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RESEARCH COUNCIL
CANADA

and cabinets. Exports of wood and plastic windows and doors have increased more than 186 percent over the past five years. Canadian-manufactured kitchen cabinets also enjoy a worldwide reputation for quality, design and finish as well as excellent export growth capacity.

Canada is recognized for its heating system technologies, including thermal energy conservation. Its leading-edge heat recovery ventilators and air-exchange technology reflect the high priority the Canadian industry places on air quality. A Canadian breakthrough in air-flow technology and temperature and moisture control is the seamless house-wrap sheeting membrane.

Canada excels in construction and building materials ranging from trusses and insulated thin-brick panel-cladding materials to aluminum and vinyl cladding. Canadian scientists have developed innovative technologies in masonry veneer and asphalt roof shingling as well as high-density calcium silicate bricks.

Canadian companies have developed outstanding production systems for fast-formed concrete foundations. Shotcrete and other construction and restoration techniques such as dry-stacked concrete block-wall systems exemplify Canada's leading position in the use of concrete. Canada also leads the way in tilt-up concrete construction, curtain-wall construction technologies, and colour-coated steel production as well as the reconstitution of structural wood to form the highest-strength and best-quality composite materials.



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FORESTRY

With some 240 million hectares of commercial forests, Canada is home to some of the world's finest softwoods and hardwoods, including the world's second-largest commercial softwood forest. This fine resource base, combined with a highly skilled workforce, advanced technology and proximity to international markets, gives Canadian forest products a significant advantage in the world marketplace.

Canada is the world's largest exporter of forest products. In 1998, industry shipments totalled \$58 billion, three fifths of which were exported to markets around the world. Principal exports include high-quality primary products such as market pulp, newsprint, softwood lumber and wood-based panel products. The production and export of value-added products such as paper packaging, stationery and business papers, wood windows, doors, mouldings and furniture as well as wood building products are high-growth areas.

Two key groups comprise Canada's forestry sector: paper and allied industries, and wood industries, with most of the country's major forest firms producing both paper and wood products. Mills that produce commodity pulp and paper and wood products tend to be world-scale operations with integrated activities ranging from silviculture and harvesting to manufacturing, while producers of value-added products tend to be smaller operations.

Over its 200-year history, the Canadian forestry sector has evolved into a world-class, technologically advanced industry and a leader in sustainable forestation techniques. As well, a new Canadian standard has been developed for the certification of sustainable forest management.

Three internationally competitive forest products research institutes have been established in Canada: the Pulp and Paper Research Institute of Canada, the Forest Engineering and Research Institute of Canada, and Forintek Canada Corporation. These institutes work collaboratively with industry and government to address technology, product innovation and environmental issues. Strong co-operation between industry and government over the last decade has resulted in the development of world-class technologies, especially in paper recycling. For example, the closed-loop technology has revolutionized the paper industry around the globe.

Canada's forest product companies have made significant investments in capacity-increasing manufacturing and environmental technologies, resulting in high-quality, cost-competitive products that respect the sensitive ecological balance of forest resources.

