710	69.9650	1.4713	38.6170	32.2880	43.0800	3445.40
Metra	Laval	990086	HSS 152x51x6.4	152.40	50.80	6.35	0.6067	0.0059	2419.30	0.4064	6.3280	83.0450	51.1430	109.0800	1.0211	40.2000	20.5440	47.6250	2920.40
Extrudex	Toronto, Ohio	H-15283	HSS 152x51x6.4	152.40	50.80	6.35	0.6118	0.0060	2419.30	0.4064	6.3280	83.0450	51.1430	109.0800	1.0211	40.2000	20.5440	47.6250	2920.40
Hydro	Montreal	MH-39222	HSS 152x51x4.8	152.40	50.80	4.78	0.4756	0.0047	1849.40	0.4064	4.9641	65.1460	51.8090	84.5320	0.8294	32.6540	21.1770	37.5570	2340.80
Extrudex	Québec	V-17255	HSS 152x51x4.8	152.40	50.80	4.78	0.4637	0.0045	1849.40	0.4064	4.9637	65.1400	51.8070	84.5260	0.8293	32.6510	21.1770	37.5540	2339.00
Extrudex	Toronto	H-20019	HSS 152x51x4.8	152.40	50.80	4.78	0.4676	0.0046	1849.40	0.4064	4.9641	65.1460	51.8090	84.5320	0.8294	32.6540	21.1770	37.5570	2340.80
Extrudex	Ohio	H-1318	HSS 152x51x3.2	152.40	50.80	3.18	0.3161	0.0031	1250.00	0.4064	3.4446	45.2050	52.4950	57.9310	0.5960	23.4660	21.8360	26.1810	1658.40
Hydro	Montreal	AH-07139	HSS 152x51x3	152.40	50.80	3.05	0.3037	0.0030	1201.50	0.4064	3.3180	43.5440	52.5500	55.7460	0.5757	22.6660	21.8890	25.2270	1600.10
Hydro	Montreal	MH-58773	HSS 152x51x3	152.40	50.80	3.05	0.3028	0.0030	1201.50	0.4064	3.3180	43.5440	52.5500	55.7460	0.5757	22.6660	21.8890	25.2270	1600.10
Extrudex	Québec	V-18404	HSS 152x51x3	152.40	50.80	3.05	0.3013	0.0030	1201.50	0.4064	3.3175	43.5370	52.5480	55.7400	0.5757	22.6630	21.8890	25.2250	1599.40
Extrudex	Toronto	H-17430	HSS 152x51x3	152.40	50.80	3.05	0.3039	0.0030	1201.50	0.4064	3.3180	43.5440	52.5500	55.7460	0.5757	22.6660	21.8890	25.2270	1600.10
Extrudex	Québec	V-14581	HSS 152x44x2.5	152.40	44.45	2.54	0.2443	0.0024	1050.50	0.3937	0.0000	0.0105	1.7321	0.0158	0.0000	0.0031	0.5052	0.0046	0.01
Extrudex	Toronto	H-7567	HSS 152x44x2.5	152.40	44.45	2.54	0.2464	0.0024	974.19	0.3937	2.6214	34.4020	51.8740	44.4830	0.3662	16.4770	19.3880	18.1920	1060.60
Hydro	Montreal	MH-69160	HSS 152x44x2.3	152.40	44.45	2.34	0.1752	0.0017	898.16	0.3937	2.4252	31.8270	51.9640	41.0850	0.3406	15.3270	19.4750	16.8460	984.58
Extrudex	Toronto	H-8751	HSS 127x102x3.2	127.00	101.60	3.18	0.3568	0.0035	1411.30	0.4572	3.4029	53.5890	49.1040	63.0520	2.4111	47.4620	41.3330	54.0900	4309.00
Extrudex	Toronto	H-6636	HSS 127x76x2.4	127.00	76.00	2.36	0.2368	0.0023	936.72	0.4060	2.1143	33.2960	47.5090	40.0340	0.9561	25.1620	31.9490	28.0900	2033.00
Extrudex	Toronto	H-9550	HSS 127x64x4.8	127.00	63.50	4.78	0.4370	0.0043	1728.10	0.3810	3.5555	55.9920	45.3590	69.9970	1.1730	36.9440	26.0530	42.5630	2796.80
Hydro	Montreal	AH-07233	HSS 127x64x4.7	127.00	63.50	4.75	0.4348	0.0043	1719.40	0.3810	3.5392	55.7350	45.3690	69.6610	1.1680	36.7860	26.0630	42.3650	2784.10
Hydro	Montreal	MH-16356	HSS 127x64x4.7	127.00	63.50	4.75	0.4350	0.0043	1719.40	0.3810	3.5392	55.7350	45.3690	69.6610	1.1680	36.7860	26.0630	42.3650	2784.10
Extrudex	Québec	V-17254	HSS 127x51x6.4	127.00	50.80	6.35	0.5256	0.0052	2096.70	0.3556	3.9300	61.8900	43.2940	80.3940	0.8606	33.8810	20.2590	40.4530	2308.50
Extrudex	Québec	V-19240	HSS 127x51x4.7	127.00	50.80	4.75	0.4016	0.0039	1602.00	0.3556	3.0938	48.7220	43.9450	62.4060	0.6988	27.5110	20.8850	31.8870	1847.00
Metra	Laval	98214	HSS 127x51x3.2	127.00	50.80	3.18	0.2729	0.0027	1088.70	0.3556	2.1661	34.1120	44.6050	43.0800	0.5044	19.8600	21.5250	22.3400	1314.10
Hydro	Montreal	MH-1008107	HSS 127x51x3.2	127.00	50.80	3.18	0.2800	0.0027	1088.70	0.3556	2.1661	34.1120	44.6050	43.0800	0.5044	19.8600	21.5250	22.3400	1314.10
Extrudex	Québec	V-17069	HSS 127x51x3.2	127.00	50.80	3.18	0.2729	0.0027	1088.70	0.3556	2.1661	34.1120	44.6050	43.0800	0.5044	19.8600	21.5250	22.3400	1314.10
Extrudex	Toronto, Ohio	H-21569	HSS 127x51x3.2	127.00	50.80	3.18	0.2753	0.0027	1088.70	0.3556	2.1661	34.1120	44.6050	43.0800	0.5044	19.8600	21.5250	22.3400	1314.10
Extrudex	Québec	V-15486	HSS 127x51x2.5	127.00	50.80	2.54	0.2200	0.0022	877.42	0.3556	1.7667	27.8220	44.8720	34.9370	0.4165	16.3960	21.7860	18.2220	1078.30
Extrudex	Toronto	H-10365	HSS 127x44x3.2	127.00	44.45	3.18	0.2650	0.0026	1048.40	0.3429	2.0115	31.6770	43.8030	40.5840	0.3734	16.8020	18.8730	18.9480	1026.30
Metra	Laval	94199	HSS 127x44x3	127.00	44.45	3.05	0.2529	0.0025	1008.00	0.3429	1.9388	30.5330	43.8570	39.0710	0.3610	16.2440	18.9250	18.2680	990.91
Metra	Laval	997168	HSS 127x38x3.2	127.00	38.10	3.18	0.2530	0.0025	1008.10	0.3302	1.8569	29.2430	42.9190	38.0870	0.2635	13.8340	16.1690	15.6830	765.15
Extrudex	Québec	V-12282	HSS 114x44x3.2	114.30	44.45	3.18	0.2426	0.0024	967.59	0.3175	1.5368	26.8910	39.8530	34.1740	0.3389	15.2500	18.7160	17.2800	896.71
Metra	Laval	95373	HSS 114x44x2.8	114.30	44.45	2.79	0.2146	0.0021	855.87	0.3175	1.3705	23.9810	40.0170	30.3580	0.3048	13.7150	18.8720	15.4130	802.99
Hydro	Montreal	AH-07138	HSS 114x44x2.8	114.30	44.45	2.79	0.2303	0.0023	855.87	0.3175	1.3705	23.9810	40.0170	30.3580	0.3048	13.7150	18.8720	15.4130	802.99
Extrudex	Toronto	H-15644	HSS 114x44x2.3	114.30	44.45	2.29	0.1782	0.0017	704.90	0.3175	1.1409	19.9640	40.2310	25.1440	0.2567	11.5480	19.0810	12.8350	672.26
Extrudex	Toronto, Ohio	H-1070	HSS 102x76x6.4	101.60	76.20	6.35	0.5302	0.0052	2096.80	0.3556	2.9418	57.9090	37.4570	71.1810	1.8492	48.5350	29.6970	57.8670	3545.00
Extrudex	Ohio	H-25447	HSS 102x76x4.8	101.60	76.20	4.78	0.4063	0.0040	1606.90	0.3556	2.3278	45.8220	38.0610	55.4620	1.4750	38.7140	30.2980	45.2590	2796.30
Hydro	Montreal	MH-13744	HSS 102x76x3.2	101.60	76.20	3.18	0.2755	0.0027	1088.70	0.3556	1.6296	32.0780	38.6880	38.2150	1.0410	27.3220	30.9220	31.3020	1950.70
Extrudex	Toronto	H-12575	HSS 102x51x9.5	101.60	50.80	9.53	0.6368	0.0062	2540.30	0.3048	2.9514	58.0990	34.0860	77.0060	0.8898	35.0310	18.7150	44.7440	2243.60

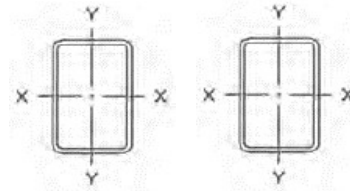
TUBES RECTANGULAIRES COINS CARRÉS



TUBES RECTANGULAIRES COINS CARRÉS

Extrudeur	Emplacement	Identification de la section du fabricant	Identification de la section	Dimensions extérieures		Épaisseur	Masse	Charge morte	Aire	Aire par mètres de longueur	Axe X-X				Axe Y-Y				Constante de torsion
				Hauteur	Largeur						Ix	Sx	rx	Zx	Iy	Sy	ry	Zy	
				mm	mm														
Hydro	Montreal	MH-36644	HSS 102x51x6.4	101.60	50.80	6.35	0.4562	0.0045	1774.20	0.3048	2.2091	43.4850	35.2860	55.8180	0.7002	27.5680	19.8660	33.2860	1713.20
Extrudex	Québec	V-18402	HSS 102x51x6.4	101.60	50.80	6.35	0.4448	0.0044	1774.20	0.3048	2.2091	43.4850	35.2860	55.8180	0.7002	27.5680	19.8660	33.2860	1713.20
Extrudex	Toronto, Ohio	H-16405	HSS 102x51x6.4	101.60	50.80	6.35	0.4486	0.0044	1774.20	0.3048	2.2091	43.4850	35.2860	55.8180	0.7002	27.5680	19.8660	33.2860	1713.20
Metra	Laval	94152	HSS 102x51x4.8	101.60	50.80	4.78	0.3412	0.0033	1364.30	0.3048	1.7588	34.6210	35.9050	43.7180	0.5716	22.5020	20.4680	26.3920	1376.20
Hydro	Montreal	AH-07242	HSS 102x51x4.7	101.60	50.80	4.75	0.3431	0.0034	1357.50	0.3048	1.7510	34.4690	35.9150	43.5140	0.5693	22.4120	20.4780	26.2740	1370.30
Hydro	Montreal	MH-40244	HSS 102x51x4.7	101.60	50.80	4.75	0.3491	0.0034	1357.50	0.3048	1.7510	34.4690	35.9150	43.5140	0.5693	22.4120	20.4780	26.2740	1370.30
Extrudex	Québec	SA-05475	HSS 102x51x4.7	101.60	50.80	4.75	0.3402	0.0033	1360.70	0.3048	1.7545	34.5370	35.9080	43.6090	0.5703	22.4530	20.4730	26.3290	1373.20
Extrudex	Toronto, Ohio	H-2249	HSS 102x51x4.7	101.60	50.80	4.75	0.3433	0.0034	1357.50	0.3048	1.7510	34.4690	35.9150	43.5140	0.5693	22.4120	20.4780	26.2740	1370.30
Metra	Laval	94153	HSS 102x51x3	101.60	50.80	3.05	0.2236	0.0022	891.87	0.3048	1.1947	23.5170	36.6000	29.1600	0.3989	15.7060	21.1500	17.8330	943.49
Hydro	Montreal	AH-7321	HSS 102x51x3	101.60	50.80	3.05	0.2249	0.0022	891.87	0.3048	1.1947	23.5170	36.6000	29.1600	0.3989	15.7060	21.1500	17.8330	943.49
Hydro	Montreal	MH-39221	HSS 102x51x3	101.60	50.80	3.05	0.2330	0.0023	891.87	0.3048	1.1947	23.5170	36.6000	29.1600	0.3989	15.7060	21.1500	17.8330	943.49
Extrudex	Québec	SA-05474	HSS 102x51x3	101.60	50.80	3.05	0.2236	0.0022	891.72	0.3048	1.1943	23.5100	36.5970	29.1520	0.3988	15.7020	21.1490	17.8300	943.44
Extrudex	Toronto, Ohio	H-9368	HSS 102x51x3	101.60	50.80	3.05	0.2255	0.0022	891.87	0.3048	1.1947	23.5170	36.6000	29.1600	0.3989	15.7060	21.1500	17.8330	943.49
Extrudex	Ohio	H-21468	HSS 102x44x2.8	101.60	44.45	4.83	0.3329	0.0033	1316.50	0.2921	1.6306	32.0980	35.1930	41.1600	0.4207	18.9300	17.8760	22.3500	1081.90
Hydro	Montreal	AH-07101	HSS 102x44x2.8	101.60	44.45	2.79	0.1985	0.0019	784.90	0.2921	1.0185	20.0500	36.0230	25.1490	0.2740	12.3280	18.6840	13.9350	688.59
Metra	Laval	95684	HSS 102x44x2.3	101.60	44.45	2.29	0.1626	0.0016	646.84	0.2921	0.8492	16.7170	36.2340	20.8520	0.2308	10.3860	18.8900	11.6110	576.60
Hydro	Montreal	MH-05200	HSS 102x44x2.3	101.60	44.45	2.29	0.1626	0.0016	646.84	0.2921	0.8492	16.7170	36.2340	20.8520	0.2308	10.3860	18.8900	11.6110	576.60
Extrudex	Québec	V-00986	HSS 102x44x2.3	101.60	44.45	2.29	0.1630	0.0016	650.67	0.2921	0.8540	16.8110	36.2280	20.9720	0.2320	10.4410	18.8850	11.6760	579.85
Extrudex	Toronto, Ohio	H-3200	HSS 102x44x2.3	101.60	44.45	2.29	0.1637	0.0016	646.84	0.2921	0.8492	16.7170	36.2340	20.8520	0.2308	10.3860	18.8900	11.6110	576.60
Extrudex	Ohio	H-26334	HSS 102x38x6.4	101.60	38.10	6.35	0.4079	0.0040	1612.90	0.2794	1.8427	36.2730	33.8000	48.1370	0.3469	18.2080	14.6650	22.5320	970.99
Metra	Laval	94198	HSS 102x38x3	101.60	38.10	3.05	0.2043	0.0020	814.45	0.2794	1.0066	19.8160	35.1570	25.3450	0.2074	10.8860	15.9570	12.4160	558.26
Extrudex	Québec	V-00762	HSS 102x38x3	101.60	38.10	3.05	0.2053	0.0020	3870.90	0.2794	3.3297	65.5450	29.3290	98.3190	0.4682	24.5790	10.9980	36.8700	1433.10
Hydro	Montreal	MH-42033	HSS 102x25x3	101.60	25.40	3.05	0.1895	0.0019	737.03	0.2540	0.8186	16.1140	33.3270	21.5300	0.0815	6.4168	10.5150	7.4898	252.28
Extrudex	Québec	V-14772	HSS 102x25x3	101.60	25.40	3.05	0.1848	0.0018	2580.60	0.2540	2.2197	43.6960	29.3290	65.5450	0.1387	10.9240	7.3322	16.3860	468.72
Hydro	Montreal	AH-07120	HSS 87x61x4.7	86.66	60.96	4.75	0.3318	0.0033	1312.10	0.2952	1.3363	30.8380	31.9120	37.8600	0.7597	24.9260	24.0630	29.4280	1511.70
Extrudex	Toronto	H-5260	HSS 86x48x3.2	85.73	47.63	3.18	0.2039	0.0020	806.45	0.2667	1.7801	18.2000	31.1020	22.4840	0.3066	12.8740	19.4970	14.8030	691.25
Extrudex	Ohio	H-26321	HSS 83x32x5.1	82.55	31.75	5.08	0.2675	0.0026	1058.10	0.2286	0.8059	19.5240	27.5980	25.8060	0.1595	10.0450	12.2770	12.3680	441.12
Metra	Laval	996700	HSS 79x41x1.6	79.38	41.28	1.57	0.0933	0.0009	370.08	0.2413	0.3130	7.8863	29.0820	9.6320	0.1131	5.4805	17.4820	6.1070	259.44
Metra	Laval	94213	HSS 76x51x6.4	76.20	50.80	6.35	0.3639	0.0036	1451.60	0.2540	1.0601	27.8240	27.0240	35.3350	0.5398	21.2520	19.2840	26.1170	1137.20
Hydro	Montreal	MH-16582	HSS 76x51x6.4	76.20	50.80	6.35	0.3671	0.0036	1451.60	0.2540	1.0601	27.8240	27.0240	35.3350	0.5398	21.2520	19.2840	26.1170	1137.20
Extrudex	Québec	V-18335	HSS 76x51x6.4	76.20	50.80	6.35	0.3639	0.0036	1451.60	0.2540	1.0601	27.8240	27.0240	35.3350	0.5398	21.2520	19.2840	26.1170	1137.20
Extrudex	Toronto, Ohio	H-24170	HSS 76x51x6.4	76.20	50.80	6.35	0.3671	0.0036	1451.60	0.2540	1.0601	27.8240	27.0240	35.3350	0.5398	21.2520	19.2840	26.1170	1137.20
Extrudex	Toronto, Ohio	H-18513	HSS 76x51x4.8	76.20	50.80	4.78	0.2836	0.0028	1121.70	0.2540	0.8553	22.4490	27.6140	27.9320	0.4426	17.4260	19.8650	20.8100	917.28
Extrudex	Québec	V-00164	HSS 76x51x4.7	76.20	50.80	4.75	0.2812	0.0028	1116.20	0.2540	0.8518	22.3560	27.6230	27.8070	0.4409	17.3590	19.8740	20.7190	913.47
Hydro	Montreal	AH-7327	HSS 76x51x3.2	76.20	50.80	3.18	0.1931	0.0019	766.13	0.2540	0.6107	16.0280	28.2330	19.5240	0.3213	12.6480	20.4770	14.6590	654.42
Metra	Laval	94209	HSS 76x51x3	76.20	50.80	3.05	0.1848	0.0018	737.03	0.2540	0.5896	15.4740	28.2820	18.8170	0.3106	12.2260	20.5270	14.1360	631.65
Hydro	Montreal	MH-13613	HSS 76x51x3	76.20	50.80	3.05	0.1864	0.0018	737.03	0.2540	0.5896	15.4740	28.2820	18.8170	0.3106	12.2260	20.5270	14.1360	631.65
Extrudex	Québec	SA-05466	HSS 76x51x3	76.20	50.80	3.05	0.1857	0.0018	736.88	0.2540	0.5893	15.4680	28.2800	18.8110	0.3105	12.2220	20.5260	14.1330	631.61
Extrudex	Toronto, Ohio	H-5261	HSS 76x51x3	76.20	50.80	3.05	0.1864	0.0018	737.03	0.2540	0.5896	15.4740	28.2820	18.8170	0.3106	12.2260	20.5270	14.1360	631.65
Metra	Laval	998558	HSS 76x44x3.2	76.20	44.45	3.18	0.1819	0.0018	725.80	0.2413	0.5569	14.6160	27.6990	18.0510	0.2358	10.6080	18.0230	12.2900	519.68
Extrudex	Ohio	H-21882	HSS 76x44x2.4	76.20	44.45	2.39	0.1399	0.0014	553.33	0.2413	0.4342	11.3960	28.0130	13.9240	0.1860	8.3675	18.3330	9.5318	405.90
Metra	Laval	998154	HSS 76x38x4.8	76.20	38.10	4.78	0.2508	0.0025	1000.40	0.2286	0.7004	18.3830	26.4600	23.6010	0.2220	11.6510	14.8950	14.0720	543.18
Hydro	Montreal	MH-15692	HSS 76x38x4.8	76.20	38.10	4.78	0.2572	0.0025	1000.40	0.2286	0.7004	18.3830	26.4600	23.6010	0.2220	11.6510	14.8950	14.0720	543.18
Extrudex	Toronto, Ohio	H-16550	HSS 76x38x4.8	76.20	38.10	4.78	0.2530	0.0025	1000.40	0.2286	0.7004	18.3830	26.4600	23.6010	0.2220	11.6510	14.8950	14.0720	543.18
Metra	Laval	997698	HSS 76x38x3.2	76.20	38.10	3.18	0.1719	0.0017	685.48	0.2286	0.5031	13.2040	27.0910	16.5790	0.1649	8.6558	15.5100	10.0500	394.87
Extrudex	Toronto, Ohio	H-13665	HSS 76x38x3.2	76.20	38.10	3.18	0.1734	0.0017	685.48	0.2286	0.5031	13.2040	27.0910	16.5790	0.1649	8.6558	15.5100	10.0500	394.87
Metra	Laval	94190	HSS 76x38x3	76.20	38.10	3.05	0.1655	0.0016	659.61	0.2286	0.4859	12.7540	27.1420	15.9850	0.1597	8.3828	15.5600	9.7021	381.74
Hydro	Montreal	AH-07150	HSS 76x38x3	76.20	38.10	3.05	0.1662	0.0016	659.61	0.2286	0.4859	12.7540	27.1420	15.9850	0.1597	8.3828	15.5600	9.7021	381.74

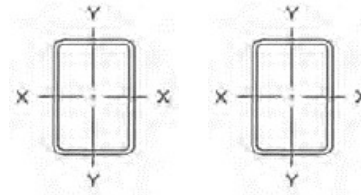
## TUBES RECTANGULAIRES COINS CARRÉS



## TUBES RECTANGULAIRES COINS CARRÉS

Extrudeur	Emplacement	Identification de la section du fabricant	Identification de la section	Dimensions extérieures		Épaisseur	Masse	Charge morte	Aire	Aire par mètres de longueur	Axe X-X				Axe Y-Y				Constante de torsion
				Hauteur	Largeur						lx	Sx	rx	Zx	ly	Sy	ry	Zy	
				mm	mm						10 <sup>6</sup> mm <sup>4</sup>	10 <sup>3</sup> mm <sup>3</sup>	mm	10 <sup>3</sup> mm <sup>3</sup>	10 <sup>6</sup> mm <sup>4</sup>	10 <sup>3</sup> mm <sup>3</sup>	mm	10 <sup>3</sup> mm <sup>3</sup>	
Hydro	Montreal	MH-41535	HSS 76x38x3	76.20	38.10	3.05	0.1696	0.0017	659.61	0.2286	0.4859	12.7540	27.1420	15.9850	0.1597	8.3828	15.5600	9.7021	381.74
Extrudex	Québec	SA-05465	HSS 76x38x3	76.20	38.10	3.05	0.1662	0.0016	659.34	0.2286	0.4856	12.7470	27.1370	15.9750	0.1596	8.3779	15.5590	9.6978	381.60
Extrudex	Ohio	H-22330	HSS 76x25x3.2	76.20	25.40	3.18	0.1529	0.0015	604.84	0.2032	0.3955	10.3810	25.5710	13.6350	0.0638	5.0249	10.2720	5.9531	182.53
Metra	Laval	94196	HSS 76x25x3	76.20	25.40	3.05	0.1459	0.0014	582.19	0.2032	0.3823	10.0340	25.6250	13.1530	0.0620	4.8845	10.3220	5.7593	177.04
Hydro	Montreal	MH-07995	HSS 76x25x3	76.20	25.40	3.05	0.1466	0.0014	582.19	0.2032	0.3823	10.0340	25.6250	13.1530	0.0620	4.8845	10.3220	5.7593	177.04
Extrudex	Québec	V-14770	HSS 76x25x3	76.20	25.40	3.05	0.1460	0.0014	1935.40	0.2032	0.9364	24.5780	21.9960	36.8690	0.1041	8.1928	7.3321	12.2900	329.49
Extrudex	Toronto	H-22492	HSS 76x25x3	76.20	25.40	3.05	0.1472	0.0014	582.19	0.2032	0.3823	10.0340	25.6250	13.1530	0.0620	4.8845	10.3220	5.7593	177.04
Extrudex	Toronto	H-11036	HSS 76x19x2	76.20	19.05	2.03	0.0937	0.0009	370.58	0.1905	0.2336	6.1317	25.1080	8.1579	0.0237	2.4848	7.9917	2.8632	72.92

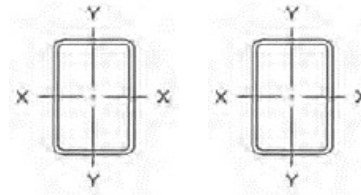
TUBES RECTANGULAIRES COINS RONDS



TUBES RECTANGULAIRES COINS RONDS

Extrudeur	Emplacement	Identification de la section du fabricant	Identification de la section	Dimensions extérieures		Épaisseur	Masse	Charge morte	Aire	Aire par mètres de longueur	Axe X-X				Axe Y-Y				Constante de torsion
				Hauteur	Largeur						Ix	Sx	rx	Zx	ly	Sy	ry	Zy	
Extrudex	Toronto	H-20789	HSS 263x85x4.6	263.14	85.34	4.57	0.7640	0.0075	3020.90	0.6752	24.1200	183.3200	89.3560	237.6100	4.1197	96.5420	36.9290	106.9800	12005.00
Extrudex	Toronto	H-20817	HSS 203x102x6.4	203.20	101.60	6.35	0.9300	0.0091	3709.20	0.6082	19.8160	195.0400	73.0920	242.1800	6.6043	130.0100	42.1960	147.9700	15632.00
Extrudex	Ohio	H-27076	HSS 203x102x4.8	203.20	101.60	4.78	0.6917	0.0068	2734.90	0.5878	14.4650	142.3700	72.7260	177.2200	4.9584	97.6060	42.5800	109.9100	12232.00
Extrudex	Ohio	H-15316	HSS 203x64x6.4	203.20	63.50	6.35	0.8113	0.0080	3208.50	0.5252	14.9540	147.1900	68.2710	192.8400	2.2376	70.4760	26.4080	81.3920	6517.40
Extrudex	Ohio	H-10880	HSS 203x51x6.4	203.20	50.80	6.35	0.7705	0.0076	3047.20	0.4998	13.3910	131.8000	66.2920	176.9700	1.3311	52.4070	20.9010	61.5300	4164.90
Extrudex	Toronto, Ohio	H-20790	HSS 203x51x3.2	203.20	50.80	3.18	0.3971	0.0039	1570.50	0.5053	7.2420	71.2790	67.9060	93.5670	0.7779	30.6260	22.2560	33.8100	2360.00
Extrudex	Ohio	H-16426	HSS 152x102x6.4	152.40	101.60	6.35	0.7574	0.0074	2995.00	0.4916	9.3829	123.1300	55.9720	151.0000	4.9712	97.8580	40.7410	113.8400	10462.00
Extrudex	Toronto	H-21485	HSS 152x51x6.4	152.40	50.80	6.35	0.6031	0.0059	2384.50	0.3928	6.1192	80.3040	50.6580	106.3700	0.9969	39.2490	20.4470	46.6910	2946.50
Hydro	Montreal	MH-55881	HSS 152x51x6.4	152.40	50.80	6.35	0.6216	0.0061	2417.00	0.4037	6.3146	82.8690	51.1130	108.9000	1.0196	40.1420	20.5390	47.5670	2920.40
Extrudex	Toronto, Ohio	H-23748	HSS 152x51x4.8	152.40	50.80	4.78	0.4627	0.0045	1830.00	0.3982	4.8547	63.7090	51.5050	83.0750	0.8179	32.2010	21.1410	37.0850	2333.60
Extrudex	Ohio	H-13989	HSS 152x51x3.2	152.40	50.80	3.18	0.3096	0.0030	1223.90	0.3955	3.2957	43.2500	51.8910	55.9600	0.5800	22.8350	21.7690	25.5340	1662.60
Extrudex	Toronto	H-3293	HSS 127x108x6.4	127.00	107.95	6.35	0.6788	0.0067	2606.20	0.4426	5.7944	91.2500	47.1520	111.2100	4.5301	83.9290	41.6920	99.8290	8255.20
Extrudex	Ohio	H-17298	HSS 127x76x6.4	127.00	76.20	6.35	0.6118	0.0060	2419.30	0.3955	5.0793	79.9900	45.8200	99.6380	2.2290	58.5030	30.3530	68.9120	5016.80
Extrudex	Québec	V-16482	HSS 127x76x6.4	127.00	76.20	6.35	0.6065	0.0059	2419.30	0.3955	5.0793	79.9900	45.8200	99.6380	2.2290	58.5030	30.3530	68.9120	5016.80
Metra	Laval	998129	HSS 127x76x4.7	127.00	76.20	4.75	0.4626	0.0045	1840.10	0.3955	3.9705	62.5270	46.4520	76.8700	1.7656	46.3420	30.9760	53.5010	3939.50
Extrudex	Ohio	H-25948	HSS 127x64x3.2	127.00	63.50	3.18	0.2913	0.0029	1151.90	0.3728	2.4066	37.8990	45.7080	46.9780	0.8164	25.7130	26.6220	28.9690	1959.60
Extrudex	Toronto	H-21486	HSS 127x51x6.4	127.00	50.80	6.35	0.5237	0.0051	2070.70	0.3447	3.8240	60.2210	42.9740	78.7320	0.8435	33.2100	20.1830	39.7820	2324.10
Hydro	Montreal	MH-55884	HSS 127x51x6.4	127.00	50.80	6.35	0.5386	0.0053	2094.40	0.3529	3.9211	61.7490	43.2680	80.2520	0.8592	33.8260	20.2540	40.3970	2310.30
Metra	Laval	998870	HSS 127x51x4.7	127.00	50.80	4.75	0.4002	0.0039	1596.80	0.3529	3.0801	48.5060	43.9200	62.1590	0.6964	27.4160	20.8830	31.7790	1844.30
Hydro	Montreal	MH-55483	HSS 127x51x4.7	127.00	50.80	4.75	0.4106	0.0040	1596.50	0.3529	3.0789	48.4870	43.9160	62.1390	0.6962	27.4090	20.8830	31.7710	1844.80
Extrudex	Québec	V-15409	HSS 127x51x4.7	127.00	50.80	4.75	0.3861	0.0038	1540.20	0.3393	2.8588	45.0210	43.0820	58.6210	0.6626	26.0870	20.7410	30.3950	1844.40
Metra	Laval	998856	HSS 127x51x3.2	127.00	50.80	3.18	0.2713	0.0027	1082.20	0.3501	2.1395	33.6940	44.4650	42.6630	0.5002	19.6910	21.4990	22.1720	1319.10
Extrudex	Toronto, Ohio	H-13988	HSS 127x51x3.2	127.00	50.80	3.18	0.2688	0.0026	1062.60	0.3447	2.0630	32.4880	44.0610	41.4400	0.4884	19.2290	21.4390	21.6940	1317.60
Hydro	Montreal	MH-55879	HSS 127x51x3.2	127.00	50.80	3.18	0.2783	0.0027	1080.00	0.3501	2.1319	33.5720	44.4290	42.5340	0.4991	19.6510	21.4980	22.1260	1312.00
Extrudex	Ohio	H-14131	HSS 127x44x3.2	127.00	44.45	3.18	0.2650	0.0026	1048.40	0.3402	2.0107	31.6640	43.7930	40.5770	0.3731	16.7890	18.8660	18.9410	1031.50
Extrudex	Ohio	H-17937	HSS 127x25x3.2	127.00	25.40	3.18	0.2339	0.0023	925.34	0.3021	1.5394	24.2430	40.7880	32.9630	0.1036	8.1576	10.5810	9.5120	338.44
Hydro	Montreal	MH-52384	HSS 127x25x3.2	127.00	25.40	3.18	0.2385	0.0023	927.04	0.3037	1.5462	24.3500	40.8400	33.0700	0.1039	8.1782	10.5850	9.5330	338.67
Extrudex	Québec	V-01415	HSS 114x44x3.2	114.30	44.45	3.18	0.2439	0.0024	946.22	0.3081	1.4687	25.6990	39.3970	32.9670	0.3290	14.8040	18.6470	16.8200	897.55
Metra	Laval	997916	HSS 102x76x6.4	101.60	76.20	6.35	0.5171	0.0051	2053.30	0.3392	2.8207	55.5260	37.0640	68.8710	1.7798	46.7140	29.4410	56.1080	3606.60
Hydro	Montreal	MH-57813	HSS 102x76x6.4	101.60	76.20	6.35	0.5284	0.0052	2062.00	0.3447	2.8570	56.2400	37.2230	69.4650	1.8024	47.3070	29.5650	56.5920	3531.10
Hydro	Montreal	AH-07145	HSS 102x76x4.7	101.60	76.20	4.75	0.3957	0.0039	1.59E+03	0.3501	2.2955	45.1870	3.80E+01	54.7630	1.4564	38.2260	3.03E+01	44.7210	2781.50
Extrudex	Québec	V-17955	HSS 102x64x4.7	101.60	63.50	4.75	0.3438	0.0034	1371.10	0.3030	1.7542	34.5320	35.7700	43.8460	0.8511	26.8050	24.9150	31.8420	2036.00
Extrudex	Ohio	H-20861	HSS 102x51x6.4	101.60	50.80	6.35	0.4486	0.0044	1774.20	0.2966	2.1976	43.2590	35.1940	55.6950	0.6950	27.3620	19.7920	33.1630	1745.50
Extrudex	Toronto	H-27490	HSS 102x51x6.4	101.60	50.80	6.35	0.4421	0.0043	1748.10	0.2939	2.1409	42.1440	34.9950	54.4820	0.6831	26.8940	19.7680	32.6120	1724.80
Extrudex	Québec	V-16900	HSS 102x51x6.4	101.60	50.80	6.35	0.4383	0.0043	1748.10	0.2939	2.1409	42.1450	34.9960	54.4830	0.6831	26.8950	19.7680	32.6130	1724.80
Extrudex	Toronto	H-23267	HSS 102x51x4.8	101.60	50.80	4.78	0.3449	0.0034	1364.30	0.2939	1.7432	34.3140	35.7450	43.5520	0.5644	22.2200	20.3390	26.2260	1419.10
Extrudex	Québec	V-18295	HSS 102x51x4.8	101.60	50.80	4.78	0.3420	0.0034	1364.30	0.2939	1.7432	34.3140	35.7450	43.5520	0.5644	22.2200	20.3390	26.2260	1419.10
Metra	Laval	998772	HSS 102x51x3.2	101.60	50.80	3.18	0.2238	0.0022	892.59	0.2912	1.1504	22.6450	35.9000	28.5220	0.3911	15.3990	20.9330	17.6280	982.62
Metra	Laval	998859	HSS 102x51x3.2	101.60	50.80	3.18	0.2281	0.0022	910.11	0.2966	1.1955	23.5330	36.2430	29.4110	0.4023	15.8400	21.0260	18.0730	977.17
Extrudex	Ohio	H-20862	HSS 102x51x3.2	101.60	50.80	3.18	0.2324	0.0023	918.79	0.2993	1.2171	23.9590	36.3970	29.8450	0.4076	16.0460	21.0620	18.2860	975.45
Extrudex	Toronto, Ohio	H-21813	HSS 102x51x3.2	101.60	50.80	3.18	0.2301	0.0023	909.97	0.2966	1.1951	23.5260	36.2400	29.4050	0.4023	15.8370	21.0250	18.0690	977.20
Hydro	Montreal	MH-16166	HSS 102x51x3.2	101.60	50.80	3.18	0.2324	0.0023	918.73	0.2993	1.2170	23.9570	36.3960	29.8420	0.4075	16.0450	21.0620	18.2850	975.79
Hydro	Montreal	MH-55877	HSS 102x51x3.2	101.60	50.80	3.18	0.2341	0.0023	925.09	0.3021	1.2329	24.2690	36.5060	30.1600	0.4114	16.1960	21.0880	18.4410	977.32
Extrudex	Québec	V-18637	HSS 102x51x3.2	101.60	50.80	3.18	0.2281	0.0022	909.97	0.2966	1.1951	23.5260	36.2400	29.4050	0.4023	15.8370	21.0250	18.0690	977.24
Extrudex	Toronto	H-10076	HSS 102x51x3	101.60	50.80	3.05	0.2256	0.0022	891.87	0.2926	1.1820	23.2680	36.4050	29.0270	0.3930	15.4730	20.9920	17.7000	982.57
Extrudex	Ohio	H-28611	HSS 102x51x3	101.60	50.80	3.05	0.2191	0.0021	866.51	0.2747	1.1307	22.2570	36.1230	27.8860	0.3833	15.0900	21.0320	17.2030	946.70
Hydro	Montreal	MH-03315	HSS 102x51x3	101.60	50.80	3.05	0.2189	0.0021	857.11	0.2939	1								

TUBES RECTANGULAIRES COINS RONDS



TUBES RECTANGULAIRES COINS RONDS

Extrudeur	Emplacement	Identification de la section du fabricant	Identification de la section	Dimensions extérieures		Épaisseur mm	Masse kg/m	Charge morte kN/m	Aire mm <sup>2</sup>	Aire par mètres de longueur m <sup>2</sup>	Axe X-X				Axe Y-Y				Constante de torsion J
				Hauteur mm	Largeur mm						Ix 10 <sup>6</sup> mm <sup>4</sup>	Sx 10 <sup>3</sup> mm <sup>3</sup>	rx mm	Zx 10 <sup>3</sup> mm <sup>3</sup>	ly 10 <sup>6</sup> mm <sup>4</sup>	Sy 10 <sup>3</sup> mm <sup>3</sup>	ry mm	Zy 10 <sup>3</sup> mm <sup>3</sup>	
Extrudex	Ohio	H-17949	HSS 102x25x3.2	101.60	25.40	3.18	0.1916	0.0019	757.50	0.2485	0.8264	16.2670	33.0290	21.9080	0.0826	6.5057	10.4440	7.6418	259.27
Extrudex	Québec	V-14199	HSS 95x64x6.4	95.25	63.50	6.35	0.4728	0.0046	1885.60	0.3168	2.2404	47.0460	34.4700	58.7100	1.1484	36.1700	24.6790	43.5020	2417.90
Extrudex	Toronto	H-24942	HSS 92x41x4.7	92.08	41.28	4.75	0.2927	0.0029	1157.10	0.2585	1.1546	25.0800	31.5890	32.4390	0.3113	15.0840	16.4020	17.9910	810.57
Extrudex	Québec	V-14198	HSS 89x64x3	88.90	63.50	3.05	0.2195	0.0022	875.79	0.2962	0.9694	21.8090	33.2700	26.3320	0.5754	18.1210	25.6310	20.8860	1151.00
Extrudex	Toronto	H-24842	HSS 76x51x6.4	76.20	50.80	6.35	0.3606	0.0035	1425.50	0.2431	1.0217	26.8150	26.7710	34.3290	0.5227	20.5780	19.1480	25.4430	1145.90
Extrudex	Ohio	H-27874	HSS 76x51x6.4	76.20	50.80	6.35	0.3621	0.0036	1432.10	0.2458	1.0333	27.1200	26.8610	34.6120	0.5282	20.7950	19.2050	25.6420	1134.20
Hydro	Montreal	MH-18021	HSS 76x51x6.4	76.20	50.80	6.35	0.3466	0.0034	1326.30	0.2322	0.8995	23.6100	26.0430	30.8560	0.4728	18.6140	18.8810	23.2300	1089.60
Metra	Laval	998797	HSS 76x51x3.2	76.20	50.80	3.18	0.1907	0.0019	760.57	0.2485	0.6022	15.8070	28.1390	19.3070	0.3174	12.4980	20.4300	14.5120	659.64
Extrudex	Toronto, Ohio	H-15290	HSS 76x51x3.2	76.20	50.80	3.18	0.1893	0.0019	748.68	0.2458	0.5863	15.3890	27.9850	18.8720	0.3107	12.2310	20.3700	14.2290	653.86
Hydro	Montreal	MH-55878	HSS 76x51x3.2	76.20	50.80	3.18	0.1948	0.0019	771.15	0.2485	0.6144	16.1260	28.2260	19.6650	0.3222	12.6850	20.4410	14.7370	672.30
Extrudex	Québec	V-17261	HSS 76x51x3.2	76.20	50.80	3.18	0.1878	0.0018	748.68	0.2458	0.5863	15.3890	27.9850	18.8720	0.3107	12.2310	20.3700	14.2290	653.86
Extrudex	Toronto	H-11967	HSS 76x51x3	76.20	50.80	3.05	0.1790	0.0018	707.67	0.2418	0.5480	14.3820	27.8270	17.7110	0.2923	11.5080	20.3240	13.4040	634.50
Hydro	Montreal	MH-67423	HSS 76x38x4.8	76.20	38.10	4.78	0.2573	0.0025	994.45	0.2204	0.6879	18.0540	26.3000	23.3180	0.2180	11.4460	14.8070	13.9020	553.81
Extrudex	Toronto	H-17139	HSS 76x38x3.2	76.20	38.10	3.18	0.1624	0.0016	642.04	0.2122	0.4407	11.5680	26.2000	14.9310	0.1496	7.8515	15.2630	9.2293	393.82
Extrudex	Toronto	H-24941	HSS 76x38x3.2	76.20	38.10	3.18	0.1689	0.0017	668.03	0.2204	0.4788	12.5660	26.7700	15.9280	0.1591	8.3493	15.4300	9.7307	394.15
Hydro	Montreal	MH-15766	HSS 76x38x3.2	76.20	38.10	3.18	0.1732	0.0017	698.61	0.2272	0.5181	13.5990	27.2330	17.0240	0.1678	8.8069	15.4970	10.2440	407.01
Extrudex	Québec	V-15349	HSS 76x38x3.2	76.20	38.10	3.18	0.1611	0.0016	642.04	0.2123	0.4407	11.5680	26.2000	14.9310	0.1496	7.8515	15.2630	9.2293	393.82
Metra	Laval	998855	HSS 76x38x2.5	76.20	38.10	2.54	0.1387	0.0014	553.05	0.2259	0.4123	10.8210	27.3040	13.4840	0.1372	7.1997	15.7480	8.2327	328.02
Hydro	Montreal	MH-55883	HSS 76x38x2.5	76.20	38.10	2.54	0.1421	0.0014	566.22	0.2259	0.4281	11.2360	27.4970	13.9390	0.1404	7.3680	15.7450	8.4379	338.38
Extrudex	Québec	V-15234	HSS 76x38x2.4	76.20	38.10	2.41	0.1236	0.0012	493.15	0.2123	0.3456	9.0702	26.4720	11.5910	0.1193	6.2612	15.5520	7.2228	313.21
Extrudex	Toronto	H-20802	HSS 76x25x4.7	76.20	25.40	4.75	0.2202	0.0022	870.68	0.1991	0.5371	14.0980	24.8380	19.0240	0.0810	6.3800	9.6468	8.0200	239.93
Hydro	Montreal	MH-56645	HSS 76x25x3.2	76.20	25.40	3.18	0.1489	0.0015	583.79	0.1923	0.3646	9.5690	24.9900	12.8260	0.0604	4.7540	10.1700	5.6794	183.49
Hydro	Montreal	AH-07294	HSS 76x25x3	76.20	25.40	3.05	0.1467	0.0014	595.75	0.2025	0.3981	10.4480	25.8490	13.6160	0.0631	4.9660	10.2890	5.8774	182.70
Extrudex	Toronto, Ohio	H-11026	HSS 76x25x3	76.20	25.40	3.05	0.1431	0.0014	565.91	0.1953	0.3595	9.4367	25.2060	12.5450	0.0597	4.7006	10.2710	5.5643	176.36
Extrudex	Québec	V-18635	HSS 76x25x3	76.20	25.40	3.05	0.1418	0.0014	565.91	0.1953	0.3595	9.4367	25.2060	12.5450	0.0597	4.7006	10.2710	5.5643	176.36
Hydro	Montreal	MH-07345	HSS 76x25x1.9	76.20	25.40	1.91	0.0942	0.0009	386.05	0.2023	0.2708	7.1064	26.4830	9.0610	0.0447	3.5167	10.7560	3.9872	126.43

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