

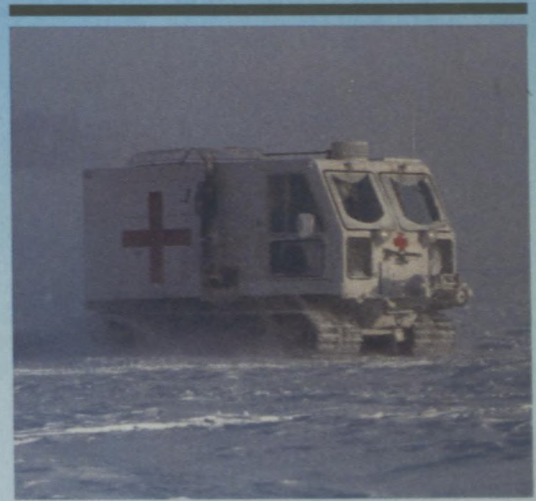
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# Canadian Cold Weather Clothing and Equipment Guide



Canada



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# Canadian Cold Weather Clothing and Equipment Guide

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Dept. of External Affairs  
Min. des Affaires extérieures

SEP 2 1993

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## **Introduction**

This guide, prepared by the Defence Programs and Advanced Technology Bureau of the Department of External Affairs, describes clothing and equipment manufactured by Canadian companies for military use in cold weather conditions.

The products included here represent only a cross-section of what is available from Canadian manufacturers in this field. Canadian companies offer a complete array of cold weather clothing and equipment for the military market, and all products are designed and made for use in the harshest of snow, wind and blizzard conditions. Many companies also offer custom products manufactured to the most stringent of military specifications.

The companies are presented in alphabetical order. Each company profile includes relevant company data, a brief history of the company, a description of products available for military use in cold weather conditions, and one or more photos displaying the products described. A cross reference index, organized by type of clothing or equipment, appears at the end of the book.

Since a guide of this nature cannot fully cover all the details about the products, interested readers are invited to contact the companies directly. Information on Canadian companies selling and promoting abroad may also be obtained from the nearest Canadian embassy or trade office.







---

## Canadian Commercial Corporation

Canadian Commercial Corporation (CCC) is a Crown corporation owned by the Government of Canada. It was established in 1946 by Act of Parliament "to assist in the development of trade between Canada and other nations."

CCC's principal function is to act as the contracting agency when foreign governments and international agencies wish to purchase goods or services from Canada on a government-to-government basis. Contracting for the corporation is generally carried out by the Department of Supply and Services, the central procurement agency for the Government of Canada. The customer is assured that the Canadian supplier is considered by the Government of Canada to be financially and technically capable of conforming with bid specifications, contract terms, and supplier warranties.

The availability of CCC's service does not prevent foreign governments or international agencies from contracting directly with Canadian manufacturers if they so desire. However, the corporation can provide foreign buyers with the same level of purchasing services as enjoyed by the Government of Canada when it purchases for its own account. Using the services of the government's own purchasing experts, CCC can identify competent sources and assure customers that prices and terms from Canadian suppliers are equitable. In addition, the financial aspects of transactions are simplified; approved customers receive open-account privileges and CCC assumes responsibility for paying suppliers' invoices and performing contract audits where required.

Arrangements can also be made to have Quality Assurance and acceptance of defence goods carried out in Canada on behalf of the customer government by the Canadian Department of National Defence.

Enquiries concerning CCC should be addressed to the Canadian embassy, high commission or consulate in your country, or directed to:

---

*Canadian Commercial Corporation  
Metropolitan Centre, 11th Floor  
50 O'Connor Street  
Ottawa, Ontario  
Canada K1A 0S6*

*Tel: (613) 996-0034  
Telex: 053-4359  
Fax: (613) 995-2121*







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## The Acton Rubber Ltd.

P.O. Box 300  
Acton Vale, Quebec  
Canada J0H 1A0

Tel: (514) 546-2776  
Telex: 058-25712  
Fax: (514) 546-3735

**Mukluk/Chimo Boots 4090G13 ▼**  
Eight-hour cold weather protection to  $-53.9^{\circ}\text{C}$  ( $-65^{\circ}\text{F}$ ) is assured with Acton's Mukluk/Chimo boots. Made up of muklucs, duffle socks and two types of insoles, these boots have been designed as a complete footwear system, with each component dependent upon the others for maximum benefit. The rubber boot, with moulded sole and heel bottom, is integrally vulcanized to a polyester fabric upper, with lace and D-ring for drawstring closure. The wedged, moulded heel accepts ski harness and snowshoe with ease. The duffle sock, made of 80 per cent wool and 20 per cent viscose fabrics in two layers, combines effectively with Saran plastic insole and additional 12.7 mm-thick felt insole. Boots are 34.3 to 40.8 cm high in sizes 4 to 14, and are available in white or blue, and in medium and narrow widths.



**Combat Overshoe 3080G11 ►**  
Designed to complement the Canadian Infantry's combat-clothing system, this Acton model fits over combat boots in cold and wet conditions. This waterproof overshoe, which is black and 28 cm high, features a medium-coarse, knurl-design outsole with high resistance to abrasion. Other properties include a full bellows tongue under its front-slide fastener, lower part insulation, nylon tricot insole cover and inside back strip for quick donning and doffing. All components are cemented and vulcanized under the differential pressure-cure system. Size range encompasses full and half sizes from 5 to 14. Other lasts and finishes are also available.



**Overshoe, Genuine-Shearling-Lined ► 4095G11**  
For top protection against cold weather, Acton offers this genuine-shearling-lined model tank boot, for transport personnel and others who require a work boot overshoe. Made of black, first quality, chrome-tanned leather sewn to a rubber bottom, the boot features a belled tongue, three-strap-and-buckle adjustment, felt insoles and genuine shearling lining. It is available in full sizes from 5 to 13.



**Prairie 3670G15 ▼**

When cold and wet conditions prevail, Acton's waterproof Prairie boot provides excellent protection. The 30.5 cm high green rubber boot features a warm, removable felt liner, stretchy net lining, steel shank and anti-slip design outsole. Its adjustable nylon collar-top prevents snow or other particles from entering the boot. The Prairie is available in full sizes from 6 to 13.



**Flying Boots 3060G11 ▲**

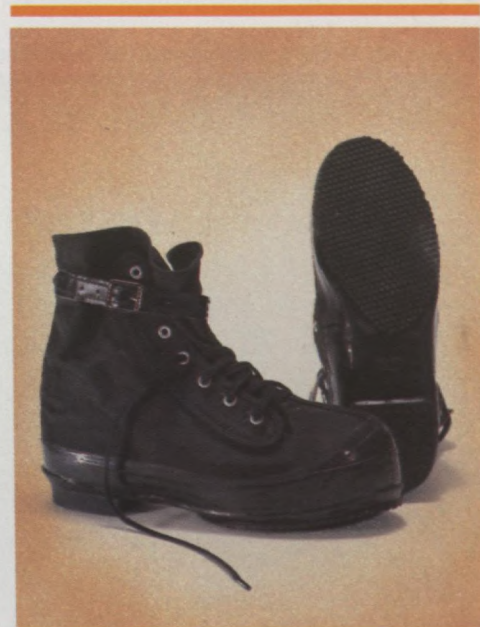
Both air and ground crews appreciate the environmental protection offered by Acton's flying boots. Worn over combat or safety boots, they provide good cold weather defence, while their black neoprene soles and uppers render them

oilproof. The knitted nylon tops are silicone-coated and water-repellent, and the heavy foam rubber insulation adds warmth. The 28 cm front zippers assure quick on-off operation. They are charcoal grey in colour and are available in sizes 4 to 13.



**Mukluk Flyer 4094G11 ►**

Designed for use with cold weather flying suits, Acton's Mukluk Flyer is similar to the army mukluk except its heel and sole area has been reduced to accommodate flying clothing and aircraft controls. The boot features a black rubber moulded sole and heel bottom integrally vulcanized to a polyamid black upper with eyelets and lace closure and 2.5 cm width leather strap. The ankle strap prevents boot loss during high-speed ejection. For effective cold weather protection, the Mukluk Flyer must be used in conjunction with duffle socks and insoles. It is 22 to 24 cm high and available in sizes 6 to 14.





## Aerotech International Inc.

100 Eagle Drive  
Winnipeg, Manitoba  
Canada R2R 1V5

Tel: (204) 633-1999  
Telex: 07-55272  
Fax: (204) 694-1612

In just over 16 years, Aerotech International has firmly established its reputation around the world as a leading supplier and manufacturer of portable heaters (including HERMAN NELSON heaters), canvas ducting and a complete line of aerospace and airline ground support equipment.

Aerotech's expertise, combined with innovative product design and production capability, have resulted in an impressive industrial clientele. Its special focus on military applications has attracted contracts from the Canadian Armed Forces and

armies and air forces in the U.S., Italy, Britain, Holland, Norway, Finland and many other NATO countries.

Flexible ducts are among Aerotech's most effective innovations. The company's canvas ducting — Arctic Fox and Polar Bear — adapts to almost any application. Aerotech ducts also withstand both hot and cold extremes, maintaining soft, pliable and non-cracking qualities in

extremely cold weather. Arctic Fox and Polar Bear ducting is manufactured from treated canvas to be mildew and acid resistant, waterproof and fire retardant. It is resilient, abrasion resistant, easy to install and fitted with internal, self-storing capabilities.





## C & C Custom Sleds

The company also offers a comprehensive line of heaters, including the small, ultra-efficient BT400 series, which is capable of handling the toughest cold weather jobs. Tested from pole to pole, the lightweight (only 250 kg), portable space heaters withstand temperatures to  $-54^{\circ}\text{C}$ .

Aerotech also manufactures and supplies Yukon stoves, ground power units, aircraft maintenance

hoists and other airline ground support equipment. These products are used in over 100 countries worldwide.

To service an international clientele, Aerotech employs dealers and distributors in major centres such as London, Oslo, Paris, Amsterdam, Helsinki, Lima, Chicago and Frankfurt. Manufacturing facilities are based in Winnipeg and in North

Dakota, U.S.A. The company's Winnipeg head office maintains a 24-hour telephone order line to accommodate the various time zones of its international customer base.





## Barrday Inc.

75 Moorefield Street  
P.O. Box 790  
Cambridge, Ontario  
Canada N1R 5W6

Tel: (519) 621-3620  
Telex: 069-59334  
Fax: (519) 621-4123

Barrday Inc., founded in 1958, is an industrial weaver, coater and fabricator. The company's steady growth is based on the production of specialty products that meet customer needs and custom performance specifications.

Barrday's pneumatic mattress is fabricated to meet Department of National Defence specifications, quality assured and inspected to NATO AQAP standards.

The natural rubber-coated nylon mattress provides thermal protection to  $-40^{\circ}\text{C}$  when combined with a sleeping bag that attaches to the mattress. The mattress is easily inflated by simple manipulation of the vulcanized material.





## C & C Custom Sleds

Box 315  
Radisson, Saskatchewan  
Canada S0K 3L0

Tel: (306) 827-2303

C & C Custom Sleds has successfully designed and manufactured freight sleds and toboggans to the specifications of the Canadian Department of National Defence. As specialists in the construction of wooden sleds and toboggans, C & C has developed a unique manufacturing process.

Hand built from the ground up, C & C sleds and toboggans are constructed from birch and oak, which remain flexible in cold conditions, unlike synthetic materials. To avoid corrosion, all fasteners contacting the snow are made of stainless steel. The spring-loaded tow hitch allows for a smooth ride when transporting passengers or delicate equipment. For protection and reduced friction, the runners are faced with a 1.2 cm thick plastic facing. The resulting sled or toboggan is both strong and durable.

The durability and dependability of C & C sleds and toboggans have been proven through extensive use throughout the rugged Canadian north. The most common width of the freight toboggan is 45 cm, with a payload capacity of 150 kg. per lineal metre. The toboggans can be

of any length and are available with a canvas bag. The freight sleds are usually 70 cm wide and 2, 2.5, or 3 metres in length. Payload capacity of the freight sleds is 200 kg per lineal metre. Sleds and toboggans can also be custom built to virtually any size.



*Freight sled developed for Canada's Department of National Defence.*



*Freight sled used to transport supplies in the Canadian Arctic.*



## Canadian Foremost Ltd.

1616 Meridian Road Northeast  
Calgary, Alberta  
Canada T2A 2P1

Tel: (403) 272-3322

Telex: 038-22772 FOREMOST CGY

Fax: (403) 273-8084

Canadian Foremost specializes in the design, manufacture and marketing of high-mobility all-terrain vehicles, hydraulic oilfield pumping systems, and mineral exploration drilling equipment. The company services a broad range of industries around the world, with a concentration in the energy sector.

Canadian Foremost has recently developed a vehicle for the Canadian military, commonly called DMER Dump (for Directorate of Military

Engineering Requirement). This light-duty air-droppable tracked unit for northern terrain is designed for use by military engineers when preparing initial sites for remote northern airfields.

The vehicle is fitted with a two-man cab, a three-ton dump box, snow blade, a 9 072 kg (20 000 lb.) front



*Nodwell 60 Airdrop prior to shipping to CFB Edmonton Airborne Centre.*



*Static Drop, 3.2 m (10.5 ft.).*



winch and hydraulic outlets for power tools. The self-contained pre-heating system allows cold starts in up to  $-40^{\circ}\text{C}$  temperatures, without the help of external power sources. The unit is a military variant of the company's standard Nodwell 60 Air-drop, which has been used for many

Fax: (416) 421-9084

years by seismic companies in northern regions as well as in jungle and swampy areas.

Canadian Foremost's success in the world marketplace results from attention to individual customer needs as well as maintaining the

highest quality standards for advanced equipment. More than 80 per cent of total revenues have been derived from international sales.

Canada B2Y 4M2  
Tel: (902) 468-2110  
Telex: 019-21583  
Fax: (902) 468-2030



Loading on C130 Hercules.



Rigged Platform for LVAD, 6 Parachutes.



LVAD—Low Velocity Air Delivery, 305 m (1 000 ft.).



LAPES—Low Altitude Parachute Extraction System, 1.5 m to 3 m (5 ft. to 10 ft.).

Basactarak



## The CORD Group Limited

Suite 215  
70 Neptune Crescent  
Dartmouth, Nova Scotia  
Canada B2Y 4M9

Tel: (902) 468-2116  
Telex: 019-21583  
Fax: (902) 468-2636

The CORD Group Limited was formed in 1983 to provide consulting services to the growing Canadian offshore oil and gas industry operating off Canada's east coast. CORD has successfully provided services to the offshore oil industry, as well as to other private-sector industries and to the Canadian government. With the decline of the offshore, CORD has focussed on safety-related commercial research and development services. To augment these services CORD acquired a computer consulting group in 1986.



CORD has focussed its expertise in many important areas of safety including:

- thermal evaluation of human apparel;
- evaluation and development of safety and emergency equipment;
- development of manuals, procedures and contingency plans related to safety and handling of emergencies;
- preparation of industrial safety training plans;
- co-ordination on acquisition, installation, trials, certification and training of prototype marine safety systems;
- Canadian certification testing of immersion suits, helicopter transportation suits and work suits; and

- consultation relating to the implementation of and compliance with government safety standards.

CORD also has the expertise and resources to conduct comprehensive thermal performance testing. The company's resources include:

- a multi-sectional Thermal Instrumented Manikin that is totally immersible in water;
- single-section water-filled manikins for multi-habitant shelter evaluation;
- a water-filled temperature-controlled test tank with computer-controlled wave generating capability; and
- a wind tunnel for conducting manikin tests under controlled air flow conditions.

CORD also produces manikin systems for purchase or lease.





## Dorothea Knitting Mills Limited

20 Research Road  
Toronto, Ontario  
Canada M4G 2G6

Tel: (416) 421-3773  
Telex: 06-219842 Parkhurst  
Fax: (416) 421-9084

Dorothea Knitting Mills is Canada's leading manufacturer and supplier of wool combat sweaters, berets and other headwear items, scarves and gloves. For over 60 years Dorothea has earned a reputation



Combat V-Neck Wool Sweater, Style 531, Army Beret, Style 2514.

for developing and producing the highest quality products for Canada's Armed Forces and for other armed forces around the world.

Dorothea's knitting mill, where most products are produced on computer-controlled machinery, is one of the most technologically advanced in



Wool Blend Glove Liners, Styles 1273 and 1276. Wool Blend 3-Finger Mitten, Style 1263, Men's Wool Mitten, Style 1090.

the world. The plant is totally vertically integrated, and is capable of dyeing yarn or piece goods and wet finishing all products.

Dorothea also custom designs cold weather clothing of all types to suit individual customer needs. Dorothea has become a leading choice for innovative and exceptional knitted cold weather products.



Wool Toque, Cap with Peak, Scarf and Balaclavas.



Combat Crew Wool Sweater, Style 517, Army Beret, Style 2412.



## Evin Industries Ltd.

P.O. Box 1300, Station N  
Montreal, Quebec  
Canada H2X 1L0

Tel: (514) 288-6233

Telex: 05-24616

Fax: (514) 287-1554

Evin Industries Ltd. provides unique all weather protection through its three-in-one jackets featuring the company's patented self-sizing liners.

These year-round garments have self-sizing zipper panels that permit identical fit with or without the comfortable, warm, zip-in linings. Snap-shut cummerbunds ensure cold and wind protection, and slip inside the liners and out of the way when not in use.

Evin's exclusive telescopic sleeve allows 360 degrees of free-arm movement, eliminating the restrictions so frequently imposed by multi-layered garments. This sleeve action was developed specifically for combat pilots and has proved popular with both police and civilian personnel.

Jackets are available in waist, hip and thigh lengths, all constructed of quality materials for ultimate durability, warmth and comfort in any weather condition.





## Fell-Fab International Inc.

P.O. Box 3303, Station C  
Hamilton, Ontario  
Canada L8H 7L6

Tel: (416) 560-9230  
Fax: (416) 560-9846

Fell-Fab is a privately owned company, established in 1952, that has steadily grown to 200 employees. The company's modern, 5 574 m<sup>2</sup> (60 000 sq. ft.) plant is located on 1.2 ha (3 acres).

Fell-Fab has a complete range of manual and automatic cutting, sewing, welding and gluing equipment supported by a computer-aided design and manufacture system, a 93 m<sup>2</sup> (1 000 sq. ft.) clean room, and an engineering group. The company holds 12 patents for proprietary products, works to the quality assurance requirements of AQAP1,

AQAP4, FAA, DOT and most international airlines, and is cleared to NATO Secret.

Over 60 per cent of production is exported with the assistance of six agents in six countries and two joint venture subsidiaries in the UK. Fell-Fab received a 1988 federal government Award for Excellence in Entre-

preneurship and the 1988 Chamber of Commerce Award for Business Achievement.

*Five- and 10-person cold weather tents with fire proof ring to accommodate a stove pipe.*



## Gill Ltd.

274 Jarvis Avenue  
Winnipeg, Manitoba  
Canada R2W 3A5

Tel: (204) 586-8461  
Fax: (204) 589-3883

Gill Ltd. is known across Canada as the dream merchant. Gill's sleeping bag division manufactures and supplies quality sleeping bags which are sold under the Intrepid label. Their complete line of sleeping bags is made from proven synthetics and pure goose down. The state-of-the-art synthetics used in Gill's sleeping bags include Dacron Hollofil II, Quallofil and other polyester fibres.

Gill supplies cold weather arctic sleeping bags to the Canadian government. They are engineered to exacting standards and specifications, and may be engineered to

special requirements on request. All Gill sleeping bags are designed to withstand a variety of weather conditions.





## Gerb Enterprises of Canada Inc.

310 Ross Avenue  
Winnipeg, Manitoba  
Canada R3A 0L4

Tel: (204) 943-1965  
Fax: (204) 949-1826

Gerb has been manufacturing quality men's fur hats for over 40 years and in every year of operation, sales increased substantially. The Gerb brand is known for high-quality fur, workmanship and comfort.

Gerb manufactures many styles of winter fur hats in a wide variety of furs including muskrat, beaver, wolf, coyote and dyed mouton lamb. All styles can be produced in acrylic furs. Hat linings may be of quilted nylon or cotton. All models can be ordered with snaps and eyelets to hold badges.

Gerb sells its products to many government agencies in Canada



including the Royal Canadian Mounted Police, Parks Canada, Ports Police, hydro companies, local fire departments, and city police. Gerb also sells to many uniform and regalia companies.

*Gerb's Arctic style (left) and Yukon style (right) hats have tie tops which can be untied to allow the flaps to cover the neck and ears. The Wedge officer style hat (centre) has ear flaps inside.*

## Hero Bros. Inc.

Box 160, 12-A Belvedere Road  
Hammond, Ontario  
Canada K0A 2A0

Tel: (613) 487-3433  
Fax: (613) 487-3465

Hero Bros. Inc. has been producing shelf stable survival foods such as Beef Jerky, and Pepperoni and Pemmican style Beef Jerky for domestic and international markets since 1981.

These foods have been used by Canada's Department of National Defence on manoeuvres and field operations. Hero Bros. is currently working with the Department of National Defence to incorporate their products into combat light-meal packages.

Hero Bros.' products have a high nutritional value, long shelf life, are versatile, and lightweight. The

meats can be eaten as is or used as a base for soup or stew.

Hero Bros. maintains a federally inspected plant and exports products to the United States, Ireland and Japan. The company is also seeking new export opportunities, and they custom pack products for different sized orders.

### Nutrient analysis of Hero Bros. products:

Product	Fat %	Ash %	Moisture %	Carbohydrates %	Protein %	Calories per 100 grams
Beef Jerky	9.5	8.2	29.0	2.6	50.7	299
Pepperoni	31.4	5.3	28.7	5.0	29.5	421





## Golden Spider Knitwear (1987) Inc.

4275 Metropolitan Boulevard East  
Montreal, Quebec  
Canada H1R 1Z4

Tel: (514) 722-4678

Fax: (514) 722-6284

Golden Spider Knitwear was started in 1953 as a division of Glove Knitters Inc., originally established in 1933.

Golden Spider manufactures knitwear such as pullovers and cardigans in regular and oversize. The company does custom work for Canada Post Corporation and the Canadian Department of National Defence and has made quality turtlenecks, V-neck and crew-neck sweaters in acrylic, blends and 100 per cent wool for both men and women in the Canadian Armed Forces.

The company's Glove Knitters division specializes in such products as combat liners, trigger mittens and dress cadet gloves, and has supplied the Canadian Department of National Defence and their leather glove suppliers for many years.



Combat style crew-neck sweater.



Turtleneck sweater available in acrylic, blends or 100 per cent wool.



Trigger finger mitten liner (gauntlet cuff) style no. 1000.



Black leather-palm cadet gloves style: number 305.



Glove lining (style no. 312).



## International Survival Supplies Ltd.

P.O. Box 3443, Station B  
Calgary, Alberta  
Canada T2M 4M1

Tel: (403) 239-8262

The risk to personal survival in extreme circumstances without adequate protection, particularly in adverse weather conditions, is very real. Proper survival gear and supplies can make the difference between life and death.

Since 1968, International Survival Supplies Ltd. has specialized in providing the necessary equipment and techniques to protect against

remote area emergencies. The company's clientele is drawn almost exclusively from governments, and from the aviation and oil industries. Customers are based around the world.

International Survival Supplies will custom design and assemble survival kits to meet or exceed the strictest specifications and standards. Inspection services are

offered, where each kit is inspected and repacked every three years or more frequently if desired. Every kit is sealed for easy checking between inspections, ensuring product integrity at all times.

Emergency food and equipment is available for a one-person or 16-person crew. International Survival Supplies Ltd. helps keep people alive by preparing for the worst.





International Survival Supplies also markets Cyalume light sticks which provide illumination for a variety of military applications including marking, signalling and illumination. Cyalume products come in a wide range of colours, sizes and light intensities.





## Ideal Knitwear Ltd.

Suite 201  
8955 Saint-Laurent Boulevard  
Montreal, Quebec  
Canada H2N 1M5

Tel: (514) 381-4496  
Fax: (514) 381-8792

Ideal Knitwear manufactures a complete line of knitted headwear and neckwear.

All Ideal Knitwear products are available in either all-wool or in acrylic, and have been supplied to the military for many years. Ideal Knitwear also custom designs any type of knitted hat or scarf to special requirements.

*Regular army toques.*

*Woolen scarf and neckwarmers.*



*Three-hole and single-hole balaclavas for use in extreme cold weather.*



## Outdoor Outfits Limited

372 Richmond Street West  
Toronto, Ontario  
Canada, M5V 1X6

Tel: (416) 598-4111  
Fax: (416) 598-4626

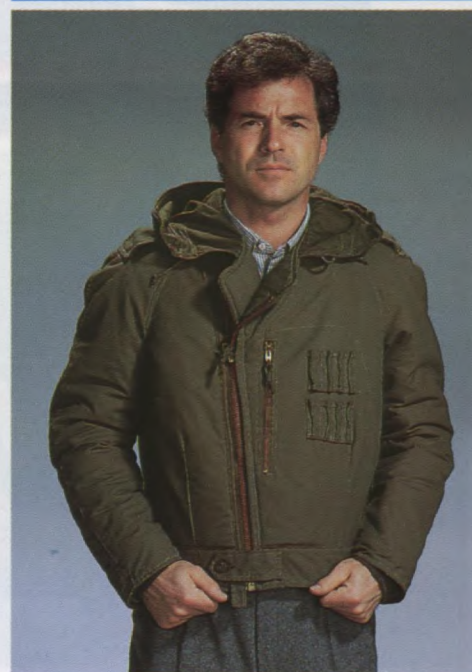
For almost 45 years, Outdoor Outfits Limited has been a leading manufacturer of uniform clothing for Canada's Department of National Defence, the Royal Canadian Mounted Police and other police forces, fire departments, post offices and security companies.

Outdoor Outfits' quality assurance department ensures compliance with military specifications and other demanding requirements. The company's quality control standards meet Canadian Department of National Defence specifications, and a DND inspector is in the company plant at all times. The produc-

tion of special purpose flight crew clothing for the Canadian Armed Forces, for example, is subject to this careful company performance assessment.

In addition to weather-proof parkas and military clothing, the company manufactures patrol jackets, top-coats, leather flight jackets and surcoats in a variety of styles and materials. Outdoor Outfits' design department is experienced in working directly with a client to accommodate special requirements for style, proportion and material.

The company has agents in the Middle East and Southeast Asia.





## Jones Leisure Products Limited

3750 North Fraser Way  
Burnaby, British Columbia  
Canada V5J 5E9

Tel: (604) 435-7561  
Fax: (604) 435-5628

Jones Leisure Products, a division of Jones Tent & Awning, has been manufacturing camping equipment, sleeping bags, tents, skiwear and cold weather parkas for many years.

The company was established in Vancouver more than 100 years ago. In fact, soldiers carried Jones "Pioneer" canvas pack sacks along with Canadian banners as far back as World War I.

Jones currently plays an active role in supplying sleeping bags, cold and wet weather gear, and speciality canvas items to the Canadian Armed Forces and to civilians.



P2044 — Men's Eldorado Parka  
shell: poly-cotton  
fill: 75% down, 25% feather



P2034 — Men's Yukon Parka  
shell: 65/35 poly-cotton  
fill: 75% down, 25% feather



P7005 — Trailblazer  
fill: 50% down, 50% feather  
shell: nylon



P2022 — Men's Down Jacket with Hood  
shell: poly-cotton blend  
fill: 75% down, 25% feather



## Irvin Industries Canada Limited

P.O. Box 280  
Fort Erie, Ontario  
Canada L2A 5M9

Tel: (416) 871-6510  
Telex: 061-5169 IRVCANADA FTE  
Fax: (416) 871-6534

Since 1925, Irvin Canada has been actively engaged in designing, developing, manufacturing and exporting high-quality military parachutes and aerospace life support equipment to the international defence market. Irvin continues in its long-term commitment to provide its customers with quality products and on-going after-sales service

for the company's complete range of military aerospace equipment.

The Canadian Armed Forces employs a variety of Irvin products in Arctic, general Search and Rescue, and Military Airborne operations. This includes a complete line of parachute products for all types of weather conditions. In 1972, a Canadian Forces team made the first live

parachute jump onto the North Pole using Irvin's high-contrast Para-rescue parachute assemblies.

The Canadian Forces began using Irvin Canada's newly developed CT-3 Tactical Gliding Parachute assembly in 1988. This is a high-performance, ram-air parachute intended to open at high altitudes (above 7 620 m (25 000 ft.) and attests to the parachute's application in extremely cold environments.



The sea SKAD survival kit being air delivered to survivors from a CP-140 Aurora (P-3 Orion) aircraft.



One of 2 inflated rafts from a SKAD drop. Survivors can be seen hauling the white survival kit aboard.



Irvin is also developing the MK-10B and MK-10C barometrically activated parachute release mechanisms. These will automatically open a parachute at a predetermined altitude and are designed to function at temperatures as low as -50°C. They are ideally suited to both regular jumps and emergency bailouts.



*FF-2 Hite Finder automatic parachute release mechanism for military freefall parachuting.*

Irvin also manufactures an extensive range of Cargo Areal Delivery parachutes and associated equipment for the airdrop of supplies and equipment. Other products include several sea rescue systems, and sea SKAD survival kits that automatically

deploy and inflate a pair of life rafts and accompanying survival equipment. Both of these products are designed for aerial delivery from low-flying aircraft.



*Artist's conception of low-altitude parachute extraction system delivering supplies and equipment during Operation*

*Morning Light in Canada's Northwest Territories, January 1978.*



*Canadian Forces on a high-altitude high-opening (HAHO) training jump with Irvin CT-3 tactical gliding parachute system.*



*Canadian Forces jumper descending under a CT-3 Canopy.*



## Kaufman Footwear

Division of William H. Kaufman Inc.

P.O. Box 9005  
410 King Street West  
Kitchener, Ontario  
Canada N2G 4J8

Tel: (519) 576-1500  
Telex: 069-55453  
Fax: (519) 742-0034

Kaufman Footwear, Canada's largest manufacturer of footwear, has crafted quality products since 1907. The company's lines now include cold weather boots, leather work boots and rubber boots, casual shoes, slippers and industrial rainwear.

The Sorel winter boot was originally designed as basic cold weather footwear with a rubber bottom to keep out the wet, and a felt liner to keep in the warmth. Its success and acceptance have been phenomenal — over 12 million pairs of Sorels have been sold in 22 countries.

Available with various types of uppers, outsoles, lacings and leathers, Sorels are worn for cold weather protection everywhere, including on expeditions to the Arctic and Antarctic.

Kaufman's standards of excellence for materials and construction have secured contracts for the supply of ecological warfare boots and combat overshoes for the Canadian Department of National Defence.

### Mark X ▶

Full grain leather upper with reinforcing back stay and pull-on loop, full bellows tongue to keep out snow and debris. D-ring and speed hook closure system. One centimetre (3/8 in.) removable wool/felt liner (75% wool, 25% acetate). Vulcanized-construction, waterproof, all natural rubber bottom with full bead bind and Vibram Montagnabloc outsole. Full sizes 6 to 13. Available in green. Replacement liners available. Sorel Comfort rated to -40°C (-40°F).



### Glacier ▲

"The warmest nylon top Sorel ever made" — rugged stormtrooper styling — the 1000 denier Cordura nylon upper is fully polyurethane backed and insulated and features a draw-string top line and 3 D-ring ankle lace system. The vulcanized-construction, waterproof, natural rubber bottom has a sure-grip aero-trac outsole and heel. For added insulation the rubber bottom has a 1.3 cm (1/2 in.) poly/felt midsole built in and the entire inside of the bottom is wrapped in 1 cm (3/8 in.) open cell foam rubber. The 1 cm (3/8 in.) wool felt liner is removable for drying. Full sizes 6 to 13. Available in white. Replacement liners available. Sorel Comfort rated to -64°C (-85°F).



### Defender ▲

Jumbo last to fit over all combat boots. Vulcanized-construction, all natural rubber, completely waterproof: full bellows tongue permits easy entry and keeps out debris and water; reinforced toe, front stay and back stay; 4 steel clasp hook and ladder, buckle system; fleece lined for warmth, bar-tread outsole. Full sizes 6 to 13. Available in regular last as well.



### Dominator ▲

"The Ultimate in warmth" — full grain leather upper; a full bellows tongue allows easy entry and keeps out snow and debris; reinforcing leather back stay with pull-on loop. NATO stay tight speed lace closure system. 1 cm (3/8 in.) wool/poly felt removable liner with matching acrylic snow cuff. The vulcanized-construction, waterproof, natural rubber bottom features a full bead bind to prevent sticks and twigs from getting under the leather upper and tearing the stitching. For extra warmth the bottom has a built in 1.3 cm (1/2 in.) poly/felt midsole and the entire inside of the bottom is wrapped in 1 cm (3/8 in.) open cell foam rubber. Super traction lug sole and heel. Full sizes 6 to 13. Available in black, brown and green. Replacement liners available. Sorel Comfort rated to -64°C (-85°F).



# Magic Pantry Foods Inc.

26 Burford Road  
Hamilton, Ontario  
Canada L8E 3C7

Tel: (416) 561-5322  
Fax: (416) 561-8185

Magic Pantry Foods has supplied military field rations to the armed forces of Canada and the U.S. for many years.

The company produces a variety of food products, packed to government specifications in unique vacuum-sealed retort pouches. Constructed of plastic and aluminum, these laminated pouches keep food items fresh for many years under most field conditions.

Since controlled storage and specialized preparation are not required for the retort pouch, field personnel can enjoy quick, satisfying and nutritious meals in most environments.

Magic Pantry Foods is the only major Canadian retail supplier of retort pouch food products in North America.

The company has recently developed a plastic retort tray package with a two-year shelf life, that has many advantages relative to the pouch.



Heavy Weight Thermal wear made of 100% cotton for comfort, warmth and durability. Available in the following styles: long-sleeved (unisex), long and short sleeve shirt, and drawers in sizes small to 4X.



## Norseman Shelters

A Division of North West Tent & Awning Ltd.

14545-115 Avenue

Edmonton, Alberta

Canada T5M 3B8

Tel: (403) 451-6828

Telex: 037-3707

Fax: (403) 452-2334

Norseman Shelters manufactures portable buildings made with steel frame and fabric cover and designed for fast, easy erection by unskilled personnel. Norseman's pin and pocket assembly system requires no bolts, allows personnel to keep their gloves on, and eliminates the need for special tools. Both the frame and fabric dismantle into easy-to-handle sections for transportation by air and other methods.

Norseman shelters are found in Antarctica, Alaska, Siberia, the Canadian Arctic, Africa, Indonesia and Britain. The company can construct buildings of any size and design them to meet any snow and wind-load requirements.

Norseman's capability extends to the construction of buildings that telescope or require movement by crane and/or skidding. Applications

vary and include tent camps for barracks, shop or warehouse facilities, equipment storage and repair, and aircraft and helicopter hangars.



...ent sticks and twigs from getting under the leather upper and tearing the stitch-  
ing. For extra warmth the steel sole has a built-in 1.3 cm (1/2 in.) polyfelt insulator and the entire inside of the bottom is wrapped in 1 cm (3/8 in.) joplin cell foam rubber. Super traction lug sole and heel. Full sizes 6 to 12. Available in black, brown and green. Replacement liners available. Sure Comfort rated to -64°C (-75°F).



## Nova Scotia Textiles, Limited

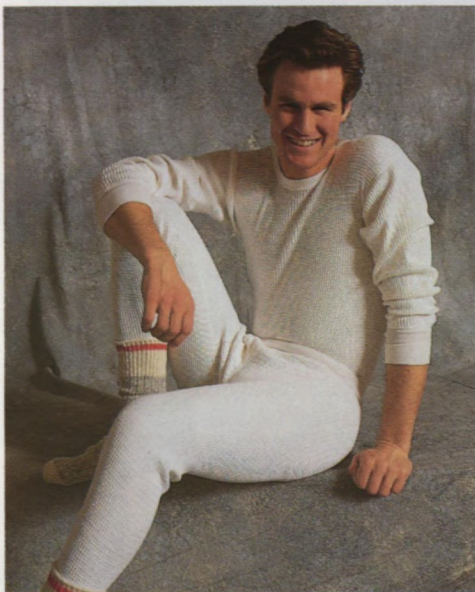
P.O. Box 970  
368 Nesbitt Street  
Windsor, Nova Scotia  
Canada B0N 2T0

Tel: (902) 798-2269  
Fax: (902) 798-8789

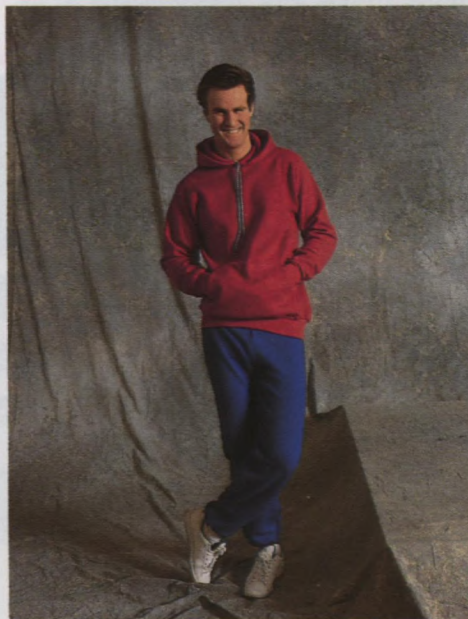
Nova Scotia Textiles was established in 1922 to supply the Canadian market with three product lines:

- a specialized and extensive line of high-quality winter underwear in cotton, wool and blends;
- a complete range of "Four-End" fleece sweaterwear with high cotton content; and
- a line of briefs, tops and T-shirts, best known for their weight and the quality of their seams.

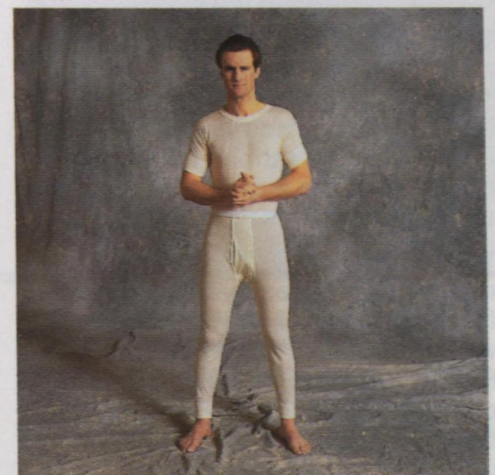
Nova Scotia Textiles' products are designed for outdoor sporting activities, logging and farming. The company provides clothing to Canada's Armed Forces on a regular basis.



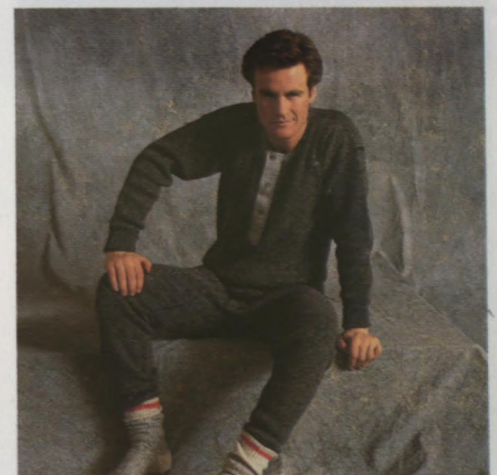
Heavy Weight Thermal wear made of 100% cotton for comfort, warmth and absorbency. Available in the following styles: combination (union suit), long and short sleeve shirt, and drawers in sizes small to 4X.



Four-thread Fleece Sweatwear in 87% cotton and 13% polyester. Available in 14 colours and sizes, from small to 4X, and in a variety of styles including a crew neck or hooded shirt, pants, or shorts. Material is tubular knit with no side seams and flat seaming on the crew neck.



Kroy Wool (90% wool, 10% nylon), soft, lightweight jersey knit underwear. Kroy treatment makes the material shrink-resistant. Available in short sleeve, long sleeve and athletic top style shirts, and drawers all sized generously.



Heavy rib winter underwear made of 100% New Zealand lambswool. This rugged heavy weight survival wear is available in the following styles: button front placket shirt, long sleeve shirt, drawers and combination (union shirt).



## Les Produits Freddy Inc.

Division of Domfoods Star Inc.  
4800 Pinard Boulevard  
Saint-Hyacinthe, Quebec  
Canada J2S 8E1

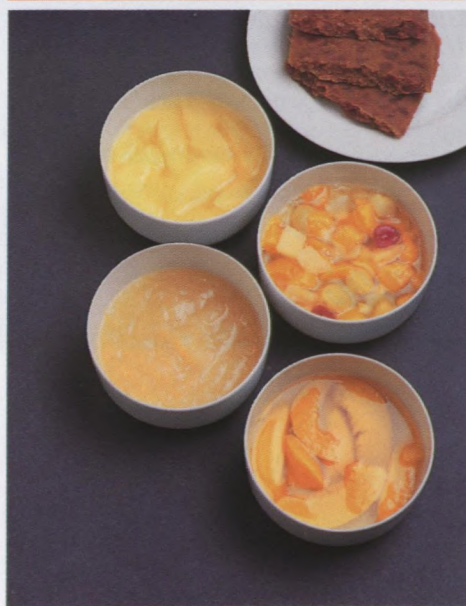
Tel: (514) 796-3210  
Telex: 05-830570  
Fax: (514) 796-3406

Les Produits Freddy has used retort pouch technology to provide armed forces with military field rations since 1978. The company has been supplying field rations to the Canadian, Bahamian and Gulf countries' armed forces for several years.

The food comes in a wide variety of recipes that are enjoyed by armed forces personnel, as well as by survival groups and campers. The Freddy kitchens can also prepare custom recipes for varied international tastes and needs. The products have been designed specifically for outdoor use and the vacuum-sealed aluminium pouches that the food is stored in ensure freshness for up to three years under most field conditions.

Perhaps the most important characteristics of Freddy's products are their good taste and high nutritional value. These, and the company's

commitment to high quality and service, have made Les Produits Freddy known and respected around the world.





## Raber Glove Mfg. Co. Ltd.

560 McDermot Avenue  
Winnipeg, Manitoba  
Canada R3A 0C1

Tel: (204) 786-2469  
Fax: (204) 775-7846

For over 40 years, Raber Glove has manufactured gloves, mitts and Arctic-label wear for Canada's Defence Forces and it has produced the gauntlets worn by members of the Royal Canadian Mounted Police Musical Ride for more than 20 years. The company is capable of producing virtually any type of glove.



**Shooting Mitt ▲**  
This down-filled black horsehide mitt, with elasticized cuff and lining of down-proof nylon fabric, has for shooting purposes a palm opening with velcro enclosure. Available in small, medium and large.



**Men's Wool Frieze Duffle Sock ▲**  
Designed to be worn inside Arctic-type boots, these socks are made of white, wool frieze, moth-proof, duffle cloth of 80 per cent virgin wool and 20 per cent new viscose rayon. The socks are 305 mm (12 in.) high with heels reinforced with white nylon. A pair of socks actually consists of four socks, one pair inside the other, tacked at the top. A care instruction label is sewn into each pair. Available in sizes 6 to 14.

**Men's Winter Mitten Shell Arctic ▶**  
This off-white, tanned horsehide shell has a curved hand pattern for greater comfort and warmth. A wool cheek warmer on the back of the hand helps to prevent frostbite to facial skin. The cuff is white nylon with cotton duck reinforcement, plus six ribs of leather for body. Domed top fasteners lock it securely to the removable Arctic liner, and a top-of-the-cuff strap allows adjustment to suit the wearer. Available in small, medium, large and extra large.



**Liner for Arctic Mitt ▲**  
This liner is made to fit the Arctic horsehide shell. Its natural curved hand pattern and layered construction provide comfort and warmth. The hand portion is nylon twill quilted with thermal insulation and spun cotton faced with wool serge. The hand portion is nylon twill quilted with thermal insulation and spun cotton faced with wool serge. Dome fasteners at the top attach it to the horsehide shell. Available in small, medium, large and extra large.





## Scanvent Heating and Ventilation Ltd.

7625 Kimbel Street  
Units 18 and 19  
Mississauga, Ontario  
Canada L5S 1A9

Tel: (416) 671-3641  
Telex: 06-968766  
Fax: (416) 671-3648

Recent conflict experiences in cold climates have demonstrated clearly the need for powerful and dependable heating systems. To meet this need, Scanvent Heating and Ventilation Ltd. has developed the Vacan Mobile heater which specializes in mobile heating systems for all applications.

The Vacan Heater is a new and unique heating system, designed specifically to operate efficiently in extremely cold conditions. It provides large capacity and is simple to handle and to connect. The Vacan Heater uses a sophisticated system

of heat distribution to provide the correct temperature throughout the heated area.

The Vacan Heater has been designed for use in tents, barracks, field hospitals, aircraft, vehicles





135  
Tel:  
Canada  
Tel:  
Fax:

1975 Russel Way  
West Vancouver, British Columbia  
Canada V7V 3R3  
Tel: (604) 270-4455

and large enclosures. It will start in temperatures as low as  $-40^{\circ}\text{C}$ , and will operate at  $-60^{\circ}\text{C}$ . It employs a modular design in order that its individual components can be disassembled and replaced quickly. The heater requires only simple maintenance during routine field operation. The heater also has a number

of other features that make it easy to transport and use and safe to operate.

The Vacan system distributes heat using a system of hoses that direct the heat to suit the shape of the enclosure. The heat is released through openings into the area

where it is needed. This type of heat distribution prevents extremes of hot or cold and maintains uniform temperatures — a feature that is particularly important in field hospitals.





## Sea Otter Thermal Wear Mfg. Ltd.

1975 Russet Way  
West Vancouver, British Columbia  
Canada V7V 3B3

Tel: (604) 270-4455

Sea Otter Thermal Wear manufactures the oldest approved survival suit in Canada. Over 10 000 Sea Wolf immersion suits have been sold internationally.

All suits are made from a neoprene compound that provides excellent flexibility in extremely cold conditions. The Sea Wolf suit is made of 5-mm fire-retardant XA4 neoprene with international orange exterior. Designed to be donned in less than 60 seconds, it surpasses Coast Guard heat retention specifications and all buoyancy requirements.

Each suit is fitted with a signal whistle. Optional equipment

includes a helicopter lift belt, emergency water-activated rescue locator light, radio locator beacon and rescue flares. Boots have non-skid soles.

The Sea Wolf has received approval from the Canadian and United States Coast Guard, and from the Norwegian Maritime Directorate. The suit also meets IMO and SOLAS specifications.

Sea Otter has the capability to manufacture any special-need garment in neoprene for marine and military use, including wet and dry diving suits and rainwear.



Working/deck immersion suit

## Stacey Brothers

Division of Ault Foods Limited  
100 St. George Street  
Mitchell, Ontario  
Canada N0K 1N0

Tel: (519) 348-8414

Telex: 069-55105

Fax: (519) 348-9793

Stacey Brothers produces lightweight, easy-to-store and carry tubes containing a variety of foods. The tubes have been used in both arctic and tropical conditions. The company has been providing the Canadian Armed Forces with these tubes for 11 years.

Stacey Brothers' tubes are ideally suited for ration and survival packs. They are compact, have a long storage life and require no refrigeration. The containers are sanitary, unbreakable and easy-to-open and the products in them remain fresh for two weeks after opening.

Stacey Brothers offers a comprehensive selection of spreads, condiments, jams and sweets. Requests can be filled for other foods as well.





## Stanfield's Limited (Marketing Office)

136 Tycos Drive  
Toronto, Ontario  
Canada M6B 1W8

Tel: (416) 787-0203  
Fax: (416) 787-7127

Stanfield's Limited has been manufacturing all types of underwear in Canada since 1856 — longer than any other company. Their unshrinkable wool combination underwear has been providing warmth since the time of the gold miners on the Yukon Klondike Trail in 1898.

Today, Stanfield's manufactures winter underwear in a variety of fibres and weights to suit all activity levels and environmental conditions. Stanfield's garments are generously sized with a long body length that stays tucked in, and gussets in the thighs for proper fit.

The following products are most suited to military needs because of their durability, warmth and ease of care.

**Light Weight Polypropylene**  
Ultralight soft rib knit Polar-therm polypropylene transfers moisture away from the body while insulating. Perspiration is drawn through the porous fabric to an outer layer where it can be absorbed or evaporated, leaving the wearer warm and dry. This material is recommended for strenuous activities including skiing and running.

**Medium Weight Polypropylene**  
Interlock polypropylene has all the benefits of lightweight polypropylene with the addition of a thicker layer of insulation that provides extra warmth in extremely cold weather. This material is recommended for skiing, backpacking, camping, white water rafting and similar activities.

**2-Layer Polypropylene/Wool**  
This two-layer combination of fabrics is recommended for strenuous activity in the most extreme weather conditions. The outer layer is 50 per cent wool and 50 per cent polyester with an inner layer of 100 per cent polypropylene. The inner polypropylene layer keeps the wearer warm and dry by allowing the transfer of perspiration away from the skin. The high wool content of the outer layer keeps the wearer extremely warm. This underwear is Stan-Knit™ to keep shrinkage to a minimum and has the stretchability needed for active use.

### 100 Percent Combed Cotton Turtlenecks

Stanfield's 100 per cent cotton turtlenecks are a great ally when fighting the cold. They feature extra-long body and sleeve lengths that will not pull out or ride up, spandex in the neck and cuffs to provide a snug fit, and an extra-long roll neck that can be rolled up to protect the face. Zip-front models can be opened or closed as activity levels and environmental conditions change.





## Supreme/Mirro Company

A Division of Newell Industries Canada Inc.  
915 Sandy Beach Road  
Pickering, Ontario  
Canada L1W 1Z5

Tel: (416) 839-8031  
Fax: (416) 839-0049

Supreme/Mirro is a metal fabricating firm that specializes in deep drawing and heavy spinning of aluminum, stainless steel and coated steel products.



▲ Field cook set, number 15996, contains 3-quart boiler and smaller snow melting pot. The lid is non-stick coated and serves as fry pan.

▶ Aluminum pressure cooker, number 603 MCF, has a 5.7-litre (5-quart) capacity, fixed pressure release valve. Recommended for use with the 5- to 10-person cook set.



▲ Aluminum cook set, 5- to 10-person, number 15994, consists of 4.7-, 6.8- and 13.7-litre (3.5-, 6- and 12-quart) pots with covers, coffee pot with cover, five dishes, two handles (covers may be used as fry pans).



▲ Presto pressure cooker for cooking, canning and sterilizing. Available in two sizes: 11-litre (10-quart) and 18-litre (16-quart).



## Survival Systems International

Woodside Ocean Industries Park  
110 Mount Hope Avenue  
Dartmouth, Nova Scotia  
Canada B2Y 4K9

Tel: (902) 466-2233/465-3888  
Telex: 019-21583  
Fax: (902) 466-2929

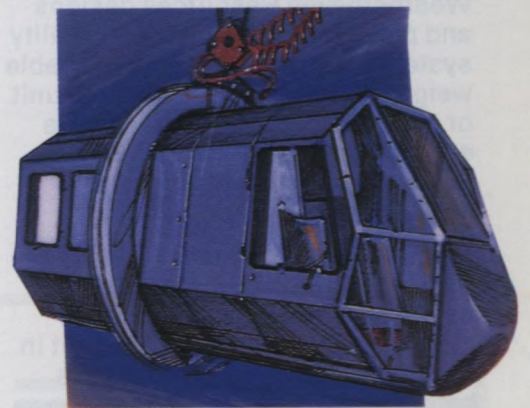
Survival Systems International, a subsidiary of the National Safety Council of Australia, has achieved an international reputation for its ability to provide underwater disorientation escape training programs that enable military or civilian personnel to successfully deal with aircraft ditching emergencies. The company offers a wide range of quality training, consulting and emergency services.

Survival Systems has recently added a new product with their development of METS — a state-of-the-art Modular Egress Training Simulator. The applications and configurations of METS are unlimited and will allow clients to customize underwater escape training to be aircraft type, role- and task-specific.

Modules can be designed to simulate a variety of aircraft and amphibious vehicles. The modular configurations allow complete flexibility, satisfying a host of training, test and evaluation requirements while offering "true" simulation.

METS, with its integrated system, is completely transportable. Survival Systems can set up the training program on location using any flat 20 m x 25 m surface (50 ft. x 70 ft.). Set-up requires approximately 72 hours

and the availability of a mobile 10-ton crane. No major civil earthworks or special services are required. The integrated METS system is available for lease or purchase to military clients.



## Western Fibres Limited

8399 Ontario Street  
Vancouver, British Columbia  
Canada V5X 3E8

Tel: (604) 321-1285  
Fax: (604) 321-4891

Western Fibres Limited has been a leader in synthetic fibre technology for over 35 years. The company manufactures a wide variety of specialized and custom products including fibre batting, bed linen items, quilted products, sportswear, NOMEX fibre-retardant flight suits, custom designed garments and a complete line of disposable pillows, blankets and sleeping bags.

Western Fibres specializes in a complete sleeping bag line, including the Arctic Sport extreme cold weather sleeping bag. Sleeping bags for survival kits, as well as small backpack, mummy and extreme cold weather bags are available.

The company also handles special requests.





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## Weatherhaven Resources Ltd.

1975 Triumph Street  
Vancouver, British Columbia  
Canada V5L 1K6

Tel: (604) 254-9022  
Telex: 04-55551 ECOCAN VCR  
Fax: (604) 254-6676

Weatherhaven Resources designs and produces structures and facility systems with the least transportable weight and volume possible per unit or erected space. All products are engineered to withstand the greatest anticipated environmental stresses.

The company's expertise is based on a recognition of the needs in remote and often hostile environments, and on direct involvement in the Arctic and in Antarctica. This hands-on experience with government, defence, research teams, expeditions and the resource industry has enabled the company's engineers to create various time-proven shelter and camp facility designs with maximum performance capabilities.



*Seismic Camp in Greenland.*



*80° south latitude, Antarctica.*



*Weatherhaven "Endurance" in use on a ski trip to the South Pole in 1988-89.*



*Second line insulated maintenance module for the Department of National Defence.*



## Woods Bag and Canvas

Division of Woods Canada Limited  
401 Logan Avenue  
Toronto, Ontario  
Canada M4M 2P2

Tel: (416) 465-2403  
Fax: (416) 465-2310

Woods has been Canada's foremost manufacturer and distributor of sleeping bags, tents, backpacks and outerwear since 1885. Woods has supplied down-filled sleeping bags, prospector-style tents, backpacks and outerwear to armed forces in Canada, the United States and other countries. Many of these products have been purchased specifically for arctic conditions.

Woods' technical expertise and reputation for quality have created some of the world's finest cold weather equipment. Woods' products have been used extensively in many rugged and harsh settings, including the 1982 Canadian Everest expedition.

Woods can also design items to requested specifications.



Woods manufactures lightweight nylon dome tents and larger family tents. Woods also manufactures tents made out of cotton canvas. All tents are treated to meet CPAI-84 standards for flame retardancy.



The 5620 Arctic Parka and 8620 Arctic Pants team up to make a versatile and warm outfit for cold weather conditions.

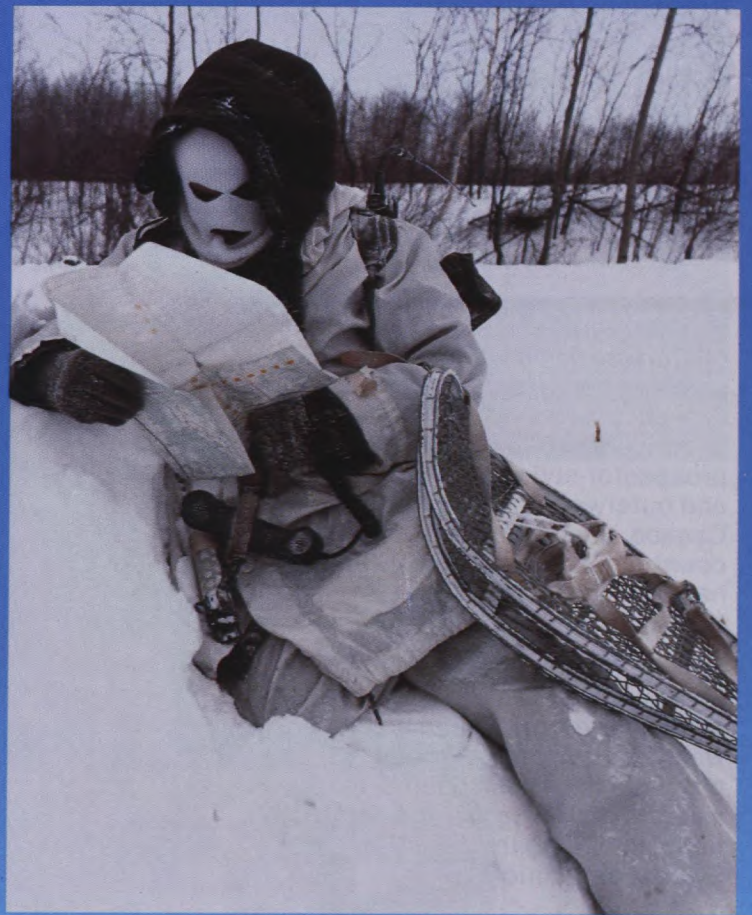


Woods prospector-style wall tents are in active industrial and military use in the Canadian North and can withstand constant set-up periods of two to three years.



Woods is a major supplier of Arctic-use, down-filled sleeping bags to Canadian and other armed forces. Woods regular line of sleeping bags includes the Arctic 5 STAR rated at  $-40^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$ ). It measures a large  $109 \times 229$  cm ( $43 \times 90$  in.) and contains two detachable bags of 75% duckdown/25% feather fill. Woods also manufactures a full line of summer and fall weight sleeping bags.







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C & C Custom Sleds

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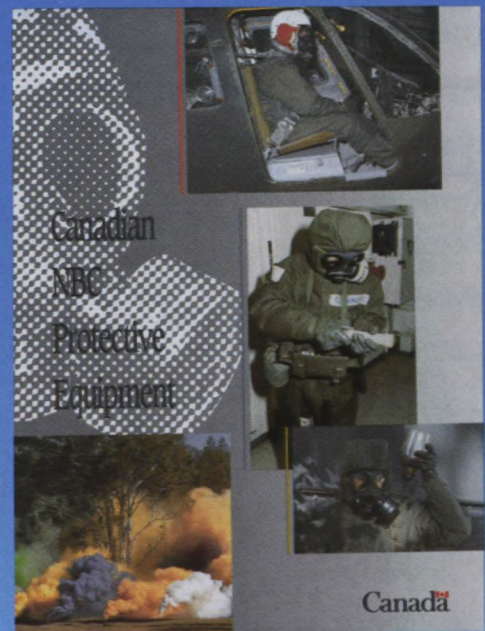
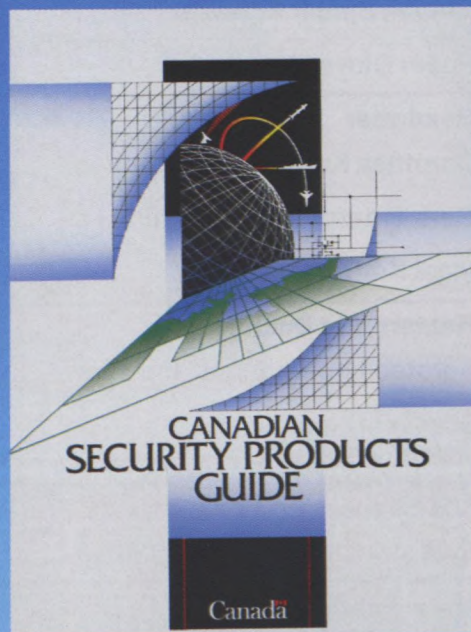
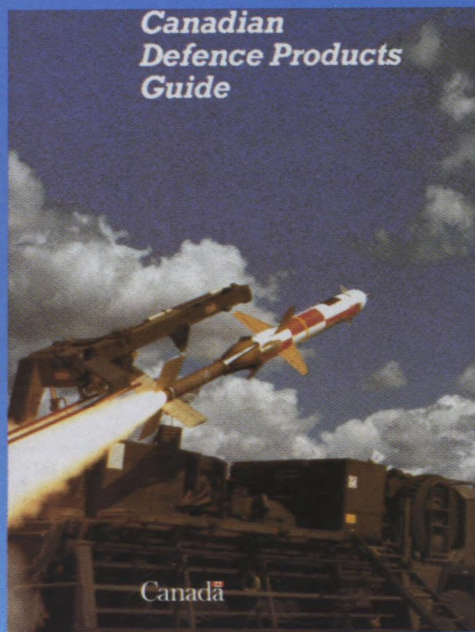
Irvin Industries Canada Limited

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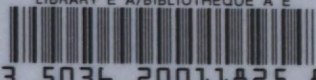
**Other publications available:**

*Canadian Defence Products Guide*  
*Canadian Security Products Guide*  
*Canadian NBC Protective Equipment*

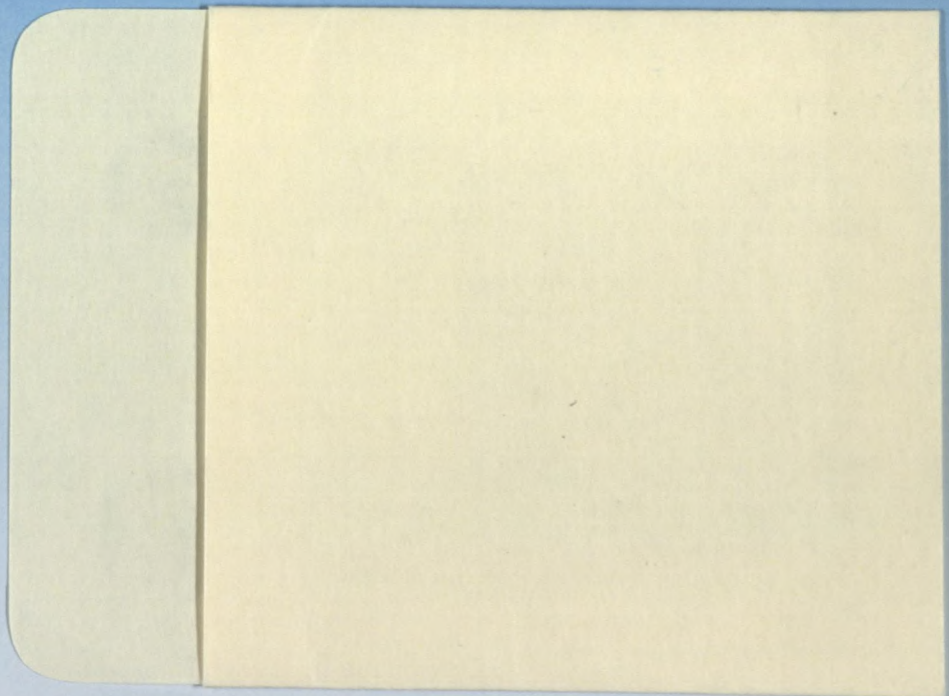




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For further information on the  
Canadian Cold Weather Clothing  
and Equipment Guide please  
contact:

**Defence Programs and Advanced  
Technology Bureau**

Department of External Affairs  
Lester B. Pearson Building  
125 Sussex Drive  
Ottawa, Ontario  
Canada K1A 0G2

*or your nearest Canadian embassy  
or trade office*

