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ANNUAL



ORNAMENTAL AND ARCHITECTURAL METAL INDUSTRY

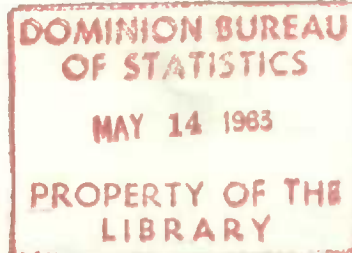
1960

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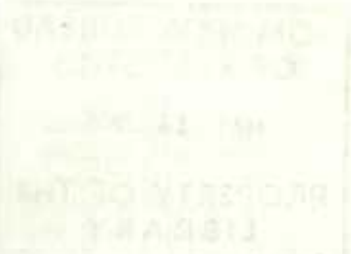
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SYMBOLS

The interpretation of the symbols used in the tables throughout this publication is as follows:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.



EXPLANATORY NOTES

This report is one in a series of about 140 publications which present the results of the 1960 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and for major industry groups. Adoption of the revised Standard Industrial Classification for 1960 compilations has necessitated changes in titles of many reports in this annual series. The content of many industries has also been affected (see following note on Industrial Classification).

Industry statistics given in these reports refer to number of establishments, employees, salaries and wages, cost of materials, supplies, fuel and electricity, gross value of shipments, inventories and value added by manufacturing. Details of materials used and products shipped are also given. Descriptions of the principal industry statistics, with special reference to 1960 are as follows:

Period Covered

Firms are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where the firms find it impossible to supply calendar year data from accounting records. However the data on employees, salaries and wages are requested on a calendar year basis in all cases.

Establishment

Data for the annual census is collected on an establishment basis. A firm with more than one plant is required to file a report for each plant. In most cases an establishment is a complete factory; sometimes, however, a plant is divided into two or more establishments when it carries out operations classifiable to different industries and when separate accounting records are available. Usually the statistics for an establishment relate only to the manufacturing activities. Other activities such as construction at the plant by its own employees, wholesale or retail activities carried on at the plant location, etc., are not included. Plants engaged solely in repair work (except in the case of furniture, shipbuilding, boat building, aircraft and railway rolling stock industries) are not included but plants occupied in assembling parts into complete units are included.

Employees

Administrative and office employees include all executives and supervisory officials such as presidents, vice-presidents, secretaries, treasurers, etc., together with managers, professional and technical employees, superintendents and factory supervisors above the working foremen level, and clerical employees. Working owners and partners are also included in this category.

Production and related workers include all other factory workmen whether paid on a monthly, weekly, hourly or piece-work basis. Working foremen doing work similar to that of the employees they supervise are included, as are maintenance, ware-

housing and delivery staffs. Employees on new construction work, in retail or wholesale operations, on outside piece work etc. are not included.

Production workers are reported by months, an average for the year being obtained by summing the monthly figures and dividing by twelve. This procedure is followed even though the plant did not operate in all months. Figures on employment refer to calendar years whether or not some establishments reported other data on a financial year basis.

Salaries and Wages

Salaries and wages refer to gross earnings of the employees described above, including salaries, wages, commissions, bonuses, the value of room and board where provided, deductions for income tax and social services such as sickness and unemployment insurance, pensions, etc., as well as any other allowances forming part of the employees' wages. Payments for overtime are included.

Salaries refer to amounts paid to administrative and office employees. Withdrawals by working owners or partners for normal living expenses for self and family are included but not their withdrawals for income tax. Wages refer to the amounts paid to production and related workers as defined above. Data on earnings refer to the calendar year whether or not some establishments reported other data on a financial year basis.

Cost of Fuel and Electricity

Figures for fuel refer to amounts actually used, (including fuel used in cars and trucks), not to purchases unless the quantities are the same. Values refer to the laid-down cost at the works, including freight, duty, etc.

Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the works, of materials and supplies actually used during the year whether purchased from others or received as transfers from other plants of the reporting company. Amounts paid to other manufacturers for work done on materials owned by the reporting company are included. Returnable containers or any other items charged to capital account are not included. Fuels are not included. Goods bought from others or received as transfers from other plants or reporting companies for resale without further processing are not included. Maintenance and repair supplies not chargeable to capital account are included.

Factory Shipments

Factory shipments refer to shipments of goods made from own materials either in the reporting plant or by other manufacturers on the basis of a charge to the reporting plant for work done. All products and by-products shipped from the establishment are included whether for domestic use, export, or for government departments. Transfer shipments to sales outlets, distributing warehouses or to other manufacturing units of the reporting firm are included. Goods bought or received as transfers

and resold without further processing are not included. Values are computed on f.o.b. plant or plant warehouse basis, and do not include sales tax or excise duties. Values of containers not returnable are included. Amounts received in payment for work done on materials owned by others are included.

In a few industries such as shipbuilding, aircraft, etc., where work on principal products extend over a relatively long period, the value of production is recorded rather than the value of shipments. For those industries production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on finished units delivered in the year under review.

Inventories

Values represent the book values of manufacturing inventories owned and held at the reporting plant. Figures include inventories held in warehouses or selling outlets which have been included with plant operations for purposes of reporting shipments.

Value added by Manufacturing

Figures are computed from value of shipments plus or minus changes in inventories of finished goods and goods in process less cost of materials, fuel and electricity. This figure is sometimes referred to as net production.¹

Standard Industrial Classification

The revised Standard Industrial Classification which has been introduced with the 1960 Census of Manufactures provides for a breakdown of the universe into 140 industries arranged in 20 major groups compared with 135 industries in 17 major groups in the old classification which was used in the compilations for the years 1949 to 1959 inclusive. It incorporates changes considered desirable on the basis of experience in using the earlier classification as well as those which take account of changes in the structure of Canadian industries associated with the rapid developments of the past decade. Full details are contained in the Standard Industrial Classification Manual, Catalogue No. 12-501, which is available from either the Queen's Printer or the Dominion Bureau of Statistics. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

Many industries remain unchanged in the new classification but in many instances there have been substantial changes in content because of the shifting of establishments from one industry to another or in re-grouping of establishments. Where

¹ To arrive at the National Accounts concept of "gross domestic product at factor cost", it would be necessary to subtract also the cost of office supplies used, advertising, insurance and other goods and services obtained from other businesses. Data on these inputs are not collected on the annual Census of Manufactures. Value added figures for "The primary industries and construction" are published in D.B.S. publication 61-202, *Survey of Production*.

changes have occurred the principal statistics for 1957, 1958 and 1959 have been re-compiled to provide data on a basis comparable with those for 1960.

Short Forms

Between 1949 and 1957, in an effort to ease the reporting burden for smaller firms, a short form was used asking for the total value of shipments only or, in a few cases where losses of detail were significant, for quantities and values of principal products. For purposes of publication, missing data were estimated on the basis of appropriate ratios. In general the cut-off point for these short forms was set at \$50,000 value of shipments. About 40% of the total number of establishments reported on the short form and accounted for less than 3 per cent of the total value of shipments.

In 1958, in order to establish a new base year, the small firms were asked to report all items of principal statistics together with some detail on materials and products.

For the 1959 Census, the short form was used again, but further steps were taken to ease the respondents' burden. First, the general limit for short forms was raised to \$100,000 value of shipments. In addition, a new intermediate form was developed. This form is a shortened version of the long form in that most of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the short and intermediate forms there were lower cut-offs for a number of industries in which the smaller firms accounted for a larger share of total shipments. On the other hand, limits were raised where this could be done without a significant loss of coverage. On most of the short forms for 1959, in addition to total value of shipments, data on principal products were requested. In a few industries, where loss of employment and earnings data were considered too large because of higher cut-offs, a question on total payroll was placed on the short form. This practice was followed again in 1960.

The intermediate and long forms provide complete data for the compilation of all elements of principal industry statistics and the details of materials and products. The one-page short form, although containing data on principal products and total value of shipments, does not request information on other elements of principal statistics such as value of inventories, materials, fuel and electricity and, in most cases, employment and salaries and wages, nor does it contain detailed data on volume and value of materials used. For purposes of compiling aggregates of principal statistics by industry and by geographic location, the missing data for each establishment were estimated for 1959 by using, in general, ratios based on the change in the value of shipments between 1958 and 1959. The proportion of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

ORNAMENTAL AND ARCHITECTURAL METAL INDUSTRY

1960

Data for 1960 presented in this report reflect implementation of the revised Standard Industrial Classification (S.I.C.) which is being used by the Dominion Bureau of Statistics in its compilation of 1960 industry statistics—see item "Standard Industrial Classification" in the Explanatory Notes section of this report. The present report constitutes the first in this series for the Ornamental and Architectural Metal Industry. For statistical purposes the industry titled Ornamental and Architectural Metal Industry in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing ornamental metal work, stairs and staircases, fire escapes, grilles, railings, metal sash, doors and frames and metal partitions. Establishments included in this industry may install the products of their own manufacture but they are primarily engaged in fabrication. Establishments primarily engaged in the erection or installation of purchased fabricated metal products are included in Industry 421—Special—Trade Contractors.

In many instances adoption of the new Standard Industrial Classification effected a radical shifting of manufacturing establishments as between industry groupings and the establishment of new industries as in the case of Ornamental and Architectural Metal Industry. This latter industry in accordance with the new S.I.C. concept now comprises a major component of the old S.I.C. industry groups "The

Miscellaneous Iron and Steel Products Industry" and "The Sheet Metal Products Industry". In order to provide a statistical comparison an attempt has been made to recompile 1957, 1958 and 1959 data on the revised Standard Industrial Classification basis. Figures on this basis are shown in Table 1.

There were 514 establishments classified to the Ornamental and Architectural Metal Industry in 1960, there being 8 in Nova Scotia, 3 in New Brunswick, 190 in Quebec, 211 in Ontario, 16 in Manitoba, 7 in Saskatchewan, 26 in Alberta and 53 in British Columbia. Employees in this industry numbered 8,775; salaries and wages totalled \$34,922,715; materials used in the manufacturing processes cost \$52,987,173; and factory shipments were valued at \$115,176,064.

The establishments in this industry make ornamental and architectural metal products as their main products. On the other hand, some companies which have been classified to other industrial classes make ornamental and architectural metal products as a secondary part of their business. Tables 1 to 4 and 8 to 12 of this report refer only to the Ornamental and Architectural Metal Industry and the details presented reflect only the operations of the firms classified to this industry. Tables 5, 6 and 7 represent factory shipments of specified architectural products from **all** industries.

TABLE 1. Principal Statistics: Ornamental and Architectural Metal Industry, by Provinces, 1957-60
 Basis: Standard Industrial Classification revised 1960.

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost of materials at plant	Value added by manufacture	Value of factory shipments
	number				dollars		
1957							
Nova Scotia	6	90	173,712	9,980	379,993		984,230
New Brunswick	1						
Quebec	142	2,407	7,806,674	311,462	10,010,064		23,259,938
Ontario	160	4,633	18,182,774	759,303	27,302,626		61,966,699
Manitoba	9	180	602,273	15,963	1,000,705	¹	1,685,193
Saskatchewan	5	14	37,430	4,121	67,348		139,149
Alberta	18	223	761,923	35,661	1,415,714		2,960,944
British Columbia	35	587	2,168,229	120,293	3,237,965		6,919,090
Canada	376	8,134	29,733,015	1,256,783	43,414,415		97,915,243
1958							
Nova Scotia	7	112	283,912	9,226	495,256		1,313,081
New Brunswick	1						
Quebec	162	2,300	7,480,260	302,547	9,382,012		21,699,328
Ontario	197	4,946	19,489,774	746,037	28,921,225		66,678,583
Manitoba	12	170	577,910	20,014	951,007	¹	1,681,931
Saskatchewan	5	25	61,672	1,643	82,718		210,278
Alberta	20	277	941,789	44,673	1,773,628		3,449,852
British Columbia	41	560	2,084,239	108,714	2,968,562		6,749,715
Canada	445	8,390	30,919,556	1,232,854	44,574,408		101,782,768
1959							
Nova Scotia	7	151	469,974	16,524	739,181		1,959,625
New Brunswick	1						
Quebec	157	2,495	8,332,272	348,894	10,325,579		23,943,330
Ontario	193	5,472	22,050,446	826,020	34,930,800		74,454,254
Manitoba	13	220	720,066	26,880	805,199	¹	2,118,496
Saskatchewan	5	38	86,689	2,267	103,113		268,571
Alberta	23	340	1,317,468	57,314	1,998,273		4,270,441
British Columbia	45	666	2,558,828	148,580	3,580,567		7,721,474
Canada	444	9,382	35,535,743	1,426,479	52,482,712		114,736,191
1960							
Nova Scotia	8	89	225,748	6,031	365,156	562,393	953,649
New Brunswick	3	39	115,728	3,017	232,832	84,005	317,409
Quebec	190	2,547	9,278,869	338,116	12,780,400	14,442,894	27,416,831
Ontario	211	5,110	21,401,099	875,753	34,186,431	38,681,223	74,326,397
Manitoba	16	241	860,502	32,652	995,017	1,465,946	2,476,733
Saskatchewan	7	30	102,801	2,933	145,006	160,761	307,369
Alberta	26	283	1,103,004	35,387	1,753,933	1,963,888	3,721,962
British Columbia	53	436	1,834,964	60,491	2,528,398	3,063,341	5,655,714
Canada	514	8,775	34,922,715	1,354,380	52,987,173	60,424,451	115,176,064

¹ The changeover to the new classification has delayed the recompilation of "Value added" figures for these years and same will not be available until the next issue of this report.

TABLE 2. Inventories:¹ Ornamental and Architectural Metal Industry, 1960

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening:				
Nova Scotia and New Brunswick	133,154	18,968	66,433	218,555
Quebec	2,614,023	727,800	485,344	3,837,167
Ontario	6,517,182	3,012,095	2,094,444	11,623,721
Manitoba and Saskatchewan	220,141	183,598	2,515	406,254
Alberta	463,550	25,433	48,128	537,111
British Columbia	364,115	74,105	63,696	501,916
Canada	10,312,165	4,041,999	2,770,560	17,124,724
Closing:				
Nova Scotia and New Brunswick	119,068	21,808	45,969	186,845
Quebec	2,401,640	902,745	464,978	3,769,363
Ontario	5,635,783	2,651,880	1,871,669	10,159,332
Manitoba and Saskatchewan	276,935	200,403	3,923	481,261
Alberta	482,283	39,766	65,041	587,090
British Columbia	488,601	92,136	42,181	622,918
Canada	9,404,310	3,908,738	2,493,761	15,806,809

¹ Book value of all manufacturing inventories owned and held at plant and plant warehouses.

TABLE 3. Factory Shipments: Ornamental and Architectural Metal Industry, 1960

Product	Value of factory shipments
	\$
Architectural metal work:	
Aluminum	5,920,824
Brass and Bronze	479,119
Iron and steel	28,940,097
Stainless steel	1,325,011
Awnings—Aluminum	518,407
Steel	82,037
Other	7,160
Doors, metal:	
Commercial and industrial—Aluminum	2,238,526
Steel	3,338,550
Other	1,257,294
Residential, including garage—Aluminum	757,029
Steel	1,885,686
Other	334,773
Metal combination screen and storm doors—Aluminum	6,989,726
Steel	286,733
Door frames, metal	1,580,755
Flooring, open steel	1,184,913
Lockers and shelving	608,316
Metal lath and corner bead	263,691
Partitions—Aluminum	293,692
Steel	3,280,561
Windows, excluding combination screen and storm:	
Aluminum	11,441,022
(a) Steel	4,432,830
Windows, other (combination screen and storm):	
Aluminum	13,335,424
Steel	1
Window units, hermetically sealed	339,762
Panels, parts or sections for prefabricated buildings, not sold as complete units	275,608
Prefabricated and portable metal buildings, complete units (in sections or panels), (utility buildings, dwellings, garages, etc.)	4,249,600
Prefabricated exterior metal panels (curtain wall, sandwich panels and single faced panels) ...	3,852,278
Rolled formed sections	2,961,635
Window screens, with metal frames	393,356
Structural and architectural metal products, other	2,930,888
Amount received for repair and custom work	1,628,438
All other products	9,762,323
Total	115,176,064

¹ Included with item (a).

Note: Data given in the above table are for the Ornamental and Architectural Metal Industry which includes only the firms that make ornamental and architectural metal products as their main products. Some of these products were also made as minor products by firms in other industries. For total output figures for selected products, see Tables 5-7 inclusive.

TABLE 4. Materials Used: Ornamental and Architectural Metal Industry, 1960

Material	Quantity	Total cost at plant
		\$
Castings (rough and semi-finished received from foundry):		
Iron (gray and malleable)	ton 1,719	484,954
Steel	" 1,220	445,966
Steel (except alloy):		
Bars	" 28,099	4,769,163
Pipe and fittings .....	..	290,507
Plates	ton 7,050	1,187,447
Sheets:		
Black	" 23,672	3,627,682
Galvanized	" 11,002	2,024,061
Tinplate	" 133	26,945
Strip	" 2,585	438,787
Structural Shapes (unfabricated)	" 27,170	4,676,390
Wire	" 2,177	404,108
Alloy steel in all forms:		
Stainless:		
Billets, bars and rods .....	..	151,162
Other .....	..	527,632
Other alloy and tool steel (including carbon, alloy and high speed steels):		
Billets, bars and rods .....	..	60,723
Other iron and steel .....	...	1,040,086
Non-ferrous metals:		
Aluminum:		
Castings	lb. 192,555	127,047
Extrusions	" 22,455,755	11,610,128
Sheet	" 1,937,442	900,764
Other forms	" 5,954,921	2,188,258
Brass and bronze	" 406,722	196,864
Copper:		
Sheet	" 31,317	18,927
Wire	" 20,000	10,440
Other forms	" 39,279	19,830
Lead	" 50,820	9,832
Tin	" 1,000	1,250
Zinc	" 191,751	74,487
Babbitt metal and solders	" 26,480	15,664
Other non-ferrous metals .....	..	21,864
Paints, oils and varnishes .....	..	444,425
Lumber	M bd. ft. 4,819	587,107
Frit for enamelling	lb. 522,306	129,133
Shipping containers .....	...	478,496
All other materials ¹ .....	...	15,997,044
Canada .....	...	52,987,173

¹ No detailed information on materials used was collected from firms generally reporting value of shipments of less than \$50,000. The total value of materials used by these firms was \$1,893,678 and this amount is included in "All other materials".

TABLE 5. Factory Shipments of Metal Windows 1952 - 60 (from All Industries)
Residential, factory and commercial use

Year	Aluminum	Steel	Combination screen and storm		Hermetically sealed
			Aluminum	Steel	
	dollars				
1960	11,453,000	5,650,000	15,847,000	1	5,851,000
1959	22,152,000	4,036,000	12,051,000	1	2
1958	22,416,000	4,245,000	8,877,000	1	2
1957	19,441,000	4,931,000	7,399,000	1	2
1956	13,193,000	5,107,000	6,710,000	1	2
1955	12,304,000	2,903,000	5,686,000	720,000	2
1954	7,192,000	3,414,000	4,098,000	628,000	2
1953	4,591,000	2,896,000	2,558,000	681,000	2
1952	2,145,000	2,794,000	2,307,000	479,000	2

¹ Included in "Steel", column 2.

² New category for 1960. Included in other categories previously.

TABLE 6. Factory Shipments of Prefabricated and Portable Metal Buildings and Prefabricated Panels, 1960 (from All Industries)

Item	Value of factory shipments
	\$
Prefabricated and portable metal buildings, complete units (in sections or panels)	7,355,000
Prefabricated exterior metal panels (curtain wall, sandwich panels and single faced panels) ¹	6,411,000
Total	13,766,000

¹ Includes panels, parts or sections for prefabricated buildings, not sold as complete units.

TABLE 7. Factory Shipments of Metal Doors, 1960 (from All Industries)

Item	Value of factory shipments	
	Aluminum	Steel
	dollars	
Commercial and industrial, including overhead	2,248,000	5,431,000
Residential, including garage	1,208,000	2,610,000
Combination screen and storm	8,050,000	287,000
Totals	11,506,000	8,328,000

**TABLE 8. Principal Statistics classified according to Type of Ownership:
Ornamental and Architectural Metal Industry, 1957 and 1960**

Type	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of materials used	Value of factory shipments
	number		dollars		
1957					
Individual ownership.....	133	579	1,477,185	1,663,774	4,338,126
Partnerships.....	56	343	996,555	1,218,829	2,807,292
Incorporated companies	187	7,212	27,259,275	40,531,812	90,769,825
Totals	376	8,134	29,733,015	43,414,415	97,915,243
1960					
Individual ownership.....	183	648	1,860,967	1,858,799	5,041,768
Partnerships.....	60	349	1,070,927	1,343,545	2,985,287
Incorporated companies	271	7,778	31,990,821	49,784,829	107,149,009
Totals	514	8,775	34,922,715	52,987,173	115,176,064

**TABLE 9. Principal Statistics grouped according to Selling Value of Factory Shipments:
Ornamental and Architectural Metal Industry, 1957 and 1960**

Establishments reporting value of factory shipments	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of materials used	Value of factory shipments
	number		dollars		
1957					
Under \$10,000	34	49	86,869	67,264	215,215
\$ 10,000 to \$ 24,999	77	232	494,414	459,687	1,293,855
25,000 " 49,999	47	238	600,426	612,085	1,665,699
50,000 " 99,999	64	516	1,527,046	1,782,504	4,591,222
100,000 " 199,999	53	772	2,562,555	3,199,842	7,321,378
200,000 " 499,999	56	1,460	5,403,899	8,378,497	17,854,558
500,000 " 999,999	26	1,594	5,902,028	8,630,368	19,326,748
1,000,000 " 4,999,999	18	3,273	13,155,778	20,284,168	45,646,568
5,000,000 and over	1				
Totals	376	8,134	29,733,015	43,414,415	97,915,243
1960					
Under \$10,000.....	76	105	181,828	180,651	483,963
\$ 10,000 to \$ 24,999	72	178	441,230	448,041	1,125,311
25,000 " 49,999	78	417	1,118,052	1,136,100	2,858,331
50,000 " 99,999	96	775	2,677,294	2,639,333	6,964,052
100,000 " 199,999	63	760	2,886,677	4,481,574	9,084,482
200,000 " 499,999	74	1,886	7,574,583	10,444,095	23,811,345
500,000 " 999,999	30	1,589	6,719,906	10,700,975	21,506,246
1,000,000 " 4,999,999	24	3,065	13,323,145	22,956,404	49,342,334
5,000,000 and over.....	1				
Totals	514	8,775	34,922,715	52,987,173	115,176,064

TABLE 10. Employees and Their Earnings: Ornamental and Architectural Metal Industry, 1959 and 1960

Province	Number of employees				Total	Earnings		
	Supervisory and office		Production workers			Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
1959	number					dollars		
Nova Scotia and New Brunswick	26	24	96	5	151	172,790	297,184	469,974
Quebec	542	111	1,813	29	2,495	2,630,065	5,702,207	8,332,272
Ontario	1,180	397	3,649	246	5,472	7,633,915	14,416,531	22,050,446
Manitoba	62	4	148	6	220	268,716	451,350	720,066
Saskatchewan	6	1	31	—	38	22,621	64,068	86,689
Alberta	58	15	231	36	340	373,617	943,851	1,317,468
British Columbia	149	35	474	8	666	780,742	1,778,086	2,558,828
Canada	2,023	587	6,442	330	9,382	11,882,466	23,653,277	35,535,743
1960								
Nova Scotia and New Brunswick	27	19	75	7	128	164,481	176,995	341,476
Quebec	542	105	1,873	27	2,547	2,831,384	6,447,485	9,278,869
Ontario	1,142	363	3,433	172	5,110	7,597,315	13,803,784	21,401,099
Manitoba	61	7	165	8	241	320,449	540,053	860,502
Saskatchewan	6	1	23	—	30	25,304	77,497	102,801
Alberta	65	13	188	17	283	343,158	759,846	1,103,004
British Columbia	115	24	292	5	436	642,937	1,192,027	1,834,964
Canada	1,958	532	6,049	236	8,775	11,925,028	22,997,687	34,922,715

TABLE 11. Production Workers, by Months: Ornamental and Architectural Metal Industry, 1960

Month	Establishments reporting monthly detail ¹		Establishments reporting quarterly detail ²	
	Male	Female	Male	Female
January	3,850	105		
February	3,812	107		
March	3,927	110	1,122	50
April	4,089	109		
May	4,315	155		
June	4,431	183	1,372	63
July	4,585	193		
August	4,789	199		
September	4,814	210	1,429	85
October	4,933	219		
November	4,759	208		
December	4,312	159	1,316	68
Average for establishments reporting monthly detail	4,385	163		
Average for establishments reporting quarterly detail	1,310	67		
Average estimated for small establishments ³	388	5		
Average for all establishments	6,083	235		

¹ The number of production workers, by months, was collected only for establishments generally reporting value of shipments of \$200,000 and over.

² The number of production workers, by quarters, was collected only for establishments generally reporting value of shipments between \$50,000 and \$200,000.

³ For establishments generally reporting value of shipments of less than \$50,000, no data on number of workers were collected. Average was estimated by using change in value of shipments to arrive at value of payroll which was then used in conjunction with estimated average earnings to arrive at number of workers.

TABLE 12. Fuel and Electricity Used: Ornamental and Architectural Metal Industry, 1960

Kind		Quantity	Cost at plant
			\$
1. Establishments reporting commodity detail: ¹			
Bituminous coal—From Canadian mines	ton	318	4,459
Imported	"	346	5,975
Anthracite coal	"	436	8,628
Coke	"	5	134
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	714,824	287,480
Fuel oil including kerosene or coal oil	"	1,426,388	201,125
Wood	cord	20	245
Gas — Liquefied petroleum gases	Imp. gal.	26,860	4,041
Other manufactured gas	M cu. ft.	136	239
Natural gas	"	129,266	156,277
Other fuel .....		...	1,651
Electricity purchased	kwh.	20,625,026	336,824
2. Establishments reporting group detail: ²			
Cost of fuel .....		...	155,199
Cost of electricity .....		...	91,160
3. Estimate for establishments for which no data were collected: ³			
Cost of fuel and electricity .....		...	100,727
4. All establishments:			
Total cost of fuel and electricity .....		...	1,354,380

¹ Establishments generally reporting value of shipments of \$200,000 and over.² Establishments generally reporting value of shipments of \$50,000 to \$199,999.³ Establishments generally reporting value of shipments of less than \$50,000.

Directory of Firms: The Ornamental and Architectural Metal Industry, 1960

Name of firm	Address
Nova Scotia:	
Brine Aluminum Co. Ltd.	Main St., Trenton
Eastern Everseal of Amherst	1 Victoria St., Amherst
Ideal Aluminum Products Ltd.	603 Barrington St., Halifax
MacLeod, A.G.	4 Brook St., N. Sydney
Roper Aluminum Products	94 Birmingham St., Halifax
Security Sash & Screen Maritimes, Reg'd.	1 Gaspereau Ave., Wolfville
Stott Aluminum Corp. Ltd.	Welton St., Sydney
Weather Products Corp. of Canada Ltd.	Welton St., Sydney
New Brunswick:	
Alisco Atlantic Limited	106 Beaverbrook St., Moncton
Atelier Fer Forgé	100 Queen St., Edmundston
Security Products Ltd.	Dupuis Corner
Quebec:	
A.A.L. Metal Inc.	378 rue Ste-Anne, St. Jérôme
Acier Warren Steel Inc.	1845 ouest St-Vallier, Petite-Rivière
Alain, A. & Cie	197 rue St-André, Québec
A La Vieille, Forge Enrg.	1200 rte Nationale, St-Césaire
Albert, René	9 rue France, Villeneuve
All Weather Aluminum Industries Ltd.	480 Ash Ave., Montréal
Alisco (Montreal) Incorporated	401 rue Courtmanche, Montréal-Est
Alumcraft Corp.	9780 Waverley St., Montréal
Aluminum Construction Inc.	57 ouest rue St. Jacques, Montréal
André & Bruno Metal Works Inc.	2030 Thimens St., St. Laurent
Apex Win-Dor Limited	6045 Côte-de-Liesse Road, Montreal
Art & Metal Enrg.	2567 Notre-Dame, Ancienne-Lorette
Arvais Marcel	115 rue Ste-Marie, Hull
Atelier Isabelle Enrg.	590 rue Melançon, Drummondville
Atelier Raoul Desbiens	26 Rhinds, Chicoutimi-Nord
Ateliers Tremblay et Fils Enrg.	2 rue Albert, Bagotville
Au Fer Battu Enrg.	4422b est Jarry, St-Léonard-de-Port Maurice
Au Dragon Forgé	269a boul. Ste-Rose, Ste-Rose
Au Fer Forgé	St. Césaire
Auvents de la Maurice Inc.	155 Brunelle, Cap-De-La-Madeleine
B.K. Ornamental Iron Works Reg'd.	685 Mercille Ave., St. Lambert
Beauregard B. & Fils Ltée	20 Mont-Vernon, Montréal
Beaver Iron Works Co.	1412 York Lane, Montréal 20
Beclawat (Canada) Limited	335 Laurentian Blvd., Montréal
Bedard, J.B.	187 de l'Espinay, Québec
Begin, Gaston	St-Louis-de-Pintendre
Beland, A.C.	14 rue Poitras, Victoriaville
Benoit Iron Works Limited	10513 Henault St., Montreal North
Benoit Richard Fer Ornamental	3153 Beaudrey-Lehman, Shawinigan
Bergeron Aluminum Enrg.	Chicoutimi
Bernard Industries Enrg.	10414 Balzac, Montreal North
Besmetal Industries Inc.	Cap-Rouge
Blanchette H., Ltée	1665 Lavolette, Trois-Rivières
Bolar Foot Grill Ltd.	4362 rue Forest, Montreal-Nord
Bolduc H.	339-15e Rue, Québec
Bonnaire Doors Limited	480 Ash Ave., Montreal
Bouchard, Jean-Louis	La Salle, Ile-de-Montréal
Boudreau & Fils Enrg.	657 St. Roch, Trois-Rivières
Brochu, J.R.	4670 18e Avenue, Montréal
Brome General Iron Works	West-Brome
Bumeda Steel Products Ltd.	1063 Papineau, Montreal
Bumac Metal Products Ltd.	432 Greenoch Ave., Town of Mount Royal
Burnside Iron Works	1675 Marie-Jeanne St., Montreal
Canadian Architectural Metal Works Ltd.	87 Vitre St. West, Montreal
Canadian Forge Co. Limited	702 boul. l'ange-Gardien, L'Assomption
Canadian Welding Works Limited	835-42nd Ave., Lachine
Caron, Gerald, Enrg.	9802 Hochelaga, Montréal
Charest Steel Co. Ltd.	8027-14th Ave., Ville St Michel
Charland Iron Works Co., Ltd.	2730 Charland, Montréal
Chisholm Aluminum Ltd.	15-16th Ave., Ville St Pierre
Classic Ornamental Works Inc.	8695-10th Ave., Ville St. Pierre
Cliche, Conrad	36 rue Victoria, Victoriaville
Coulombé Ornamental Iron Works Co.	13 rue St. André, Terrebonne
Couture & Bergeron Ltée	Boul. Talbot, Chicoutimi
Dario, F. & Frères	8631 De Teck., Montréal
Daye Associates Limited	542 Beaudry St., Montreal
Decoration Steel Metal Works	7473-18th Ave., Ville St Michel
De Guise-Frère	1890 Shearer Lane, Montreal
Des Rosiers, Marcel	340 rue Blain, St. Hilaire
Des Rosiers R. & Frères	486 rue St. Jacques, St. Jean
Do-Mar Steel Alloy Inc.	153 rue Principale, St. Basile-le-Grand
Dominion Steel Works Reg'd.	8020-14th Ave., St. Michel
Dominion Tank and Mech. Works	8751 boul omer-Gaucher, Rivière-Des-Prairies
Dorion Iron Works	31 St. Charles, Dorion
Dozois St. Jean Limitée	2089 rue Sanguinet, Montreal
Dubois & Frères Enrg.	825 rue Lockwell, Québec
Dumas, Robert	115 boul. Terrebonne, Terrebonne
Duquette & Gariepy Inc.	390 St. Eustache, St. Eustache
Entreprises Canapées Enrg.	8027-20e Ave., St. Michel
Entreprises J.L. Parent Ltée	7938-14e Ave., St. Michel
Etwell & MacDonald Ornamental Iron Reg'd.	2c Valois Ave., Valois
Excelum Aluminum Products Co., Ltd.	10 Corbeil St., Pont Viau

Directory of Firms: The Ornamental and Architectural Metal Industry 1960 — Continued

Name of firm	Address
Quebec — Continued:	
F.T.S. Engr.	2187 Charlevoix, Québec
Faustin, A. Co., Limited	3325 Notre Dame St. E., Montreal
Fenêtres Aluminum, H.A.Z. Aluminum Windows Reg'd.	83 ruelle Ste-Agathe, Montréal
Fer Forgé Moderne	115 St. Paul, Drummondville
Fer Ornamental Drummond Engr.	210 St. Alphonse, Drummondville
Fer Ornamental Laurentian	Village-Lafontaine
Fer Ornamental St. Pierre Engr.	1022 Chemin St. Germain, Drummondville
Forge Laurentienne Limitée	107 rue Principale, St. Felix-de-Valois
Forge Moderne Inc.	206 Rue Notre Dame, L'Epiphanie
Forge St. Vincent Engr.	475 rue Bellevue St. Vincent-de-Paul
Fortier Fer Ornamental Engr.	Ste-Clothilde-de-Horton
Foschi & Liveratore Arch Iron Works Inc.	9981 Plaza Blvd., Montreal North
Gaumont, L.R. Ornamental Iron Works	6881 St. Andre, Montreal
Gauthier, Wilfrid & Fils	Ste. Scholastique
Gauthier & Julien Ltée	Portneuf-Station
Godin J.P. & Fils	920 Montcalm, St. Joseph-de-Sorel
Harvey, Doug, Construction Limited	2125 Marell Ave., Montreal
Hébert Fer Ornamental	2040 le Caron, Montreal
Héroux, Louis & Fils Ltée	50 rue Mondor St Hyacinthe
Houle, Lucien	St-Albert
Hull Iron & Steel Works	25 Mangin, Hull
Hull Metalum Ltd.	901 St. Joseph Blvd., Hull
J.D. Steel Works Co., Limited	7241 boul. Pie IX Montréal
Lachine Forge Reg'd.	629 Georges V, Lachine
La Cie Gravo Ltée	St-Felicien
Lafond & Bergeron Cie Ltée	2454 des Carrières, Montréal
La Forge Artistique Engr.	Main St., Farnham
La Forge d'Art	1665 est Démostigny, Montreal
La Forge du Nord Engr.	128 Grande-Côte, St. Eustache
La Forge Ornamentale	1377 Antonio St Martin
La Forge Parrot	258 St-Denis, St. Lambert
La Métallurgie Moderne Engr.	390 10e Avenue, Sherbrooke
Landry, L. Fer Ornamental	8031, 13e Avenue, Ville-St-Michel
Langlois, Lucien, Fer Ornamental	67 Chemin St-Louis, Beauharnois
Larouche, Georges	B.P. 187, rue des Forges, Amqui
Larouche, Wellie	28 rue Fiset, Rimouski
L'Art Ornamental	9750 Délorimier, Montréal
Lasalle Welding Inc.	2000 Kent, Montreal
Laverne Fer Ornamental Engr.	1281, 7e Avenue, Grandmère
La Vieille Forge de Rouyn	1085 rue Larivière, Rouyn
Leclerc & Leclerc Engr.	2423 St. Georges, Giffard
Lefebvre, L.P. Architecte	7838 Trait Carré est, Charlesbourg
Le Fer Ornamental de St-Félicien Engr.	71 boul Lévesque, St-Félicien
Les Frères Lebrun Ltée	3065 boul Royal, Trois Rivières
Les Industries Farnham Ltée	7502 18e Avenue, Ville St-Michel
Les Industries Nilo Limitée	669 Grand Côte, Bois-des-Filion
Les Industries Super Metal Inc.	442 rue Vitre, Québec
L'Industrie Troy Engr.	331 est Grand Allée, Québec
Locweld & Forge Products Ltd.	1545 Cabot St., Montréal
Lord & Fils Cie Limitée	2691 Délorimier, Jacques-Cartier
M & S Metalworks Reg'd.	1270 Bourdages, St. Hyacinthe
Main Iron Works Limited	4881 St. Lawrence, Montréal
Marchand Adélaide, Ltée	1124 est rue St-Vallier, Québec
Martel, Conrad	1911 rue St. Jacques, Tracy
Martel & Cyr	301 Brière St. Jerome
Mathieu & Moisan Engr.	1078 Scott, Québec-Sud
Mayo Aluminum Limited	332 St-André, Gatineau
Messely & Fils Engr.	495 2e Avenue, Québec
Miami Ornamental Engr.	1742 Murray, Laflèche
Milbern Window Ltd.	5701 Côte-St-Paul, Montréal
Modern Iron Works Ltd.	9655 St. Urbain St., Montreal
Molina, G.	7190-1st Ave., Ville-St-Michel
Montreal Forged Products Ltd.	6900 Papineau Ave., Montreal
Montreal Iron Works Ltd.	4405 Côte de Liesse Road, St. Laurent
Montreal Metal Worked Products Limited	6565 Durocher Ave. Outremont
National Ornamental Iron Works	2324 Délorimier, Montreal
National Window Co., Ltd.	Stall No. 2, C.P.R. Roundhouse, Outremont
Noël Ornamental Engr.	Boulevard Provost, St-Rémi
Ornamental Metal & Machine Works Ltd.	9780 Waverly St., Montreal
P & L Ornamental Engr.	116 b Montée-Major, Laval-Des-Rapides
Par Metal Engr.	380 rue Joly, Québec
Paré, R. Ornamental Iron Products	7355 Lévesque, Ville-D'Anjou
Perreault, Paul-Emile	1378 de la Terrière, Trois-Rivières
Pointe Claire Ornamental Iron Works	22 b St. Joachim, Pointe Claire
Poirier, L.	8572-10th Ave., St. Michel
Poulin, J.A.	950 rue Panneton, Sherbrooke
Poulin, J.B., Inc.	150-5e Rue, Québec
Prescott Iron Works Ltd.	10050 Plaza, Montreal-Nord
R. Bros & D. Ornamental Metal Works Reg'd.	660-90th Ave., Ville La Salle
Raymond Manufacturing Co., Limited	475 Metropolitan Boulevard, Lachine
Reno Metal Specialties	8422-10th Ave., Ville St. Michel
Robitaille, Jacques	279-1re Avenue, Orsinnville
Rodrigue & Frère Engr.	361 rue Dorchester, Québec
Rosemont Metal Craft Inc.	5363-12th Ave., Rosemont
Roy Fernando, Fer Ornamental	241 Prairies, Laval-des-Rapides
Shalwin Co. Limited	550, 104e Rue, Shawinigan-Sud
Silverman Iron Works Reg'd.	3424 Colonial Ave., Montreal
Simplex Metal & Ornamental Works	4243 Jarry St., St Léonard de Port Maurice
South Ornamental & Iron Work Reg'd.	Springfield Park
South Shore Ornamental Iron Works Reg'd.	270 Derome, Ville Brossard
St. Denis Ornamental	3640 Industrial St., Montreal North

Directory of Firms: The Ornamental and Architectural Metal Industry, 1960 - Continued

Name of firm	Address
Quebec - Concluded:	
St. Eustache Ornamental Iron Works	90 rue Labrie, St. Eustache
St. Germain & Perreault	5222 rue des Erables, Montréal
St-Hilaire, Fernando	141 St-Dominique, Québec
St. Michel Ornamental Metal Works Reg'd.	7190-1st Ave., Ville St. Michel
Stuart Bros Ornamental Iron Works	3160 St. Antoine, Laval Ouest
Superior Window Company Limited	Dauville, St. Hyacinthe
T.L.F. Structural Steel Reg'd.	2694 Le Tourmeaux St., Montreal
Therrien & Frères Inc.	343 sud, 10e avenue, Sherbrooke
Thibault, L.S. - Philippe	21 rue Racine, Bale-St-Paul
Tremblay & Bouclay Inc.	5810 Iberville, Montreal
Tremblay, Adéodat	91 rue Puyjalon, Hauteville
Tremblay, Rosario	540 St. Joseph, Alma
United Metal Works Reg'd.	481 St-Joseph-Lachine
Usine, d'Outillage Gauthier Ltée	320 de Bellefeuille, St Jérôme
V.D. General Metal Works Ltd.	9484 Hameln, Montreal
Valley Steel & Architectural Iron Work Co.	339 boul. du Havre, Valleyfield
Verdun Ornamental Iron Works Ltd.	1146 Hickson, Verdun
Victor General Contractors	2137 Bleury St., Montreal
Victoria Ornamental Metal Works	8975 Park Ave., Montreal
Ville La Salle Welding Engr.	7713 George., Ville La Salle
Warner Weathermaster Limited	160 boul. Labelle, Ste-Rose-de-Laval
Waverly Ornamental Works Limited	6988 Grand Ave., Montreal
Werthermer Iron & Sheet Metal Works	9060 St. Lawrence, Montreal
Westeel Products Limited	4107 Richelieu St., Montreal
West End Iron Ornamental Engr.	5930 rue d'Aragon, Montréal
Windoors, Inc.	10625 Georges Pichet, Montreal North
Wilson J.T. & Co., Limited	10435 Belvois Ave., Montreal North
Ontario:	
A.A.A. Ornamental Iron & Aluminum Co.	65 Wolseley St., Toronto
Accurate Welding Co.	3036 Dundas St. West, Toronto
Acme Iron Co.	11 Bishop St., Toronto
Acton Home & Builders Supplies Ltd.	Waterloo St., New Hamburg
Adams Welded Products Ltd., S.F.	Sackville Rd., Township of Tarentorus, Algoma
Adanac Ornamental Iron Works Ltd.	836 Upper James St., Hamilton
Aerloc Aluminum Products	R.R. 2, Dundas
Air Master of Canada Ltd.	2 Curtis St., St. Thomas
Albern Aluminum Mfg. Co., Ltd.	64 Colville Rd., Toronto
Almag Aluminum & Magnesium Ltd.	345 Munster Ave., Toronto
Alasco Products of Canada Ltd.	191 Ashtonbee Rd., Scarborough
Alseal Aluminum Products Ltd.	9 Oakland St., Weston
Aluma-Seal Co., Ltd.	49 Michigan Ave., Point Edward
Alumatic of Canada Limited	6161 Tecumseh Rd. East, Windsor
Aluminum Window Manufacturers Ltd.	Perth & Kingsley Ave., Toronto
Architectural Aluminum Co.	1015 York Blvd., Burlington
Areo Ornamental Iron Co.	153 Nash Rd. N., Hamilton
Armicon Limited	20 Brydon Dr., Rexdale
Art Wire & Iron Co., Limited	3 Carlaw Ave., Toronto
Artistic Railings	141 Oakdale Rd., Downsview
B & M Railings	88 St. George St., Toronto
Beattie Aluminum Products	Malton
Bell, P. Graham Associates Limited	Armstrong Ave., Georgetown
Bell Metalcraft Ltd.	132A de Grassi St., Toronto
Bellamy Windows Co., Ltd.	1415 Lawrence Ave., W., Toronto
Berry Door Co. Ltd.	Wingham
Bestway Aluminum	2416 Gerrard St. E., Toronto
Binnie Ornamental Iron Works	339 York St., Hamilton
Border Cities Wire & Iron Ltd.	961 Walker Road, Windsor
Bath Aluminum Storms Co.	Woodbridge
Braun, A.J. Mfg. Ltd.	285-289 Victoria St. N., Kitchener
Brockhouse J. & Co. (Canada) Ltd.	542 Evans Ave., Toronto
Butler Mfg. Co. (Canada) Ltd.	Queen Elizabeth Hwy., Burlington
C.B. Wrought Iron Mfg.	154 Bentworth, Toronto
Calladine Construction & Metals Limited	Midland Ave., Scarborough
Cameron Windows (Aluminum) Limited	142 Kennedy Rd. S., Brampton
Camsteel Limited	909 Dixon, Toronto
Canadian Crittall Metal Window Limited	685 Warden Ave., Scarborough
Canadian Met-Craft Industries Ltd.	366 King St. North, Waterloo
Canadian Ornamental Iron Co. Ltd.	77 Rivalda Rd., Weston
Canadian Thermowall & Window Co. Ltd.	100 Adelalde St. E., Toronto
Caprin Limited	Holtby Ave., Brampton
Carhayes Limited	Prince Charles Road, Cainsville
Carter Windows	269 Oxford St., Bridgeport
Casewin Co. Limited	Portland & Windsor Sts., Mimico
Central Iron Works	496 Booth St., Ottawa
Central Ornamental Iron Works Ltd.	3 Gertrude St., Hamilton
Central Steel Works	364 Queen St., Peterborough
Central Welding Works	1267 Fisher St., North Bay
Cerametal Industries Ltd.	Streetsville
Chatham Venetian Blind Co.	2 Hwy. East., Chatham
Citadel Industries	Kingston Airport, Frontenac Co.
Cieland Metal Products Ltd.	464 Welland Ave., St. Catharines
Cieland Iron Works (Kingston) Ltd.	Russel at Bagot St., Kingston
Climatite Aluminum Sash Ltd.	Major at Schofield Ave., Welland
Columbus Ornamental Steel	245 Berling St., Toronto
Compo-Miracle Products (Canada) Ltd.	Highway 2, Tilbury
Crawford Manufacturing	178½ Forward Ave., Ottawa
Cunningham & Lea Limited	681 Warden Ave., Scarborough
Custom-Aire Products & Mfg. Co., Ltd.	61 Arrow Rd., Weston

Directory of Firms: The Ornamental and Architectural Metal Industry, 1960 - Continued

Name of firm	Address
Ontario - Continued:	
Custom Iron & Cement Works	Orleans
Custom Ornamental	357 South St., Windsor
Customatic Aluminum Products Ltd.	61 Arrow Rd., Weston
Dennis Steel Corporation Ltd.	20-40 Dundas St., London
Devon Metal Products	3100 Danforth Ave., Scarborough
DiCosimo Iron Works	414 Bridge St., Niagara Falls
Dominion Aluminum Fabricating Ltd.	10 Jutland Rd., Toronto
Dominion Iron & Welding Works Reg'd.	1551 Michael St., Ottawa
Dominion Steel & Coal Corp. Ltd. (Truseon Steel Works)	2275 Ottawa St., Windsor
Dorvue Aluminum Industries Ltd.	121 Richmond St. W., Toronto
Dual Temp Products Limited	604 Dundas St., Woodstock
Dumont Aluminum Products Limited	709 Main St. W., Hamilton
Dunco Limited	1 Hafis Road, Toronto
Dundas Iron & Steel Limited	48 Fieldway Rd., Toronto
Duo Temp Niagara Ltd.	105 Merritt St., Merriton
Durable Aluminum Greenhouse Co.	917 Upper James St., Hamilton
Eastview Iron Works	72 Ste Cecile St., Eastview
Eberhard & Shriues Ltd.	625 Maitland St., London
Edmor Manufacturing Co.	10 Gall Grove, Weston
Etohicoke Ironworks Ltd.	157 Rivalda Rd., Weston
Everlast Aluminum Storm & Screen Co., Ltd.	62 Racine Road, Rexdale
F. & G. Aluminum Storms Ltd.	12 Queen Elizabeth Blvd., Toronto
Fashion Grilles Limited	70 Colville Rd., Toronto
Fisher & Ludlaw (Canada) Ltd.	Kenilworth Ave. N., Hamilton
Fleetway Aluminum Mfg. Co., Ltd.	1557 St. Laurent Blvd., Ottawa
Fleming S. W. & Co., Ltd.	49 Crockford Blvd., Scarborough
Flintridge Canada Limited	102 Rivalda Road, Weston
Freeman & Son	893 Yonge St., Toronto
Friberg Metal Products	356 McRae St., Ottawa
Gilbert Bros. Ltd.	369 Olivewood Rd., Toronto
Gore Iron Fabricators	225 Giles St., London
Guard-All Aluminum Products	6 Ripley Ave., Toronto
H. & B. Enterprise (Canada) Limited	58 Crockford Blvd., Scarborough
H. & K. Steel Fabricating Co.	2380 Haines Road., Port Credit
Hamilton, The Guild of Metalcrafts Ltd.	110 Queen St. N., Hamilton
Hamilton Ornamental Iron Works Ltd.	99 Clinton St., Hamilton
Harrison Metal Works	Vindon Road, Midland
Hauseman Limited	25 Mallard Rd., Don Mills
Higgin Homeshield Limited	134 Parklawn Rd., Toronto
Hodgsons Steel & Iron Works	Kolar Road, R.R. 1, Niagara Falls
Howard & Sons	436 Wellesley St. E., Toronto
Imperial Aluminum Co.	Victoria St., Stevensville
Jalwin Sales Limited	95 Kipling Ave. S., Toronto
Jet Metal Products Limited	1225 Lawrence Ave. W., Toronto
John Thompson Leonard	381 York St., London
K. W. Ornamental Iron Works	25 Webber St. N., Waterloo
Kawneer Canada Limited	1460 Don Mills Rd., Don Mills
Kendall Bronze & Ironwork Limited	2480 Dufferin St., Toronto
Kern Ornamental Iron Works	42 Wellington St. W., Chatham
Kitchener Forging Co.	612 Victoria St. N., Kitchener
L. S. & Dick Co. Ltd.	2536 Dougall Rd., Windsor
Lanark Sheet Metal Works Ltd.	35 Densley Ave., Toronto
Leaside Iron & Ornamental Co., Ltd.	71 Howden Road, Scarborough
Leeson & Baxter	75-32nd St., Long Branch
Lincoln Iron Works Limited	21 Wright St., St. Catharines
MacFaydens Real Seal Industries Ltd.	70 Crockford Blvd., Scarborough
Macotta Co. of Canada Limited, The	1190 Kipling Ave. N., Rexdale
Maier Iron Works	47 Maple Ave., Richvale
Majestic Door Co., Ltd.	76 Orfus Rd., Toronto
Marleigh Aluminum Products Ltd.	10 Ingram Drive, Toronto
Master Seal Sash Ltd.	Carnsville
Mayfair Wrought Iron Sales	1624 Dundas Hwy., Dixie
Metal Craft Co.	R.R. 3, Pickering
Metalsmiths Co., Ltd.	1073 Yonge St., Toronto
Metro Metalcraft Co.	282 Raleigh Ave., Toronto
Model Railing Ltd.	28 Cranfield Rd., Toronto
Modern Ornamental Iron Works	16 Macallum St., Hamilton
Modern Railings & Metal Craft Ltd.	10 Dawes Road, Toronto
Modern Steel & Iron Works (Niagara) Ltd.	2668 Dunn St., Niagara Falls
Maloney Aluminum Products of Canada Ltd.	29 Wellington St. W., Aurora
Nash Aluminum Ltd.	Babeaygeon Road, Lindsay
National Aluminum Products Co., Limited	Pickering
New Method Railing	R.R. 1, Oakville
Newtonbrook Iron Works	Gormley
Niquette Frères	932 St. Laurent Blvd., Ottawa
Norris Iron Works Ltd., The	818 Eastern Ave., Toronto
Northwestern Sheet Metal Works Co., Ltd.	400 A Hopewell Ave., Toronto
Nothof & Sons, E.	159 Albert St., London
Nu-Storm Aluminum Products	19 King St., London
Ontario Railings Co.	1266 Queen St. W., Toronto
Ornamental Iron	199 Concession St., Kingston
Ornamental & Repair Shop	718 McDougall, Windsor
Ornamental Smiths, The	42 Guelph St., Georgetown
Oshawa Ornamental Railings	227 Pearson St., Oshawa
Ottawa Iron Works Ltd.	156 McArthur Road, Eastview
Pengelly Iron Works Limited, The	47 Rivalda Rd., Weston
Peninsula General Blacksmith & Iron Works	Petrie St., St. Catharines
Peninsula Iron Works	1654 Glenholme Ave., Niagara Falls
Perma Shade Awnings Limited	13 Wallace Ave., Woodbridge
Praesto Aluminum Products Ltd.	Burford Rd., Brantford
Precision Seal Mfg. Ltd.	288 Bridgeland Ave., Toronto

Directory of Firms: The Ornamental and Architectural Metal Industry, 1960 — Continued

Name of firm	Address
Ontario — Concluded:	
Preston Steel Products (Div. of Frank Wells Ltd.)	360 Montrose North, Preston
Prime Windows of Canada Ltd.	188 Bentworth Ave., Toronto
R. D. K. Aluminum Limited	Baden
Ralphs Ornamental Iron Works	2 Dunbar Ave., Hamilton
Ramm Co. Ltd., G. W.	297 Iroquois, Port Credit
Ray Twist Ornamental Ironcraft	230 Vancouver St., London
Ray Welding & Iron Works Co., Ltd.	15 Fisher St., Toronto
Regans Ornamental Iron, Len	Bayshore Road, Deseronto
Regina Ornamental Iron Works	3 Toro Rd., Downsview
Richards-Wilcox Canadian Co., Ltd.	Terrace St., London
Richvale Ornamental Iron	11-16th Ave., Richvale
Riverside Fabrication & Welders	736 Matthew Brady Blvd., Riverside
Rolled Metal Products Ltd.	50 Wade Ave., Toronto
Romat Ornamental Iron Ltd.	111 Torkyork Dr., Weston
Rostek, Alfons	718 McDougall, Windsor
Rowe Bros & Co. (Canada) Ltd.	Hunt St., Ajax
Russell Co. of Canada Ltd., The F. C.	750 Warden Ave., Scarborough
Rumox Manufacturing Co.	242 Durocher, Eastview
Security Products (Wallaceburg) Limited	53 Minnie St., Wallaceburg
Senco Sales Limited	147 Bentworth Ave., Toronto
Sherwood Windows Limited, P.A.	26 Advance Rd., Toronto
Showerdoor Co. of Canada	3422 Bathurst St., Toronto
Smith Aluminum Products, W. D.	775 Dundas St., London
Smith Steel Fabricating Company	2576 St. Clair Ave. W., Toronto
Sterling Factories Canada (1958) Ltd.	41 Lewis St., Fort Erie
Storm Seal Aluminum Limited	Hwy 2, Brantford
Streamline Metalcraft Co., Ltd.	142 Bentworth Ave., Toronto
Sudbury Ornamental Iron Works Ltd.	2273 Sudbury Junction, Sudbury
Superior Decorative Iron Products	Hinnie St., Dorchester
Sure Seal Products & Mfg. Co., Ltd.	1139 Kipling Ave. N., Rexdale
T.J.C. Home Products Limited	1530 Weston Rd., Weston
Taylor Made Garage Doors of Canada	Challange Rd., Rexdale
Taymouth Industries Ltd.	42 Queen Elizabeth Blvd., Toronto
Tip Top Aluminum Products Ltd.	1327 Martin Grove Road, Rexdale
Tope & Son, G.	Jorden
Trudel & McAdam Ltd.	399 Laurier Ave. W., Ottawa
Twin Lock Metal Craft	276 Merrit St., Merritton
Universal Sections & Mouldings Ltd.	100 Canadian Road, Scarborough
United Fabricators Ltd.	Oxford St. E., London
Vampco Aluminum Products	456 Albert St., Strathroy
Viceroy Aluminum Limited	69 Huron St., Guelph
W. & H. Aluminum Stores Limited	45 Colville Road, Toronto
Walter's Welding & Iron Works	1016 Upper Wellington St., Hamilton
Weather-Seal Manufacturing Co., Ltd.	1153 Kennedy Road, Scarborough
Weather Shield Aluminum Products	733 Birchmount Rd., Scarborough
Welco Iron Works	353 Dain Ave., Welland
Wellington Welderies Limited	15 Alma St. S., Guelph
Wenger E.	718 Ossington Ave., Toronto
Weston Metal Fabricators Limited	2260 Weston Road, Weston
Weston Steel Products Limited	30 Brydon Drive, Rexdale
Wilby Iron Works	4 Wilby Crescent, Weston
Wilson Manufacturing Co.	326 King St. E., Bolton
Window Design Ltd.	63 Jefferson Ave., Toronto
Winter Seal of Canada Limited	10 Tedder St., Toronto
Winter Seal Windows (London) Limited	515 McCormick Blvd., London
Wonder Window Mfg. Co.	1602 Haig Blvd., Port Credit
Wrought Iron Ornamental Works	106 Lake Shore Rd., Toronto
Wrought Iron Products	Clarke Side Road, London
Z-Bar Door of Canada	38 Crockford Blvd., Scarborough
Manitoba:	
Art Metal Products	R.R. 5, Winnipeg
Atlas Industries	1835 AaGaard Ave., Brandon
Bucks Ornamental Iron Works	205 Berry St., St. James
Dominion Bronze & Iron Limited	1145 Pacific Ave., Winnipeg
Dorsch Iron Works	198 Stewart St., St. Charles
Empire Ornamental Iron Works	Middlechurch
General Machine & Welding Limited	148 Grandin St., St. Boniface
Henry's Iron Works	2619 Henderson Hwy., Winnipeg
Kings Ornamental Ironworks	1898 Main St., Winnipeg
Norwesto Aluminum Products	405 Hartford Ave., Winnipeg
Reimer, Walter E.	Mill St., Steinback
Watsons Iron and Wire Works	711 Maryland St., Winnipeg
Western Tools and Industries (1960) Ltd.	144 Messenger St., St. Boniface
Western Windows Limited	1530 Wall St., Winnipeg
Wolfe's Iron Works	291 Sherbrooke St., Winnipeg
Wrought Iron Products	634 Erin St., Winnipeg
Saskatchewan:	
Alumiseal Limited	805 Avenue P. South, Saskatoon
Crown Iron Railing Co., Ltd.	1539 Elliot St., Regina
Futura Windows (Sask.) Co., Ltd.	630-10th St. E., Saskatoon
Modern Iron Products	140 Ave. C. South, Saskatoon
Nutana Iron Works	620 Main St., Saskatoon
Ornamental Iron Works	640 Ave N. South, Saskatoon
Stevens Aluminum Products	634-10th St. E., Saskatoon

Directory of Firms: The Ornamental and Architectural Metal Industry, 1960 — Concluded

Name of firm	Address
Alberta:	
AlSCO Limited	5505-6th St. S.E., Calgary
Alum Awning & Window Products Ltd.	1802-1st N.W., Calgary
Artistic Iron Works	10146-81 Ave., Edmonton
Brays Ornamental Iron	829-2nd Ave S.W., Calgary
C. K. Steel & Machinery Limited	1327-A 9th Ave. S.E., Calgary
Devac Western Limited	10203-86 Ave., Edmonton
Edmonton Iron & Wire Works Ltd.	10361-96 St., Edmonton
General Tinning Co., Ltd.	10581-105th St., Edmonton
Gene's Welding & Fabrication	10411-95th St., Edmonton
Grenon Sash & Door Co., Limited	336-35th Ave. N.E., Calgary
Guido's Welding	1810-10th Ave. W., Calgary
House of Iron Limited	14524-115 Ave., Edmonton
Humphrey Aluminum Windows Ltd.	7415-82 Ave., Edmonton
Industrial Iron Works Ltd.	4020 Edmonton Trail, Calgary
Jacobs Ornamental Iron Works Ltd.	10565-114th St., Edmonton
Jensens Metal Works	4208-17 St. S.E., Calgary
Metalfold Door of Canada Limited	9908-65 Ave., Edmonton
Precision Window & Awning	5202-55 Ave., Red Deer
Quality Ornamental Iron Works Ltd.	4515-6 A St. N.E., Calgary
Scandia Iron Works	902-9th Ave. S.W., Calgary
Schieve Aluminum Window & Door Ltd.	10115-81 Ave., Edmonton
South Side Ornamental Iron Works	8111-104 St., Edmonton
Universal Fancy Iron Works	201-3rd St. S.W., Calgary
Wemas Metal Manufacturing Co., Ltd.	616-35 Ave. N.E., Calgary
Western Aluminum Products Ltd.	2110-48th St. S.E., Calgary
Western Ornamental Iron Works	240-3 Ave. E., Calgary
British Columbia:	
Almetco Mfg., Corp., Ltd.	Annacis Industrial Estate, New Westminster
Arab Mfg., Ltd.	1429 Granville St., Vancouver
Art Iron Limited	5550 E Hastings St., Burnaby
B. C. Alum Craft Ltd.	2532 Yew St., Vancouver
B. C. Iron Art	7183 Curragh Ave., Burnaby
Blair Iron Works Ltd.	825 Agnes St., New Westminster
Broadway Iron Works	44 East Broadway, Vancouver
Chapmans Welding Shop	640 Campbell River Rd., Courtney
Crescent Iron Works	22554 Laugheed Hwy., Haney
Custom Craft Ornamental Iron	9881-140th St., North Surrey
Dan-Can Manufacturing Co.	1090 W. 6th Ave., Vancouver
European Iron Works	1000 Commercial Drive, Vancouver
Ever-Brite Aluminum Products Ltd.	1469 Pemberton, North Vancouver
Flexible Window Screens	3617 W-48th Ave., Vancouver
General Iron Works	20257-42 Ave., Langley
Goodell, W.R.	1306 Boundary Rd., North Burnaby
Helvetica Iron Works	7810 Edmonds St., South Burnaby
Hollycraft Building Products Ltd.	413 East Columbia St., New Westminster
Humphrey Windows Ltd.	751 Discovery St., Victoria
Interlocking Weatherstripping Co.	371 East 6th Ave., Vancouver
Ironcraft Art Metal Products Ltd.	1558 Cedar Hill Crossroad, Victoria
Ironcraft Company	1570 South Boundary Rd., Vancouver
Iron Railing Co.	1364 Seymour St., (rear) Vancouver
Island Ornamental Iron Works	871 Alexandra Rd., Richmond
Jenkins, T.	224-10th Ave., New Westminster
Johnstone Fabricators Limited	680 Industrial Ave., Vancouver
Kenmar Ornamental Iron	45851 Yale Rd. West, Chilliwack
Kingsway Fireplace Appliances & Ornamental Metal Ltd.	996 Kingsway St., Vancouver
Klenn, K.	2932-176 St. R.R. 2, Cloverdale
Northwest Iron Works Limited	1439 Clyde Ave., West Vancouver
Ornamental Bronze Company Limited	1125 Vemon Drive, Vancouver
Pare, T. P.	1260-8th St., North Kamloops
Pearson Wire & Iron Works (1941) Ltd.	2105 Franklin St., Vancouver
Pion Ornamental Iron Works	2306 Burrard St., Vancouver
Quick-Fit Aluminum Sash Limited	6829 Sellers Ave., South Burnaby
Quick-Fit Aluminum Sash Ltd.	1069 S.W. Marine Dr., Vancouver
Reliance Windows Limited	950 S.W. Marine Dr., Vancouver
Riverside Iron Works Ltd.	1887 Marine Dr., North Vancouver
Royal City Welding & Iron Works	1027 Royal Ave., New Westminster
Scandia Iron & Metal Works Ltd.	3847 East 1st Ave., Burnaby
Severson Bros. Ironworks	10553-120 St., North Surrey
Surrey Ironworks Limited	12294-104th Ave., North Surrey
Swan Metals Ltd.	652 E. Broadway, Vancouver
Swiss Canadian Ornamental Ltd.	3771 Napier St., North Burnaby
Tony's Welding Shop	414 Tranquille Rd., North Kamloops
Tryson & Son Iron Works Ltd.	8975 Oak St., Vancouver
Weldcraft Company	1306 Boundary Rd., Burnaby
Wescraft Manufacturing Limited	2811 Douglas St., Victoria
Wescraft Windows Limited	3824 Williams St., North Burnaby
Western Wrought Iron Works	240 E. Esplanade, North Vancouver
Williamson, John M.	South Manitoba St., Vancouver
Unique Iron & Metal Works	1655 Main St., North Vancouver
Vulcan Metal Works Ltd.	Granville Island, Vancouver

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