Composite Materials

Quebec Industry Directory
1993
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1993

Quebec Region
COMPOSITE MATERIALS
QUEBEC INDUSTRY DIRECTORY 1993

Advanced Industrial Materials Sector
Industry, Science and Technology Canada
Quebec Region
PREFACE

The interest in advanced composites has gained considerable momentum over the past few years. This increased attention is a direct result of more and more potential users recognizing the advantages of incorporating advanced composites into the design of new products or the redesign of existing products.

Industry, Science and Technology Canada, Quebec region, has prepared this directory to assist the development and use of these new technologies. The scope of this directory is limited to companies and organizations based in Quebec and active in the field of polymer, metal, carbon and ceramic composites.

We hope that this directory will be helpful in bringing together developers, designers, manufacturers and users of advanced composites to collaborate in the development of this segment of Quebec and Canadian industry.

The information contained in this directory is based on responses to a survey and telephone interviews. While every effort was made to cover all activities taking place in Quebec, there may be some omissions or errors. We would be grateful if any such inaccuracies were brought to the attention of ISTC to ensure that the information is included in future issues.

Please address your comments to:

Francine Roy, Sector Manager
Advanced Industrial Materials Sector
Industry, Science and Technology Canada
800 Place Victoria
Suite 3800
P.O. Box 247
Montréal, Québec
H4Z 1E8

Telephone: (514) 283-3667

ISTC thanks all those who assisted in the preparation of this directory.
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A.C. PLASTIQUES CANADA INC.

1395, Montée Chénier
Les Cèdres, Québec
J0P 1L0

President: Pierre Pontbriand
Technical Director: Eric Tremblay

Telephone: (514) 455-3311
Fax: (514) 452-2037

Founded in 1967

COMPANY SIZE
Sales revenue: $1,000,000 $5,000,000
Number of employees: 8 (6 engineers)

PRODUCTS
Tanks, piping, ventilation shafts

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, cut filaments of different lengths, mat of continuous filaments, mat of cut filaments, mat surface, twill and unidirectionnel ribbon, twill fabric, unidirectional fabric, net surface

MANUFACTURING PROCESSES
Filament winding, manual contact molding, contact molding by projection

MARKET
Corrosion

QUALITY STANDARD
Z 299

R&D ACTIVITIES
Yes
ACM COMPOSITES INC.

1130, Rocheleau
Drummondville, Québec
J2C 6Y5

President: Rémi Lussier
Technical Director: Marcel Jean

Téléphone: (819) 474-6917
Télécopieur: (819) 474-6919

Founded in 1987

COMPANY SIZE
Sales revenue: $1,000,000 $5,000,000
Number of employees: 15 (2 engineers)

PRODUCTS
Compression and injection molded parts (thermoset compounds)

MATRIX
Polymer

REINFORCING MATERIALS
Wood fiber, carbon fiber, kevlar fiber, fiberglass, Spectra fiber

FORMS OF REINFORCING MATERIALS
Continuous filament roving, mat of cut filaments, mat surface, twill and unidirectional ribbons, twill fabrics, unidirectional fabrics

TYPE OF PREPREGS
Molding compound BMC, molding compound with short fibers, molding compound with continuous fibre HMC, molding compound with continuous fibre TMC, continuous roving prepreg, sheet molding compound SMC, woven prepreg

MANUFACTURING PROCESSES
Molding under high pressure, molding under low pressure, compression, transfert, injection

MARKETS
Specialty vehicles, appliances, construction, energy, industrial equipment, military, sports and recreation

QUALITY STANDARDS
Z 299, AQAP #4

R&D ACTIVITES
Yes
**ACRYLI-PLASTIQUE J. R. INC.**

- **118, St-Pierre**
- **P.O. Box 280**
- **Lyster, Québec**
- **G0S 1V0**

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<tr>
<th><strong>President:</strong></th>
<th><strong>Technical Director:</strong></th>
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<tr>
<td>Julienne Daigle</td>
<td>Roger Simoneau</td>
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**Telephone:** (819) 389-5818

**Fax:** (819) 389-5785

**Founded in 1986**

**COMPANY SIZE**

- **Sales revenue:** $1 000 000 $5 000 000
- **Number of employees:** 15

**PRODUCTS**

- Acrylic bathtubs and showers

**MATRIX**

- Polymer

**REINFORCING MATERIAL**

- Fiberglass

**FORM OF REINFORCING MATERIALS**

- Mat of cut filaments

**TYPE OF PREPREG**

- Woven prepreg

**MANUFACTURING PROCESS**

- Resin transfer molding RTM

**MARKET**

- Construction

**QUALITY STANDARD**

- ACNOR B45
AMPRO INDUSTRIES

231, de Lotbinière
P.O. Box 67
Dorion, Québec
J7V 8P2

President: Lawrence Herscovici

Telephone: (514) 455-6183
Fax: (514) 455-9004

Founded in 1982

COMPANY SIZE
Sales revenue: up to $1,000,000
Number of employees: 17

PRODUCTS
Fishing and sail boats, shower stalls (sectional and one-piece), bath tubs, balconies, septic tanks

MATRIX
Polymer

REINFORCING MATERIALS
Kevlar fiber, fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, mat of continuous filaments, unidirectional fabric

TYPE OF PREPREG
Continuous roving prepreg

MANUFACTURING PROCESSES
Manual contact molding, contact molding by projection

MARKETS
Railroad, specialty vehicles, construction, industrial equipment, sports and recreation

R&D ACTIVITIES
Yes
ARMTEX FIBRES INC.

1675, boul. Industriel
Magog, Québec
J1X 5B3

President: Robert Roy
Technical Director: Julien Michaud

Telephone: (819) 843-4236
Fax: (819) 847-1275
Founded in 1980

COMPANY SIZE
Sales revenue: $1 000 000 $5 000 000
Number of employees: 25 (1 engineer)

PRODUCTS
Technical fabric division: Glass web and roving, hybrid web and roving out of fiberglass, carbon, kevlar and other high performance fibers

Laminated composites division: Epoxy resin reinforced with fiberglass, carbon, kevlar and other high performance fibers, flat rolled with cellulose, plastic, metal

MATRIX
Polymer

REINFORCING MATERIALS
Carbon fiber, kevlar fiber, Spectra fiber, fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, cut filaments of different lengths, mat of cut filaments, twill and unidirectional ribbon, biaxial fabric, twill fabric, unidirectional fabric, cloth, net surface

MANUFACTURING PROCESSES
Molding under low pressure, pultrusion, continuous molding under pressure

MARKETS
Automobile, marine, construction, corrosion, sports and recreation

QUALITY STANDARDS
Z 299, ASTM

R&D ACTIVITIES
Yes
AVCORP INDUSTRIES INC.

840, rue Vadnais
Granby, Québec
J2J 1A7

President: Mike E. Artus

Telephone: (514) 378-8439
Fax: (514) 378-8699

Founded in 1952

COMPANY SIZE
Sales revenue: $1 000 000  5 000 000
Number of employees: 45

PRODUCTS
Airplane parts, sandwich structures

MATRIX
Carbon, polymer

REINFORCING MATERIALS
Carbon fiber, kevlar fiber, fiberglass, honeycomb core, foam core

FORMS OF REINFORCING MATERIALS
Cut filament of different lengths, mat of continuous filaments, mat surface, unidirectional fabric, cloth

TYPE OF PREPREGS
Continuous roving prepreg, woven prepreg

MANUFACTURING PROCESSES
Autoclave curing, vacuum molding, manual contact molding, contact molding by projection, molding under low pressure

MARKETS
Aeronautical, aerospace, railroad, corrosion

QUALITY STANDARD
AQAP #4

R&D ACTIVITIES
Yes
AWARD PLASTIQUE & CAOUTCHOUC

4850, rue St-Ambroise
Bureau 112
Montréal, Québec
H4C 3N8

Telephone: (514) 939-1577
Fax: (514) 939-3937

President: Michel Kaine
Technical Director: Leonard Shara

Founded in 1968

COMPANY SIZE
Sales revenue: $1 000 000 $5 000 000
Number of employees: 13 (3 engineers)

PRODUCTS
Various rubber and plastic products

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORM OF REINFORCING MATERIALS
Twill and unidirectionnel ribbon

TYPE OF PREPREG
Molding compound BMC

MANUFACTURING PROCESS
Autoclave curing

MARKETS
Aeronautical, aerospace, automobile, marine, construction, corrosion, energy, industrial equipment, military

QUALITY STANDARD
AQAP #9

R&D ACTIVITIES
Yes
BAINS ULTRA INC

1200 chemin Industriel
Bernières, Québec
G7A 1B1

Telephone: (418) 831-7701
Fax: (418) 831-6623

President: Pierre Brunelle
Technical Director: Stéfane Poulin

Founded in 1980

COMPANY SIZE
Sales revenue: $1 000 000 $5 000 000
Number of employees: 31

PRODUCTS
Bathtubs and showers

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, mat of continuous filaments, mat of cut filaments, mat surface, twill fabric, cloth

MANUFACTURING PROCESSES
Contact molding by projection, thermoforming (acrylic)

MARKETS
Construction, medical, sanitary

QUALITY STANDARDS
ISO 9000, ASTM

R&D ACTIVITIES
Yes
BATEAUX ST-MAURICE BOATS

2013, rue Garnier (RR2) President: Marcel Paris
Shawinigan, Québec Technical Director: Mark Paris
G9N 6T6 Founded in 1950

Telephone: (819) 537-0037
Fax: (819) 536-5862

PRODUCT
Watercrafts

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, mat of continuous filaments, mat of cut filaments, mat surface, twill fabric

MANUFACTURING PROCESSES
Manual contact molding, contact molding by projection

MARKETS
Sports and recreation

COMPANY SIZE
Sales revenue: $1 000 000 $5 000 000
Number of employees: 15
BAULTER COMPOSITES D'INGÉNIERIE INC.
Division de Baulter Inc.

425, 9ième Avenue
P.O. Box 1879
Richmond, Québec
J0B 2H0

Telephone: (819) 826-6525
Fax: (819) 826-2292

President: Bruno Archambault
Technical Director: Normand Labonté

Founded in 1984

COMPANY SIZE
Sales revenue: $1 000 000 $5 000 000
Number of employees: 23 (1 engineer)

PRODUCT
Floor coating

MATRIX
Polymer

REINFORCING MATERIALS
Wood fiber, fiberglass

FORMS OF REINFORCING MATERIALS
Felts, continuous filament roving, mat of continuous filaments, mat of cut filaments, mat surface, twill fabric, net surface

MANUFACTURING PROCESSES
Manual contact molding, pultrusion

MARKETS
Aeronautical, marine, railroad, specialty vehicles, construction, corrosion, medical, mining

QUALITY STANDARDS
Z 299.3, AQAP #4

R&D ACTIVITIES
Yes
BEAUCHE FIBRE DE VERRE

1036, rue Principale
Ste-Clotilde (Beauce), Québec
G0N 1C0

President: Fernand Bernard
Technical Director: Christian Bernard

Telephone: (418) 427-2622
Fax: (418) 427-3278

Founded in 1965

COMPANY SIZE
Sales revenue: $5 000 000 $10 000 000
Number of employees: 139 (2 engineers)

PRODUCTS
Public transport parts

MATRIX
Polymer

REINFORCING MATERIALS
Wood fiber, fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, cut filaments of different lengths, mat of continuous filaments, mat of cut filaments, mat surface, unidirectional fabric, cloth, net surface

MANUFACTURING PROCESSES
Manual contact molding, contact molding by projection, molding under low pressure

MARKETS
Automobile, railroad, specialty vehicles, corrosion, military, sports and recreation

QUALITY STANDARD
Z 299

R&D ACTIVITIES
Yes
BECKWITH-BEMIS INC.

1145, rue Bélanger
Sherbrooke, Québec
J1K 2B1

President: R.F. Jenne
Technical Director: Dwight Martin

Telephone: (819) 346-5231
Fax: (819) 822-0576

Founded in 1917

COMPANY SIZE
Sales revenue: $5 000 000 $10 000 000
Number of employees: 48 (1 engineer)

PRODUCTS
Coated fabrics: PVC (vinyl), Polyuréthane (P.V.), Surlyn, Hot melts, expanded, solid, clear

MATRIX
Polymer

REINFORCING MATERIALS
Fiberglass, polyester, nylon

FORM OF REINFORCING MATERIALS
Felts, twill fabrics, unidirectional fabrics, cloth, net surface, paper, cardboard

MANUFACTURING PROCESSES
Extrusion, Plastisol, Reverse Roll

MARKETS
Automobile, marine, railroad, specialty vehicles, industrial equipment, medical, mining, military, sports and recreation, clothing and textiles, footwear, furniture

QUALITY STANDARD
Z 299

R&D ACTIVITIES
Yes
BELL HELICOPTER TEXTRON
Division de Textron Canada Ltée

12 800, rue de l'Avenir
Mirabel, Québec
J0N 1L0

President: Tommy Thomason
Technical Director: René Deland

Telephone: (514) 437-3400
Fax: (514) 437-6010

Founded in 1984

COMPANY SIZE
Sales revenue: $50 000 000
Number of employees: 1130 (100 engineers)

PRODUCT
Helicopter models 206 B & L, 212/412, 230

MATRIX
Carbon, metal, polymer

REINFORCING MATERIALS
Carbon fiber, fiberglass

FORM OF REINFORCING MATERIALS
Unidirectional fabric

TYPE OF PREPREG
Woven prepreg

MANUFACTURING PROCESSES
Autoclave curing, vacuum molding, manual contact molding

MARKET
Aeronautical

QUALITY STANDARD
MIL-STD

R&D ACTIVITIES
Yes
BOBINE NATIONALE ÉLECTRIQUE LTÉE

450, rue St-Michel
P.O. Box 248
St-Jean-sur-Richelieu, Québec
J3B 6Z4

President: Denis Pelletier
Technical Director: Denis Pelletier

Telephone: (514) 348-3845
Fax: (514) 348-2565

Founded in 1959

COMPANY SIZE
Sales revenue: $5 000 000 $10 000 000
Number of employees: 59 (2 engineers)

PRODUCTS
All sizes of insulated copper wire. Reels for high and low voltage motors and generators. Repairing locomotive traction motors and generators (high and low voltage)

MATRIX
Polymer

REINFORCING MATERIALS
Fiberglass, mica tape

FORM OF REINFORCING MATERIALS
Continuous filament roving, mat surface, twill and unidirectionnel ribbon

TYPE OF PREPREG
Woven prepreg

MANUFACTURING PROCESSES
Filament winding, molding under high pressure

MARKET
Industrial equipment

QUALITY STANDARD
Z 299
BOMBARDIER
Division Sea-Doo/Ski-Doo

1, rue de la Montagne
Valcourt, Québec
J0E 2L0

President: Jean Simon
Technical Director: Gilles Paul

Telephone: (514) 532-2211
Fax: (514) 532-5039

Founded in 1967

COMPANY SIZE
Sales revenue: $50 000 000
Number of employees: 471 (12 engineers)

PRODUCTS
Seadoos, skidoos

MATRIX
Polymer

REINFORCING MATERIALS
Fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, mat of cut filaments, twill fabric

TYPE OF PREPREG
Sheet molding compound SMC

MANUFACTURING PROCESSES
Contact moulding by projection, moulding under high pressure

MARKET
Recreational products

QUALITY STANDARD
Z 299, ASTM, in-house standards

R&D ACTIVITIES
Yes
CADORETTE MARINE CO.

1991, 3e Avenue
P.O. Box 727
Grand-Mère, Québec
G9T 5L4

President: Denis Lacerte
Technical Director: André Hamel

Telephone: (819) 538-0781
Fax: (819) 538-6330
Founded in 1955

COMPANY SIZE
Sales revenue: $10 000 000 $20 000 000
Number of employees: 119

PRODUCTS
Boats

MATRIX
Polymer

REINFORCING MATERIALS
Wood fiber, fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, mat of cut filaments, biaxial fabric, twill fabric, cloth

MANUFACTURING PROCESSES
Manual contact molding, contact molding by projection

MARKETS
Marine, sports and recreation

QUALITY STANDARD
In-house

R&D ACTIVITIES
Yes
CAMOPLAST INC.
Division Roski

130, rue de l'Eglise
Roxton-Falls, Québec
J0H 1E0

General Director: Jean-Paul Groulx
Technical Director: Bertrand Legault

Telephone: (514) 548-5821
Fax: (514) 548-5803

Founded in 1982

COMPANY SIZE
Sales revenue: $10,000,000 $20,000,000
Number of employees: 270 (2 engineers)

PRODUCTS
Snowmobile cabs, bodies and shells, truck parts (hood), automobile components, painting photocopier parts

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, cut filaments of different lengths, mat of continuous filaments, mat of cut filaments, mat surface, twill and unidirectionnel ribbon, twill fabric, unidirectional fabric, cloth, net surface

MANUFACTURING PROCESSES
Manual contact molding, contact molding by projection, resin transfer molding RTM, moulding under high pressure

MARKETS
Automobile, sports and recreation, trucks

QUALITY STANDARD
Z 299

R&D ACTIVITIES
Yes
CANADA FIBRES DONNITE INC.

250, Goulin
P.O. Box 1218
Richmond, Québec
J0B 2H0

President: Pierre Beaupré
Technical Director: Luc Beaupré

Telephone: (819) 826-5921
Fax: (819) 826-5203

Founded in 1985

COMPANY SIZE
Sales revenue: $1,000,000
Number of employees: 40 (1 engineer)

PRODUCTS
Industrial components

MATRIX
Polymer

REINFORCING MATERIALS
Wood fiber, metal and inorganic fiber, fiberglass

FORM OF REINFORCING MATERIAL
Cut filaments of different lengths

TYPE OF PREPREG
Sheet molding compound (SMC)

MANUFACTURING PROCESSES
Vacuum molding, reaction injection molding (RIM), reinforced reaction injection molding (RRIM), molding under high pressure

MARKETS
Aeronautical, aerospace, automobile, marine, railroad, specialty vehicles, agriculture, energy, industrial equipment, mining, military, sports and recreation

QUALITY STANDARDS
Z 299, AQAP #4

R&D ACTIVITIES
Yes
CANSTAR SPORTS GROUP. INC.

1200, boul. International
St-Jérôme, Québec
J7Z 5T5

President: Gérald Wasserman
Technical Director: René Bourque

Telephone: (514) 436-2292
Fax: (514) 436-7214

Founded in 1979

COMPANY SIZE
Sales revenue: $150 000 000
Number of employees: 1214 (3 engineers)

PRODUCTS
Sports equipment

MATRIX
Polymer

REINFORCING MATERIALS
Wood fiber, spectra fiber

MANUFACTURING PROCESS
Molding under high pressure

MARKETS
Sports and recreation

QUALITY STANDARDS
ASTM, CSA

R&D ACTIVITIES
Yes
CAOUTCHOUC ACTON LTÉÉ

P.O. Box 300
881, Landry
Acton Vale, Québec
J0H 1A0

President: François Gagné
Technical Director: Francois Soucy

Telephone: (514) 546-2776
Fax: (514) 546-3735

Founded in 1930

COMPANY SIZE
Sales revenue: $20 000 000 $50 000 000
Number of employees: 360 (3 engineers)

PRODUCTS
Daoust skates. Rubber and plastic boots and overshoes for commercial, industrial, military and specialized use. Custom mixing, calendering, extrusion, molded products

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

MANUFACTURING PROCESS
Autoclave curing, resin transfer molding RTM, molding under low pressure

MARKETS
Automobile, specialty vehicles, construction, industrial equipment, military, sports and recreation, clothing and textiles

QUALITY STANDARDS
ISO 9000, ASTM, AQAP #4

R&D ACTIVITIES
Yes
CDM CADORMAT INC.

51, rue Moise Cadorette
St-Jean-des-Piles, Québec
GOX 2V0

President: Gilles Houde
Technical Director: Richard Garceau

Telephone: (819) 538-0888
Fax: (819) 539-7051

Founded in 1986

COMPANY SIZE
Sales revenue: up to $1 000 000
Number of employees: 4

PRODUCTS
Canoes and various boats standard or custom

MATRIX
Polymer

REINFORCING MATERIALS
Kevlar fiber, fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, mat of continuous filaments

MANUFACTURING PROCESS
Manual contact molding

MARKETS
Marine, sports and recreation

QUALITY STANDARD
ISO 9000

R&D ACTIVITIES
Yes
CENTRE ORTHÈSES-PROTHÈSES DE LA MAURICIE

708, rue Thibeau
Cap-de-la-Madeleine, Québec
G8T 7A3

Telephone: (819) 375-2855
Fax: (819) 375-2855

President: Kevin McKenzie

Founded in 1974

COMPANY SIZE
Sales revenue: up to $1,000,000
Number of employees: 6

PRODUCTS
Orthopedic appliances, prosthesis and orthotic braces

MATRIX
Polymer

REINFORCING MATERIALS
Carbon fiber, kevlar fiber, fiberglass

FORMS OF REINFORCING MATERIALS
Cut filament of different lengths, mat of continuous filaments, cloth

TYPES OF PREPREG
Sheet molding compound SMC, woven prepreg

MANUFACTURING PROCESSES
Vacuum molding, manual contact molding

MARKET
Orthopedic

QUALITY STANDARD
In-house standards
CERTEL COMPOSITES INC.

7370, rue Vérité
St-Laurent, Québec
H4S 1C5

President: Paul-André Ouimet
Technical Director: Paul-André Ouimet

Telephone: (514) 332-3510
Fax: (514) 335-2895

Founded in 1978

COMPANY SIZE
Sales revenue: $1,000,000 $5,000,000
Number of employees: 22 (2 engineers)

PRODUCTS
Sub-contract: reinforced plastics, filament winding, manual contact molding, anti-wear coating, ceramic

MATRIX
Polymer

REINFORCING MATERIALS
Carbon fiber, fiberglass, Alumina: Al2O3, Silicon carbide: SiC

FORM OF REINFORCING MATERIALS
Continuous filament roving, mat of continuous filaments, mat of cut filaments, mat surface, twill and unidirectional ribbon, biaxial fabric, twill fabric, unidirectional fabric, net surface

MANUFACTURING PROCESS
Filament winding, vacuum molding, manual contact molding, contact molding by projection

MARKETS
Corrosion, energy, industrial equipment, forest, mining, handling

QUALITY STANDARDS
Z 299, ASTM

R&D ACTIVITIES
Yes
LA COMPAGNIE IDÉAL BODY INC.

225, Avenue St-Sacrement
Québec, Québec
G1N 3X8

President: Rita G. Larochelle
Technical Director: Paul Larochelle

Telephone: (418) 687-4040
Fax: (418) 687-1111

Founded in 1947

COMPANY SIZE
Sales revenue: $1,000,000 $5,000,000
Number of employees: 42 (1 engineer)

PRODUCTS
Truck boxes

MATRIX
Polymer

REINFORCING MATERIALS
Fiberglass

FORM OF REINFORCING MATERIALS
Continuous filament roving

TYPE OF PREPREG
Continuous roving prepreg

MANUFACTURING PROCESS
Contact molding by projection

MARKETS
Automobile, specialty vehicles, agriculture, construction, corrosion, industrial equipment, forest, medical, military

QUALITY STANDARD
ASTM

R&D ACTIVITIES
Yes
COMPAGNIE RÉSENTEL INC.

1825, Ave Industrielle
Marieville, Québec
JOL 1J0

President: Clément Lussier

Telephone: (514) 658-2483
Fax: (514) 460-7549

Founded in 1971

COMPANY SIZE
Sales revenue: $5 000 000 $10 000 000
Number of employees: 40

PRODUCTS
Bicycle parts, luggage sets, industrial parts

MATRIX
Polymer

REINFORCING MATERIALS
Fiberglass

TYPE OF PREPREG
Molding compound made with short fibres

MANUFACTURING PROCESS
Molding under high pressure

MARKETS
Sports and recreation

QUALITY STANDARD
ISO 9000

R&D ACTIVITIES
Yes
CPF DUALAM LTÉE

11 250, JJ Joubert
Montréal, Québec
H1E 7E7

President: Pierre Habib
Technical Director: Paul Habib

Telephone: (514) 643-3085
Fax: (514) 643-3087

Founded in 1957

COMPANY SIZE
Sales revenue: $1 000 000
Number of employees: 32

PRODUCTS
Tanks and pressurized tanks for industrial processes, industrial piping

MATRIX
Polymer

REINFORCING MATERIALS
Carbon fiber, fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, mat of cut filaments, mat surface, twill and unidrectionnel ribbon, twill fabric, unidirectional fabric, net surface

MANUFACTURING PROCESSES
Filament winding, vacuum molding, manual contact molding, molding under low pressure

MARKETS
Corrosion, electronics, industrial equipment, forest, chemical process industry

QUALITY STANDARDS
ASTM 3299, 4097, to specifications

R&D ACTIVITIES
Yes
DÉCOFIBRE

391A, 3e Rang Nord
Iberville, Québec
J2X 4J1

President: Guillermo Sanchez
Technical Director: Guillermo Sanchez

Telephone: (514) 346-7525
Fax: (514) 359-4431

Founded in 1989

COMPANY SIZE
Sales revenue: up to $1,000,000
Number of employees: 2

PRODUCTS
Furniture, ornamentation

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORM OF REINFORCING MATERIALS
Continuous filament roving

TYPE OF PREPREG
Continuous roving prepreg

MANUFACTURING PROCESS
Filament winding

MARKETS
Sports and recreation, pet industry

R&D ACTIVITIES
Yes
DURALCAN CANADA
Division of Alcan Aluminium Ltd
Usine Dubuc

2040, Chemin de la Réserve
Chicoutimi, Québec
G7H 5B3

President: François Ameye
Technical Director: Dr. René Crescent

Founded in 1988

COMPANY SIZE
Sales revenue: $1,000,000 $5,000,000
Number of employees: 22 (4 engineers)

PRODUCTS
Ingots

MATRIX
Metal

REINFORCING MATERIALS
SiC and Al2O3 Powder

FORM OF REINFORCING MATERIALS
Bulk powder

MANUFACTURING PROCESS
Duralcan

MARKETS
Aerospace, automobile, industrial equipment, military, sports and recreation

QUALITY STANDARDS
Iso 9002

R&D ACTIVITIES
Yes
ENERLAB INC.

1285, Gaylussac
Boucherville, Québec
J4B 7K1

President: Armand Langlois

Telephone: (514) 449-6679
(800) 561-8686

Fax: (514) 449-6760

Founded in 1982

COMPANY SIZE
Sales revenue: up to $1 000 000
Number of employees: 7

PRODUCTS
Phenolic resins, polyurethane resins, molded parts

MATRIX
Polymer

MANUFACTURING PROCESSES
Injection and projection molding

MARKETS
Aeronautical, aerospace, automobile, marine, railroad, construction, mining, military

QUALITY STANDARDS
ISO 9000, Factory mutual, LL LC

R&D ACTIVITIES
Yes
ENTREPRISES DE PLASTIQUE M.G.

148835 CANADA Inc.
354, boul. Industriel
St-Eustache, Québec
J7R 5R4

President: Michel St-Cyr
Technical Director: Daniel St-Cyr

Telephone: (514) 472-8090
Fax: (514) 472-8094

Founded in 1976

COMPANY SIZE
Sales revenue: up to $1 000 000
Number of employees: 8

PRODUCTS
Canoes, Industrial parts

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, mat of continuous filaments, mat of cut filaments, mat surface

MANUFACTURING PROCESS
Manual contact molding

MARKETS
Automobile, construction, industrial equipment

QUALITY STANDARDS
ASTM, in-house

R&D ACTIVITIES
Yes
ENVIRO-FIBRE INC.

358 - 22e Avenue
La Guadeloupe (Beauce) Québec
G0M 1G0

President: Robert Poulin
Technical Director: Claude Grenier

Telephone: (418) 459-6111
Fax: (418) 459-6470

Founded in 1989

COMPANY SIZE
Sales revenue: up to $1,000,000
Number of employees: 10 (1 engineer)

PRODUCTS
Recovery container and shelter, automobile parts

MATRIX
Polymer

REINFORCING MATERIALS
Metal and inorganic fiber, fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, cut filament of different lengths, mat of continuous filaments, mat surface, twill and unidirectionnel ribbon, twill fabric, cloth, net surface

MANUFACTURING PROCESS
Manual contact molding, contact molding by projection

MARKETS
Automobile, industrial equipment, waste management, environment

R&D ACTIVITIES
Yes
FIB FAB LTÉE

456, Rang Brodeur
St-Eugène, Québec
J0C 1J0

Telephone: (819) 396-2825
Fax: (819) 396-3238

President: Jules Fafard
Technical Director: Jacques Corbell

Founded in 1984

COMPANY SIZE
Sales revenue: $50 000 000
Number of employees: 8 (1 engineer)

PRODUCTS
Truck boxes, wood drying kiln

MATRIX
Polymer

REINFORCING MATERIALS
Wood fiber, kevlar fiber, fiberglass

FORM OF REINFORCING MATERIALS
Continuous filament roving, mat surface, twill and unidirectional ribbon, biaxial fabric, twill fabric, unidirectional fabric, cloth, net surface

MANUFACTURING PROCESS
Manual contact molding

MARKETS
Automobile, forest, various sub-contracting

QUALITY STANDARDS
ISO 9000

R&D ACTIVITIES
Yes
FIBRES DE VERRE BELLEFEUILLE LTÉE

597, boul. de Martigny
Bellefeuille, Québec
J0R 1A0

President: Marcel St-Louis

Telephone: (514) 436-1165
Fax: (514) 438-2797

Founded in 1969

COMPANY SIZE
Sales revenue: up to $1 000 000
Number of employees: 3

PRODUCTS
Custom industrial parts, pedal boats, seadoos, balconies and repairs

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORMS OF REINFORCING MATERIALS
Mat surface, twill fabric, unidirectional fabric, cloth, net surface

MANUFACTURING PROCESS
Manual contact molding

MARKETS
Specialty vehicles, construction, corrosion, industrial equipment, sports and recreation
FIBRES DE VERRE CRORAK (1987)

2530, 95ième rue
St-Georges de Beauce, Québec
G5Y 5C9

President: Louis Dionne
Technical Director: Luc Thibaudeau

Telephone: (418) 228-1983
Fax: (418) 228-2759

Founded in 1973

COMPANY SIZE
Sales revenue: $1 000 000
$5 000 000
Number of employees: 20 (1 engineer)

PRODUCTS
Air deflectors, aquaculture basins, truck boxes architectural parts, furniture

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, cut filament of different lengths, mat of continuous filaments, mat of cut filaments, mat surface, twill and unidirectional ribbon, biaxial fabric, twill fabric, unidirectional fabric, cloth, net surface

MANUFACTURING PROCESSES
Manual contact molding, contact molding by projection, molding under low pressure

MARKETS
Marine, railroad, specialty vehicles, agriculture, construction, electronics, industrial equipment, forest, sports and recreation, aquaculture

QUALITY STANDARDS
Z 299, ACNOR

R&D ACTIVITIES
Yes
FIBRE DE VERRE ET POLYÉTHURANE PSP

329B, Principale
Lachute, Québec
J8H 2Z7

President: Frédérick Perreault
Technical Director: René Petit

Telephone: (514) 562-1477
Fax: (514) 562-3193
Founded in 1988

COMPANY SIZE
Sales revenue: up to $1 000 000
Number of employees: 6

PRODUCT
Industrial parts

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORMS OF REINFORCING MATERIALS
Mat surface, twill fabric, cloth, net surface

MANUFACTURING PROCESSES
Manual contact molding, contact molding by projection, molding under low pressure

MARKETS
Marine, corrosion, sports and recreation

QUALITY STANDARDS
Internal control
FIBRES DE VERRE JEAN-MARC INC.

1010, Becancourt
Lyster, Québec
G0S 1V0

Telephone: (819) 389-5319
Fax: (819) 389-5740

President: Jean-Marc Simoneau
Technical Director: Jean-Marc Simoneau

Founded in 1983

COMPANY SIZE
Sales revenue: up to $1 000 000
Number of employees: 9

PRODUCTS
Moulds and repairs of fiberglass composite products

MATRIX
Polymer

REINFORCING MATERIALS
Fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, mat of continuous filaments, mat of cut filaments

MANUFACTURING PROCESS
Manual contact molding

MARKET
Construction
FIBRE DE VERRE MODERNE INC.

333, rue St-Albert
Tring Jonction, Québec
G0N 1X0

President: Placide Poulin
Technical Director: Richard Garneau

Telephone: (418) 426-2666
Fax: (418) 426-3268

Founded in 1969

COMPANY SIZE
Sales revenue: $10 000 000 $20 000 000
Number of employees: 89

PRODUCTS
Bathtubs and showers, transport parts, industrial parts

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, mat of cut filaments

MANUFACTURING PROCESS
Contact molding by projection

MARKET
Construction

QUALITY STANDARDS
AQAP, CSA

R&D ACTIVITIES
Yes
FIBRE DE VERRE NITERAM INC.

641, route 161
Ham-Nord, Québec
G0P 1A0

President: Charles Brulotte

Telephone: (819) 344-2924
Fax: (819) 344-2191

Founded in 1985

COMPANY SIZE
Sales revenue: $5 000 000 $10 000 000
Number of employees: 15

PRODUCTS
Automobile parts, truck boxes, boats, canoes, basins

MATRIX
Polymer

REINFORCING MATERIALS
Wood fiber, metal and inorganic fiber, fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, cut filaments of different lengths, mat surface, unidirectional fabric, net surface

MANUFACTURING PROCESSES
Manual contact molding, contact molding by projection, molding under low pressure

MARKETS
Transport, sports and recreation, sub-contracting
FIBRE DE VERRE PERFECTION ENR.

1675, Rang Papineau
St-Paul d'Abbotsford, Québec
J0E 1A0

President: Denis Lessard

Telephone: (514) 379-5276
Fax: (514) 379-9851

Founded in 1980

COMPANY SIZE
Sales revenue: up to $1,000,000
Number of employees: 6

PRODUCTS
Silo covers. Bulk water dispensers. Various types of covering

MATRIX
Polymer

REINFORCING MATERIALS
Wood fiber, fiberglass

FORMS OF REINFORCING MATERIALS
Mat of cut filaments, mat surface, biaxial fabric, net surface

MANUFACTURING PROCESSES
Vacuum molding, manual contact molding

MARKETS
Agriculture, construction, corrosion, industrial equipment, sports and recreation

R&D ACTIVITIES
Yes
LES FIBRES DE VERRE RIOUX 1990 INC.

10, Rang 4 Ouest
Ste-Françoise, Québec
G0L 3B0

President: Valier Rioux

Telephone: (418) 851-1240
Fax: (418) 851-4962

Founded in 1983

COMPANY SIZE
Sales revenue: up to $1,000,000
Number of employees: 10

PRODUCTS
Patio and balcony floors, stairways, trays, pools, trailers and custom-moulded parts

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, cut filaments of different lengths, mat of continuous filament, mat of cut filaments, mat surface, twill and unidirectional ribbon, biaxial fabric, twill fabric, unidirectional fabric, cloth, net surface

MANUFACTURING PROCESS
Manual contact molding

MARKETS
Automobile, specialty vehicles, construction, corrosion, medical, pisciculture

QUALITY STANDARDS
ISO 9000, AQAP

R&D ACTIVITIES
Yes
FIBRE DE VERRE SHERBROOKE INC.

6583, rue Tellier
Rock-Forest, Québec
J1N 3B1

President: Roger Gagnon
Technical Director: Réal Gagnon

Founded in 1983

Telephone: (819) 864-4885
Fax: (819) 864-9445

COMPANY SIZE
Sales revenue: up to $1,000,000
Number of employees: 10

PRODUCTS
Balconies, staircase

MATRIX
Polymer

REINFORCING MATERIALS
Fiberglass, wood

FORM OF REINFORCING MATERIALS
Mat of cut filaments

MANUFACTURING PROCESS
Manual contact molding

MARKET
Construction
FIBRE MAURICIE LTÉE

P.O. Box 675
Cap-de-la-Madeleine, Québec
G8T 8Y6

President: Josef Bühler
Technical Director: Josef Bühler
Founded in 1983

COMPANY SIZE
Sales revenue: $1 000 000 $5 000 000
Number of employees: 19

PRODUCTS
Pipes, tanks, basins, ventilation shafts, tank and basin roofs, custom covers for equipment mentioned

MATRIX
Polymer

REINFORCING MATERIALS
Fiberglass, wood

FORM OF REINFORCING MATERIALS
Continuous filament roving, mat of continuous filament, mat of cut filaments, mat surface, twill and unidirectionnel ribbon, biaxial fabric, unidirectional fabric, cloth, net surface

MANUFACTURING PROCESSES
Manual contact molding, contact molding by projection

MARKETS
Corrosion, industrial equipment, forest, clothing and textiles
LES FIBRES P.& R. INC.

1475, rue de l'Industrie
Beloell, Québec
J3G 4S5

President: Paul Maranda

Telephone: (514) 464-6084
Fax: (514) 464-8305

Founded in 1985

COMPANY SIZE
Sales revenue: up to $1 000 000
Number of employees: 6

PRODUCTS
Balconies and fiberglass parts, sliding platforms for light trucks

MATRIX
Polymer

REINFORCING MATERIALS
Wood fiber, fiberglass

FORMS OF REINFORCING MATERIALS
Mat of continuous filament, mat of cut filaments, mat surface

TYPE OF PREPREG
Molding compound BMC, continuous roving prepreg

MANUFACTURING PROCESS
Manual contact molding

MARKETS
Automobile, construction
FIBRES PRESTIGES

P.O. Box 160
Lyster, Québec
G0S 1V0

President: Gilles Fillion
Technical Director: Patrice Mercier

Telephone: (819) 389-5802
Fax: (819) 389-5749

Founded in 1981

COMPANY SIZE
Sales revenue: up to $1 000 000
Number of employees: 8

PRODUCT
Truck boxes

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORM OF REINFORCING MATERIALS
Mat of cut filaments

MANUFACTURING PROCESS
Manual contact molding

MARKETS
Automobile, agriculture, forest
FIBREX FIBRE DE VERRE INC.

325, rue Léveillé
Terrebonne, Québec
J6W 1Z6

President: Denis Boisvert

Telephone: (514) 471-3057
Fax: (514) 471-6100

Founded in 1968

COMPANY SIZE
Sales revenue: $5 000 000 $10 000 000
Number of employees: 10 (3 engineers)

PRODUCTS
Composite molded parts for trucks, mass transit and sub-contracting

MATRIX
Polymer

REINFORCING MATERIALS
Fiberglass, kevlar, carbon

FORMS OF REINFORCING MATERIALS
Biaxial fabric, unidirectional fabric, cloth, continuous filament roving, cut filament of different lengths, felt, mat of continuous filaments, mat of cut filaments, mat surface, net surface, twill and unidirectional ribbon, twill fabric

MANUFACTURING PROCESSES
Filament winding, vacuum molding, contact molding, robotized molding by projection, resin transfer molding RTM, molding under low pressure

MARKETS
Marine, railroad, construction, industrial equipment, sports and recreation

QUALITY STANDARDS
ISO 9000, Z299, ASTM

R&D ACTIVITIES
Yes
FIBROBEC INC.

219, rue St-Georges
Beloeil, Quebec
J3G 4N4

President: Robert Thibault

Telephone: (514) 464-4777
Fax: (514) 467-1890

Founded in 1978

COMPANY SIZE
Sales revenue: $5 000 000 $10 000 000
Number of employees: 120

PRODUCTS
Fibrobec brand pick-up truck boxes (Fibrobec Vision, Spektrum)

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, cut filaments of different lengths, mat of continuous filament, mat of cut filaments, mat surface, twill fabric, net surface

MANUFACTURING PROCESSES
Manual contact molding, contact molding by projection, resin transfer molding RTM

MARKET
Automobile

QUALITY STANDARD
Z 299

R&D ACTIVITIES
Yes
FORBO-ARBORITE INC

385, Avenue Lafleur
Lasalle, Québec
H8R 3H7

President: Guy Bérard
Technical Director: Dr. Karim Rafizadeh

Telephone: (514) 366-2710
Fax: (514) 363-0903

COMPANY SIZE
Sales revenue: $20 000 000  $50 000 000
Number of employees: 150 (3 engineers)

PRODUCTS
High pressure decorative laminate or plastic laminate

MATRIX
Polymer

REINFORCING MATERIALS
Decorative papers and krafts

FORM OF REINFORCING MATERIALS
Mat of cut filaments

TYPE OF PREPREG
Papers impregnated with thermoset resins

MANUFACTURING PROCESS
Molding under high pressure

MARKETS
Marine, railroad, specialty vehicles, construction, sports and recreation

QUALITY STANDARDS
ISO 9000, ASTM, CSA

R&D ACTIVITIES
Yes
FORMICA CANADA INC.

25, rue Mercier
P.O. Box 430
St-Jean, Québec
J3B 6Y8

President: Jean-Pierre Clément
Technical Director: Daniel Racette

Telephone: (514) 347-7541
Fax: (514) 347-5065

Founded in 1951

COMPANY SIZE
Sales revenue: $20 000 000 $50 000 000
Number of employees: 270 (3 engineers)

PRODUCTS
Laminates low pressure melamine panels

MATRIX
Polymer

REINFORCING MATERIALS
Wood fiber, kraft paper

FORM OF REINFORCING MATERIALS
Paper or wood fiber particle board sheets

TYPE OF PREPREGS
Impregnated Kraft and decorative papers

MANUFACTURING PROCESSES
Molding under low pressure, molding under high pressure

MARKETS
Marine, railroad, construction, industrial equipment, medical, military, furniture

QUALITY STANDARD
Acnor

R&D ACTIVITIES
Yes
FOSTER & BROCHU INC.

66, Route 153
P.O. Box 251
Grand-Mère, Québec
G9T 5K8

President: Lionel Brochu

Telephone: (819) 538-9811
Fax: (819) 538-1396

Founded in 1963

COMPANY SIZE
Sales revenue: up to $1,000,000
Number of employees: 11

PRODUCTS
Benches, tool boxes for trucks, canoes, rowboats, material handling

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORMS OF REINFORCING MATERIALS
Mat of continuous filament, mat of cut filaments, cloth

TYPE OF PREPREG
Woven prepreg

MANUFACTURING PROCESS
Manual contact molding

MARKETS
Corrosion, sports and recreation

QUALITY STANDARD
Z 299

R&D ACTIVITIES
Yes
FRE COMPOSITES INC.

64, Wales Street
Saint-André Est, Québec
J0V 1X0

President: T.W. Sutherland
Technical Director: B. Legrand

Telephone: (514) 537-3311
Fax: (514) 537-8257

Founded in 1988

COMPANY SIZE
Sales revenue: $10 000 000 $20 000 000
Number of employees: 115 (23 engineers)

PRODUCTS
Pipes for electric and telecommunications lines, rocket bodies, rocket doors, arms boom, honeycomb panels, missile launching tubes

MATRIX
Carbon, polymer

REINFORCING MATERIALS
Carbon fiber, ceramic fiber, kevlar fiber, Spectra fiber, fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, mat of continuous filament, mat surface, twill and unidirectional ribbon, biaxial fabric, twill fabric, unidirectional fabric

TYPE OF PREPREGS
Continuous roving prepreg, woven prepreg

MANUFACTURING PROCESSES
Filament winding, autoclave curing, vacuum molding, manual contact molding, resin transfer molding, RTM, pultrusion

MARKETS
Aeronautical, aerospace, railroad, industrial equipment, military, electric, communications

QUALITY STANDARDS

R&D ACTIVITIES
Yes
GARLOCK DU CANADA LTÉE

4100, rue Garlock
Sherbrooke, Québec
J1K 2X1

President: Gilles A. Vallée
Technical Director: André Roy

Telephone: (819) 563-9840
Fax: (819) 563-5620

Founded in 1975

COMPANY SIZE
Sales revenue: $5,000,000 $10,000,000
Number of employees: 48 (2 engineers)

PRODUCTS
Industrial threads and fabrics

REINFORCING MATERIALS
Asbestos fiber, carbon fiber, ceramic fiber, kevlar fiber, metal and inorganic fiber, fiberglass, PBI, Nomex, Kynol

FORMS OF REINFORCING MATERIALS
Felts, continuous filament roving, twill and unidirectionnel ribbon, biaxial fabric, twill fabric, laminates, friction materials, insulation

TYPES OF PREPREG
Continuous roving prepreg, woven prepreg, acrylic coating, teflon coating

MARKETS
Aeronautical, aerospace, automobile, marine, railroad, construction, industrial equipment, mining, military, clothing and textiles

QUALITY STANDARD
ISO 9002

R&D ACTIVITIES
Yes
G.R. FIBRE DE VERRE

118, rue St-Pierre
P.O. Box 280
Lyster, Québec
G0S 1V0

President: Roger Simoneau
Technical Director: Roger Simoneau

Telephone: (819) 389-5516
Fax: (819) 389-5785

Founded in 1980

COMPANY SIZE
Sales revenue: up to $1 000 000
Number of employees: 19 (1 engineer)

PRODUCTS
Bathtubs and showers

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORM OF REINFORCING MATERIALS
Mat of cut filaments

TYPE OF PREPREG
Woven prepreg

MANUFACTURING PROCESS
Filament winding

MARKET
Construction

QUALITY STANDARD
CSA
GROUPE CANADAIR DE BOMBARDIER INC.

1800, Boul. Laurentien
Ville St-Laurent, Québec
H2R 1K2

President: Robert E. Brown
Technical Director: Ghislain Bourque

Telephone: (514) 744-1511
Fax: (514) 744-6586

COMPANY SIZE
Sales revenue: $50,000,000
Number of employees: 580 (500 engineers)

PRODUCTS
Parts for aircrafts and reconnaissance systems as well as technical support for military aircrafts.

MATRIX
Polymer

REINFORCING MATERIALS
Carbon fiber, kevlar fiber, fiberglass

FORM OF REINFORCING MATERIALS
Felts, continuous filament roving, cut filaments of different lengths, twill and unidirectional ribbon
twill fabric, unidirectional fabric, net surface

TYPE OF PREPREG
Continuous roving prepreg, woven prepreg

MANUFACTURING PROCESS
Filament winding, autoclave curing, vacuum molding, manual contact molding, resin transfer molding
RTM, molding under low pressure, cavity Press

MARKETS
Aeronautical, aerospace, military

QUALITY STANDARD
AQAP #1

R&D ACTIVITIES
Yes
GRUENWALD ENTREPRISES INC.

P.O. Box 460
Hudson, Québec
J0P 1H0

President: Hans Gruenwald Jr.

Telephone: (514) 458-7014
Fax: (514) 458-3235

Founded in 1961

COMPANY SIZE
Sales revenue: $1,000,000 $5,000,000
Number of employees: 9

PRODUCTS
Septic tanks and retention tanks

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORM OF REINFORCING MATERIALS
Twill fabric

MANUFACTURING PROCESS
Manual contact molding

MARKETS
Construction, environnement

QUALITY STANDARDS
B.N.Q.

R&D ACTIVITIES
Yes
GSM PRODUCTION INC.

1400, Pomba
St-Laurent, Québec
H4R 2A1

President: Morley Smith
Technical Director: Bernard Lebrun

Telephone: (514) 337-3041
Fax: (514) 336-2763

Founded in 1987

COMPANY SIZE
Sales revenue: $1 000 000 $5 000 000
Number of employees: 35 (3 engineers)

PRODUCTS
Transportation equipment, postal stands

MATRIX
Polymer

REINFORCING MATERIALS
Carbon fiber, kevlar fiber, Spectra fiber, fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, cut filaments of different lengths, mat of continuous filament, mat of cut filament, mat surface, twill and unidirectionnel ribbon, biaxial fabric, twill fabric, unidirectional fabric

MANUFACTURING PROCESSES
Vacuum molding, manual contact molding, resin transfer molding RTM

MARKETS
Automobile, marine, railroad, industrial equipment, military, urban furniture

QUALITY STANDARDS
Z 299.3, AQAP #4

R&D ACTIVITIES
Yes
HIMONT CANADA INC.

1100, René-Lévesque Ouest
Montréal, Québec
H3B 4N4

President: R.J. Ockun
Technical Director: M.S. Bailey

Telephone: (514) 393-6300
Fax: (514) 393-9645

Founded in 1976

COMPANY SIZE
Sales revenue: more than $50,000,000
Number of employees: 200 (25 engineers)

PRODUCTS
Polypropylene with fiberglass reinforced minerals: Astryn/Higlass

MATRIX
Polymer

REINFORCING MATERIALS
Fiberglass, talc, calcium carbonate

FORM OF REINFORCING MATERIALS
Cut filaments of different lengths

MARKETS
Automobile, home appliances, construction, electronics, wrapping packaging, industrial equipment, medical, military, sports and recreation, clothing and textiles, fibres

QUALITY STANDARDS
ASTM, DIN

R&D ACTIVITIES
Yes
INNO-COMPOSITE INC.

2867, Halpern
Ville St-Laurent, Québec
H4S 1P8

President: Jeff Clarke

Telephone: (514) 733-3393
Fax: (514) 738-9614

Founded in 1992

COMPANY SIZE
Sales revenue: less than $1,000,000
Number of employees: 4 (4 engineers)

PRODUCTS
Bonded floor panels, tubular products and prototyping

MATRIX
Polymer

REINFORCING MATERIALS
Fiberglass, carbon, kevlar, Spectra

FORMS OF REINFORCING MATERIALS
Biaxial fabric, unidirectional fabric, cloth continuous filament roving, felt, mat of continuous filament, mat of cut filament, mat surface

TYPE OF PREPREG
Continuous roving, woven

MANUFACTURING PROCESSES
Manual contact molding, molding under high and low pressure, resin transfer molding (RTM), vacuum molding

MARKETS
Aeronautical, aerospace, railroad, forest, sports and recreation

QUALITY STANDARDS
ISO 9000, ASTM

R&D ACTIVITIES
Yes
JB MARTIN

445, rue St-Jacques
St-Jean-sur-Richelieu, Québec
J3B 2M1

President: Gilbert Sonnery
Technical Director: Nicolas Juillard

Telephone: (514) 346-6853
Fax: (514) 347-4910

Founded in 1934

COMPANY SIZE
Sales revenue: $5 000 000 $10 000 000
Number of employees: 73 (3 engineers)

PRODUCTS
Technical fabrics

REINFORCING MATERIALS
Carbon fiber, ceramic fiber, kevlar fiber, Spectra fiber, fiberglass, silicium carbide

FORMS OF REINFORCING MATERIALS
Continuous filament roving, twill and unidirectionnel ribbon, biaxial fabric, twill fabric, unidirectional fabric, cloth, superposed and bound unidirectional sheets, 3D fabrics

MARKETS
Aeronautical, aerospace, automobile, naval, railroad, specialty vehicles, construction, corrosion, wrapping packaging, energy, industrial equipment, forest, medical, mining, military, sports and recreation, clothing and textiles, ballistic

QUALITY STANDARDS
ISO 9000, ASTM

R&D ACTIVITIES
Yes
KIRIE AMÉRIQUE

1204, chemin Industriel
P.O. Box 10
Bernières, Québec
G7A 1A9

President: Paul Laflamme
Technical Director: André Baudet

Telephone: (418) 831-2522
Fax: (418) 831-3406

Founded in 1987

COMPANY SIZE
Sales revenue: up to $1 000 000
Number of employees: 12 (1 engineer)

PRODUCTS
28, 32 and 36-foot sailboats

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORMS OF REINFORCING MATERIALS
Felt, cut filaments of different lengths, mat of cut filaments, twill fabric, unidirectional fabric

MANUFACTURING PROCESSES
Manual contact molding, contact molding by projection

MARKETS
Marine, nautical (pleasure boating), sports and recreation
LAVAL FIBRE DE VERRE

1242, rue Godin
Laval, Québec
H7E 2T2

President: Jean-Claude Trepanier

Telephone: (514) 328-2021
Fax: (514) 661-9083

Founded in 1980

COMPANY SIZE
Sales revenue: up to $1 000 000
Number of employees: 9

PRODUCTS
Sub-contractor various parts

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, cut filaments of different lengths, mat of cut filaments, mat surface

MANUFACTURING PROCESSES
Manual contact molding, contact molding by projection

MARKETS
Construction, renovation, boats, moulds

QUALITY STANDARD
ISO 9000
MAAX INC.

600, Cameron
P.O. Box 1030
Ste-Marie, Québec
G6E 3C2

President: Placide Poulin
Technical Director: Richard Garneau

Telephone: (418) 387-4155
Fax: (418) 387-3507

Founded in 1970

COMPANY SIZE
Sales revenue: $20 000 000 $50 000 000
Number of employees: 189 (2 engineers)

PRODUCTS
Bathtubs, showers, public transportation products, industrial parts

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, mat of cut filaments

MANUFACTURING PROCESSES
Manual contact molding, contact molding by projection

MARKETS
Railroad, agriculture, construction, industrial equipment, sports and recreation

QUALITY STANDARD
Z 299

R&D ACTIVITIES
Yes
President: Sylvain Masson
Technical Director: Sylvain Masson

1074, Levis
Lachenale, Québec
J6W 4L1

Telephone: (514) 471-6803
Fax: (514) 471-6516

Founded in 1981

COMPANY SIZE
Sales revenue: up to $1,000,000
Number of employees: 10

PRODUCTS
Whirlpools, sinks and sanitary equipment

MATRIX
Polymer

REINFORCING MATERIALS
Fiberglass and aggregate

FORM OF REINFORCING MATERIALS
Continuous filament roving

MANUFACTURING PROCESS
Manual contact molding

MARKETS
Plumbing

QUALITY STANDARD
CSA
MATÉRIAUX DE POINTE PRÉCITECH

4800, Rideau
Québec, Québec
G1P 4P4

Telephone: (418) 877-5335
Fax: (418) 877-5336

President: Ghislain Théberge
Technical Director: Louis Desrosiers

Qébec, Qébec

G1P 4P4

Telephone: (418) 877-5335
Fax: (418) 877-5336

Founded in 1990

COMPANY SIZE
Sales revenue: less than $1 000 000
Number of employees: 20 (5 engineers)

PRODUCTS
Sintered parts

MATRIX
Metal

REINFORCING MATERIAL
Copper infiltration

FORM OF REINFORCING MATERIAL
Binding

MANUFACTURING PROCESSES
Molding under high pressure

MARKET
Industrial equipment

QUALITY STANDARD
ISO 9000

R&D ACTIVITIES
Yes
M.K. PLASTICS CORP.

57, Queen Street
Montréal, Québec
H3C 2N6

President: Minel Kupferberg
Technical Director: Dan Strujac

Telephone: (514) 871-9999
Fax: (514) 871-1753

Founded in 1963

COMPANY SIZE
Sales revenue: $1 000 000 $5 000 000
Number of employees: 26 (3 engineers)

PRODUCTS
Ventilators, driers, ventilation piping, gaz purifiers

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, cut filaments of different lengths, mat of cut filaments, mat surface, biaxial fabric, unidirectional fabric, cloth

TYPE OF PREPREG
Molding compound BMC

MANUFACTURING PROCESSES
Vacuum molding, manual contact molding, centrifugal molding, molding under low pressure

MARKETS
Aeronautical, aerospace, automobile, marine, railroad, specialty vehicles, agriculture, appliances, construction, corrosion, electronics, industrial equipment, forest, medical, mining, military

QUALITY STANDARD
41-GP-22

R&D ACTIVITIES
Yes
MODÈLERIE M.H. INC.

2250, route 139
St-Nicéphore, Québec
J2A 2G2

President: Gérard Nadeau
Technical Director: Marcel Hamel

Telephone: (819) 477-8517
Fax: (819) 477-3262

Founded in 1980

COMPANY SIZE
Sales revenue: up to $1 000 000
Number of employees: 4 full time
1 part time

PRODUCTS
Epoxy laminate or cast moulds with different reinforcements

MATRIX
Polymer

REINFORCING MATERIALS
Wood fiber, fiberglass

FORM OF REINFORCING MATERIALS
Continuous filament roving, cut filaments of different lengths, mat of continuous filament, mat of cut filaments, mat surface, biaxial fabric, twill fabric, cloth, net surface

MANUFACTURING PROCESSES
Manual contact molding, lamination

MARKETS
Aeronautical, automobile, railroad, specialty vehicles, agriculture, appliances, industrial equipment, forest, military, sports and recreation

QUALITY STANDARD
Z 299
MORY-PLASTIQUE INC.

140, Rang St-Pierre
St-Anselme, Québec
G0R 2N0

President: Yvon Morin

Telephone: (418) 885-9804
Fax: (418) 885-8151

Founded in 1971

COMPANY SIZE
Sales revenue: $1 000 000 $5 000 000
Number of employees: 10

PRODUCTS
Pick-up boxes (campers, econoline, truck roofs), modified septic tanks (minivan)

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORM OF REINFORCING MATERIALS
Continuous filament roving, cut filaments of different lengths, mat of cut filaments, unidirectional fabric, cloth

MANUFACTURING PROCESSES
Manual contact molding, contact molding by projection

MARKETS
Automobile, specialty vehicles, agriculture, construction, sports and recreation

R&D ACTIVITIES
Yes
MOULAGE WINDSOR INC.

303, Benjamin-Judon
St-Laurent, Québec
H4N 1J1

President: Minghua Li

Telephone: (514) 336-8377
Fax: (514) 336-8377

COMPANY SIZE
Sales revenue: up to $1 000 000
Number of employees: 4

PRODUCTS
Spools and reels

MATRIX
Polymer

REINFORCING MATERIAL
Spectra fiber

FORM OF REINFORCING MATERIAL
Cloth

TYPE OF PREPREG
Molding compound BMC

MANUFACTURING PROCESS
Molding under high pressure

MARKETS
Clothing and textiles

Founded in 1972
MULTI PERFORMANCES COMPOSITES

82, Desgagné
P.O. Box 75
Sacré Cœur (Côte Saguenay), Québec
G0T 1Y0

Telephone: (418) 236-4877
Fax: (418) 236-9144

President: Clément Boivin
Technical Director: Clément Boivin

Founded in 1988

COMPANY SIZE
Sales revenue: up to $1 000 000
Number of employees: 6

PRODUCTS
On demand mostly for the sailing industry and fabrication of prototypes

MATRIX
Polymer

REINFORCING MATERIALS
Carbon fiber, kevlar fiber, Spectra fiber, fiberglass

FORMS OF REINFORCING MATERIALS
Twill and unidirectionnel ribbon, biaxial fabric, twill fabric, unidirectional fabric, cloth, net surface

MANUFACTURING PROCESS
Manual contact molding, hand lay-up moulding vacuum bagging, post-curing

MARKETS
Marine, specialty vehicles, industrial equipment, sports and recreation

R&D ACTIVITIES
Yes
PANVAL INC.
Membre de Uniboard Canada Inc.

P.O. Box 340
Sayabec, Québec
G0J 3K0

Telephone: (418) 536-5465
Fax: (418) 536-5672

President: Guy R. Lacroix
Technical Director: Claude Fortin

Founded in 1982

COMPANY SIZE
Sales revenue: More than 50 000 000
Number of employees: 225 (3 engineers)

PRODUCTS
Melamine panels, furniture parts

MATRIX
Polymer

REINFORCING MATERIAL
Wood fiber

FORM OF REINFORCING MATERIALS
Cut filaments of different lengths

MANUFACTURING PROCESS
Impregnation

MARKETS
Construction, furniture

QUALITY STANDARD
CAN3-0188.1-M78

R&D ACTIVITIES
Yes
PISCINE FIBRO CANADA LTÉE

1456, rue Jaffa
Fabreville Laval, Québec
H7P 4K9

President: Pierre Viau
Technical Director: Pierre Viau

Telephone: (514) 622-2664
Fax: (514) 628-0691

Founded in 1983

COMPANY SIZE
Sales revenue: up to $1 000 000
Number of employees: 13

PRODUCT
Pools

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORM OF REINFORCING MATERIALS
Continuous filament roving

TYPE OF PREPREG
Molding compound made with short fibres

MANUFACTURING PROCESS
Manual contact molding

MARKET
Sports and recreation

QUALITY STANDARD
ISO 9000

R&D ACTIVITIES
Yes
PLASTIBEC LTÉE

5, rue St-Alphonse
Ste-Thérèse, Québec
J7E 1G3

President: Vic De Zen
Technical Director: Claude Poulin

Founded in 1980

COMPANY SIZE
Sales revenue: $50 000 000
Number of employees: 390 (6 engineers)

PRODUCT
PVC slats for vertical blinds

MATRIX
Polymer

FORM OF REINFORCING MATERIALS
Net surface

TYPE OF PREPREG
P.V.C. compound

MANUFACTURING PROCESSES
Pultrusion, extrusion

MARKETS
Construction, decoration

QUALITY STANDARDS
Z 299, ASTM #1

R&D ACTIVITIES
Yes
PLASTIQUES FLEXIBULB INC.

9000, boul. Parent
P.O. Box 635
Trois-Rivières, Québec
G9A 5J3

President: Pierre Tellier
Technical Director: Paul Vaugeols

Telephone: (819) 374-9250
Fax: (819) 374-5143

Founded in 1971

COMPANY SIZE
Sales revenue: $1 000 000 $5 000 000
Number of employees: 20 (3 engineers)

PRODUCTS
Vacuum-assisted thermoformed plastic parts. Vacuum forming. Wood and epoxy moulds. Machining of plastic or metal parts. Repairing composite parts. Vacuum-plating acrylic sheets and others. Cutting and drilling templates. Skylights

MATRIX
Polymer

REINFORCING MATERIALS
Wood fiber, kevlar fiber, fiberglass

FORMS OF REINFORCING MATERIALS
Biaxial fabric, twill fabric, cloth

TYPE OF PREPREG
Woven prepreg

MANUFACTURING PROCESSES
Vacuum molding, manual contact molding, molding under high pressure

MARKETS
Aeronautical, railroad, specialty vehicles, public transportation, construction, medical, military, sports and recreation

QUALITY STANDARD
AQAP #4

R&D ACTIVITIES
Yes
PLASTIQUES G.R.P. INC.

5200, chemin St-Gabriel
St-Félix-de-Valois, Québec
J0K 2M0

President: Pierre Belleville
Technical Director: Gino Belleville

Telephone: (514) 889-8265
Fax: (514) 889-4936

Established in 1986

COMPANY SIZE
Sales revenue: $1 000 000 $5 000 000
Number of employees: 20

PRODUCTS
Ski racks, snow shovels, garden furniture

MATRIX
Polymer

REINFORCING MATERIAL
Spectra fiber

FORM OF REINFORCING MATERIALS
Pellet form

MANUFACTURING PROCESSES
Reaction injection molding RIM, reinforced reaction injection molding RRIM, resin transfer molding RTM

MARKETS
Aeronautical, specialty vehicles, agriculture, wrapping packaging, industrial equipment, sports and recreation, furniture

QUALITY STANDARD
Internal
LES PLASTIQUES INDUSTRIELS C.J. INC.

2075, route St-Alphonse
St-Bruno (Lac St-Jean) Québec
G0W 1L0

President: Charles Jomphe
Technical Director: Charles Jomphe

Telephone: (418) 668-2967
Fax: (418) 668-2967

Founded in 1979

COMPANY SIZE
Sales revenue: up to $1 000 000
Number of employees: 8

PRODUCTS
Industrial parts

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORM OF REINFORCING MATERIALS
Mat of cut filament, mat surface, biaxial fabric, cloth, net surface, synthetic web (wexus)

MANUFACTURING PROCESSES
Manual contact molding, contact molding by projection

MARKETS
Construction, corrosion, industrial equipment, water treatment

QUALITY STANDARDS
CAN 41 GP 22, D-3299-81

R&D ACTIVITIES
Yes
PLASTIQUES INDUSTRIELS

3655, boul. Lorsh
St-Hubert, Québec
J3Y 5T7

General Manager: André Touchette
Technical Director: Clément Marik

Telephone: (514) 656-2020
Fax: (514) 656-8646

Founded in 1957

COMPANY SIZE
Sales revenue: $5 000 000 $10 000 000
Number of employees: 68

PRODUCTS
Plastic strips

MATRIX
Polymer

MANUFACTURING PROCESS
Extrusion molding

MARKETS
Construction, electronics, sports and recreation

QUALITY STANDARD
ASTM

R&D ACTIVITIES
Yes
LES PLASTIQUES P.V. INC.

9030, Ryan
Dorval, Québec
H9P 2M8

Telephone: (514) 636-0362
Fax: (514) 636-4284

President: Pierre Vaudrin

Founded in 1982

COMPANY SIZE
Sales revenue: $1 000 000  $5 000 000
Number of employees: 12

PRODUCTS
Custom industrial products

MATRIX
Polymer

REINFORCING MATERIALS
Spectra fiber, fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, mat of continuous filaments, mat of cut filament, mat surface, twill fabric, net surface

MANUFACTURING PROCESSES
Filament winding, manual contact molding, pultrusion

MARKETS
Corrosion, electronics, industrial equipment, forest, medical, mining

QUALITY STANDARD
ASTM
PLASTIQUES PROSPECT INC.

5470, rue St-Roch
Drummondville, Québec
J2B 6V4

President: Gilles Soucy
Technical Director: Claude Bergeron

Telephone: (819) 474-5151
Fax: (819) 477-9423

Founded in 1981

COMPANY SIZE
Sales revenue: $1 000 000
Number of employees: 16 (1 engineer)

PRODUCTS
Cogwheels for snowmobiles, runners, skis. Railway, agricultural, industrial equipment parts.
Agricultural and military wheels

MATRIX
Polymer

REINFORCING MATERIALS
Asbestos fiber

FORM OF REINFORCING MATERIALS
Cut filaments of different lengths

MANUFACTURING PROCESSES
Molding under low pressure, molding under high pressure

MARKETS
Railroad, agriculture, industrial equipment, military, sports and recreation

R&D ACTIVITIES
Yes
PLASTIQUES RENFORCÉS TRICOIRE INC.

332, chemin Yamaska
P.O. Box 445
St-Germain-de Grantham, Québec
J0C 1K0

President: Joseph Tricoire
Technical Director: Joseph Tricoire

Telephone: (819) 395-2611
Fax: (819) 395-2611

Founded in 1976

COMPANY SIZE
Sales revenue: up to $1 000 000
Number of employees: 11

PRODUCTS
Agriculture: silo chutes, silage carts, feed carts, silo roofs
Industrial: fiberglass templates, structural board (special), wood drying kilns, sandwich panels

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, mat of cut filaments, mat surface, twill fabric, cloth

MANUFACTURING PROCESSES
Filament winding, manual contact molding, contact molding by projection, reaction injection molding
RIM, resin transfer molding RTM

MARKET
Specialty vehicles

QUALITY STANDARDS
In-house
P.P.D. THERMOPLASTIC INC.

300, Raymond Street
Waterville, Québec
J0B 3H0

President: Sylvain Morrissette

Telephone: (819) 837-2488
Fax: (819) 837-3048

COMPANY SIZE
Sales revenue: $1 000 000 $5 000 000
Number of employees: 36 (1 engineer)

MATRIX
Polymer

REINFORCING MATERIAL
Spectra

FORM OF REINFORCING MATERIAL
Cut filament of different lengths

TYPE OF PREPREG
Molding compound with short fibre, molding compound with continuous fibre TMC

MANUFACTURING PROCESS
Thermoplastic injection molding

MARKETS
Automobile, construction, industrial equipment, military, sports and recreation

QUALITY STANDARD
ASTM
PRECIMOLD INC.

9, Marie-Victorin Boulevard
Candiac, Québec
J5R 4S8

President: Gunter Weiss
Technical Director: Gunter Weiss

Telephone: (514) 659-2921
Fax: (514) 659-2923

Founded in 1966

COMPANY SIZE
Sales revenue: $1 000 000 $5 000 000
Number of employees: 25 (1 engineer)

PRODUCTS
Steel moulds, precision injection-moulded plastic parts

MATRIX
Polymer

REINFORCING MATERIALS
Metal and Inorganic fiber, fiberglass

TYPE OF PREPREG
Molding compound made with short fibres

MANUFACTURING PROCESSES
Molding under low pressure, molding under high pressure

MARKETS
Aeronautical, aerospace, automobile, marine, appliances, construction, electronics, industrial equipment, medical, mining, military, sports and recreation, clothing and textiles

QUALITY STANDARDS
ISO 9000, 105-GP-1

R&D ACTIVITIES
Yes
PRODUITS MULTIFOAM INTERNATIONAL INC.

2255, route 139
St-Nicéphore, Québec
J2A 2G2

President: Gérard Nadeau
Technical Director: Benoit Lacille

Telephone: (819) 474-2418
Fax: (819) 477-3262

Founded in 1987

COMPANY SIZE
Sales revenue: $1 000 000 $5 000 000
Number of employees: 51 (3 engineers)

PRODUCTS
Polyurethane molded seats for office equipment, ski-doos, sea-doos and buses

MATRIX
Polymer

REINFORCING MATERIALS
Fiberglass, metal

FORM OF REINFORCING MATERIAL
Twill fabric

MANUFACTURING PROCESS
Injection molding (stiff and flexible foam)

MARKETS
Automobile, specialty vehicles, medical

QUALITY STANDARD
Z 299

R&D ACTIVITIES
Yes
PROGRESS PIGMENTS ET RÉSINES DISTRIBUTION

720, rue Farrell
Drummondville, Québec
J2C 5X3

President: Jean-Guy Picard
Technical Director: Claude Plion

Telephone: (819) 477-4516
Fax: (819) 477-6790

Founded in 1990

COMPANY SIZE
Sales revenue: $5 000 000 $10 000 000
Number of employees: 24

PRODUCTS
Polyester compositions, gel coats, fabrics

MATRIX
Polymer

REINFORCING MATERIALS
Carbone fibre, fiberglass

FORMS OF REINFORCING MATERIALS
Felt, continuous filament roving, cut filament of different lengths, mat of continuous filament, mat of cut filaments, mat surface, twill and unidirectional ribbon, biaxial fabric, twill fabric, unidirectional fabric, cloth, net surface

MANUFACTURING PROCESS
Filament winding, vacuum molding, manual contact molding, contact molding by projection, pultrusion

MARKETS
Aeronautical, aerospace, automobile, marine, railroad, specialty vehicles, agriculture, appliances, construction, corrosion, electronics, wrapping, packaging, energy, industrial equipment, forest, medical, mining, military, sports and recreation, clothing and textiles

QUALITY STANDARDS
ASTM, ACNOR

R&D ACTIVITIES
Yes
PROSLIDE TECHNOLOGY INC.

56, rue Séguin
Rigaud, Québec
JOP 1P0

President: Richard D. Hunter
Technical Director: Hans Tanzer Jr

Telephone: (514) 451-6516
Founded in 1986
Fax: (514) 451-0010

COMPANY SIZE
Sales revenue: $1,000,000 $5,000,000
Number of employees: 27 (1 engineer)

PRODUCTS
Water slides, furniture, custom cubicles

MATRIX
Polymer

REINFORCING MATERIALS
Carbon fiber, kevlar fiber, fiberglass, Coremat felt

FORMS OF REINFORCING MATERIALS
Felt, continuous filament roving, cut filament of different lengths, mat of continuous filament, mat of cut filaments, mat surface, biaxial fabric, unidirectional fabric, cloth, Balsa sheet

MANUFACTURING PROCESSES
Manual contact molding, contact molding by projection

MARKETS
Construction, sports and recreation

QUALITY STANDARD
Customer’s

R&D ACTIVITIES
Yes
PULTRALL INC.

275, Monfette Nord, Thetford Mines, Québec G6G 7H4

President: Fernand Bernard
Technical Director: Fernand Bernard

Telephone: (418) 335-3202
Fax: (418) 335-5117

Founded in 1988

COMPANY SIZE
Sales revenue: up to $1 000 000
Number of employees: 7 (1 engineer)

PRODUCTS
ISOROD composite rods

MATRIX
Polymer

REINFORCING MATERIALS
Carbon fiber, kevlar fiber, fiberglass

FORM OF REINFORCING MATERIALS
Continuous filament roving

TYPE OF PREPREG
Continuous roving prepreg

MANUFACTURING PROCESSES
Molding under low pressure, pultrusion

MARKETS
Automobile, construction, sports and recreation

QUALITY STANDARD
ASTM

R&D ACTIVITIES
Yes
PULTRUSION TECHNIQUE INC.

1860, Marie Victorin
St-Bruno, Québec
J3V 6B9

President: Jean L. Dufresne
Technical Director: R.P. Dufresne

Telephone: (514) 653-1731
Fax: (514) 653-8478

Founded in 1963

COMPANY SIZE
Sales revenue: up to $1 000 000
Number of employees: 17 (1 engineer)

PRODUCTS
Pultruded structural sections, casted parts, polymer concrete

MATRIX
Polymer

REINFORCING MATERIALS
Carbon fiber, kevlar fiber, fiberglass

FORMS OF REINFORCING MATERIALS
Felt, continuous filament roving, cut filament of different lengths, mat of continuous filament, mat of cut filaments, mat surface, twill fabric, unidirectional fabric, cloth, net surface

MANUFACTURING PROCESSES
Manual contact molding, reaction injection molding RIM, pultrusion

MARKETS
Aeronautical, aerospace, railroad, agriculture, construction, corrosion, electronics, industrial equipment, mining

QUALITY STANDARDS
ISO 9000, ASTM

R&D ACTIVITIES
Yes
RAILTECH LTD.

325, Lee Avenue
Bale d’Urfé, Québec
H9X 3S3

President: Ken MacDonald

Telephone: (514) 457-4760
Fax: (514) 457-7111

Founded in 1972

COMPANY SIZE
Sales revenue: $5 000 000 $10 000 000
Number of employees: 90 (5 engineers)

PRODUCTS
Architectural products, gear boxes, toilet and sink systems for buses and trains, aluminium honeycomb panels for architectural applications

MATRIX
Polymer

REINFORCING MATERIALS
Wood fiber, kevlar fiber, fiberglass, whiskers

FORM OF REINFORCING MATERIAL
Cloth

TYPES OF PREPREG
Continuous roving prepreg, woven prepreg

MANUFACTURING PROCESSES
Vacuum molding, lamination of panels in platen press

MARKETS
Aeronautical, marine, railroad, specialty vehicles, construction, industrial equipment, military

QUALITY STANDARD
Z 299

R&D ACTIVITIES
Yes
RENÉ MATÉRIAUX COMPOSITES LTÉE

C.P. 159
55 Route 271
St-Ephrem, Beauce, Québec
G0M 1R0

President: René Grenier
Technical Director: Charles Carignan

Telephone: (418) 484-5282
Fax: (418) 484-5296

Founded in 1978

COMPANY SIZE
Sales revenue: $10 000 000 $20 000 000
Number of employees: 152 (1 engineer)

PRODUCTS
Car and truck parts

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, cut filament of different lengths, mat of continuous filament, mat of cut filaments, mat surface, biaxial fabric, cloth, net surface

MANUFACTURING PROCESSES
Manual contact molding, reaction injection molding RIM, reinforced reaction injection molding RRIM, resin transfer molding RTM, molding under low pressure

MARKETS
Automobile, specialty vehicles, agriculture, military

QUALITY STANDARDS
ISO 9000, Z 299

R&D ACTIVITIES
Yes
3460, Poirier
Ville St-Laurent, Québec
H4R 2J5

President: George Pregowski

Telephone: (514) 335-4314
Fax: (514) 335-4561

Technical Director: George Pregowski

Founded in 1991

COMPANY SIZE
Sales revenue: less than $1 000 000
Number of employees: 4 (2 engineers)

PRODUCTS
Powder rotary forming technologies, rotary presses

MATRIX
Metal, ceramic, carbon

REINFORCING MATERIALS
Boron, carbon, ceramic, metal fiberglass, whiskers and powders

FORMS OF REINFORCING MATERIALS
Cut filament of different lengths, powders

MANUFACTURING PROCESS
Rotary forming

MARKETS
Aeronautical, aerospace, automobile, marine, railroad, specialty vehicles, agriculture, appliances, corrosion, energy, industrial equipment, forest industry, mining, military

QUALITY STANDARD
Working towards ISO 9000

R&D ACTIVITIES
Yes
SIAL
Division de Shola Inc.

2860, boul. le Corbusier
Laval, Québec
H7L 3S1

President: Mario Picard
Technical Director: Robert Méthot

Telephone: (514) 667-4046
Fax: (514) 687-4105

Founded in 1967

COMPANY SIZE
Sales revenue: $1 000 000 $5 000 000
Number of employees: 14

PRODUCTS
Ceramic clays and slurries, ceramic glaze, heating elements for kilns

MATRIX
Ceramic

REINFORCING MATERIAL
Ceramic fiber

MANUFACTURING PROCESSES
Molding under low pressure, molding under high pressure

MARKETS
Construction, sports and recreation

QUALITY STANDARD
ASTM

R&D ACTIVITIES
Yes
SIGNAFLEX INC.

975, boul. Industriel Est
Victoriaville, Québec
G6P 8Y1

President: Jacques Poudrier

Telephone: (819) 758-1810
Fax: (819) 758-6727

Founded in 1989

COMPANY SIZE
Sales revenue: $1 000 000 $5 000 000
Number of employees: 10 (3 engineers)

PRODUCTS
Micro-computers for automotive fleet management and signalling systems

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, biaxial fabric

MANUFACTURING PROCESSES
Vacuum molding, reinforced reaction injection molding RRIM

MARKETS
Automobile, specialty vehicles, industrial equipment

QUALITY STANDARD
Z 299

R&D ACTIVITIES
Yes
SMQ INC.

9400, Autoroute Trans-Canada
Ville St-Laurent, Québec
H4S 1R7

President: Roger Tschaeppele

Founded in 1987

Telephone: (514) 335-9707
Fax: (514) 335-0546

COMPANY SIZE
Sales revenue: up to $1 000 000
Number of employees: 6 (1 engineer)

PRODUCTS
Vacuum-cast epoxy resin, laminations

MATRIX
Polymer

REINFORCING MATERIALS
Metal and inorganic fiber, fiberglass

FORMS OF REINFORCING MATERIALS
Continuous filament roving, cut filament of different lengths, twill and unidirectional ribbon, unidirectional fabric, cloth

MANUFACTURING PROCESSES
Filament winding, autoclave curing, vacuum moulding, pultrusion

MARKETS
Aeronautical, specialty vehicles, energy

QUALITY STANDARD
Z 299

R&D ACTIVITIES
Yes
SOLIDUR CANADA INC.

5600, Philippe Turcot
Montréal, Québec
H4C 1V7

President: J.B. MacDonald
Technical Director: R.H. Ferland

Telephone: (514) 937-9151
Fax: (514) 937-7586

Founded in 1911

COMPANY SIZE
Sales revenue: $1 000 000 $5 000 000
Number of employees: 15 (1 engineer)

PRODUCTS
Products for Industrial equipment

REINFORCING MATERIALS
Asbestos fiber, kevlar fiber, cotton

FORMS OF REINFORCING MATERIALS
Felt, biaxial fabric

TYPES OF PREPREG
Woven prepreg, Kevlar felt prepreg

MANUFACTURING PROCESSES
Braiding, weaving

MARKETS
Industrial equipment, forest, mining

R&D ACTIVITIES
Yes
SPAR AEROSPACE LIMITED

21025 Trans-Canada Highway
Ste-Anne-de-Bellevue, Québec
H9X 3R2

President: K.J. Perry
Chief Scientist: Colin A. Franklin

Telephone: (514) 457-2150
Fax: (514) 457-2724

Founded in 1968

COMPANY SIZE
Sales revenue: more than $50 000 000
Number of employees: more than 1 000 (400 engineers)

PRODUCTS
Design and analysis (satellites, subsystems and components, satellite ground stations)

MATRIX
Metal, polymer

REINFORCING MATERIALS
Carbon, Kevlar, whiskers

FORMS OF REINFORCING MATERIALS
Biaxial fabric, unidirectional fabric, continuous filament roving, cut filament of different lengths, mat of cut filament, mat surface

TYPES OF PREPREG
Continuous roving, woven

MARKET
Aerospace

QUALITY STANDARD
Applicable standards for space components

R&D ACTIVITIES
Yes
LES SPÉCIALISTES EN CORROSION
ZEDCO INC.

61E, boul. Brunswick
Dollard-des-Ormeaux, Québec
H9B 2N4

President: Gordon Pupil
Technical Director: Mike Agozzino

Telephone: (514) 683-0190
Fax: (514) 683-8779

.Company Size
Sales revenue: $5 000 000 $10 000 000
Number of employees: 7 (2 engineers)

.Products
Industrial chimneys, anti-corrosive protection

.Matrix
Polymer

.Reinforcing Materials
Metal and inorganic fiber, fiberglass

.Forms of Reinforcing Materials
Continuous filament roving, mat of continuous filaments, mat of cut filament, mat surface, twill fabric, net surface

.Types of Prepregs
Molding compound BMC, molding compound made with short fibres, molding compound made with continuous fibre HMC, sheet molding compound SMC, woven prepreg

.Manufacturing Processes
Filament winding, manual contact molding, contact molding by projection, centrifugal molding, reaction Injection molding RiM, reinforced reaction Injection molding RRIM

.Markets
Construction, corrosion, forest, mining

.Quality Standards
Z 299, ASTM
SPECTRALITE 70 LTÉE

900, boul. Normand
C.P. 819
Trois-Rivières, Québec
G9A 5J9

President: Isaac Robin
Technical Director: Jean-Marc Baril

Telephone: (819) 378-2765
Fax: (819) 378-1883

Founded in 1970

COMPANY SIZE
Sales revenue: $1,000,000 $5,000,000
Number of employees: 51

PRODUCTS
Fibrelite, signalling

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORMS OF REINFORCING MATERIALS
Mat of cut filaments, mat surface, net surface

MANUFACTURING PROCESS
Molding under low pressure

MARKETS
Aeronautical, aerospace, automobile, marine, railroad, specialty vehicles, agriculture, construction, energy, industrial equipment, forest, military, sports and recreation

QUALITY STANDARD
ASTM

R&D ACTIVITIES
Yes
TECHNO-CANADA INC.

1390, Joliot-Curie
Boucherville, Québec
J4B 7L9

President: Elle Chalhoub

Telephone: (514) 449-2773
Fax: (514) 449-7949

Established in 1989

COMPANY SIZE
Sales revenue: up to $1,000,000
Number of employees: 8 (1 engineer)

PRODUCTS
Truck and van boxes, industrial parts

MATRIX
Polymer

REINFORCING MATERIALS
Fiberglass, wood

FORMS OF REINFORCING MATERIALS
Continuous filament roving, cut filament of different lengths, mat of continuous filament, mat of cut filaments, biaxial fabric, twill fabric, cloth

MANUFACTURING PROCESSES
Manual contact molding, contact molding by projection

MARKETS
Automobile, marine, railroad, specialty vehicles, agriculture, construction, corrosion, industrial equipment

QUALITY STANDARD
ASTM

R&D ACTIVITIES
Yes
TUILES EUROPE LTÉE

4525c, boul. Leman
Laval, Québec
H7E 1A2

President: André Labbé
Technical Director: André Labbé

Telephone: (514) 664-1666
Fax: (514) 326-5440

Founded in 1979

COMPANY SIZE
Sales revenue: up to $1,000,000
Number of employees: 10

PRODUCT
Roof tiles

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORM OF REINFORCING MATERIALS
Mat of cut filaments

TYPE OF PREPREG
Sheet molding compound SMC

MANUFACTURING PROCESS
Molding under high pressure

MARKET
Construction

QUALITY STANDARD
ASTM
USIFIBRE INC.

800, de l'Industrie
St-Jérôme, Québec
J7Y 4B8

President: Gordon Mills
Technical Director: Michel Desjardins

Telephone: (514) 432-4645
Fax: (514) 432-5081

Founded in 1981

COMPANY SIZE
Sales revenue: $1 000 000 $5 000 000
Number of employees: 22

PRODUCT
Electric insulation

MATRIX
Polymer

REINFORCING MATERIAL
Fiberglass

FORMS OF REINFORCING MATERIALS
Mat of cut filament, mat surface, cloth, net surface

MANUFACTURING PROCESS
Resin transfer molding RTM

MARKETS
Aeronautical, construction, corrosion, electronics, industrial equipment, mining, transformer manufacturers

QUALITY STANDARDS
ISO 9000, Z 299

R&D ACTIVITIES
Yes
VERTEX COMPOSITES INC.

870, Curé Boivin
Boisbriand, Québec
J7G 2A7

President: Jacques Larivière
Technical Director: Zbigniew Migos

Telephone: (514) 493-6922
Fax: (514) 493-6924

Founded in 1988

COMPANY SIZE
Sales revenue: up to $1 000 000
Number of employees: 4

PRODUCTS
Chairs, high performance structural components

MATRIX
Polymer

REINFORCING MATERIALS
Carbon fiber, fiberglass

FORMS OF REINFORCING MATERIALS
Mat of continuous filament, biaxial fabric, unidirectional fabric, cloth, net surface

MANUFACTURING PROCESS
SRIM resin injection molding

MARKET
Office Equipment

QUALITY STANDARD
ANSI-BIFMA

R&D ACTIVITIES
Yes
VIGEANT INC.

572, chemin Patriotes
St-Mathias, Québec
J0L 2G0

President: Fernand Vigeant
Technical Director: Stéphane Schebath

Telephone: (514) 658-2535
Fax: (514) 658-2535

Founded in 1970

COMPANY SIZE
Sales revenue: up to $1,000,000
Number of employees: 5

PRODUCTS
Industrial parts and molds

MATRIX
Polymer

REINFORCING MATERIALS
Kevlar fiber, fiberglass

FORMS OF REINFORCING MATERIALS
Mat of cut filaments, mat surface, biaxial fabric, twill fabric, cloth, net surface

MANUFACTURING PROCESS
Manual contact molding

MARKETS
Construction, corrosion, industrial equipment, mining
WILLSUP INC.

92 Leacock Road
Pointe-Claire, Québec
H9R 1H1

President: George Williams
Technical Director: A. Forlini

Telephone: (514) 694-3111
Fax: (514) 694-8470

Founded in 1971

COMPANY SIZE
Sales revenue: up to $1 000 000
Number of employees: 13 (1 engineer)

PRODUCTS
Repairs for polyurethane parts

MATRIX
Polymer

REINFORCING MATERIALS
Metal and inorganic fiber

MANUFACTURING PROCESS
Molding under low pressure

MARKETS
Construction, industrial equipment, mining

QUALITY STANDARD
Allis Mineral Systems

R&D ACTIVITIES
Yes
XATEC INC.

166A, Principale
Tring Jonction, Québec
G0N 1X0

President: Richard Garneau
Technical Director: Magella Poulin

Telephone: (418) 426-2666
Fax: (418) 426-3268

Founded in 1987

COMPANY SIZE
Sales revenue: $1 000 000 $5 000 000
Number of employees: 15

PRODUCTS
Industrial parts and molds

MATRIX
Polymer

REINFORCING MATERIALS
Fiberglass

FORMS OF REINFORCING MATERIALS
Mat of continuous filament, mat of cut filaments, mat surface, twill and unidirectional ribbon, biaxial fabric, twill fabric, unidirectional fabric, cloth, net surface

MANUFACTURING PROCESSES
Manual contact molding, molding under low pressure

MARKETS
Railroad, construction, industrial equipment, forest

QUALITY STANDARDS
AQAP, CSA

R&D ACTIVITIES
Yes
RESEARCH CENTERS
CENTRE DE DÉVELOPPEMENT TECHNOLOGIQUE (C.D.T.)

Ecole Polytechnique de Montréal
C.P. 6079, succ.A
Montréal, Québec
H3C 3A7

Director: Denis N. Beaudry

Telephone: (514) 340-4171
Fax: (514) 340-4019

EMPLOYEES 9

ANNUAL BUDGET $500 000

MANDATE
To promote and exploit technologies developed in the institution.

ADVANCED MATERIALS COMPONENT
Groups involved in advanced materials development
- Centre for Characterization and Microscopy of Materials (CM)$^2$
- Polymers Applied Research Centre (PARC)
- Thin Films Research Group (TFRG)
- Advanced Ceramics and Special Refractories

CONTACT
(CM)$^2$ Prof. Gilles l'Espérance, Director
PARC Prof. Pierre J. Carreau, Director
TFRG Prof. Arthur Yelon, Director

ANNUAL BUDGETS
(CM)$^2$ $600 000
PARC $1 700 000
TFRG $1 400 000
EMPLOYEES

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<tr>
<th>(CM)²</th>
<th>PARC</th>
<th>TFRG</th>
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<td>30 professionals, 100 technical, 50 students</td>
<td>19 professionals, 6 technical, 45 students</td>
<td>18 professionals, 10 technical, 40 students</td>
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SPECIALTY AREAS, LABORATORIES AND SERVICES

(CM)² - materials development - examples are welding electrodes, cavitation resistant steels, steel powders, turbine blade rejuvenation, MMCs, superconductors analytical techniques training.

PARC - high frequency heating of UHMWPE, blow film processes, computer applications in injection moulding, polymer processing, polymer characterization, mechanical behaviour and tribology.

TFRG - amorphous hydrogenated silicon, nuclear techniques for microelectronics materials and processes, deposition of thin layers and etching by cold plasma, semiconductors, adhesion, surface activation, amorphous alloys, polarons, quantum transport.

Ceramics - advanced characterization, evaluation of ceramics for high temperature applications, characterization of ceramic composites.

MAJOR MATERIALS EQUIPMENT

(CM)² - 2300 kV STEM, Philips CM30 (unique in Canada), 200 KV STEM, JEOL 2000, JEOL Jamp 30 scanning auger microscope, JEOL JSM 840 & 820 SEMs, Philips PW 1130 X-Ray Diffractometer, KONTRON Image Analyzing System.

PARC - Battenfeld Injection Molding machine, 80-tonne, Killion single screw extruder; Killion blow film tower; Leistritz 35-mm twin screw extruder; 200-tonne vertical press; 20 & 30-tonne vertical presses with hot plates; Infrared heating thermoforming machine; Piston extruder with microwave heating; Brabender mixer; rollmill; extruder; gel permeation chromatographs; DSC II and Dupont 990 scanning calorimeters; Instron tester and capillary rheometer; Rheovibron; rheogoniometer; elongation viscometer; plasma reactors; traction machines; fatigue machines; dynamic mechanical analyzer; work benches for gears; friction and bearings.

TFRG - Nuclear techniques - ERD, RBS, PIXE, Ion Implantation Physicochemical techniques - IR; AES; photoelectron spectroscopy; SIMS; UPS; Scanning tunnelling microscopy; contact angle goniometry; mass spectrometry; ESR.

Electro-optical - optical absorption: conductivity; drift mobility; thermopower: constant photocurrent Device evaluation - DLTS; contact resistance; C-V-w; I-V-dark; I-V-light.

CONTACT

Individuals as above or central switchboard.
CENTRE D’ÉTUDE DES MATÉRIAUX PLASTIQUES BÉLANGER LTÉE

406, rue Tessier
Case postale 610
St-Germain-de-Grantham, Québec

President: Germain Bélanger

Telephone: (819) 395-2777
Fax: (819) 395-4370

Founded in 1979

MANDATE

Offer the plastic and composite industries technical services in the following fields:

- Parts and tooling conception and design
- Evaluation of mechanical, chemical and thermal properties
- New product research and development
- Improvement of molding processes
- Expertise in parts failure
- Training programs

SECTORS OF ACTIVITY

Transportation Buses, trucks, mass transportation
Corrosion Pulp and paper, aluminium smelters
Construction Far-north housing
Self supporting & monocoque structures
Aeronautical Training for technicians
Molding process adjustments
Recreational Tooling development
Structural parts design
Technical expertise Research and analysis of failures
Court litigation expertise
Education Universities and colleges
CENTRE DE RECHERCHE INDUSTRIELLE
DU QUÉBEC
(CRIQ)

333, rue Franquet
C.P. 9038
Sainte-Foy, Québec
G1V 4C7

Director: Pierre Coulombe
President and General Director: Guy Bertrand

Telephone: (418) 659-1550
Fax: (418) 652-2251

EMPLOYEES 425

ANNUAL BUDGET $27 000 000

MATERIALS CAPABILITIES

Fully developed materials capability. Approximately 20 percent of the effort is advanced and CRIQ specializes primarily in composites technology and plans expansions, especially in resin matrix composites capabilities. All usual materials equipment with emphasis on plastics processing and pilot plant space for phototyping products and processes.

MATERIALS EMPLOYEES 16 full-time personnel

SPECIAL EQUIPMENT

- environmental test chamber
- automatic and global box ovens
- corrosion test cabinet - QUV accelerated aging
- mechanical test system (Instron)
- electron microscope
- microdurometer
- impact tester
- Whether-o-Meter
- impact tour
- Injection moulding thermoplastic
- injection polyurethane
- extruder
- rolling mill
- vacuum forming machine
SPECIAL CAPABILITIES

Mechanical Testing Systems  Sarah Bégin
Accelerated Aging  Jean Rousseau
Prototype Development  Jean Rousseau, Christian Laing, Daniel Grenier

In Advanced Materials CRIQ specializes in:

Organic Matrix Composites  Julie Péloquin
Telephone (418) 659-1550

Metal Matrix Composites  Jean Rousseau
Telephone (418) 659-1550

SPECIAL SERVICES

Technology transfer activities associated with technology searches in Canada and abroad.

A staff of 10 in Technical Marketing Services and 3 in Information Services can assist with market surveys for technical products.

Also offered is a complete range of services for technology transfer including information on products, standards, trademarks, aid programs, technical evaluations, acquisition of intellectual property, contract negotiations, patent possibilities and procedures, etc.

CONTACT

Any of the specialists named above.
CENTRE DES PLASTIQUES DE BELLECHASSE INC.

74, route St-Gérard
Saint-Damien, Québec
G0R 2Y0

Director General: Daniel Gagnon
Board of Directors' President: Jean-Marie Chabot

Telephone: (418) 789-3340 Founded in 1991
Fax: (418) 789-3340

EMPLOYEES 4

OBJECTIVES

Offer laboratory testing facilities for quality control, R&D, analysis

Project management

Industrial Incubators:
Provide rental space, technical and administrative services to start-up businesses for a maximum 3 year period.

Professional training:
The Louis-Fréchette regional schoolboard is mandated by the Education department to provide training classes. The plastic machine operator and adjuster class provides qualified manpower and is adapted to industrial needs as the training is done in collaboration with industry.
CENTRE FOR BUILDING STUDIES

Concordia University
(Associated with the Société Informatique
de recherche pour l'industrie de la
construction-SIRICON)
1455, boul. de Maisonneuve ouest
Montréal, Québec
H3G 1M8

Director: Dr. Paul Fazio, Engineer
Board Chairman: F.H. Ernst

Telephone: (514) 848-3200
Fax: (514) 848-3198

EMPLOYEES 16 full time and 6 adjunct faculty members

ANNUAL BUDGET $4,000,000

MANDATE
To address the educational, R&D, and information transfer needs of the building sector.

ADVANCED MATERIALS COMPONENT
Involved with advanced materials in the construction materials field, including polymers and polyblends, adhesives, sealants and phase change materials for energy conservation in buildings. Building products are wallboards, concretes and composite tiles.

CONTACT
Dr. D. Feldman
MANDATE

The C.M.C. was therefore designated a specialized center for composite materials, mandated with the mission to drive the economic growth of the composite materials sector; this to be accomplished through technological research and development, technical assistance and technology transfer, specialized training and consulting.

ANNUAL BUDGET $1.8 million

EXPERTISE

Through its extensive project work and its generous investment in production and laboratory equipment, the C.M.C. has accrued a profound expertise in the following areas:

- High-performance fibers
- Thermoset matrices
- Thermoplastic matrices
- Adhesives
- Special additives and components
- Core and combination materials
- Production processes
- Three Dimensional Computer-Aided Design (3D CAD)
- Computer-Aided Manufacturing (CAM)
- Fabrication of highly complex molds and prototypes

SERVICES

In addition to the areas of expertise above, the C.M.C. has accumulated a great deal of related experience and has also cultivated a powerful network of domestic and international partners. All of these competencies and resources are integral to the services described below:
- Research and development of new products made from composite materials
- Optimization/development of production processes for composite materials
- Transfer of leading-edge composite materials technologies
- Linkage/partnering of compatible companies
- Assistance with product diversification
- Assistance with government subsidies and financing
- Assistance with domestic and international marketing
- Specialized training programs relating to various aspects of the composite materials industry
- Diffusion of information relating to various aspects of the composite materials industry
- Availability of graduates skilled in composite materials
CONCORDIA COMPUTER AIDED VEHICLE ENGINEERING (CONCAVE) - RESEARCH CENTRE

Concordia University
Department of Mechanical Engineering
Room CR - 200
1455, boul. de Maisonneuve ouest
Montréal, Québec
H3G 1M8

Director: Dr. Seshadri Sankar

Telephone: (514) 848-7930
Fax: (514) 848-8635

EMPLOYEES Access to 29

ANNUAL BUDGET $1 000 000

MANDATE
To conduct specialized research in Vehicle Engineering within the Department of Mechanical Engineering

OBJECTIVE
Deployment of computer-aided design for effective technology transfer to industries through development of computer software packages for off-road, road, rail, and air vehicle system analysis, design and testing.

Training of highly specialized professionals in vehicle engineering for effective and innovative industrial resource development and R&D leadership in Québec and the rest of Canada.

ADVANCED MATERIALS COMPONENT
R&D on conventional and Advanced Materials with the following tasks:
- systems identification and re-evaluation using finite element analysis
- conception and development of fail safe design strategies with the added capability to expedite trouble shooting
- reliability engineering analysis for minimum maintainability
- material properties characterization that facilitates identification, classification, prognosis, or isolation of damage in vehicle structures and components
- investigational analysis and damage surveys to enhance the assessment of the fracture and fatigue characteristics of advanced materials such as composites
- development and customization of structural design assistance packages and knowledge-based expert systems
- employment of probabilistic micromechanics to refine traditional structural dynamics analysis models and methodologies to elucidate the response pattern of a material's microstructure.

FACILITIES AND EQUIPMENT

Computing Facilities Include:
- CYBER 835 and CYBER 830
- computer research and interactive graphics laboratory with VAX 11/780, NORPAK VDP high performance colour video graphics system, a CALCOMP drum plotter and a Tektronix 4663 flatbed plotter
- Nicolet structural analysis system with Micronova MP 200 computer, with modal analysis and structural modification software and a direct link to the multi-axes vibration test rig multi-axes
- two Apollo Computers with Ato Trol 3D-CAD.
- IRIS 2400 workstation with high resolution raster graphics
- network of IBM PC/XTs and PC-CAD software (AUTO-CAD, MEGACAD, PC-ANSYS software)
- much additional software

The experimental laboratory facilities include:
- two Electro-hydraulic shakers for testing large structures
- electro-dynamic shaker
- FFT Analyzer, 2-channel, Nicolet Model 660 B, line connection to VAX 11/780
- dedicated computer-aided testing facility with animated graphics
- all required recording, measuring and analyzing instruments

CONTACT

Dr. S. Sankar
GUY GÉRIN-LAJOIE (GGL)
CONSULTANTS INC.

141, chemin Lapointe
Mont Tremblant, Québec
J0T 1Z0

Telephone: (819) 425-2743

President: Guy Gérin-Lajoie, architect

OBJECTIVES

Pursue the development and improvement of composite technology applied to the building industry.

Contribute to research and development of composite materials applied to buildings in collaboration with research centers and universities and assist manufacturing companies looking for composite applications in buildings.

Develop new housing concepts that allow for manufacturing and construction by local and non-specialized labor.

SPECIALIZATION

Composites materials for the building industry.

Building manufacturing techniques adapted to extreme climates such as found in the artic, desert and tropical regions.

Development of light structures covered with hermetically sealed panels made of reinforced cement, fiberglass and composite materials for use in semi-industrial projects that have accessibility, handling and construction constraints.

Projects already realized in Canada and foreign countries confirm the exceptional properties of these materials: lightness, flexibility, insulation, versatility, handling, dismantling ease, durability, adaptability, stability, manufacturing ease, water and air tightness, aestheticism, construction rapidity, technology transfer, economical.
MISSION

The Industrial Materials Institute (IMI) is dedicated to the pursuit of the National Research Council Canada’s (CNRC) mission to serve Canadians by actively contributing to the maintenance and to the improvement of their social and economic well-being and their competitive capacity.

IMI’s mission is to enhance the competitiveness of Canadian industry by conducting fundamental and applied research related to material process forming.

Specifically, the Institute:

- conducts, in conjunction with industry, research and development projects related to material characterization, and process control, modeling and design

- promotes materials leading-edge technologies and facilitates their utilization

- coordinates CNRC’s activities related to materials in order to maximize benefits to Canada and insure that the CNRC is recognized nationally and internationally for the quality and efficiency of its work in this area.
ADVANCED MATERIALS COMPONENT

POLYMER COMPOSITES

Contact   D‘ Toan Vu-Khanh
Employees  9
Budget    250 000 $

Objective The program concentrates on development of new polymer composite formulas, process forming and optimization. More specifically, the program concentrates on four technology elements:

- process forming modeling and mechanical performances;
- quantitative characterization of short and long term failures;
- matrix, reinforcing material and interfacial optimization;
- materials, microstructures and process control and examination.

METAL COMPOSITES

Contact   D‘ Sylvain Turenne
Employees  10
Budget    260 000 $

Objective The program concentrates on composite and ceramic process forming:

- define the control parameters of forming processes such as casting, semi-solid forming, powder metallurgy, pressing and composite casting methods;
- design or adapt these methods to optimize the properties of these materials;
- modelize the properties and behavior of the materials in relation to their volume proportion, nature and morphology breakdown;
- characterize the physical, chemical and mechanical properties.
McGill University
3550, rue University
Montréal, Québec
H3A 2A7

Telephone: (514) 398-4200
Fax: (514) 398-6878

IR MCGILL HAS TWO OFFICES

Office of Contract Research Director: V. Arelene Sproule
Telephone (514) 398-4200

Office of Inventions and Patents: R.D. Brassinga
Invention Manager
Telephone (514) 398-4201

EMPLOYEES 5

MANDATE

To foster and catalyze the interaction between McGill faculty and private industry, government or other non-profit organizations for the purpose of establishing contractual agreements in R&D.

The mandate for the Office of Inventions and Patents is to catalyze technology transfer and commercialization of McGill’s most promising inventions and to assist entrepreneurial researchers in interacting with Industry through grants, patenting, licensing and other mutually advantageous arrangements.

ADVANCED MATERIALS COMPONENT

Materials expertise exists with numerous faculty members and is accessible through these offices.
OFFICE OF TECHNOLOGY TRANSFER
BUREAU DE VALORISATION DES
APPLICATIONS DE LA RECHERCHE
(BVAR)

Université Laval
Faculté des sciences et de génie
Ste-Foy, Québec
G1K 7P4

Téléphone: (418) 656-5623
Fax: (418) 649-6184

MANDATE
To transfer university developed technology to industry, especially interested in local light metal industry.

ADVANCED MATERIALS COMPONENTS
Four groups working in polymers, polymer processing, ceramics, metal powders and wood composites.

SPECIALTY AREAS, LABORATORIES AND SERVICES
Centre de recherche des sciences et en Ingénierie des macromolécules (CERSIM)
Robert Prud'homme, Director

Metal Powders and Ceramics
Roch Angers in collaboration with the Department of Mines and Metallurgy

Modelling of plastic injection and extrusion
Philippe Tanguay, Department of Chemical Engineering

Wood Composites
Faculty of Forestry and Geomatics.
CERSIM is a major effort concentrating on polymer blends and composites, natural molecules and molecular orientation, both characterization and the effects of processing.

It has 9 professors and 17 researchers and support persons.

In addition to the use of equipment in the various faculties, CERSIM has:

- **solution characterization:** osmometers, photogonioldiffusometer, viscometers, densitometer and calorimeter, adiabatic calorimeters and GPR steric exclusion chromatographs

- **solid state characterization:** DSC, Instron, DMTA and rheovibron viscoelastometers, dielectric apparatus, mini-max molder, polarizing microscope with hot stage, laser small angle light scattering apparatus, x-ray diffractometer.

- **engineering research:** 65-tonne injection molding press, CYBER 930 computer and graphic terminals for computer-aided design

- **spectroscopy:** Raman spectrometers, Fourier transform infra-red spectrometers and spectrofluorometers

**CONTACT**

As above or Jean-Yves Chagnon, Vice Dean
Development and Technology Transfer

Telephone: (418) 656-2981
Fax: (418) 656-5902
RESEARCH OFFICE
UNIVERSITÉ DE SHERBROOKE

Université de Sherbrooke
2500, boul. de l'Université
Sherbrooke, Québec
J1K 2R1

Rector: Aldée Cabana

Telephone: (819) 821-7840
Fax: (819) 821-7880

EMPLEYEEES: 580 professors and 737 others

ANNUAL BUDGET $30 000 000 has been allocated for research projects this year

MANDATE

To develop university-industry relations. All companies wishing to establish collaborations with the university, whether through project participation or technology transfer, can contact the Research Office.
SOCIÉTÉ INFORMATIQUE DE RECHERCHE POUR L'INDUSTRIE DE LA CONSTRUCTION (SIRICON)

Université Concordia
The Centre for Building Studies
1455, boul. de Maisonneuve ouest
Montréal, Québec
H3G 1M8

Telephone: (514) 848-8770
Fax: (514) 848-3198

OFFICE
Room 243
1257, rue Guy
Montréal, Québec
H3H 2K5

EMLOYEES 10

ANNUAL BUDGET $1 000 000

MANDATE
To transfer technology and research results for the Canadian construction industry.

ADVANCED MATERIALS COMPONENT
SIRICON concentrates on introduction of computerization to the construction industry. Priorities are Energy, Computer Assisted Design, Construction Management and Expert Systems. It has recently entered a new area of Control Systems for heating and ventilation products. Advanced materials are not primary interest (see "Centre for Building Studies").
TECHNIQUE DES PLASTIQUES PIERRE LARIVIÈRE INC.

101, St-Charles
Roxton Falls, Québec
J0H 1E0

Director: Pierre Larivière

Telephone: (514) 548-5873
Fax: (514) 548-5874

Mandate

Provides molders and utilizers information on concept, analysis and molding of plastic and composite products.

Advanced Materials

Services and resources are oriented towards plastics and composites for mandates including the following:

- Comparative studies and analyses of molding processes (costs, characteristics)
- Counsel on molding techniques, design and choice of materials
- In-house database research (materials, products and applications)
- Computerized design (Autocad-11, AME-2, Autoshade-2)
- Laboratory tests (UV, Water Blistering, pyrolysis and laminating sequencing)
- On site inspection of composite molded parts
- Training, conferences and technical literature
- Development and implementation of quality control systems

Resources

Technical services are performed by Pierre Larivière. He is a graduate in plastic technology and has 25 years of experience which he acquired in the capacity of technician, engineer, production director and manager in the thermoplastic and composites industry.

TPPL has a wide range of equipment needed to fulfill its mandate. TPPL also regularly works with engineering and design firms, bringing complementary services and resources.
At the cross-roads of the Quebec textile industry, Saint-Hyacinthe is the host of the Textile Technology Center of Collège de Saint-Hyacinthe.

The Center's reputation and influence reach well beyond Quebec's frontiers. Primarily concerned with applied research and development, the Center has two major activities: textile product development and product analysis. For example, it is involved in the concept and design of safety clothing, comfort analysis, development of geosynthetic, chemically active filters to treat effluents, textile applications for milkweed fiber and optimisation of textile structures for the design of composites. In product analysis, the Center concentrates on the structural and chemical analysis of textiles as well as their objective evaluation.

The Center offers its services to the Canadian Textile Industry as well as foreign companies. It is dedicated to improving Canadian textile products by offering assistance for the development of textile technologies, by participating in basic research in Canada as well as abroad and by diffusing information and designing special training programs.
The competence of its professionals and the quality of its equipment are responsible for the Center's accomplishments among which are included:

- The organization of the 22nd Canadian Textile International Conference;
- The development of safety clothing for electric linesmen;
- The development of non-woven filters for contaminated effluents with heavy metals;
- The elaboration of an objective evaluation method for textile softeners;
- The implementation of Industry quality programs (Sears, Acnor and ISO standards)