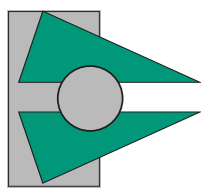




Aluminium Extrusion | Polyester Powder Coating | Anodising | Sublimation | Fabrication | Flashings | Sheet Metal



AMS

Architectural & Metal Systems

YOUR VISION - DELIVERED



- | | |
|--|---|
| ① Administration Office | ⑨ Anodising |
| ② Extrusion Press One | ⑩ Vertical Paint Line |
| ③ Extrusion Press Two | ⑪ Horizontal Paint Line |
| ④ CNC, Extrusion Fabrication & Precision Cutting | ⑫ Mill Metal Storage & Thermal Break Processing |
| ⑤ Future Development Land | ⑬ Decoral |
| ⑥ Extrusion Press Three | ⑭ Sales Technical & Processing Office |
| ⑦ Sheet Metal Fabrication | |
| ⑧ Dispatch | |

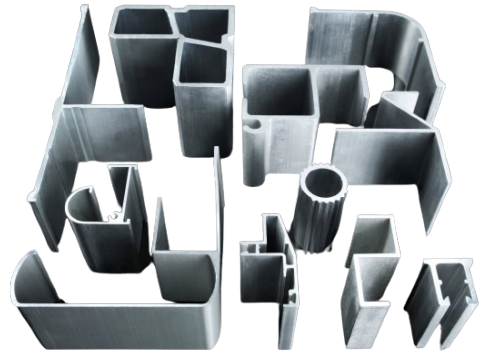


Architectural & Metal Systems

YOUR VISION - DELIVERED

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COMPANY PROFILE

Established in Cork in 1990, AMS (Architectural & Metal Systems Ltd.) stands as Ireland's sole independently owned manufacturer of extruded aluminium profiles. Distinguishing itself even further, AMS conducts all associated processes in-house from its 400,000 sq. ft. facility in Little Island.

Our specialisation spans a range of services, encompassing aluminium extrusion, powder coating, anodising, sublimation, cutting, machining & sheet metal fabrication.

With our skilled workforce and cutting-edge machinery, featuring three extrusion presses, three powder coating lines, a fully automated anodising plant, and an extensive sheet metal department, AMS is uniquely positioned to provide semi-finished products as well as complete turnkey solutions.

This includes the ability to bring products from concept to project delivery, all under one roof.

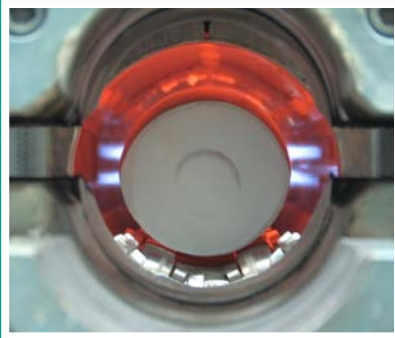
Our commitment to consistency in service, quality, colour, and traceability is reflected in our adherence to quality standards such as ISO 9001, 14001, and 50001. By controlling all processes from start to finish, we empower our customers to navigate tight deadlines with confidence.

Recognising the value of innovation and the importance of advanced technologies, AMS invests significantly in research and development. This commitment has contributed to our company's growth, enabling us to design and manufacture innovative products. With a team of over 300 dynamic and resourceful employees, we take pride in delivering a professional, high-quality service that consistently meets and exceeds customer demands.

Our experienced sales and technical team are readily available to support companies and architectural practices, offering guidance from the infancy stage of design or project development.



AMS is Ireland's largest manufacturer of semi-finished and finished aluminium products. We offer a range of services that support specialist companies in diversified markets.



Aluminium Extrusion



Polyester Powder Coating



Anodising



Decoral Sublimation

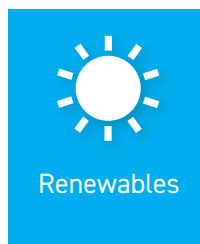
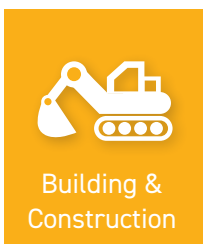


**Precision Cutting
& CNC Machining**



Sheet Metal & Flashings

MARKETS SERVED

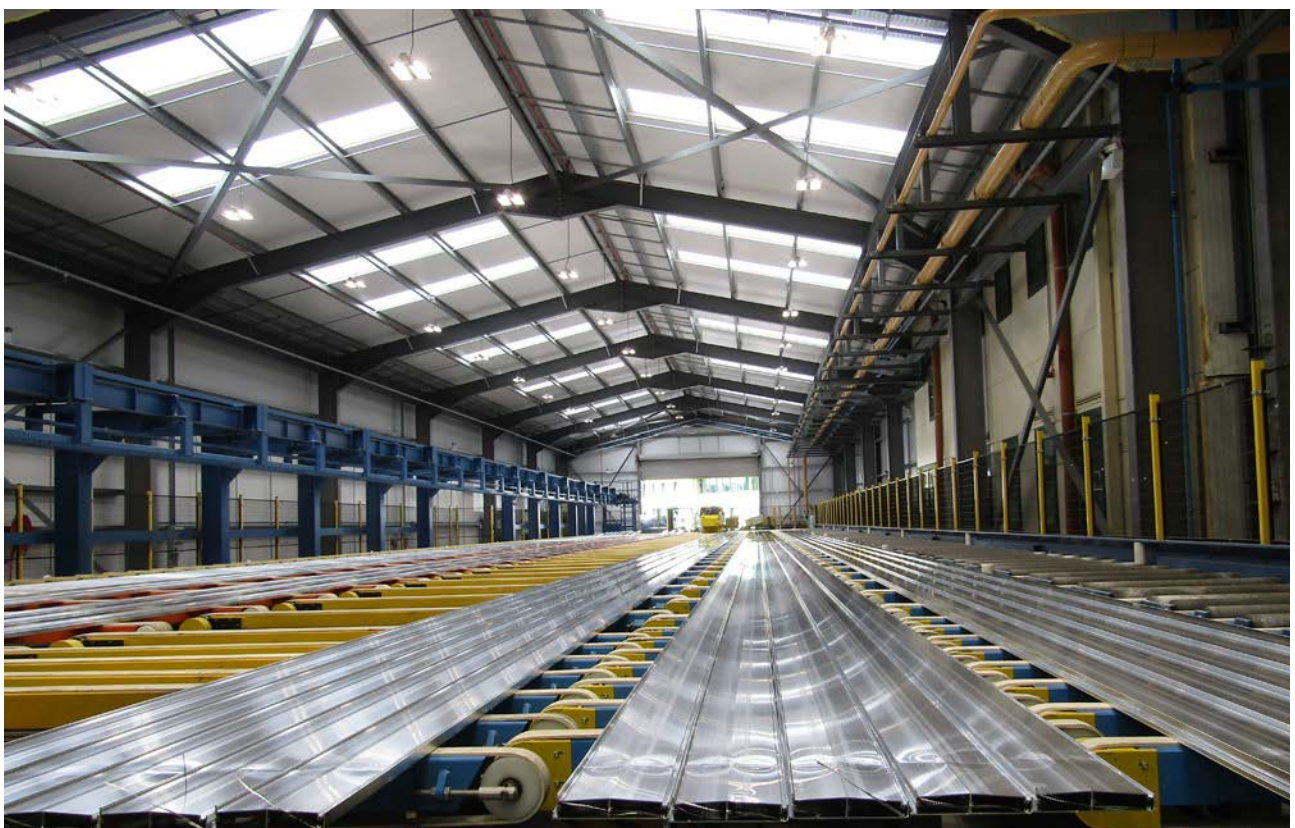


EXTRUSION

AMS is the only aluminium extruder in Ireland. The company has three state of the art extrusion presses with capacity to extrude over 300 tons of aluminium profiles per week. AMS has a catalogue of standard profiles available to all customers and offers bespoke extrusions to customers with specialist requirements. We have a technical team available to provide support and consultation on profile design, if required.

Our extrusion business supplies an array of sectors and sub-sectors, including but not limited to medical, engineering, renewable energies, and transportation. This diversification has not only solidified our support for crucial industries but has also paved the way for significant export opportunities. Our reach extends to various markets in Europe, as well as the UK and the USA, highlighting our commitment to global excellence.

We offer a wide range of prime billets in the 6000 range, such as 6005A, 6063, 6063A, 6082, & 6101. 50% & 75% post consumed recycled billets are also available in 6063.





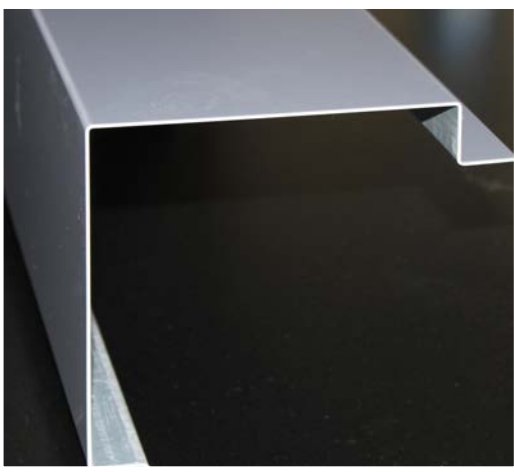
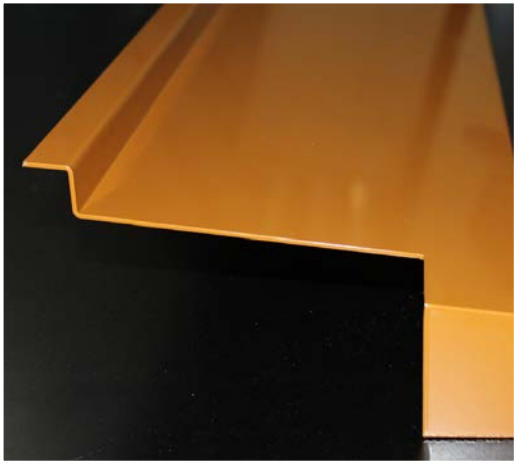


SHEET METAL WORK & FLASHINGS

AMS has a precision sheet metal fabrication workshop on site, specialising in aluminium fabrication. With over 20 years' experience in this field, we have the dedication and knowledge to cater to all customer requirements. We pride ourselves in the production of quality fabricated solutions and ensure customer needs as well as delivery requirements are at the forefront of our operation.

AMS' precision sheet metal department boasts a diverse array of capabilities such as punching, folding, and welding. Our highly skilled sheet metal team employs state-of-the-art machinery to craft an extensive range of bespoke components, including pressings, flashings, head cappings and insulated glazing panels.





PRECISION CUTTING

Our cutting department provides customers with the option of having their orders cut to specific lengths, if required. Computerised cleat cutting & double mitre saws allow for the precision cutting of aluminium parts and profiles ranging in size from 4mm up to 8 metres, which gives our customers the option of purchasing cut parts which are ready to go directly to the production floor.



CNC MACHINING

AMS has a range of seven Emmegi & three high speed Hurco CNCs to aid in the in-house machining of aluminium extrusions, small parts & components. This gives our customers the option of purchasing finished parts rather than buying the extrusion and sending it elsewhere to be cut & machined. This is yet another step in our aim to have total control over all the associated processes in-house so that we can give our customers the best possible products, service, and experience.



ANODISING



Our anodising service offers the highest standards of quality, and aesthetics. Certified by Qualanod, our anodising process adheres to industry-leading standards, offering a diverse range of finishes, including Silver, Champagne, Light Bronze, Medium Bronze, Dark Bronze and Black.

Our state-of-the-art facility enables AMS to create anodised colours within aluminium profiles, sheets, or folded panels in our 7.2m x 2m process tanks. The computer-controlled operation guarantees efficiency, delivering consistent results.

Automated cranes navigate the product through the production line, ensuring precision at every stage.

Our anodising plant adheres to rigorous industry standards, a testament to our commitment to quality. The Qualanod certification, a prerequisite for many architectural firms, attests to the quality of our anodising process. In-house, our dedicated laboratory maintains chemical compositions within tight tolerances, and our team of quality technicians conduct regular inspections and tests, upholding our commitment to meeting and exceeding Qualanod specifications.

THE ANODISING ADVANTAGE

Anodising creates a protective oxide layer on the surface of aluminium, enhancing its resistance to corrosion. This makes anodised aluminium suitable for outdoor and marine applications. The anodised layer is integral to the aluminium surface, making it more durable and resistant to wear and tear. Anodised surfaces are relatively easy to maintain and boast a natural and rich metallic look, enhancing the aesthetic appeal of aluminium surfaces.



POLYESTER POWDER COATING

AMS offers a range of architectural polyester powder coating finishes and colours. We specialise in providing Qualicoat approved powders with different gloss levels, textures, and appearances. Additionally, our expertise extends to aluminium-painted sheets, providing a versatile palette to meet your needs.

Qualicoat certified for over 20 years, our powder coating adheres to the highest industry standards. We utilise an 8 stage, chrome free, pretreatment process and undertake mechanical testing on every batch to ensure quality.



Our Powder Coating suppliers are:

- Syntha Pulvin
- Axalta
- Interpon
- Tiger
- IGP
- HMG

Our powder coatings find application in a myriad of building components, including but not limited to:

- Windows
- Doors
- Facades/Curtain Walling
- Cladding
- Brise Soleil
- Signage
- Bespoke Profiles
- And many more...

AMS has three in-house paint lines, enhancing the efficiency of our powder coating service.

QUALICOAT CERTIFICATION

AMS offer a wide range of Architectural polyester powder coating finishes. Powder finishes & adhesion are guaranteed through the 'Qualicoat' approved applicator scheme of which AMS is a continuing member. QUALICOAT is a quality label organisation committed to maintaining and promoting the quality of coating on aluminium extrusions and sheet metal.

QUALICOAT defines comprehensive quality requirements and monitors their compliance by licensing & auditing members' plants worldwide. This gives purchasers of coated aluminium the assurance that they will receive a premium-grade product delivering long-term value and consistent quality. QUALICOAT's mission is to provide best practice rules to obtain a good quality coating on aluminium.

AMS use a "Seaside" class pre-treatment as standard, on all millfinish aluminium prior to powder coating.

This process ensures that a minimum aluminium surface of 2 grams per square metre is removed, using a dip or spray process of a combination acid/alkaline etch.

This deeper etch removes more contaminants, giving the surface the best possible key for the powder coated finish. This is particularly important for powder coated items that are located in areas where the atmosphere carries aggressive pollutants, or near the coast where the atmosphere carries corrosive salts (chlorides).



VERTICAL PAINT LINE

Our vertical paint line offers an efficient approach to applying powder coated finishes to mill finish aluminium. This system is capable of seamlessly painting over 4000 profiles per shift.

With the capability to paint profiles up to 7.2 meters in length and effect a colour change in just 4 minutes, our vertical paint line is the most efficient method of powder coating aluminium profiles.



HORIZONTAL PAINT LINES



Our two horizontal paint lines are equipped to powder coat aluminium sheets, flashings, and profiles with lengths extending up to 7.0 meters. This streamlined service offers significant advantages to our customers, ensuring both profiles and pressings undergo pre-treatment and painting in a single facility, guaranteeing unmatched quality and finish on every occasion.



“DECORAL” SUBLIMATION

As the only sublimation applicator in Ireland, AMS utilises the “Decoral” system to apply wood-like and rust-like finishes to aluminium. Sublimation is an excellent coating option for aluminium profiles, especially when the goal is to achieve visually appealing yet lightweight structures. Unlike wooden structures, which can be naturally heavy and prone to warping, splitting and rot over time, aluminium proves to be a lightweight and durable alternative.





FACTS

- The textured Polyurethane powder used means it is hard-wearing & low maintenance.
- AMS has one of the largest capacities for Decoral in Northern Europe.
- Great options for windows, doors, furniture, fence and gate panels, cladding, or signage
- A range of 27 finishes all of which can be used internally & 17 of these which are suitable for external use *(please check with us in relation to these)*.
- Some combinations tested in Florida sunshine.
- Aesthetically pleasing and robust
- The wood finish has an A2 fire rating.
- Long design life in comparison to timber
- AMS is the only Decoral applicator in Ireland.
- Bespoke finishes available for large quantities.

ADVANTAGES

- Aluminium can be infinitely recycled and is ideally suited for a circular economy.
- Maintenance is limited to periodical cleaning.
- Aluminium profiles do not warp, twist or rot.
- The selection of a timber appearance does not affect the weight or strength of the aluminium profile.
- Decoral provides a long-term consistent appearance and does not weather, as can occur with timber.
- Finishes are A2 -s1, d0 rated.
- Profile lengths up to 7.1m possible.

EXTRUSION FABRICATION

As a leading façade systems supplier & manufacturer for over 30 years, AMS has a wealth of knowledge & experience when it comes to the fabrication of aluminium profiles.

This knowledge & experience is something that we happily incorporate, when either designing or advising our customers on their bespoke extrusion requirements.

Our fabrication department is critical to many of our customers as it allows them to prototype & quickly test their new products, without first having to commit both finances & resources.

Through major investment in personnel, machinery and tooling, AMS has now become a market leader in the assembly of semi-finished products and aluminium fabrication.

AMS prides itself in accurate scheduling, provision of customer support and on time delivery which allowed AMS to provide a top-class service to its customers. Our dedicated fabrication department can help ease the demands on our customers production capabilities when required.



TECHNICAL SUPPORT

Our experienced sales and technical team are readily available to support companies and architectural practices, offering guidance from the infancy stage of design or project development.

AMS has 3D printing capabilities and can develop rapid extrusion prototypes to support designers from concept stage through to implementation. The 3D print gives near 100% accuracy and enables clients to check fits with gaskets, hardware, mouldings and add on profiles. It gives our customers a chance to make changes that they may not have obviously seen during their design process and gives their customers or architects, a glimpse of what the final product will look like before it goes into production.



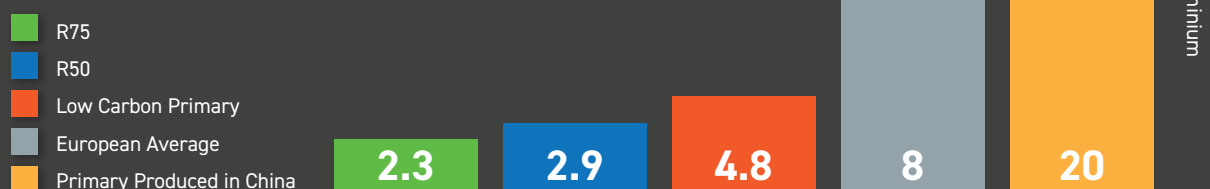
SUSTAINABILITY AT AMS

AMS understands the need for collective action on carbon emissions reduction and we have ongoing initiatives to reduce our carbon footprint. Some of the completed initiatives include:

- The installation of a 1-megawatt solar pv system on our roof space; one of Ireland's largest roof-mounted solar projects.
- The installation of a large-scale water stewardship programme whereby rainwater is collected and used for several of our manufacturing processes.
- A change in the composition of our billet supply with a greater focus on recycled billet and primary aluminium produced using hydroelectricity.



CO₂ Carbon Footprint of Aluminium Billets available at AMS VS Primary Aluminium produced in China



AMS understands that being able to procure sustainable aluminium is of great importance. We are constantly innovating to meet and exceed the growing sustainable needs and expectations of our customers and specifiers alike.

1. R50 & R75 Billet – 50% & 75% Post Consumer Scrap

- Capable of a minimum 50% & 75% post-consumer scrap content
- Fully traceable
- It is third party certified (by DNV GL)
- Has a carbon footprint of only 2.9kg of CO₂e for every kg of aluminium produced.

2. Low Carbon Primary

- Produced from smelters that use renewable energy, Low Carbon Primary has an emissions intensity that is 3x better than the industry average.
- Has a carbon footprint of 4.8kg of CO₂e for every kg of metal, including both direct and indirect emissions from mining, refining, smelting, and casting.

NOTES



Architectural & Metal Systems



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Accreditations:

- ISO 9001 • ISO 14001 • ISO 50001
- Qualicoat • Qualanod