



APEX 
aluminum extrusions



Our Vision

To continually improve our processes, quality and equipment to ensure that we are the aluminum extrusion supplier of choice because we provide superior value to our customers.

Our Values

- ❖ Trust, respect, integrity and ethics in everything we do
- ❖ Customer centric
- ❖ Quality and improvement focused

The Beginning

We founded Apex Aluminum Extrusions in 2009, responding to the regional aluminum market need for quality service. It all started when Apex's sister company, Vitrum Glass Group, a leading glass fabricator in Western Canada, realized the potential synergy of supplying aluminum extrusions to their existing customer base and filling a regional demand for extruded aluminum products. Production began in 2011 and Apex Aluminum was soon delivering product throughout Western Canada.

Although we are a new company, we have drawn on substantial resources of valuable experience accumulated over the years. The company's senior management come from some of the oldest and best-known aluminum extrusion companies in North America, and all of our senior staff are experts in extrusion techniques and the aluminum market.

With a state-of-the-art 170,000 square foot aluminum extrusion facility in Langley, British Columbia, Apex Aluminum is the most technologically advanced aluminum extruder in North America.

New Company, New Technology, New Ideas

Apex Aluminum Extrusions was built from the ground up with quality and innovation in mind. From the design of our facility, the selection of our equipment and the hiring of our workforce all the way to the final packaging and distribution of our products, nothing is done without consideration for quality, added value and exceptional lead times.

We believe in the extensive use of technology and in ongoing development, continuing to invest in the most efficient machinery for the extruding, handling, anodizing and storing of aluminum profiles. Innovative software systems and advanced automation control our entire factory from die storage, to extrusion, anodizing and packaging. Finished products are stored in our fully automated warehouse where a highly sophisticated management system use robots to control the storage process and minimize manual handling that could potentially damage the finished product.

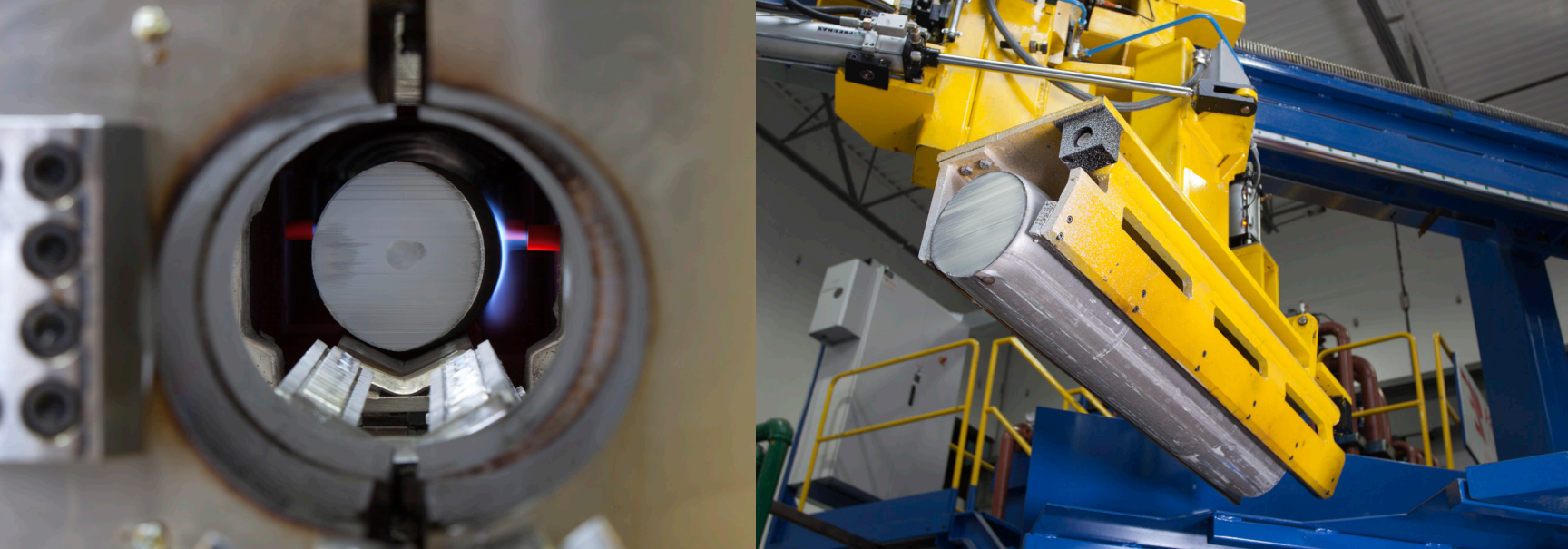
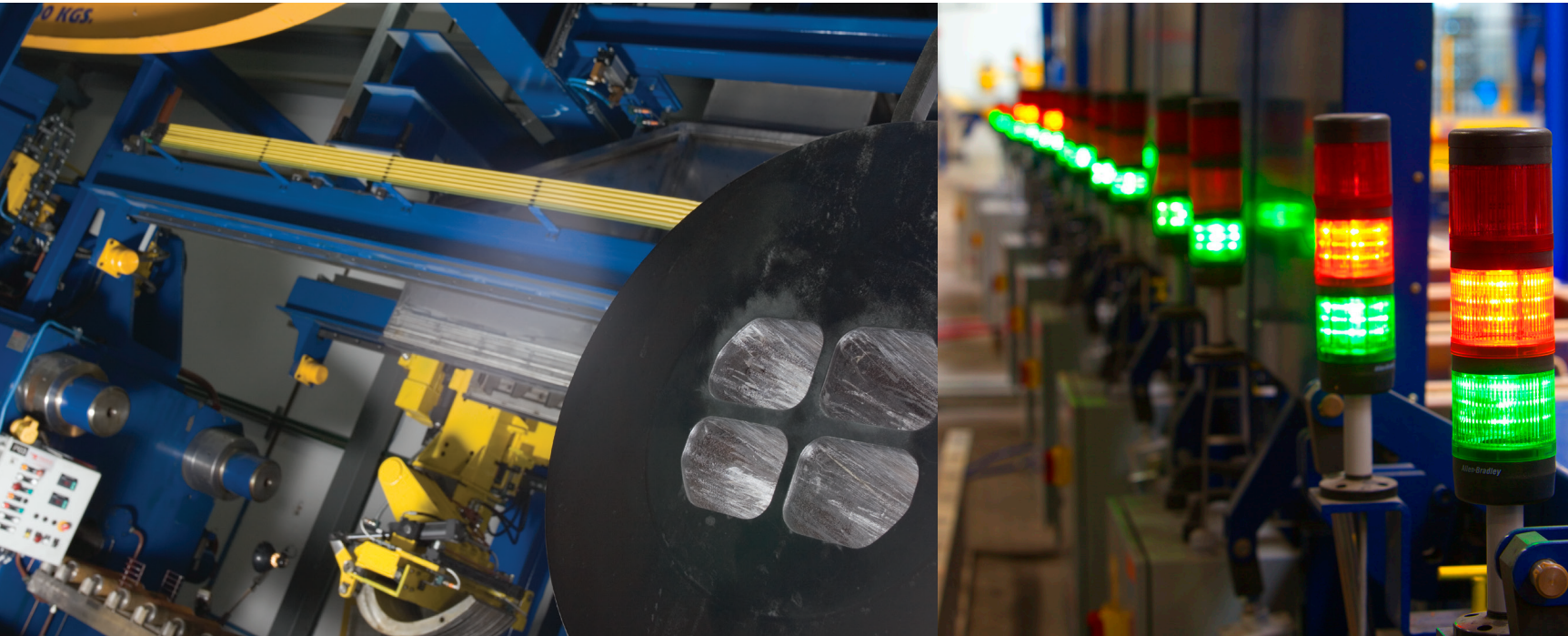


Large-scale production with high attention to detail

Our production capacity is substantial, enabling us to produce more than 3,000 kg of extruded aluminum per hour.

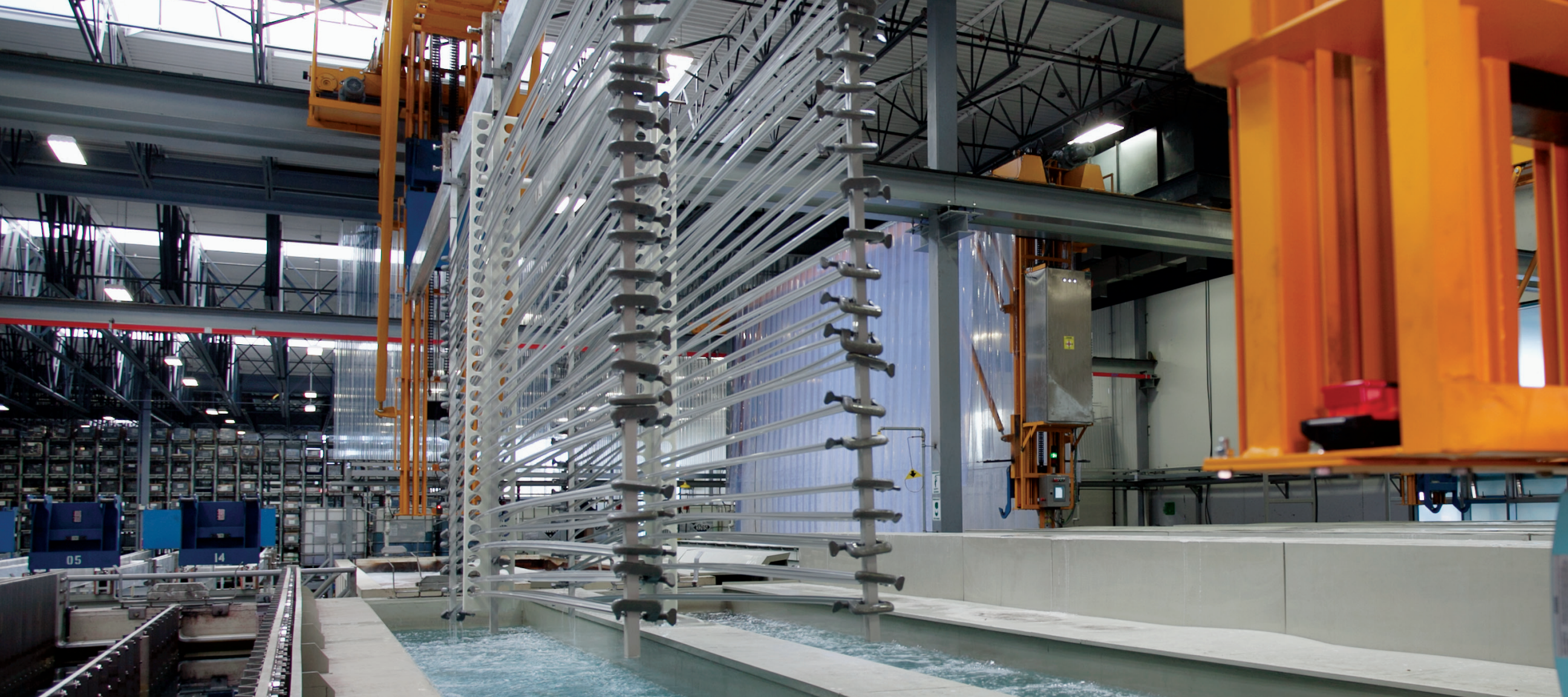
From the day we commenced operations Apex Aluminum Extrusions guiding principles have focused on total quality, from the testing of raw materials to continual checks at all stages of production to ensure remarkable results.

Our quality control laboratory is equipped to carry out tensile and hardness tests as well as automated diagnoses of profile dimensions and geometric accuracy. This ensures the highest quality and guarantee that all extrusions manufactured by Apex are produced to the chemical composition, mechanical properties and dimensional tolerances set forth by the Aluminum Association Standards.



Our Aluminum Extrusion Capabilities

EXTRUSION PRESSES:	2350 US tons, 7" (178mm) diameter - Presezzi
	2750 US tons, 8" (203) diameter - Presezzi
ALLOYS:	6063, 6005a, 6061
EXTRUSION WEIGHT:	0.190 lbs. per ft. up to 5.4 lbs. per ft.
QUENCHING:	High Pressure Air And Water Quenching
TEMPERS:	F/ T1 / T4 / T5 / T52 / T6
PROFILES EXTRUDED:	Solid / Semi-Hollows / Hollows / Multi- Hollows



Painted & Anodized Aluminum Extrusions

At Apex Aluminum Extrusions, we strive to exceed the highest quality products. With the use of our newest wet paint line, we are able to create stunning, vibrant coloured extrusions. And with our state-of-the-art fully automated anodizing line, Apex can offer quality, consistency and lead times that exceed industry norms.

ANODIZED

- Available in Clear (Class I & II), Champagne, Bronze and Black (Class I)
- Acid Etch
- 30 Foot Tanks

WET PAINT

- Akzonobel, Sherwin-William and PPG Certified
- Certified with AAMA 2603/2604/2605 Graded Paints
- Standard of 10-24ft and up to the Maximum of 30ft

Automated Warehousing System

Eliminate long lead times by utilizing Apex's automated warehousing system, where we store your extruded aluminum profiles and maintain a minimum and maximum stocking level. When you need your aluminum extrusions, the automated system extracts the exact product and quantity from one of our 1600 bins, reducing lead times on material to as little as 24 hours.

- ❖ No additional cost
- ❖ Shorten anodized lead times by warehousing high-usage profiles
- ❖ Stored in secure warehouse, eliminating damage and loss
- ❖ Stock is automatically tracked
- ❖ Delivered within 48 hours

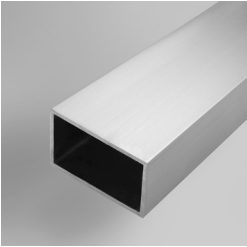


Standard & Custom Shapes

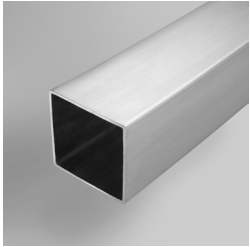
At Apex Aluminum we design and produce extrusions to satisfy the most demanding customer.

Quality and technology are brought together to produce the most remarkable results and surpass industry standard lead-times. With a variety of aluminum alloys (6063, 6005A, 6061) and selection of hardness and heat treatment options, our aluminum extrusions can meet any specification.

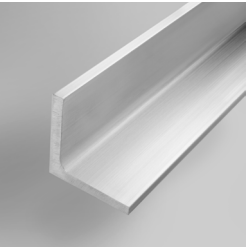
With an extensive catalogue of standard profiles (viewable at apexextrusions.ca) and the ability to produce custom profiles, Apex Aluminum Extrusions can meet all individual customer needs.



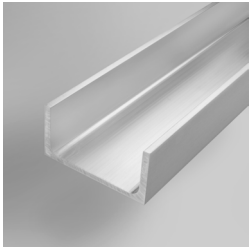
Extruded Tubing
- Standard (Rectangular)
- (Square Available)



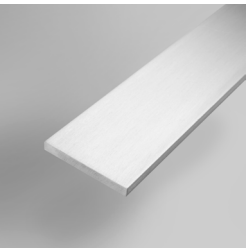
Extruded Tubing
- Radius on Corners (Available)



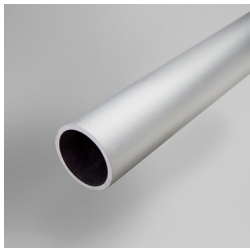
Angles
- Structural (Canadian)
- Architectural (Available)



Channel
- Structural (Canadian)
- Architectural (Available)



Extruded Bar



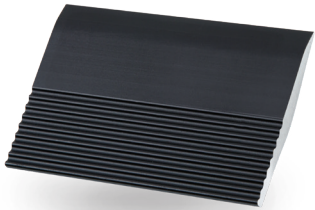
Extruded Pipe - Schedule
Extruded Tube - Round

Anodized Color Guide

At Apex Aluminum Extrusions making your project aesthetically pleasing and beautiful is a top priority that is achieved through an incredibly precise and consistent process that is the result of our modern anodizing line. Available in a range of striking anodized colors including clear, champagne, bronze and black. Our computerized recipe system allows subtle changes from one flight bar to the next, ensuring superior color consistency and the ability to rapidly change anodic finishes.

Unlike wet coat paint, anodizing provides a durable zero VOC finish meeting specifications required to achieve LEED certification.

Note: The anodized colors represented in this brochure are approximate and reflect the affects of the photographic and printing processes. Actual colors may vary but will not exceed the established limits per AAMA 611-12.



Anodized Black
Class I



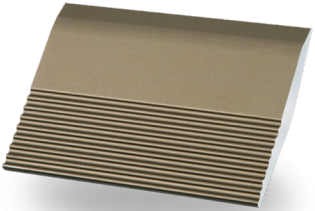
Anodized Dark Bronze
Class I



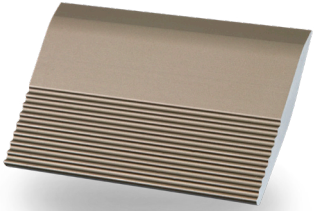
Anodized Clear
Class I



Anodized Medium Bronze
Class I



Anodized Light Bronze
Class I



Anodized Champagne
Class I

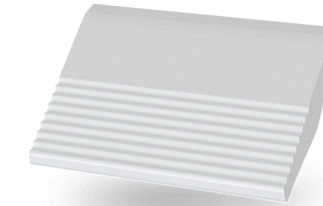
Wet Paint Color Guide

Creating a beautiful, aesthetic extrusion for your project is our top priority. Our Wet Paint Line is incredibly accurate and consistent, making your project stand out when completed. The Wet Paint process is a 4 step process that produces a strong finish that will not fade, chip or peel.

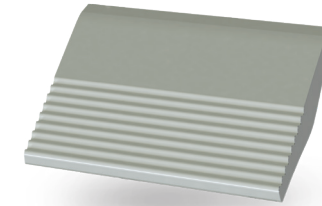
Our wet paint line is certified with AAMA 2603/ 2604/ 2605 graded paints. We are Akzonobel, Sherwin-William and PPG certified.

For the full colour range available, please visit our partnered paint suppliers by visiting our three suppliers sites: Sherwin-Williams, PPG and Akzonobel.

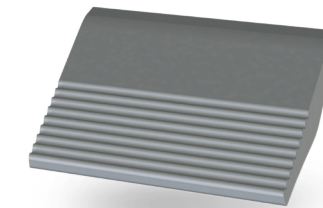
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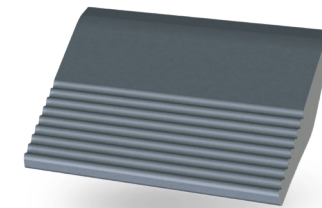
Standard White



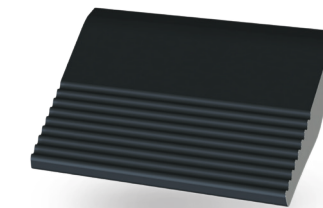
Ivory (Not a Standard Option)



Standard Silver



Standard Grey



Iron Mountain Grey








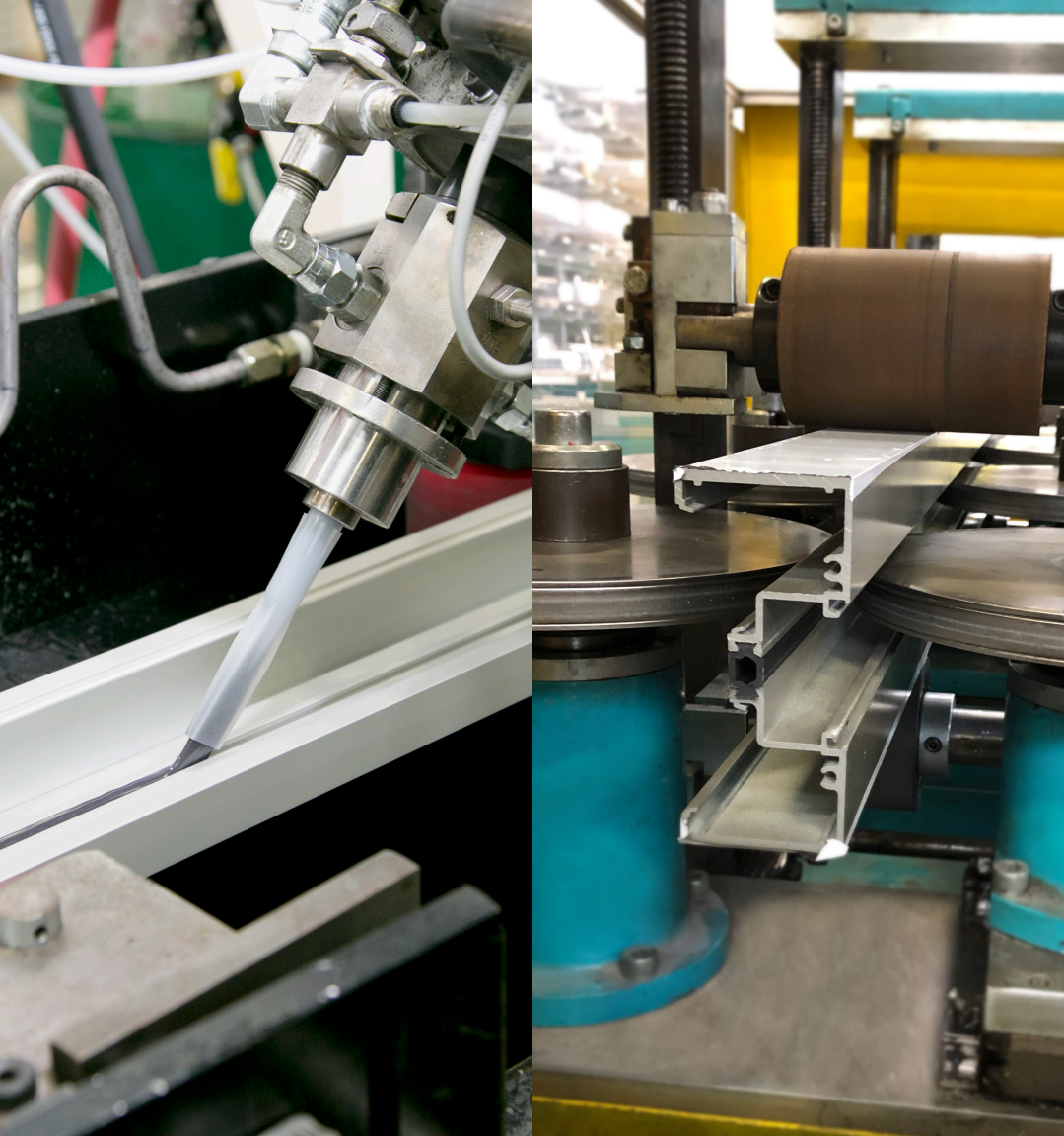
Standard Black

Pour & Debridge Thermal Improvement

Apex offers two energy efficient thermal barrier solutions to battle the high coefficient of aluminum’s thermal conductivity. Glaziers can choose from Thermal Strutting or a Poured and Debridged Polyurethane. For both systems Apex recommends finishing of the extrusions prior to the installation of the thermal improvement system.

The creation of a thermally improved aluminium profile is a five step process.







-  **EXTRUDE THE PROFILE**
A specifically designed profile is extruded with a strategically placed channel to capture the insulating polymer.
-  **MECHANICAL ABRASION**
Prior to filling the channel is mechanically prepared with Apex’s propriety AlumaBrade™ process to ensure a strong mechanical bond for the polyurethane.
-  **FINISHING**
The extrusion is finished by either painting or anodizing.
-  **POURING**
A two-component resin is dispensed as a liquid into the thermal barrier channel. Within minutes, the two-part resin solidifies to become a very strong and highly durable bonding polymer that offers excellent thermal performance. Apex uses only the highest quality resins from a leading North American supplier.
-  **DE-BRIDGE**
The extrusion is auto transported to the debridge process where the metal is removed from the bottom of the profile, producing a true, non-metal-to-metal structural thermal barrier.



Thermal Strutting

Apex offers two energy efficient thermal barrier solutions to battle the high coefficient of aluminum’s thermal conductivity. Glaziers can choose from Thermal Strutting or a Poured and Debridged Polyurethane. For both systems Apex recommends finishing of the extrusions prior to the installation of the thermal improvement system.

The creation of a thermally improved aluminium profile (thermal strut) is a six step process.

-  **EXTRUDE THE PROFILE**
A specifically designed pair of profiles is extruded with strategically placed grooves.
-  **FINISHING**
Both extrusions can have anodized or painted finish. In comparison with Pour and Debridge profile, colours can be unique and a final profile can have split finish.
-  **MECHANICAL ABRASION**
Prior to insertion of ISO-STRUT, the groove is mechanically knurled to ensure adequate shear strength.
-  **INSERTION**
During insertion, struts are fed into the grooves and pulled to fill entire profile stock length.
-  **ROLLING**
During rolling, profiles are passed through a series of discs where pressure is applied to hammers to close and provide grip. Pressure increases from one set of discs to the other to achieve a strong enclosure, true profile geometry and zero bow or curve.
-  **SHEER TEST**
Profile assembly is ensured to meet AAMA TIR-A8 requirements.

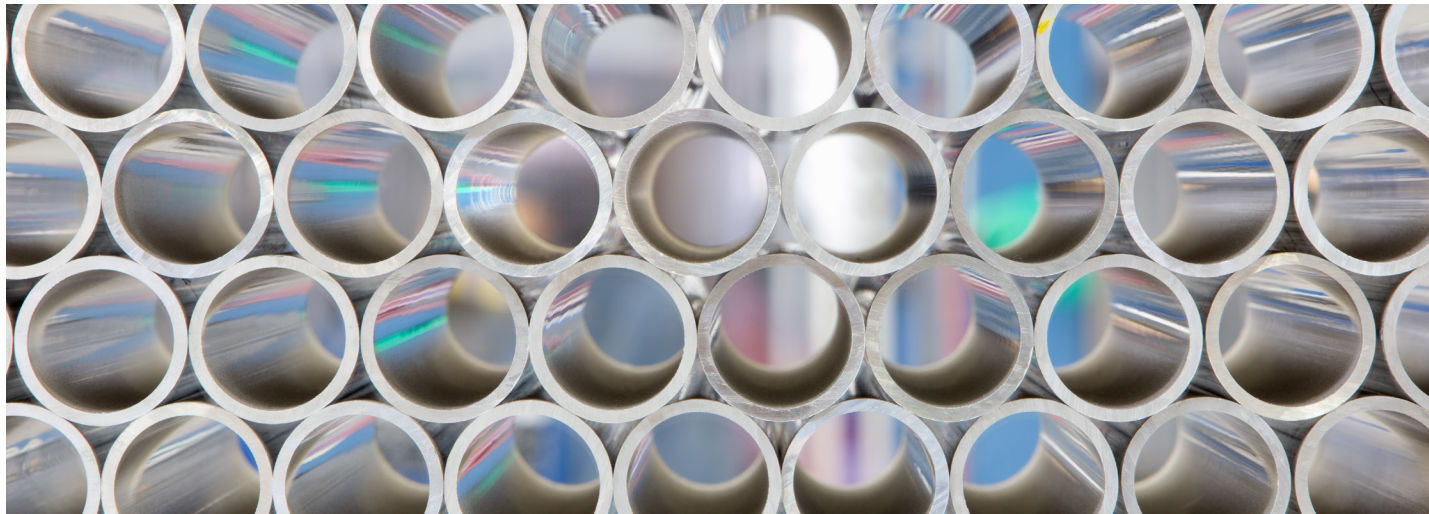
Distribution & Delivery

With our close proximity to the United States Border and the largest port in North America, Apex Aluminum has the distribution capability to ship Aluminum Extrusions worldwide. We are currently delivering to locations in Canada and Western United States with continued growth into new areas.



Delivery Fleet

Apex provides its own fleet of delivery vehicles that deliver throughout the Pacific Northwest and Alberta to ensure that your product arrives on time and ready for your project.



Our Development

At Apex Aluminum there is no room for complacency. In an ever-changing world we listen carefully to the market, to our customers and their needs. We are always ready to propose and offer solutions to meet all the needs and requirements of our customers.

This is why we are continually planning and implementing innovative investments and improvements to our facility and product line to give our products even greater added value.

Environment

We have made every effort to ensure our facilities are environmentally friendly. This is the environment we live and work in and the environment we wish to pass on to the next generation. Our ovens use natural gas and are equipped with particle retention filters to reduce emissions and pollutants to nearly zero.

All scrap generated by the production process is collected and sent for recycling (aluminum can be recycled using only 5% of the energy required to produce new aluminum), helping us achieve our zero-waste challenge.

Our on-site water treatment facility ensures that wastewater from the anodizing process is treated at or above governmental standards, ensuring no harmful pollutants leave our facility.

Apex Aluminum Extrusions
www.apexextrusions.ca

9767 201 Street
Langley, BC V1M 3E7 Canada
Tel 604.882.3542
TF 866.970.5948
Fax 604.882.3517