





Architectural & Metal Systems Ltd. was established in 1990 in Cork by Managing Director, Chris Martin, Sales Director, Pat O'Hara and Technical Director, Dave Rawlings. (Pictured above left to right).

Today, many years later, AMS has a diverse product portfolio as well as a unique range of facilities to provide unrivalled service, support and technical backup to our many customers.

Over the years, we have continuously invested in facilities to improve our product offer, so that today we can offer a complete package to our customers.

- Extrusion: 1800 tonne press installed in 2010
- Powder Coating: Vertical Paint line installed in 2008
- Decoral: Wood effect equipment installed in 2004
- Weather testing equipment
- Fabrication facilities
- Bending equipment
- Thermal analysis software
- Bespoke design service.
- Sheet metal Fabrication.

As the largest independent aluminium Systems Company in Ireland, AMS provides a level of support and service that is unobtainable from the large multi-nationals, and this has been the foundation of our success.

AMS is committed to providing high quality products for our customers and this is ensured by our dynamic and resourceful employees, at all levels, being attentive to

our customers' needs. This is both our challenge and our motivation for the future development of the business.

AMS Commitment to the Environment

At AMS we are always committed to producing systems that are sustainable, high performing with long design life therefore minimising impact on the environment. Aluminium, as a metal, is infinitely recyclable and only 5% of the energy used in producing new aluminium, is used in the recycling process. AMS is committed to recycling 100% of the off-cut aluminium produced during production.

In 2012, AMS undertook on a project to establish an Energy Management System to control and reduce all forms of energy usage on-site. This resulted in obtaining certification to the ISO 50001:2011 standard. Certification to this standard was achieved in July 2013 and this, working in tandem with our Environmental Management System, further reduces our impact on the environment.

Furthermore, with our state of the art vertical paint line having a 90% recovery rate of powder and our Environmental Management System being certified to ISO 14001:2004, AMS prides ourselves to being fully committed to an environment friendly, sustainable and long lived future.

Extrusion & Design

AMS have recently installed an 1800 tonne extrusion press. This investment in state of the art extrusion facilities means that, as well as extruding our own profiles, we can offer a design and extrusion service for other users, not only in the façade industry but any industry where aluminium extrusions are required.

Imagine the flexibility of being able to have an extrusion that is not in stock available the next day. The extrusion process is so flexible that as soon as we can heat the die and billet to the required temperature, the extrusion of aluminium profile can begin.

We are able to produce over 1,000 kgs of extrusion per hour on our press. Once the metal has been extruded it is then oven aged for approximately 8 hours to bring the metal to the required temper. Once aging is complete it can then be made available to the customer, or indeed go into another process within the same building e.g. Painting, Decoral, thermal break or fabrication. The extrusion plant will now bring AMS into new markets e.g. aerospace, engineering, renewable energies, transportation to mention a ew. It will also generate important export opportunities to many other markets, some of which we are already supplying today. It will also generate important export opportunities to many other markets, some of which, we are already supplying today, e.g. UK, Poland, Mexico and USA to name a few.



Architectural Finishes

AMS offer a wide range of architectural polyester powder coating finishes for the construction industry. Powder finishes are guaranteed through the 'Qualicoat' approved applicator scheme of which AMS is a continuing member.

Vertical Paint Line

The vertical paint line is an incredibly efficient method of applying powder coatings onto mill finish aluminium. It has a 90% recovery rate of powder and the ability to paint over 3000 profiles in an 8 hour shift, which is a huge improvement over the industry standard. The vertical paint line has the facility to paint profiles up to 7.3m in length and can effect a colour change in only 4 minutes, making it the most efficient method of powder coating aluminium profile systems.

Horizontal Paint Line

The horizontal paint line has the facility of painting aluminium sheets and flashings, as well as section profiles with lengths up to 7.0m. This service has proven very beneficial to many customers as profiles and pressings can be painted in the one facility, which guarantees quality and finish and logistically has made life a lot easier for our customers, again enhancing the service provided by AMS.



Architectural Finishes

Decoral

The Decoral system is a process of applying a wood grain effect onto aluminium profiles. This beautiful finish has all of the distinctiveness of wood and gives the customer all the aesthetic benefits of real timber with none of the maintenance costs.

AMS is the only applicator of Decoral in Ireland or the UK, is Qualicoat approved, and offers a 10 year guarantee on wood grain finishes. Decoral gives stunning results in all popular wood finishes and is now proving very popular for tongue and grooved clad facades.

Woodgrain Finishes

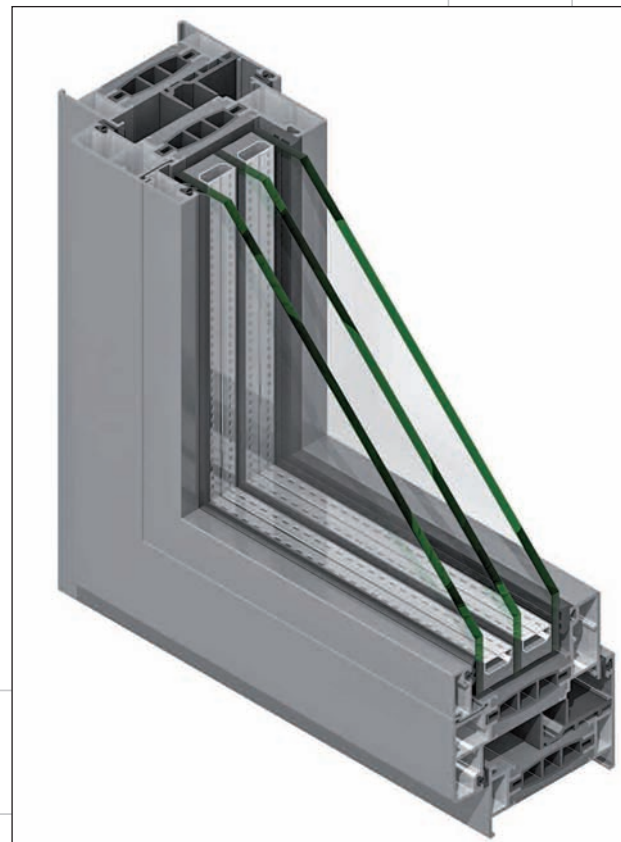
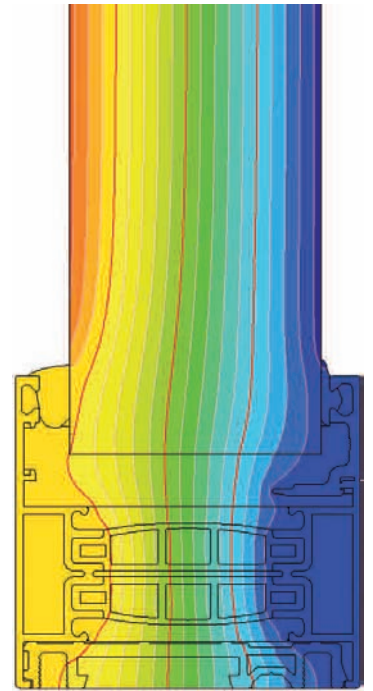
Our range of Decoral woodgrain finishes is regularly increasing and includes; Mahogany, Golden oak, Dark oak, Natural oak, Winchester Oak, Teak, raw teak, Teak softwood, Chestnut, Oregon, Natural Oregon, Yellow Oregon, Oregon pine, Knotty pine, Natural Maple, Cinnamon, Finest black, Rosewood, Worn ash, Burnt ash, Walnut.



Therm Strip Thermal Break Technology

AMS 'Thermstrip' advanced thermal break process is a unique and patented system. Current patents apply in Ireland, UK, USA and Canada. The use of patented Thermstrip technology with polyurethane resin allows AMS to be one of the leaders in the supply of energy efficient and sustainable systems in the world.

In addition, the AMS 'Thermstrip' offers increased thermal efficiency, shear and flexural strength characteristics over other equivalent thermal break materials.



Fabrication & Profile Bending

AMS offer our fabrication partners an extensive programme of bespoke training which addresses all aspects of our products fabrication. Fabrication partners can avail of our in-house training courses in Cork or we can also deliver training sessions in your own premises.

AMS offer our customers a turn-key fabrication and assembly service which, through major investment in tooling, machinery and automation, has elevated AMS into becoming a market leader in assembly of semi-finished product, which is delivered unglazed, to our vast portfolio of fabrication partners.

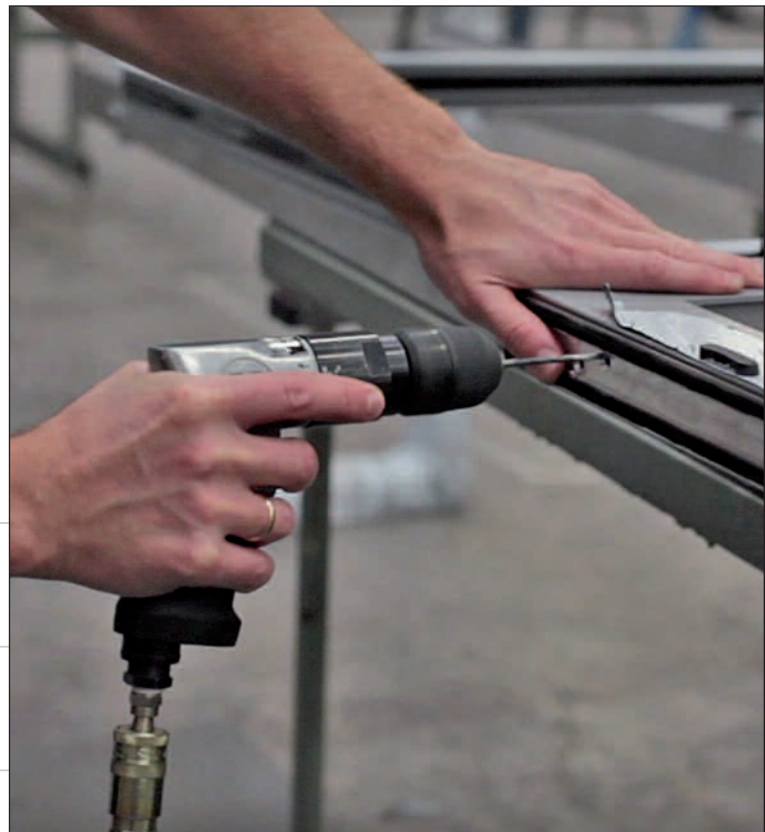
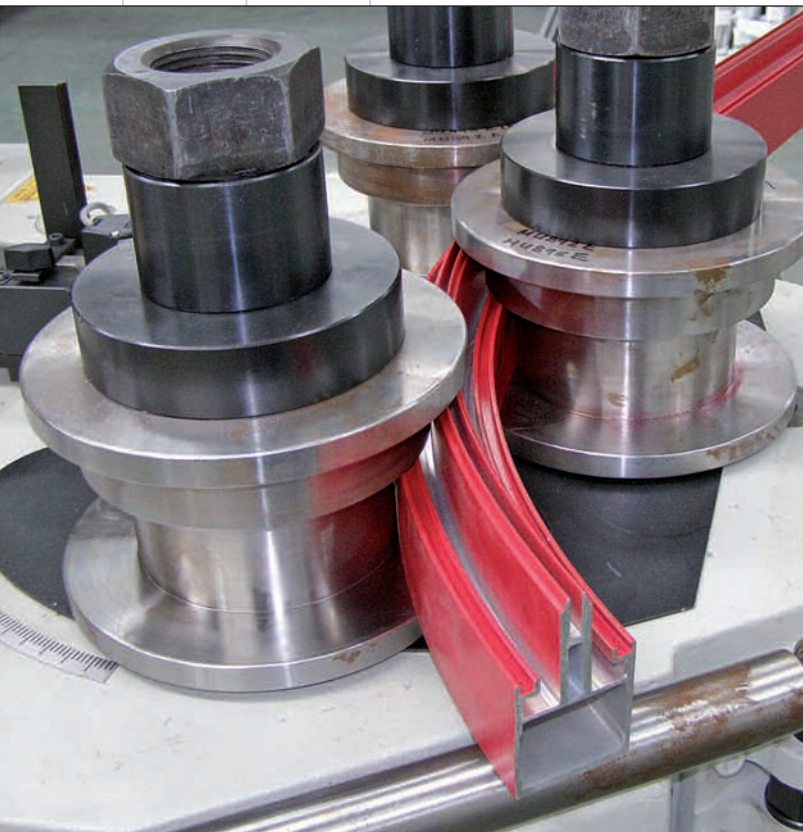
AMS pride ourselves in accurate scheduling, provision of customer support and on time delivery which has allowed AMS to provide a top-class service at all times.

Our dedicated department, which includes a manager, supervisor and numerous trained craftsmen, can ease the peak and trough demands placed on your production departments or undertake whole project fabrication. Contact our fabrication department for further details.

Profile Bending

AMS can offer the service of curving an extensive range of our profile sections. We now have the ability to form our own window section and curtain wall profiles on both plan and elevation.

The bending machine has the facility to bend a single profile with thirty-two different radii. Circles, arches, ellipses and much more is possible. For details on minimum radii and options on curve types please contact our technical department.



Weather Testing

Testing

AMS are market leaders in product testing and this is realised through our in-house test laboratory

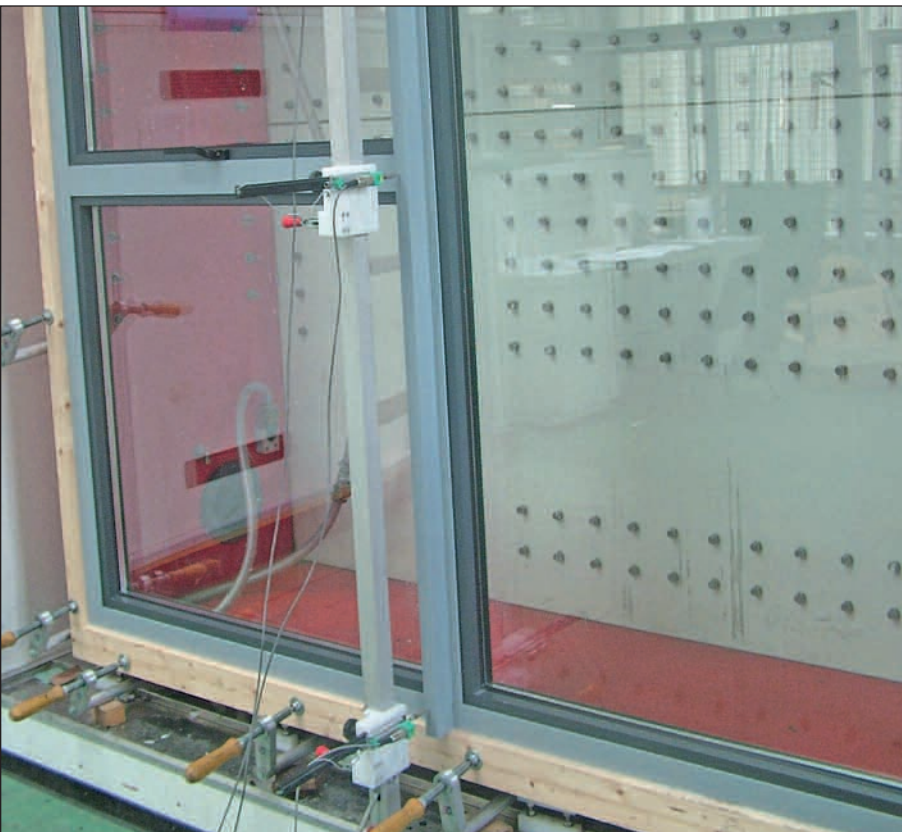
The test facility provides us with great insight into system design requirements and performance, enabling us to produce systems which are robust, weather tight and sustainable.

The test facility has been utilised for many recent large scale projects, e.g. The Elysian, Blackrock Clinic and St. Patrick's House to mention a few. All testing was carried out in our in-house test facility and was witnessed and approved by cladding consultant, client, and Architects alike with great satisfaction and excellent results.

Estimation

AMS offers its fabrication partners an extensive estimating support network. Fabrication partners can avail of our in-house estimating support service with normal return of tender documents within 3 working days.

For fabricators who want to have more flexibility, we also offer a package where we can provide you with one to one training on our Logikal estimation software system for quotations, order processing, fabrication lists, u-value calculations and CAD drawings.



Façade Systems

Architectural & Metal Systems MU800 Curtain wall offers a mullion drained system with various standard and matrix cap options which are designed for a wide range of applications including both high and low-rise developments.

The MU800 curtain wall is designed to comply with the latest thermal and structural requirements of the current building regulations and is manufactured to exacting standards enabling economy to be combined with strength thus providing many years of aesthetic, sustainable and trouble free performance.

The MU800 curtain wall systems are suitable for vertical and sloped glazing applications. The system offers a wide range of alternative external capping finishes including our picture frame effect which we have named Matrix.



Window Systems

AMS TS66 & XT66 window systems offers unique, patented, architectural design features with market leading thermal performance and design flexibility. Our thermally broken window suites combine all the latest technology in window design to ensure all requirements of building regulations and project specifications are exceeded.

TS66 Window System

AMS TS66 'Energy' window system is a sustainable, energy efficient and comes fully certified to the BM Trada Q mark scheme. The system is 66mm in depth and can be glazed both internally and externally with 28mm through to 48mm units. The system is highly versatile, has various sash styles offering excellent design solutions and large sash options.

TS66 offers window U-values as low as 1.0 W/m²K (based on 1.2 x 1.5m window with full sash).

XT66 Window System

AMS XT66 'Energy' casement window system has been developed to further enhance the performance and energy efficiency of our window suites and also comes fully certified

to the BM Trada Q mark scheme. The XT system is 66mm in depth, can be glazed both internally and externally with 28mm through to 48mm units and is fully compatible and interchangeable with the TS66 window system.

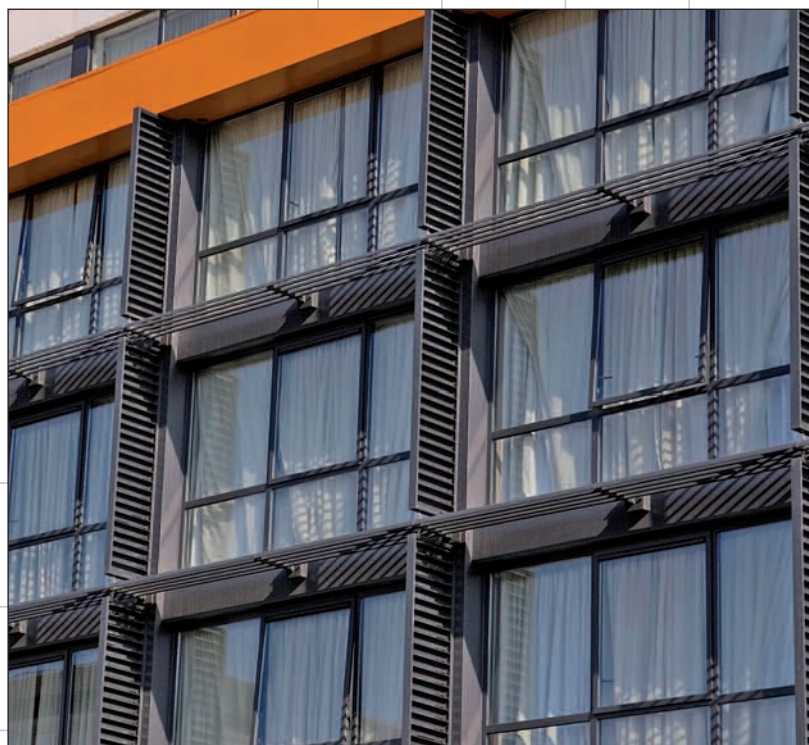
XT66 offers window U-values as low as 0.85 W/m²K, (based on 1.2 x 1.5m window with full sash).

Window Performance

All our systems are tested to BS6375 Part 1 & 2, security tested to PAS 24:2012, offers BM Trada 'Q' mark and secured by design certification. System performance offers Class 4 (600Pa) for air permeability, Class 9A (600Pa) & E900 (900Pa) for water tightness with wind resistance Class E2400 (2400Pa). Both systems boast heavy duty, category 3 status (20,000 cycles), for repeated opening and closing. This once again reinforces the position that AMS window systems are some of leading window systems available on the market today.

Opening Types Include:

Top Hung, Side Hung, Bottom Hung, Parallel Open, Tilt Turn.



Door Systems

AMS door systems offers unique, patented, architectural design features with market leading thermal performance and design flexibility. Our thermally broken door suites combine all the latest technology in door design and fabrication methodology to ensure all requirements of building regulations and project specifications are exceeded.

TS46 Door System

The TS46 rebated door system is 46mm in depth and can be glazed internally or externally with double glazed units from 24mm to 28mm. The system is available with heavy duty doors sash options to achieve higher and wider door leaf combinations. On double doors the system can have a rebated meeting stile offering a master and slave option or can be 'any open door' stile which allows both leaves to be mastered.

The system offers internally beaded option on all doors whether open in or open out, can be dual or single colour and can also have 'decoral' wood finishes applied.

TS66 Door System

The TS66 rebated door system is 66mm in depth and can be glazed internally or externally with double & triple glazed units from 28mm to 48mm. It is available in dual colour as standard and offers a wide range of midrail and threshold options.

The system is available with heavy duty doors sash options to achieve higher and wider door leaf combinations. On double doors the system can have a rebated meeting stile offering a master and slave option or can be 'any open door' stile which allows both leaves to be mastered.

The system offers internally beaded option on all doors whether open in or open out, can be dual or single colour and can also have 'decoral' wood finishes applied.

The TS66 door system can achieve window u-values as low as 1.5 W/m²K.

Door Performance

All our door systems are tested to BS6375 Part 1 & 2, security tested to PAS 24:2012, offers BM Trada 'Q' mark and secured by design certification. System performance offers Class 4 (600Pa) for air permeability, Class 9A (600Pa) for water tightness with wind resistance Class E2400 (2400Pa).

Our doors now offer class 8 to BS EN 1191, **1,000,000** cycles. This was achieved on both opening and closing, locking and unlocking. This once again shows that AMS are fully committed to producing only the highest performing systems.



■ TS Sliding Systems

TS Patio Door

This door, like its rebated counterpart, maintains the Document L compliance and has become a highly sought after product in modern building design. It can be designed and fabricated to include Tilt & Turn and Casement Sashes and rebated doors, all fully integrated within one frame - it is available in dual colour and maintains the same high level of security required in a modern building. The TS patio can be constructed in frame up to 6.4m wide and 2.6m high. The door is available in single or twin colour or one of our 14 in-house Decoral wood finishes.

TS Folding Sliding

The new folding sliding system is now available and can be constructed in frame sizes up to 6.4m wide x 2.4m high. There are various combinations possible and the door can open in or open out. The door glides effortlessly to open up a wide space and will prove to be a winner with anybody who wants an unspoilt vista or wants their room opened up to the outside. The door is available in single or twin colour or one of our 14 in-house Decoral wood finishes.



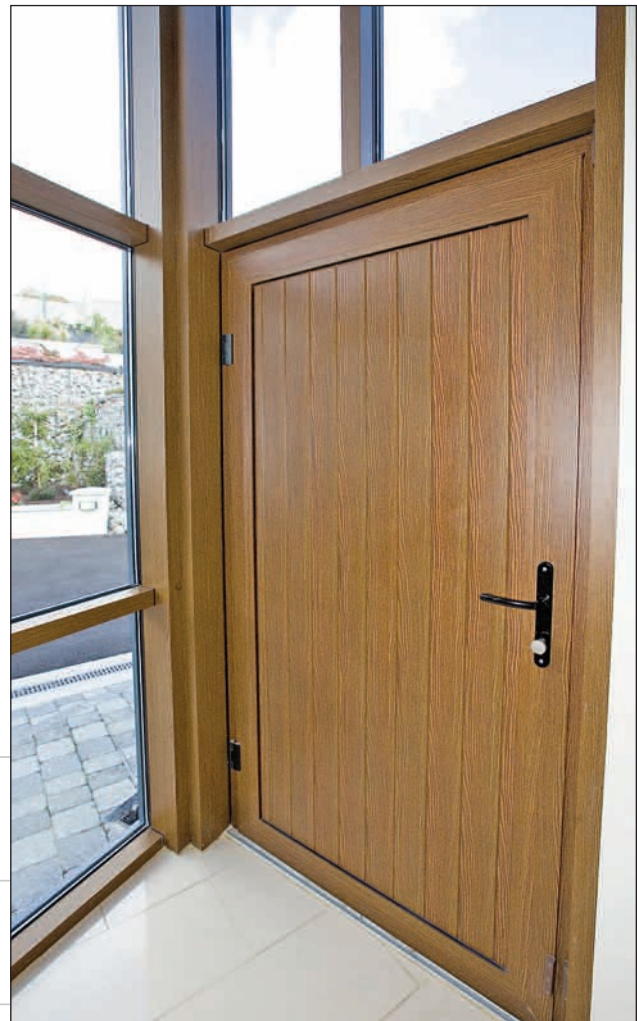
■ Cladding Systems

TS Door Panel

The Therm strip door panel system combines a polyurethane resin with a multi-chamber isolator core, which assists in meeting the thermal requirements of the current building regulations and project specifications. The system has a visual face width of 90mm to give a timber tongue and groove plank effect. The panel is available in 28 or 44mm and can be dual colour as standard. The system can also incorporate vision panels to meet client requirements.

Cladding Panel

The T&G Panel system is a non-thermally broken external cladding panel system. The system provides a long term sustainable solution to externally fixed timber products often placed within modern facades. The system has a visual face width of 90mm & 180mm and the planks have a concealed fixing in the underside to give a timber tongue and groove cladding finish.



Ground Floor Treatments

AMS offer a Ground Floor Treatments System comprising a wide range of framing solutions for all types of commercial entrances and screens.

Flush glaze screen profiles are designed for use in Ground Floor applications in moderately exposed locations.

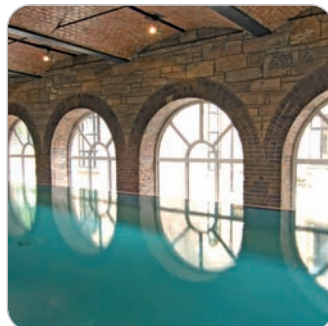
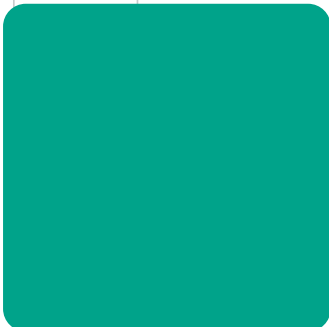
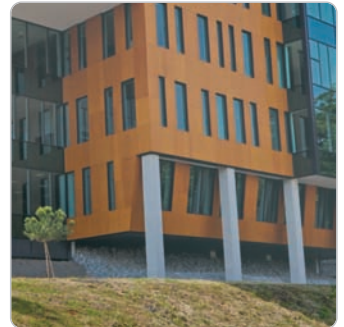
The system can accommodate both single and double glazed applications of 6-12 mm and 20-24 mm thickness respectively.

AMS Commercial Doors can be fitted into the screens to address access requirements.





AMS Architectural & Metal Systems



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CLICK: www.ams.ie

