

STATISTICAL Yearbook /2002



CAMARA ARGENTINA DE LA INDUSTRIA DEL ALUMINIO Y METALES AFINES



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Editorial

Figures shown in this statistical yearbook reveal the serious situation faced by our country during 2002 in which the economic measures that were taken at the end of 2001 derived in a process that ended in the country's debt default declared at the beginning of 2002.

Therefore, our sector suffered an extremely complicated situation due to a big sales recession and economic, financial and credit conditions which prevailed during most of the considered period.

2002 showed a fall in aluminum consumption which was the lowest in the last 10 years (a 27.5% decrease in relation to 2001) following the sharp decrease in the Gross National Product.

The most important demand reduction affected extrusion products (with a fall above 30%) because of construction sector stagnancy and that of rolled products for packaging (carbonated beverages and beer cans) with a decrease over 60% which produced a market shift to other types of material such as glass, PET, etc. in order to reduce packaging costs.

The low consumption of aluminum cans produced an increase in the recycling percentage of used cans as collecting system kept working normally.

As a consequence of the change in the relation peso vs. us dollar and also the decrease in industrial activity, this increase in the scrap collection produced a strong export trend which derived in a domestic lack of this raw material used for manufacturing secondary alloys needed to produce pieces for the automotive industry.

Another important fact was the huge reduction (around 56% comparing 2002 to 2001) of aluminum products imports.

Domestic offer reduction added to this imports decrease resulted in the lowest "per capita" aluminum consumption in the decade (28% below that of 2001 and 55% lower than that of 1998, the highest of the considered period).

Mercosur commercial trade also showed a strong decrease. Beyond the critical economical situation of Argentina during the first 3 quarters of 2002, the fourth showed some stabilizing in the main factors like the rate of exchange and a decrease in social conflicts which allowed to expect a slight activity recovery, a trend which luckily continued during the first months of 2003.

We trust that with the government change which took place last may and with convenient economic measures aimed to encourage the market demand, it will be possible to revert the deep an long recession in which we are immersed since almost five years.

Alfredo Lurati



Domestic aluminium consumption

Total consumption by product and origin (tons)

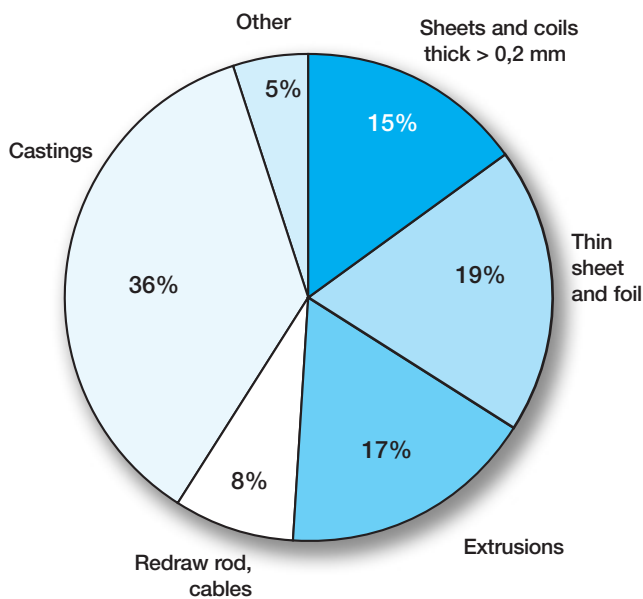
Year 2002

PRODUCT	LOCAL PRODUCED	IMPORTS	TOTAL
Sheets and coils thick > 0,2 mm	7.454	3.784(*)	11.238
Thin sheet and foil	8.186	6.505	14.691
Extrusions	11.346	1.601	12.947
Redraw rod, cables	5.550	828	6.378
Castings	25.482	780	26.262
Other	741	3.385	4.126
Total (**)	58.759	16.883	75.642
Share in %	77,7%	22,3 %	100,0 %

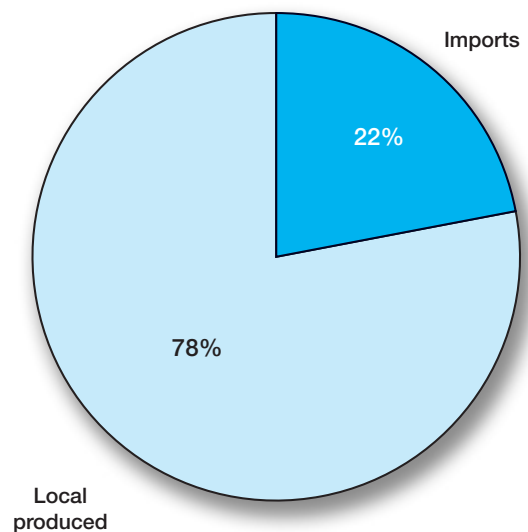
(*) Excludes 5420 tons of rolled products for soft drink and beer can production.

(**) The difference between total domestic market consumption on this page and domestic and per capita consumption is due to scrap recycling.

DOMESTIC CONSUMPTION BY PRODUCT



DOMESTIC CONSUMPTION BY ORIGIN





Domestic aluminium consumption

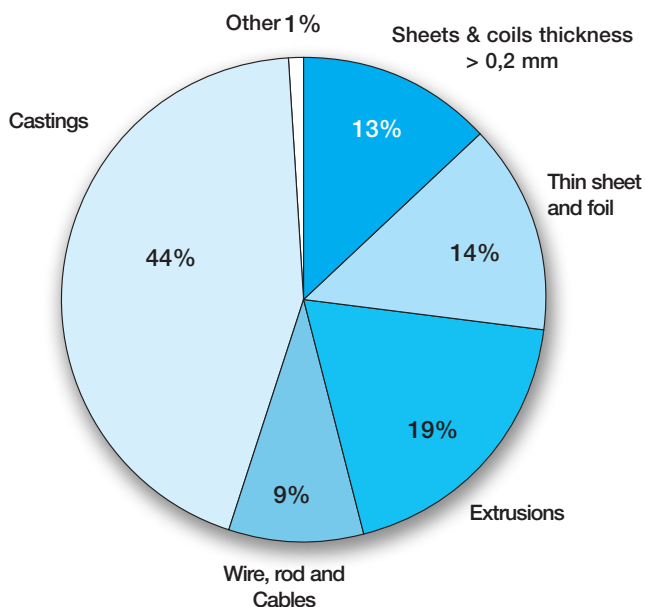
Locally produced aluminum consumption by product and origin
Year 2002

Unit: Tons

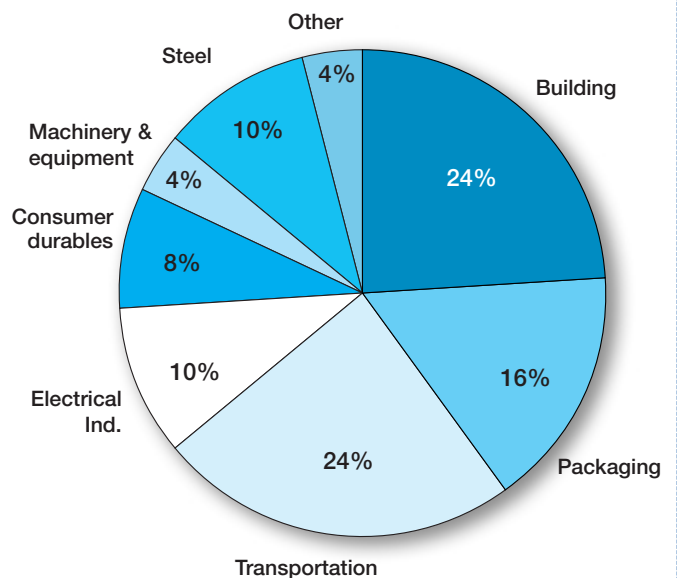
PRODUCT / SECTOR	Building	Packaging (*)	Transportation	Electrical Ind.	Consumer Durables	Machinery & Equipment	Steel	Other	TOTAL	Share %
Sheets & coils Thickness > 0,2 mm	397	3.427	471	19	1.969	847	-	324	7.454	12,7%
Thin sheet and foil	1.605	5.799	440	-	337	5	-	-	8.186	13,9%
Extrusions	7.445	-	397	417	820	1.471	-	796	11.346	19,3%
Wire, rod and Cables	-	-	-	5.029	-	-	504	17	5.550	9,4%
Castings	4.875	-	12.919	188	1.591	213	5.495	201	25.482	43,4%
Other	-	-	-	-	-	-	-	741	741	1,3%
TOTALS	14.322	9.226	14.227	5.653	4.717	2.536	5.999	2.079	58.759	100,0%
Share (%)	24,4%	15,7%	24,2%	9,6%	8,0%	4,3%	10,2%	3,5%	100,0%	

(*) Excludes soft drinks and beer cans.
Information supplied by aluminum products manufacturers.

DOMESTIC CONSUMPTION BY PRODUCT

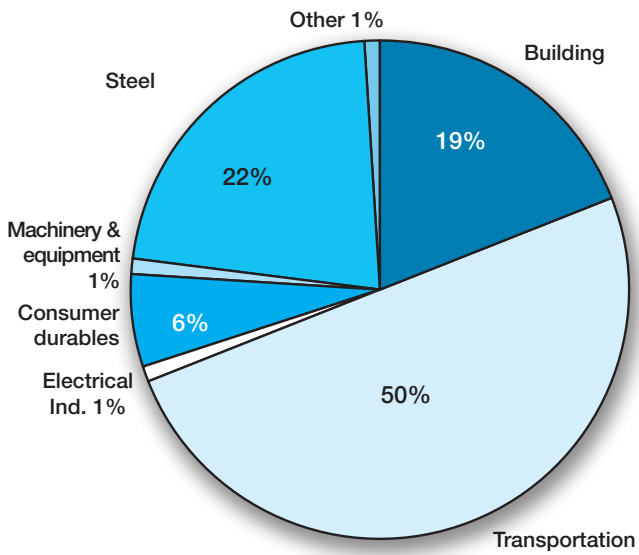


DOMESTIC CONSUMPTION BY SECTOR

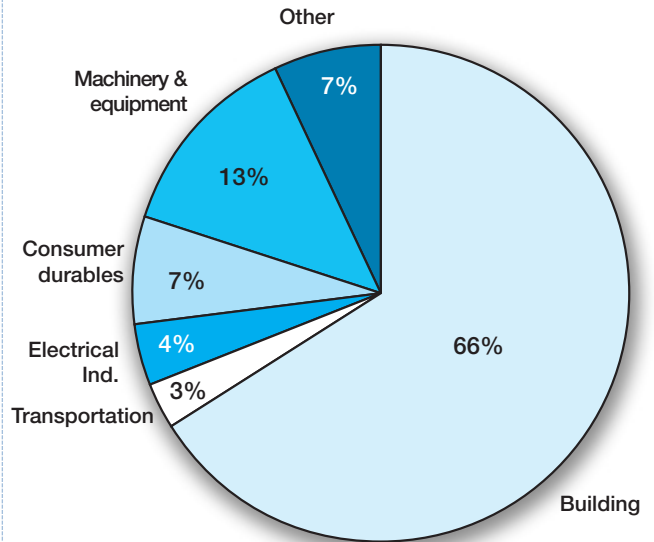




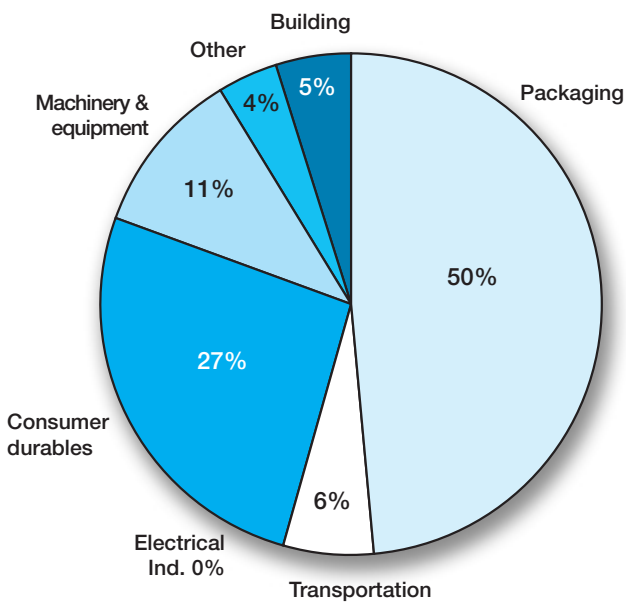
DOMESTIC CONSUMPTION OF CASTING PRODUCTS



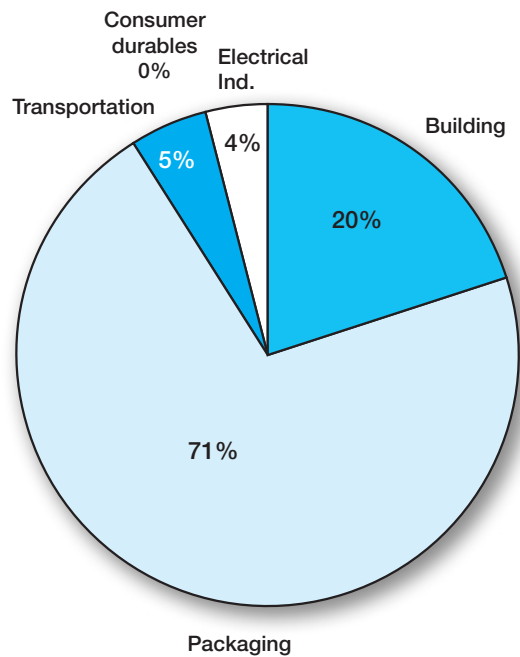
DOMESTIC CONSUMPTION OF EXTRUDED PRODUCTS



DOMESTIC CONSUMPTION OF SHEET & COILS THICKNESS > 0,2 MM



DOMESTIC CONSUMPTION OF SHEET & FOIL



Domestic aluminium consumption

Locally produced aluminum consumption by product and origin - Years 1998/2001

YEAR 2001

Unit: Tons

PRODUCT / SECTOR	Building	Packaging (*)	Transportation	Electrical Ind.	Consumer Durables	Machinery & Equipment	Steel	Other	TOTAL	Share %
Sheets & coils Thickness > 0,2 mm	414	3,666	698	11	1.907	388	-	30	7.114	11,5%
Thin sheet and foil	1.953	4,535	432	0	271	6	-	150	7.347	11,9%
Extrusions	14.795	-	337	422	1.041	2.368	-	541	19.504	31,6%
Wire, rod and Cables	-	-	-	5.550	-	-	411	86	6.047	9,8%
Castings	3.238	-	13.099	189	1.992	278	2.362	284	21.442	34,7%
Other	-	-	-	-	-	-	-	335	335	0,5%
TOTALS	20.400	8.201	14.566	6.172	5.211	3.040	2.773	1.426	61.789	100,0%
Share (%)	33,0%	13,0%	23,6%	10,0%	8,4%	4,9%	4,5%	2,3%	100,0%	

YEAR 2000

Unit: Tons

PRODUCT / SECTOR	Building	Packaging (*)	Transportation	Electrical Ind.	Consumer Durables	Machinery & Equipment	Steel	Other	TOTAL	Share %
Sheets & coils Thickness > 0,2 mm	549	4.269	772	35	2.362	810	-	203	9.000	11,9%
Thin sheet and foil	2.290	4.783	442	-	328	-	-	325	8.168	10,8%
Extrusions	14.729	-	461	584	3.463	1.785	-	1.627	22.649	30,0%
Wire, rod and Cables	-	-	-	6.018	-	-	-	-	6.018	8,0%
Castings	3.029	-	14.313	236	2.136	344	7.673	1.567	29.298	38,8%
Other	-	-	-	-	-	-	-	356	356	0,5%
TOTALS	20.597	9.052	15.988	6.873	8.289	2.939	7.673	4.078	75.489	100,0%
Share (%)	27,3%	12,0%	21,2%	9,1%	11,0%	3,9%	10,2%	5,4%	100,0%	

YEAR 1999

Unit: Tons

PRODUCT / SECTOR	Building	Packaging (*)	Transportation	Electrical Ind.	Consumer Durables	Machinery & Equipment	Steel	Other	TOTAL	Share %
Sheets & coils Thickness > 0,2 mm	516	3.449	298	97	3.081	1.052	-	498	8.991	12,5%
Thin sheet and foil	716	5.340	460	26	797	17	-	79	7.435	10,3%
Extrusions	16.445	-	715	597	3.124	1.718	-	1.863	24.462	34,0%
Wire, rod and Cables	-	-	-	8.308	-	-	-	20	8.328	11,6%
Castings	1.826	-	12.470	326	1.784	332	5.262	377	22.377	31,1%
Other	-	-	-	-	-	-	-	344	344	0,5%
TOTALS	19.503	8.789	13.943	9.354	8.786	3.119	5.262	3.181	71.937	100,0%
Share (%)	27,1%	12,2%	19,4%	13,0%	12,2%	4,3%	7,3%	4,4%	100,0%	

YEAR 1998

Unit: Tons

PRODUCT / SECTOR	Building	Packaging (*)	Transportation	Electrical Ind.	Consumer Durables	Machinery & Equipment	Steel	Other	TOTAL	Share %
Sheets & coils Thickness > 0,2 mm	1.329	4.499	366	254	3.877	767	-	187	11.279	13,0%
Thin sheet and foil	2.357	5.212	592	128	508	22	-	-	8.819	10,2%
Extrusions	19.344	-	1.811	1.087	2.336	1.223	-	1.670	27.471	31,6%
Wire, rod and Cables	-	-	-	13.811	-	-	600	600	15.011	17,3%
Castings	2.896	-	12.211	546	2.993	536	3.965	475	23.622	27,2%
Other	-	-	-	-	-	-	-	682	682	0,8%
TOTALS	25.926	9.711	14.980	15.826	9.714	2.548	4.565	3.614	86.884	100,0%
Share (%)	29,8%	11,2%	17,2%	18,2%	11,2%	2,9%	5,3%	4,2%	100,0%	



Domestic aluminum-sector evolution

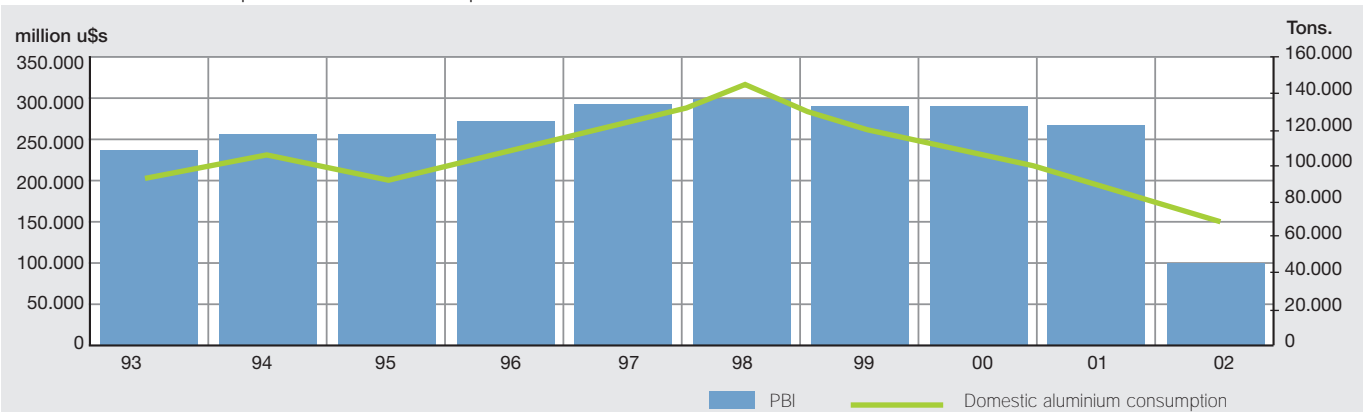
Main figures - Years 1993/2002

DESCRIPTION	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
1 Primary aluminum domestic consumption (tons.)	64.350	68.804	52.435	58.202	72.763	69.962	58.022	52.385	43.209	45.756
2 Total imports of Chapter 76 (tons.)	27.586	37.965	36.535	42.858	46.303	76.406	57.916	56.988	50.606	22.303
Domestic Aluminum consumption (tons.)	91.936	106.769	88.970	101.060	119.066	146.368	115.938	109.373	93.815	68.059
3 Population (Millions)	33,54	34,01	34,49	35,22	35,67	36,12	36,60	37,03	36,22 (*)	36,58
Per capita consumption (Kg./Year)	2,74	3,14	2,58	2,87	3,34	4,05	3,17	2,95	2,59	1,86
4 Gross domestic product (Million U\$S)	236.505	257.440	258.032	272.150	292.859	298.948	283.260	284.960	268.700	100.980
Gross domestic product per capita (U\$S/Year)	7.051	7.570	7.481	7.727	8.210	8.275	7.739	7.695	7.419	2.761
Consumption/Gross domestic product	0,39	0,41	0,34	0,37	0,41	0,49	0,41	0,38	0,35	0,67
5 Primary aluminum production (tons.)	170.600	173.300	183.100	183.910	183.724	185.140	204.600	263.744	245.052	268.806

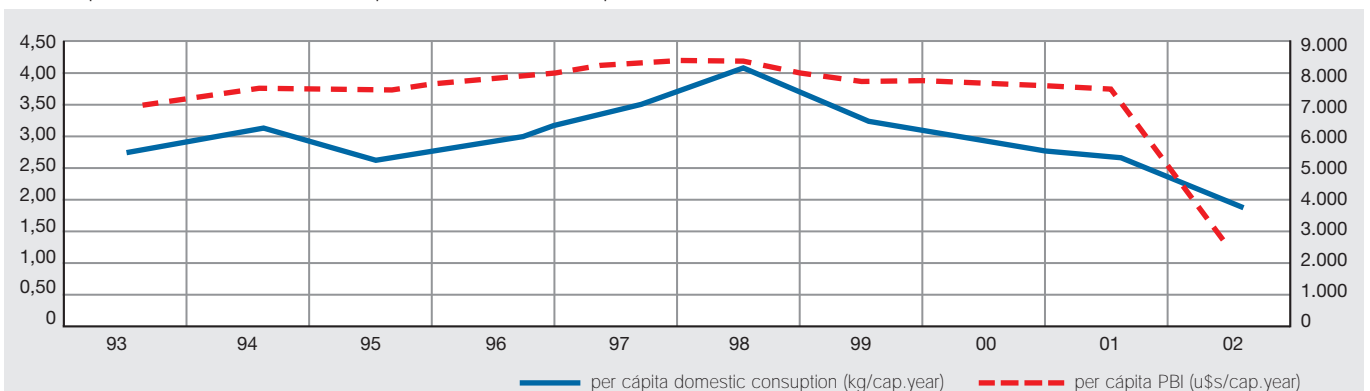
Sources: 1 y 5 Aluar / 2 y 3 INDEC (*) Provisional census 2001 / 4 Central Bank of Argentina.

Calculation Method: Per capita consumption has been calculated considering the primary aluminum domestic consumption plus Chapter 76 imports exclusively and taking into account the total population of our country. This calculation excludes inventory changes of primary and semifabricated products and scrap recycling. It also excludes imports of products like: automotive wheels, pistons and castings included in other chapters.

Domestic consumption vs. PBI comparison - Years 1993/2002



Per-capita domestic consumption vs. PBI comparison - Years 1993/2002



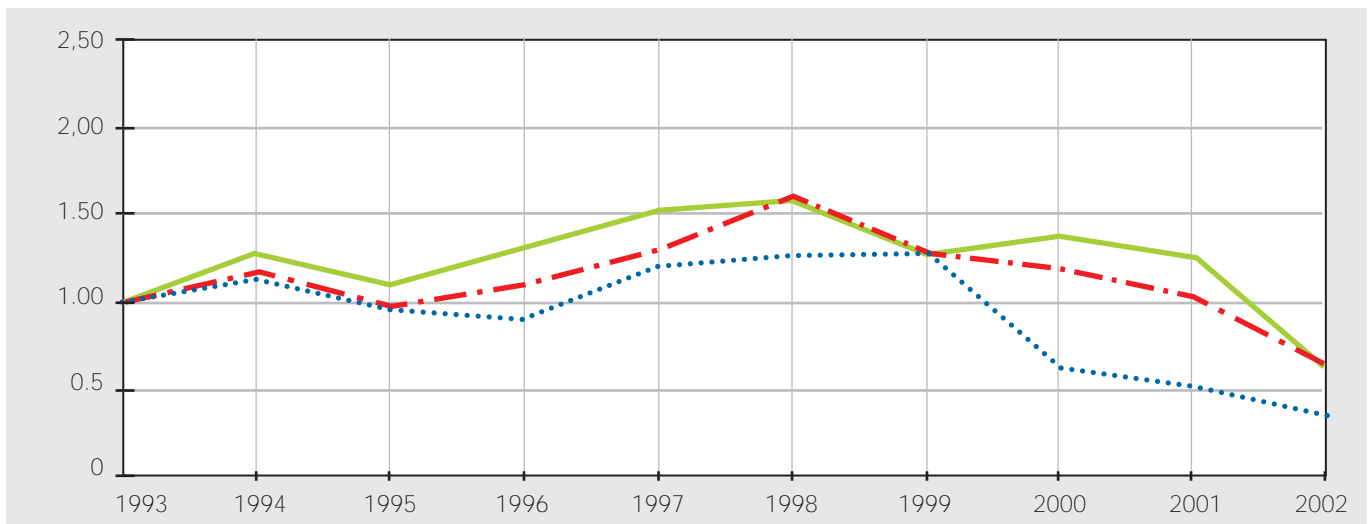


Domestic consumption vs. steel and cement consumption comparison

Years 1993/2002

DESCRIPTION	93	94	95	96	97	98	99	00	01	02
PORTLAND CEMENT (r)	5.571	6.217	5.329	5.005	6.668	6.993	7.067	3.379	2.844	1.972
STEEL	3.294	4.152	3.575	4.235	4.980	5.150	4.156	4.479	4.107	1.986
ALUMINIUM	91,9	106,6	89,0	101,0	119,0	146,4	115,9	109,4	93,8	58,8

(r) revisado / Units: Thousand tons / Source: 1- INDEC 2- Cámara del Aluminio



References:
 - - - Aluminium
 — Steel
 Portland Cement

year 1993 = base 1

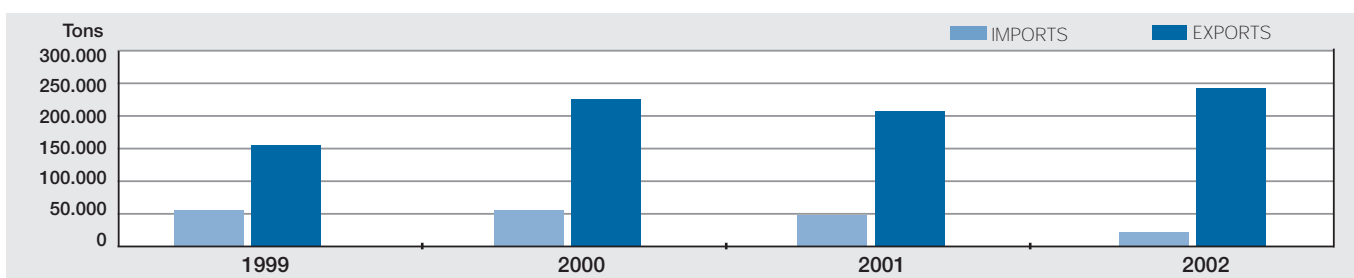
Foreign trade

Total Chapter 76 imports and exports - Years 1999/2002

Figures in tons.

HEADING	DESCRIPTION	IMPORTS				EXPORTS			
		99	00	01	02	99	00	01	02
7601	UNWROUGHT ALUMINUM								
7601.1	- NOT ALLOYED	2.154,8	922,1	217,8		47.038,0	44.570,2	69.119,5	64.004,7
7601.2	- ALUMINUM ALLOYS	2.193,7	1.710,4	2.302,4	623,9	76.558,4	143.288,8	113.412,6	136.514,5
7602	WASTE AND SCRAP		242,0	89,4		3.566,4	3.757,3	6.447,0	10.680,0
7603	POWDERS AND FLAKES	357,1	385,4	296,2	422,5	152,8	13,3	3,8	34,4
7604	BAR, RODS AND PROFILES								
7604.1	- OF ALUMINUM, NOT ALLOYED	81,1	70,9	122,7	29,0	28,4	5,7	21,3	137,2
7604.2	- OF ALUMINUM ALLOYS								
7604.21	- HOLLOW PROFILES	1.064,9		862,3	147,9	62,1	126,4	84,0	348,0
7604.29	- OTHER	1.098,2	2.533,5	952,3	140,5	609,3	375,6	208,9	875,2
7605	ALUMINUM WIRE								
7605.1	- OF ALUMINUM NOT ALLOYED	8.347,1	6.602,3	2.942,9	158,4	22.023,0	25.010,4	12.167,5	23.927,4
7605.21	- OF ALUMINUM ALLOYS	232,8	387,4	240,7	209,1	1.331,2	102,4	303,5	214,2
7605.29	- OTHER	189,5	849,1	803,5	40,6	723,3	91,5	10,6	1,0
7606	PLATES, SHEETS AND STRIP OF THICKNESS EXCEEDING 0,2 MM								
7606.1	- INCLUDING SQUARE								
7606.11	- OF ALUMINUM NOT ALLOYED	890,1	1.024,1	809,5	187,8	559,7	626,7	674,4	962,8
7606.12	- OF ALUMINUM ALLOYS	16.466,6	17.652,3	16.529,0	5.420,4	369,1	330,4	295,4	938,5
7606.9	- OTHER								
7606.91	- OF ALUMINUM NOT ALLOYED	2.749,2	303,1	151,6	27,8	10,6	4,0	15,7	3,8
7606.92	- OF ALUMINUM ALLOYS	48,9	222,0	88,1	54,9	2,0		4,0	38,9
7607	ALUMINUM FOIL								
7607.11	- NOT LAMINATED	8.000,0	8.269,3	7.148,3	4.582,7	3.080,7	4.091,7	3.868,8	2.752,3
7607.19	- OTHER	280,8	308,1	336,3	205,6	95,8	155,5	114,0	28,4
7607.20	- LAMINATED	3.244,6	3.855,1	3.483,3	1.716,2	213,0	319,5	368,1	363,8
7608	TUBES AND PIPES								
7608.1	- OF ALUMINUM NOT ALLOYED	215,2	148,5	85,3	91,5	25,3	1,2	3,0	0,1
7608.2	- OF ALUMINUM ALLOYS	446,2	499,2	619,0	362,4	0,0	25,8	725,6	107,0
7609	TUBE OR PIPE FITTINGS	140,0	179,6	161,6	156,1	17,0	6,9	189,1	317,9
7610	STRUCTURES AND PARTS OF STRUCTURES								
7610.1	- DOORS, WINDOWS AND THEIR FRAMES AND THRESHOLDS FOR DOORS	142,9	114,6	104,4	7,4	0,0	17,5	21,5	35,9
7610.9	- OTHER	1.834,9	1.607,6	1.152,4	822,3	38,1	70,2	70,7	145,6
7611	RESERVOIRS, TANKS, VATS AND SIMILAR CONTAINERS OF A CAPACITY EXCEEDING 300 LITERS	443,4	1,6	16,6	1,3	0,0	0,3		6,0
7612	TANKS, DRUMS, CANS, BOXES AND SIMILAR CONTAINERS OF A CAPACITY NOT EXCEEDING 300 LITERS								
7612.1	- COLLAPSIBLE TUBULAR CONTAINERS	144,1	166,4	167,9	49,6	4,9	7,6	45,1	47,6
7612.9	- OTHER	1.406,6	1.420,9	1.915,4	581,7	708,4	2.358,2	2.610,6	1.728,8
7613	CONTAINERS FOR COMPRESSED OR LIQUIFIED GAS	50,9	35,1	49,0	6,1	1,1	3,1	0,6	2,1
7614	- STRANDED WIRE, CABLES, ETC. NOT ELECTICALLY INSULATED								
7614.1	- WITH STEEL CORE	1.882,8	612,1	2.027,4		496,0	0,8	0,1	318,5
7614.9	- OTHER	34,4	26,0	23,4	420,0	541,8	3,0	158,5	271,5
7615	TABLE, KITCHEN OR OTHER HOUSEHOLD ARTICLES	1.868,6	2.520,5	2.449,8	2.449,8	251,6	216,9	179,6	159,6
				424,4					
7616	OTHER ARTICLES OF ALUMINUM	1.886,3	4.318,6	4.457,6	2.962,8	305,1	459,0	387,7	559,9
	TOTAL	57.896	56.987,8	50.606	22.303	158.813	226.039,9	211.511,2	245.525,6

Source: INDEC



Foreign trade

Mercosur's Chapter 76 imports and exports - Year 2002

Figures in tons.

HEADING	DESCRIPTION	IMPORTS			EXPORTS		
		Brasil	Paraguay	Uruguay	Brasil	Paraguay	Uruguay
7601	UNWROUGHT ALUMINUM						
7601.1	- NOT ALLOYED				7.980,5		
7601.2	- ALUMINUM ALLOYS	534,5		23,8	1.224,3		35,3
7602	WASTE AND SCRAP				2.682,3	744,7	32,0
7603	POWDERS AND FLAKES	71,9			0,2		10,0
7604	BARs, RODS AND PROFILES						
7604.1	- OF ALUMINUM, NOT ALLOYED	1,3			24,1	3,6	0,6
7604.2	- OF ALUMINUM ALLOYS						
7604.21	- HOLLOW PROFILES	95,9		10,3	268,0		20,0
7604.29	- OTHER	37,2		9,5	574,8	0,3	7,1
7605	ALUMINUM WIRE						
7605.1	- OF ALUMINUM, NOT ALLOYED	124,1		26,2	298,2		
7605.21	- OF ALUMINUM ALLOYS	181,9					22,0
7605.29	- OTHER						50,0
7606	PLATES, SHEETS AND STRIP OF THICKNESS EXCEEDING 0,2 MM						
7606.1	- INCLUDING SQUARE						
7606.11	- OF ALUMINUM, NOT ALLOYED	69,8		4,3	363,8	9,2	21,9
7606.12	- OF ALUMINUM ALLOYS	2.499,2		13,4	48,2	18,1	18,6
7606.9	- OTHER						
7606.91	- OF ALUMINUM NOT ALLOYED	23,9			0,1		3,6
7606.92	- OF ALUMINUM ALLOYS	1,4			2,5		20,7
7607	ALUMINUM FOIL						
7607.11	- NOT LAMINATED	1.987,5		0,5	1.064,7	38,9	22,3
7607.19	- OTHER	54,0		5,8	4,5	18,7	1,1
7607.20	- LAMINATED	907,4		50,6	66,5	13,2	6,0
7608	TUBES AND PIPES						
7608.1	- OF ALUMINUM, NOT ALLOYED	70,8					
7608.2	- OF ALUMINUM ALLOYS	158,1			1,2	0,6	0,1
7609	TUBES OR PIPES FITTINGS	8,7		0,5	50,3	0,1	3,3
7610	CONSTRUCCIONES Y SUS PARTES						
7610.1	- DOORS, WINDOWS AND THERE FRAMES AND THERHOLDS FOR DOORS				4,1	2,1	2,2
7610.9	- OTHERS	0,1			2,2	0,5	10,2
7611	RESERVOIS TANKS, VATS AND SIMILAR CONAINERS OF CAPACITY EXCEEDING 300 LITERS						
7612	TANKS, DRUMS, CANS, BOXES AND SIMILAR CONTAINERS OF A CAPACITY NOT EXCEEDING 300 LITRES						
7612.1	- COLLAPSIBLE TUBULAR CONTAINERS	76,5		0,4	21,6	0,9	1,3
7612.9	- OTHER	492,2		0,1	618,0	639,8	33,1
7613	CONTAINERS FOR COMPRESSED OR LIQUIFIED GAS				0,4	0,2	0,6
7614	STRANDED WIRE, CABLES, ETC. NOT ELECTICALLY INSULATED						
7614.1	- WITH STEEL CORE				267,9		30,5
7614.9	- OTHER	136,3			226,3		0,8
7615	TABLE, KITCHEN OR OTHER HOUSEHOLD ARTICLES	108,9		7,2	14,5	17,4	29,8
7616	OTHER ARTICLES OF ALUMINUM	2.177,8		0,6	10,7	28,8	103,9
	TOTAL	9.819,4	0,0	153,2	15.819,9	1.537,1	487,0

Source: INDEC

Foreign trade

Aluminum - sector influence in local foreign trade

Years 2000/2002

Global commercial trade

YEARS	EXPORTS			IMPORTS			BALANCE		
	2000	2001	2002	2000	2001	2002	2000	2001	2002
TOTAL ARGENTINE TRADE	26.409,4	26.665,0	25.709,0	25.242,9	20.311	8.990	1,166.5	6,354.0	16,719.0
ALUMINIUM INDUSTRY (2)	397.9	348.3	368.6	191.2	172.3	66.0	206.7	176.0	302.6
SHARE	1.5%	1.3%	1.4%	0.8%	0.8%	0.7%			

Source: INDEC

(1) Exports: U\$S FOB, Imports: U\$S CIF.

(2) Chapter 76 exclusively.

Unit: million U\$S (1)

Mercosur's commercial trade

YEARS	BRASIL			PARAGUAY			URUGUAY			TOTAL MERCOSUR		
	2000	2001	2002	2000	2001	2002	2000	2001	2002	2000	2001	2002
TOTAL EXPORTS	6,991.3	6,205.6	4,827.8	592.2	498.8	340.9	818.3	743.6	526.9	818.3	743.6	526.9
EXPORTS CHAPTER 76	18.1	21.2	28.1	3.9	4.9	3.9	3.9	3.1	2.1	3.9	3.1	2.1
SHARE %	0.3%	0.3%	0.6%	0.7%	1.0%	1.1%	0.5%	0.4%	0.4%	0.5%	0.4%	0.4%
TOTAL IMPORTS	6,478.5	5,277.8	2,517.5	294.8	302.8	255.4	426.1	329.0	122.4	426.1	329.0	122.4
IMPORTS CHAPTER 76	91.9	86.8	27.9	0.2	0.0	0.0	4.5	3.7	0.5	4.5	3.7	0.5
SHARE %	1.4%	1.6%	1.1%	0.1%	0.0%	0.0%	1.1%	1.1%	0.4%	1.1%	1.1%	0.4%

Source: INDEC

(1) Exports: U\$S FOB, Imports: U\$S CIF.

(2) Chapter 76 exclusively.

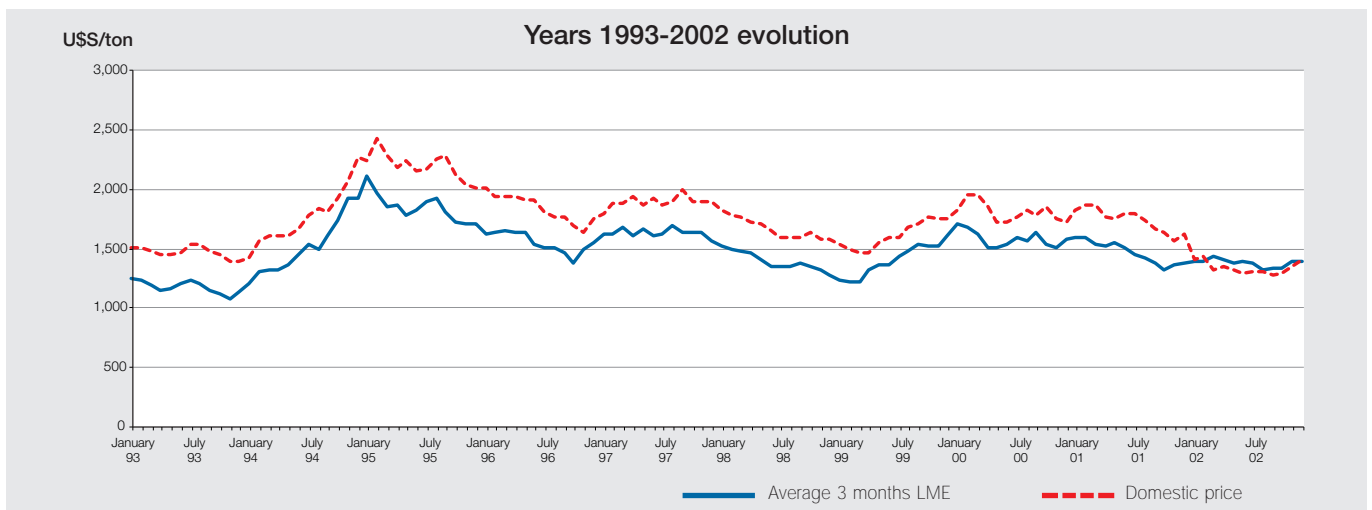
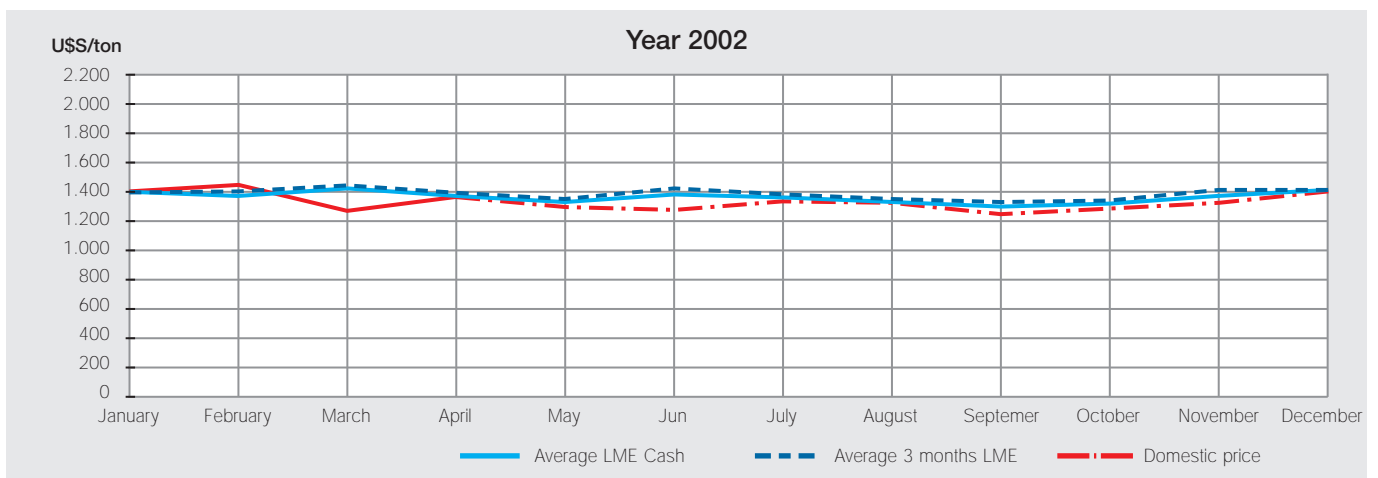
Unit: million U\$S (1)



Primary-aluminum price evolution

MONTHS 2002	AVERAGE LME CASH	AVERAGE 3 MONTHS LME	DOMESTIC PRICE
	US\$ / ton	US\$ / ton	US\$ / ton
JANUARY	1.369	1.383	1.393
FEBRUARY	1.369	1.380	1.417
MARCH	1.405	1.421	1.300
APRIL	1.370	1.391	1.335
MAY	1.343	1.365	1.300
JUN	1.354	1.375	1.275
JULY	1.338	1.358	1.298
AUGUST	1.292	1.311	1.298
SEPTEMBER	1.301	1.318	1.263
OCTOBER	1.311	1.318	1.283
NOVEMBER	1.372	1.380	1.334
DECEMBER	1.375	1.378	1.396

Source: Average LME cash and 3 months: Metal Bulletin / Primary aluminum: ALUAR 99,50 lingot price list: FOB Puerto Madryn.





Aluminum beverage-can sector

Main figures

CONSUMPTION AND PRODUCTION

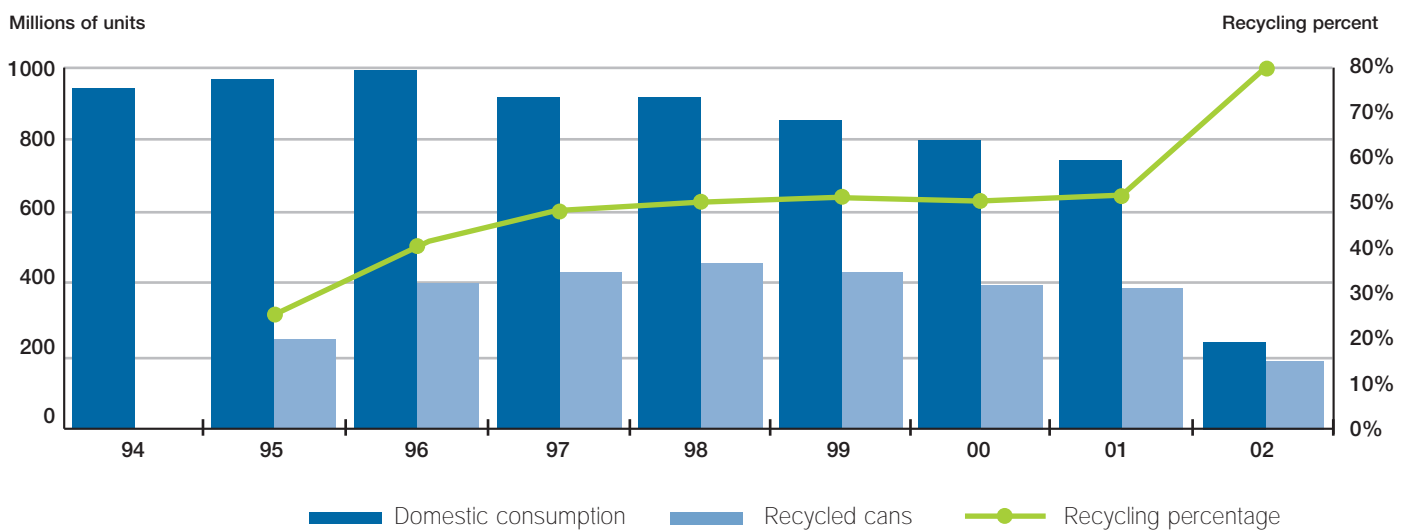
YEARS	94	95	96	97	98	99	00	01	02
DOMESTIC CONSUMPTION (*)	950	978	994	916	924	864	797	750	245
PRODUCTION CAPACITY	450	600	1.450	1.450	1.450	1.450	1.450	1.200	1.200

(*) Includes imports
 Figures are in millions of units.

RECYCLING RATE

YEARS	94	95	96	97	98	99	00	01	02
RECYCLED CANS	-	242	407	437	463	440	400	390	190
RECYCLING PERCENTAGE	-	25%	41%	48%	50%	51%	50%	52%	78%

Figures are in millions of units
 Source: Aluplata - Latasa Argentina S.A. - Cadibsa





CAIAMA's Key Staff

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V.P. 2	Lic. Jorge García Arias <i>Aluar División Elaborados</i>	PRESS, PROPAGANDA AND MEANS OF COMMUNICATION Sr. Julio Morano
V.P. 3	Dr. Vito Pezzi <i>Exal Argentina S.A.</i>	LABOR AFFAIRS Sr. Alfredo Lurati
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PROSECRETARY	Lic. Héctor Cañete <i>Hydro Aluminio Aldural</i>	SCIENCE, TECHNOLOGY AND TRAINING Ing. Moises Glassel
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SUBSTITUTE INTERNAL AUDITORS	Sr. Omar A. Rodriguez <i>Alumak S.A.</i> Sr. José M. Caudarella <i>Aluoest S.A.C.I.F.I.A.</i>	PRODUCT DEVELOPMENT ADVISOR Lic. Marcelo Maffei
		ACCOUNTANT ADVISOR Dra. Alejandra Patti
		LAW ADVISOR Dr. Alfredo Luis Herrera Dr. Eduardo Zamorano
		FOREIGN PUBLICATIONS COORDINATOR Ing. Mauricio Gurski



Glossary

ADOPTED TERMINOLOGY

PROCESS	PRODUCTS	SECTOR
Includes the following fabrication processes: <ul style="list-style-type: none"> · Casting · Extrusion · Rolling · Redraw Rod and cables · Other 	Includes the following products: <ul style="list-style-type: none"> · Ingots · Sheets · Coils · Circles · Foil · Shapes · Bars · Wires · Other 	Includes the end use of products: <ul style="list-style-type: none"> · Building and Construction · Packaging · Transportation · Electrical Industry · Consumer Durables · Machinery and Equipment · Steelworks

ADOPTED CRITERIA FOR CLASSIFICATION

	ROLLED PRODUCTS	EXTRUDED PRODUCTS	CASTING PRODUCTS
BUILDING AND CONSTRUCTION	Ceiling coils; roofing sheet; siding and architectural sheets; tread plate; asphalt/aluminum roof coating; composite panel.	Shapes for window and doors, architectural uses, ceilings and signs.	Aluminized sheets; cast heating radiators.
PACKAGING	Bare and laminated foil for food and cigarette packaging, etc.; slugs for aerosols and collapsible tubes; soft drink, beer and juice cans; bottle tops and can lids.		
TRANSPORTATION	Tank truck sheet; automotive body sheet; coils for automotive heaters and radiators; traffic signs; brazing sheet.	Radiator tubes; door and window shapes for buses; structural shapes. Truck floor extrusions.	Car wheels; engine pistons; cast pieces for car motors; aluminized sheet.
ELECTRICAL INDUSTRY	Transformer sheet; condenser foil; lighting fixture sheet; laminated aluminum foil for telephone cables.	Electric motor housings; bus bars; electronic heat sinks. Lighting extrusions	Cables made from continuous cast redraw rod; cast pieces for electrical industry.
CONSUMER DURABLES	Refrigerator and home appliances sheet. Cookware; rigid foil containers; household foil; parabolic TV antennas; shoe eyelets; brazing sheet.	TV antennas; refrigerator tubes; sailboat masts; bicycle and furniture tubes; ladders; shapes for refrigerated exhibitors.	Cast aluminum tables and chairs; cast cookware. Decoration pieces
MACHINERY AND EQUIPMENT	Coils for irrigation tubing; industrial heat exchanger coil; storage tank sheet; insulation foil; fish and bakery trays.	Irrigation tubing; shapes for industrial applications.	Cast pieces for industrial machinery; cast molds.
STEELWORKS			Different products for steel deoxidation.
OTHER		Screw machine stock; rivet tubes.	Welding wire; powder for paint and explosives and chemical products. Other products not included elsewhere.



Associated branches

THE ASSOCIATED MEMBERS OF CAIAMA ARE JOINED UP IN THE FOLLOWING BRANCHES:

WINDOWS AND DOORS ACCESORIES

RELATED PRODUCTS

CABLE MANUFACTURERS

TRAINING

DOORS AND WINDOWS MANUFACTURERS

CURTAIN WALL MANUFACTURERS

TRADERS

FOIL CONVERTERS

PACKAGING

WINDOWS AND DOORS EQUIPMENTS

EXTRUSION

CASTINGS MANUFACTURERS

ROLLED PRODUCTS

COOKWARE MANUFACTURERS

METAL PRODUCERS

FINISHING (PAINTING AND ANODIZING)

REFINERS

SERVICES

CLOSURES

TRANSPORT