



# PART 1 - INTRODUCTION

## 1.01.1 A Corporate Profile

The IKO group of companies is a family-run business, engaged in the manufacture and sale of asphalt roofing materials.

The company has its origins in 1905 in Neuberen, Germany where its first plant was located. This operation continued until World War II. In 1950, IKO began construction of a roofing plant at Calgary, Alberta, which started manufacturing asphalt roofing materials in 1951. Later in the decade, a new facility was constructed at Brampton, Ontario, to serve Eastern Canadian markets. During the 1970's, IKO constructed a plant at Ham, Belgium to serve the Northwest European demand for varying shingle styles as well as modified bitumen membranes.

Due to the increasing need for asphalt roofing materials, and to take advantage of export opportunities, IKO production capacities at Calgary and Brampton increased, and another modern plant was brought on line at Hawkesbury, Ontario. In Calgary, a major fibreboard plant was added to produce insulating sheathing and roof insulation for Western Canadian and export markets.

IKO acquired three asphalt roofing production facilities in the United States: Wilmington, Delaware; Franklin, Ohio; and Chicago, Illinois, as well as two plants in Canada located in Winnipeg, Manitoba, and Toronto, Ontario. The Brampton new state-of-the-art membrane plant is the only plant in Canada producing both APP and SBS modified roofing membranes. In 1992, IKO acquired the assets of Meple, a modified membrane manufacturer located in France. In mid-1998, IKO opened its newest facility in Sumas, Washington. This high-efficiency plant manufactures APP modified bitumen membranes and SBS modified bitumen membranes, as well as laminated and three-tab shingles. In March 2000, IKO acquired Ruberoid, a commercial roofing products manufacturer and supplier in Europe. Facilities include three plants in the U.K., two in Belgium, two in Holland and operations in Ireland. As part of its growing commitment to the commercial roofing business, IKO opened a polyisocyanurate insulation plant in Brampton, Ontario. In 2002, IKO started producing a wide range of waterproofing membranes on a new line in Brampton.

The IKO Research Laboratory located in Brampton, besides serving as Quality Control Headquarters for all IKO manufacturing facilities, is also constantly engaged in researching new and improved production methods. To ensure top quality raw materials, IKO produces its own dry felt in two modern felt mills using a process unique to IKO. Being Canada's only fully integrated roofing manufacturer, IKO processes its own asphalt, crushes its own mineral stabilizer and has recently added roofing granule and high density rock aggregate plants in Madoc, Ontario, and Ashcroft, British Columbia.

Among many innovations over the past 50 years, IKO developed and introduced the metric shingle which has become the industry standard in Canada and in many parts of the U.S. locations. IKO pioneered the introduction of glass fiber reinforced shingles in Canada, and was the first Canadian manufacturer of laminated shingles. Also, IKO was the first to provide an asphalt shingle warranty in Canada for the protection of consumers. Canada is the world's largest exporter of asphalt shingles, and IKO accounts for over 75% of this volume, shipping to many countries worldwide.

IKO's complete product line includes fibreboard sheathing and roof insulation, asphalt shingles, rolled roofing, saturated felts and roofing asphalt, as well as modified bitumen membranes, air/vapour barriers and waterproofing membranes. IKO employees total over 1,000 people throughout our worldwide locations.





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## 1.02.1 Air/Vapour Barrier and Waterproofing Products

IKO AquaBarrier AVB, IKO AquaBarrier FP, IKO AquaBarrier TG membranes are key components in air/vapour barrier and waterproofing systems. IKO AquaBarrier AVB is a self-adhesive, cold-applied, SBS modified composite sheet membrane designed to act as an air and vapour barrier in a wall system. IKO AquaBarrier FP is a self-adhesive, cold-applied, SBS modified composite sheet membrane designed to act as the primary waterproofing in a building envelope system. IKO AquaBarrier TG are torch applied SBS membranes designed for use as either the air/vapour barrier or waterproofing in building systems. All IKO air/vapour barrier and waterproofing membranes are engineered to meet, or exceed, industry standards for high performance construction membranes.

IKO integrates the time-proven waterproofing characteristics of premium grades of asphalt with state-of-the-art polymer technology. The results are modified bitumen and modified rubber formulations with vastly superior physical properties and performance characteristics. These membranes exhibit enhanced low temperature flexibility, elongation, moisture and vapour resistance. The IKO AquaBarrier AVB and FP membranes are reinforced with a 0.1 mm (4 mil) high density, cross-laminated polyethylene sheet. IKO AquaBarrier TG membrane is reinforced with 95g fiberglass reinforcement to add strength and additional performance characteristics.

The results of this combination of history and technology are self-evident; modified bitumen membranes with superior resistance to aging and weathering. Membranes that are strong, yet flexible enough to accommodate thermal and mechanical stresses. IKO AquaBarrier air/vapour barrier and waterproofing membranes have been engineered and manufactured to address a wide variety of design and application criteria that are outlined in the specifications found in this manual.

## 1.03.1 Policies

The specifications in this manual are based on more than 50 years of experience in the roofing industry and contain the most current information regarding the application of IKO AquaBarrier air/vapour barrier and waterproofing systems. These specifications are provided as general guidelines to aid architects, engineers, installation professionals, and building owners in the design and application of IKO building envelope systems.

IKO manufactures and sells air/vapour barrier and waterproofing materials. IKO does not practice architecture nor engineering. Therefore, the design responsibility remains with the architect, engineer, construction professional, or building owner. The drawings and details herein are provided for guidance purposes. These guidelines should not be considered as being all-inclusive, nor should they be construed as a substitute for good application and/or design practices.

IKO, as a manufacturer of building envelope materials, is not involved in either the design or construction of buildings. Under no circumstances shall IKO accept responsibility for the performance of its products when damage to the building envelope system is caused by deficiencies in the structural materials or the workmanship to assemble the materials. IKO neither manufactures nor installs substrates and is not responsible for their performance.



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Under no circumstances shall IKO have any liability for expenses arising out of, or associated with the pre-existing presence of asbestos-containing, or other allegedly hazardous materials. Nor shall IKO have any liability for material upon which new IKO building envelope system components are being applied.

Since the application contractor is the only party with control over the quality of workmanship during installation of the building envelope system components, the application contractor shall assume sole responsibility for the quality of application of the system.

IKO Limited Material Warranties are available only when the IKO building envelope system is installed in accordance with the specifications and details outlined in this manual. IKO reserves the right to not issue a Limited Material Warranty on projects where job site conditions, or application procedures, do not meet published specifications.

IKO will not write letters regarding information that is published in this specification manual or other IKO product literature. IKO will not give verbal approval regarding plans, specifications, details, applications, performance, or accept any responsibility for any IKO AquaBarrier membrane system as a substitute for its Limited Material Warranty. IKO is not responsible for consequential damages in the event of building envelope system failure as IKO has no control over building occupancy, use, content, or protection.

As part of its ongoing effort to improve the performance of its products and systems, IKO reserves the right to change or modify, without prior notice, any of the products, application specifications, requirements, or policies contained in this manual. This manual supersedes all previous manuals. In addition, IKO will periodically publish Technical Bulletins to update technical specifications. Technical Bulletins, when published, supersede the technical specifications. These Technical Bulletins should be filed in the appropriate section of this manual to ensure the availability of updated information. Visit our website at [iko.com](http://iko.com) for additional information.