



THE LIVING FAÇADE



 **ArGeTon®**



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## A PARTNER YOU CAN TRUST

The visual impact of a timeless modern façade with the distinctive character of natural terracotta in a ventilating rainscreen. This was the specific inspiration for developing the ArGeTon® façade as a ventilated terracotta rainscreen since 1982.

Allow yourself to be inspired by a modern and international partner who has invested in unique purpose built production facilities for your benefit. Trust in our enterprising innovation, sales support, and the systematic quality assurance of a large group. The acquisition of ArGeTon® by the Wienerberger Corporation – the world's largest brick, clay block and tile manufacturers – has already had significant impact upon the versatility of range and finishes available from our manufacturing facilities. Their innovation in clay technology will enable the ArGeTon® range to meet the demands for rainscreen facades using one of the oldest building products known to mankind.

A significant element of our success story has been built upon partnerships and personal contact. In keeping with this, you will continue to be advised in the creation of ArGeTon® façade tiles by experienced technical support. This will include technical details and advice on an economical grid pattern for the façade. We have an innovative and practical solution for every project and look forward to your consultation and challenges.

There has been international recognition of the benefits associated with rear ventilated cavity rainscreens for construction, from Europe to the USA and Canada, China to the Middle East and India. We are working with clients who are seeking the ultimate performance criteria of their facade from a natural clay of sustainable source that can meet the evolving demands for carbon neutrality.

ArGeTon® has held CWCT test certification for ten years from the internationally accredited TayWood Laboratories in the UK. We maintain a continuing assessment policy with BBA, seismic, impact and cavity fire barriers added during the last year.

## RAINSCREEN - PARTNER WITH US!

*A traditional building material manufactured with precision that can be combined with modern materials like glass and metal with demonstrative effect. This is the appeal of ArGeTon®.*



## TIMELESS PERFECTION

The ArGeTon® façade has created a union between natural tradition and state-of-the-art technology. Its appeal when combined with steel, glass and wood lies in its subtlety, symmetry, natural elegance and timeless perfection. Thus it is the ultimate finish for modern buildings and refurbish ments. Compelling harmony is even achievable in locations with sensitive planning issues, for example when ArGeTon® is used adjacent to historic structures.

Façade cladding with modular plates of natural terracotta always results in sophisticated architecture whose unique design remains attractive and modern for many years.

*Below and bottom centre: Salmon Pastel red accentuates the expressive architecture of these buildings. All of the red colours are ideal for the creation of bold features and as an impressive overall theme. There are four shades of red to choose from, depending on the intensity of effect you seek to create.*





*Below: The bright shades in the ArGeTon® colour palette were specially developed at the request of architects who desire an amenable and vivid façade with which even large buildings can radiate a refreshing simplicity. Illustrated here are sand-coloured tiles.*

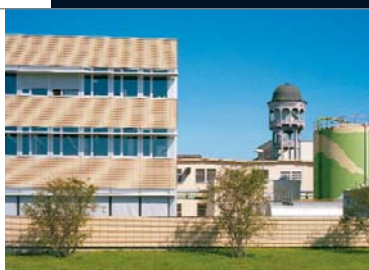


*Do you want your building's exterior to reflect its intrinsic function? Natural red (top), for example, makes a brisk and energetic impression. Tuscan red (above) communicates a solid and trustworthy nature.*





*The subtle sand tile leaves the observer with a positive, fresh impression.*



## AWARENESS AND SENSITIVITY

AgGeTon® combines technology and ecology with due regard to economic affordability.

It has become increasingly difficult to avoid synthetic components in today's market. Despite this, ArGeTon® facade tiles are made entirely from natural raw materials derived from a sustainable source to create a truly natural and pleasing effect.

Whether in a new building or refurbishment, an ArGeTon® facade promotes tangible environmental benefits. The facade is regarded as having superior performance in fire. The vertical joint profile prevents lateral shifting of the tiles and penetration of driving rain; its compression prevents rattling of the tiles in windy conditions.

The tiles pass through a special calibration device during production to ensure excellent dimensional accuracy - vital to the precise joint grid, which is in turn essential for the overall impression of the facade.

ArGeTon® collaborate internationally with manufacturers of membranes, cavity fire barristers, insulation and aluminium to ensure compliance with international design codes to supplement the existing assessed design life of our system of 50-100 years.





## LASTING IMPRESSION

An ArGeTon® facade retains an ageless aesthetic appeal. An innovative drainage concept resists staining. The facade plates are colourfast and will not deteriorate even when exposed to adverse weather. Your facade charisma will give you lasting and enduring pleasure.

*Whether against a natural backdrop or in grey urban monotony, the red shades, here brick red, create symmetry with contrast.*







## ENLIGHTENED REFURBISHMENT

The bespoke systems of support available to ArGeTon® ensure that tired and failing facades of the past can be transformed in to vibrant architecture that only the most discerning eye can detect is not newly built.

Thermal and acoustic upgrading, fire and weathering measures, fabric decay and remodelling of fenestration are all within the designed solutions offered by Telling Architectural via their lead contractors who hold the expertise to undertake multi-discipline facade refurbishment.

*Below: Offices in Germany - before and after*







## CAPTIVATING INTERIORS

ArGeTon® is a versatile and robust walling medium that can be adopted to create stylish and practical solutions for the interior designer. With the option to glaze the tiles to maximise freedom from maintenance and to introduce complimentary features with brushed metal trims there is no limit to the freedom of unique aesthetic impact.

Left: Reception to UK Medical Facility  
Below: School Canteen Germany

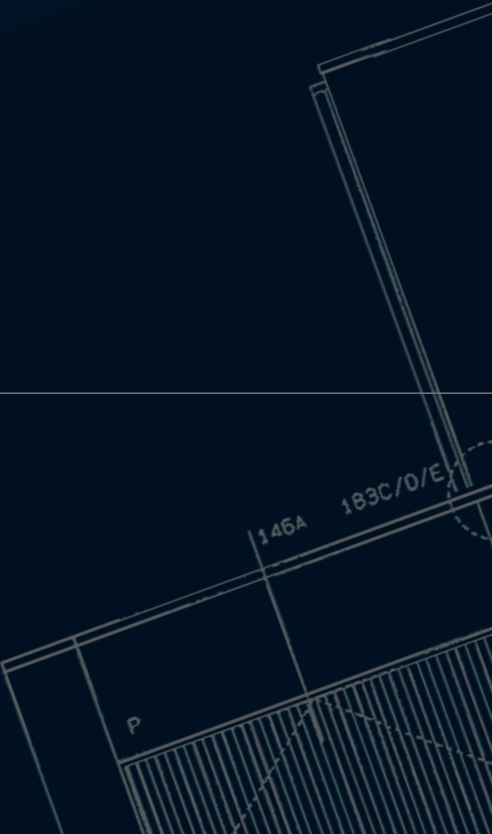


Right: Atrium in Irish offices

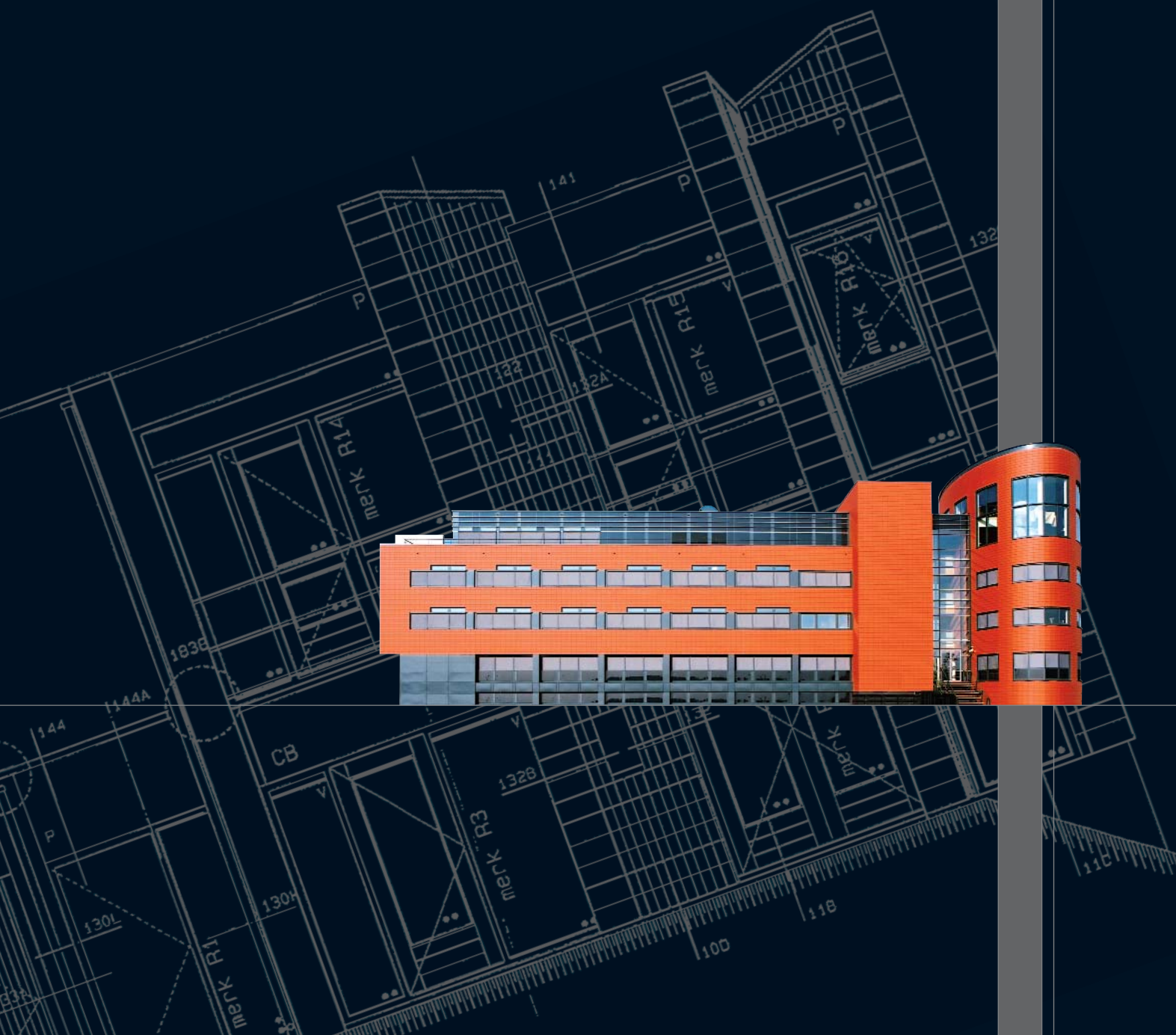




ARCHITECTURAL JOURNEY









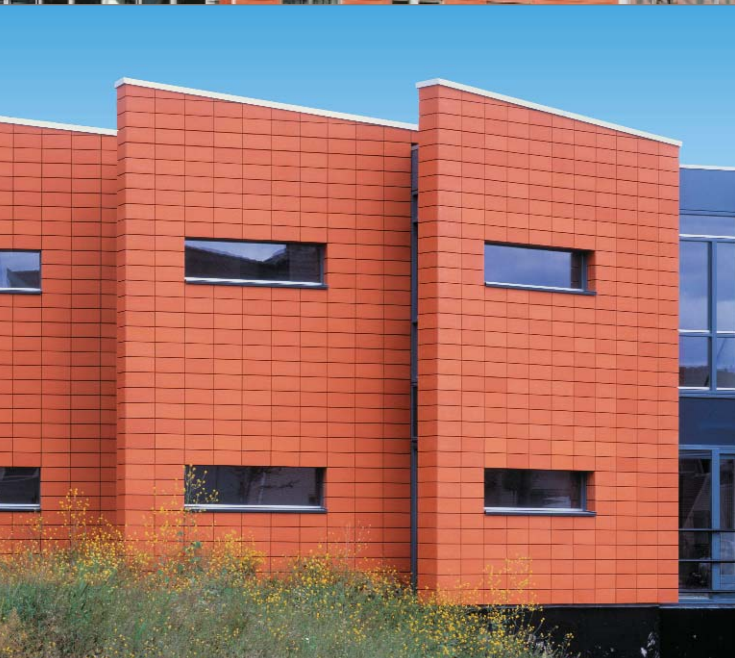
**INSPIRING AND CHARISMATIC**

The expressive harmony that a building radiates is wholly reliant upon its facade. Natural raw materias and colours in a cladding create a building aesthetics that enriches its environment. A captivating contrast is created between the warmth of the terracotta tile and the clinical precision of the overall system.



*ArGeTon®'s natural greys have a subtle and individual character. They offer fine nuances of earth or sand tones to the eye, which is accentuated by sunlight. The colour used here is volcano grey.*

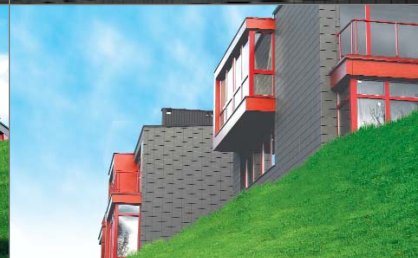




*Above: Glazed blue as a special colour.*

*The everlasting attraction of the reds lies in the contrasts they create. Façades that are prominent against a blue sky, greenery at the base of a building or water features - colour and form seem more intense. This building is clad in Salmon pastel red tiles (left) and natural red tiles (above left).*





When using coloured components it is recommended that you choose grey shades from the ArGeTon® palette. The colours appear more vivid; but the building as a whole radiates tranquillity, safety and reliability. This building has an attractive combination of iron grey with contrasting red window pads.
















Compelling contrasts are also possible with the brighter colours. The sand tile combined with dark window frames creates an interesting effect that catches the eye without being overpowering.





ATTRACTIVE OPTIONS - CREATIVE SCOPE

The variety of profiles, dimensions and finishes of the tile enable a design that expresses your individual vision. It promotes tasteful coordination when combined with modern materials like steel and glass. Subtlety, elegance and timeless perfection are traits that permeate the entire range.

	TAMPA		TERZO			LINEO		Maximum length		BARRO
										 
	TAMPA	TERZO	TERZO 1	TERZO 2	TERZO 3	LINEO	LINEO	600 mm	1,500 mm	Ø 50/50 mm or 69/69 mm, max. length 1,200 mm
Size 150 mm	●		●					●		
Size 175 mm	●							●		
Size 187,5 mm	●							●		
Size 200 mm	●					●			●	
Size 212,5 mm	●								●	
Size 225 mm	●	●		●	●				●	
Size 237,5 mm	●								●	
Size 243,5 mm	●	●							●	
Size 250 mm	●						●		●	
Size 257 mm						●			●	
Size 300 mm	●								●	
Size 400 mm	●								●	

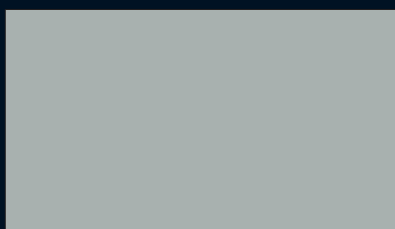
GENERAL SPECIFICATIONS

Thickness of tile: 30 mm ± 1.5 mm  
Standard lengths: 400 mm, 450 mm, 500 mm, 600 mm  
Max. length: 1,500 mm

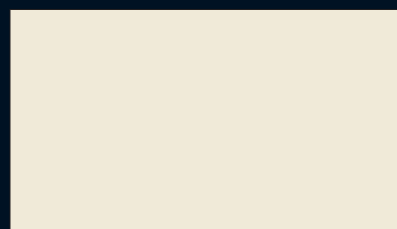
Longer elements can be prepared by joining several individual elements together. Other cross-sections on request.



Apricot beige



Glacier blue



Pearl white



Salmon pastel red



Light grey



Sand



Tuscan red



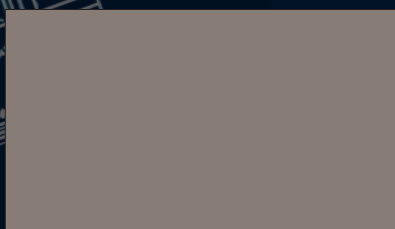
Platinum grey



Sahara yellow



Natural red



Iron grey



Red brown



Volcano grey

#### Note

To get a true impression of the colours of the ArGeTon® façade tiles, please request sample facade tiles.

#### Finishes

Natural, glazed, brushed as standard

The colour palette of 13 shades reflects contemporary nuances in façade design. Sophisticated firing processes and selected clays are key constituents in the production of the natural fired colours. Their outstanding feature is their quality and weather resistance. Creative power is in your hands!



## FOCUS ON: TECHNICAL PRECISION

The ArGeTon® process is internationally acknowledged as the pioneer of dual skinned extruded clay technology for rainscreens. Our modern production facilities, selected clay resource and quality management systems ensure unequalled tolerances and consistency of product that are a pre-requisite to create precision, low porosity and high impact resistance in the façade. The distinctive and variable joints and tile formats enable designers to create a variety of facade aesthetics ranging from the "brick effect" of the Terzo profile to the simulated plank appearance created with narrow joints.



### MASONRY WALLS - NEW AND EXISTING

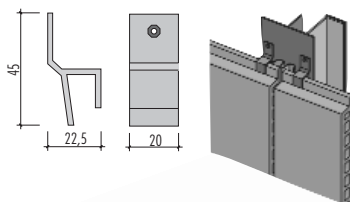
#### Aluminium substructure with vertical 'T' support rails and adjustable brackets

Aluminium brackets are fixed with approved fasteners along the horizontal axis of the support wall, spaced as structurally necessary. In this regard, attention must be paid to the design of fixed and floating points according to BS 8118: Part 1:1991

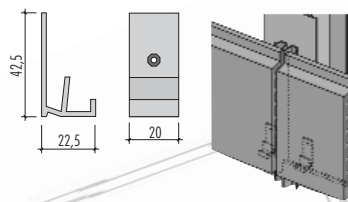
Vertical aluminium 'T' section support profiles are inserted into the brackets (a special receiver jaw enables exact adjustment). Once the support profile is aligned it is fixed with blind rivets or screws. The best results are achieved if the 'T' sections are pre-punched to the tile grid.

The ArGeTon® tiles are mounted on the substructure free of tension using self-tapping stainless steel screws or aluminium hollow rivets, and held in place at four points with proprietary clips. Tiling of the façade is undertaken from the bottom of the panel upwards.

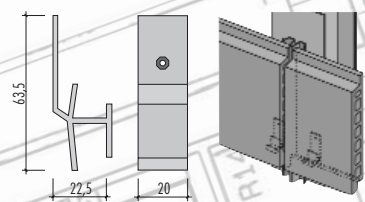
Upper clip for ArGeTon® tile



Lower clip for ArGeTon® tile



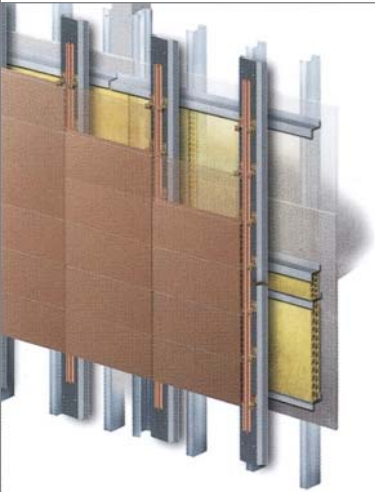
Centre clip for ArGeTon® tile



## LIGHTWEIGHT STEEL FRAME WALLS

### Aluminium substructure with horizontal rails and vertical 'top hat' sections

The demands of the industry for creative architecture, thermal performance, speed and versatility, increasingly lead to substantially different forms of construction. Telling remain at the forefront of the development of lightweight steel walling systems primarily for a new building but also in remodelling where ArGeTon® transforms tired structures in to new vibrant architecture. Traditional cavity construction has substantially been replaced by methods that are lightweight, achieve improved energy efficiency and are versatile, fast and built to exacting tolerances ArGeTon meets all the above performance criteria as well as those of fire, acoustics, airtightness and weathering combined with a modern aesthetic.



### Performance Criteria

Weight is an ever important factor. The systems will generally be less than 80kg/m<sup>2</sup>

### Speed and Versatility

Lightweight steel walling enables the structure to be made watertight within days of the frame construction. The walling can be used in traditional construction with the steel frame acting a restraint system for stone or brick. By this process the external facade can be removed from the critical path of the programme.

### Cost

There remains the perception that masonry is cheaper than lightweight steel walling, but when site time, scaffolding, hoisting weather delays and pressures upon trade skills are calculated, there is little difference.

### red-modelling

For red-modelling of buildings, to renew or replace the previous windows or structural glazing the lightweight steel walling provides a robust substrate for ArGeTon overcladding. System built structures from the 60's and 70's are being extensively refurbished confidently in the knowledge that degradation is minimal upon a structure that will be warm and dry for the remainder of the day.

### Loads and Fixings

Advancements in the fixings industry have enabled the systems too be designed to withstand the highest of wind loads and to provide support to interfacing elements of glazing and cladding.







## OFFSITE MANUFACTURE & PANELIZING

### Prefabrication

ArGeTon® can be selected for use in all recognised construction forms. Our versatile and unique support systems enhance the flexibility available to the fabricator to compliment their specific panel designs and meet all performance criteria. Speed of erection, construction without scaffolding, reduced weather delays and early enclosure are the primary attributes of panelized ArGeTon®. The support systems are interchangeable to suit specific design requirements for panel or unitised curtain wall installations and our in-house design team are available to provide assistance.

Whilst the demand for offsite manufacturing to be maximised is expanding in Europe it is wholly established in the USA by companies who have geared their operations to providing these skills. Spacious and mechanised facilities with overhead cranes, metalworking and fabrication are combined with excellent finishing skills. An in depth awareness of the design technology for sealed and rainscreen applications is required to meet the varying building codes nationally and Telling Architectural are forging partnerships with contractors offering these techniques.

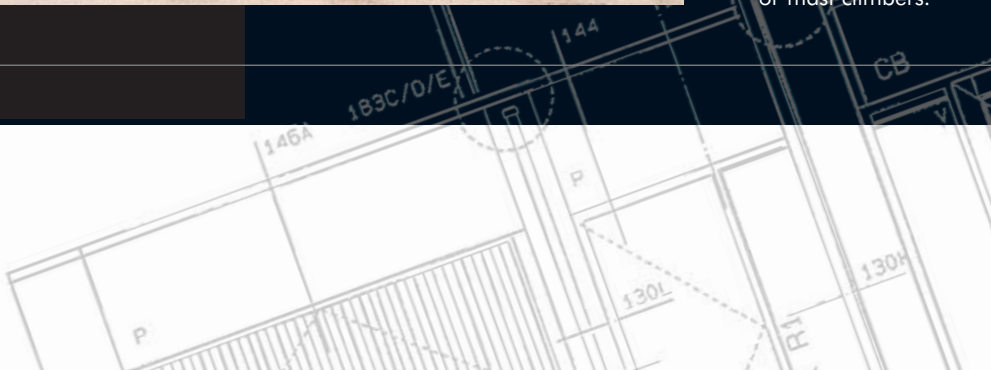
Where ArGeTon® is to be transported as a unitised curtain wall or with glazing incorporated in the panels, special skids are commonly prepared for road transport.

Off-site panelized walls will span continuously from floor to floor outside the line of the structural frame. Connections to the frame are bespoke to the specialist contractor and will combine brackets, angles and welded connections with provision made for structural deflections within weather sealed joints.



The Atlantic Terminal project in Brooklyn, New York had a combination of unitised curtain wall, off site panelized and in situ installation of the ArGeTon® terracotta.

Crawley Schools PFI in the UK used pre-glazed prefabricated steel panels and insitu installed terracotta. On buildings up to three floors that do not suffer from access difficulties the best cost option can be a combination of panelized walling and insitu fixed terracotta using mobile scissor lifts or mast climbers.





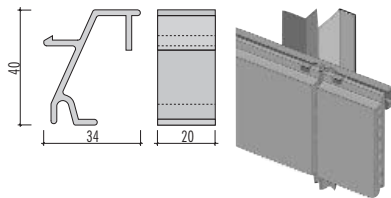
## CURTAIN WALLING

### Aluminium substructure with horizontal support rails

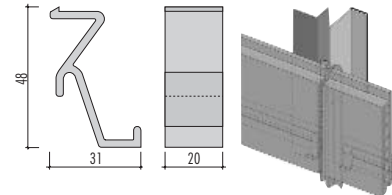
This support method is popular where ArGeTon® is to be installed on to a unitised or curtain wall system where the span of the vertical sections may be at extended centres. It may also be used where greater than normal projections from the structural wall are desired.

The substructure consists of vertical angle section support profiles fixed to the building by wall brackets. Horizontal aluminium support profiles are fixed onto the vertical support angle substructure. The spacing is determined by the selected height format of the ArGeTon® tiles, which are fastened to the horizontal support profiles using special clamps. The maximum span of the horizontal profiles is 1.25 m.

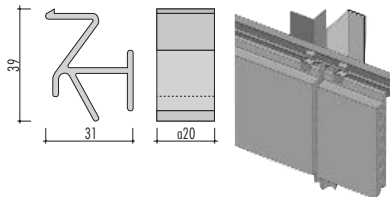
Upper clip for ArGeTon® tile



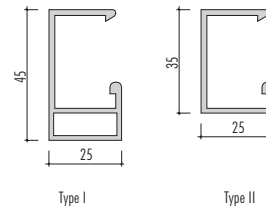
Lower clip for ArGeTon® tile



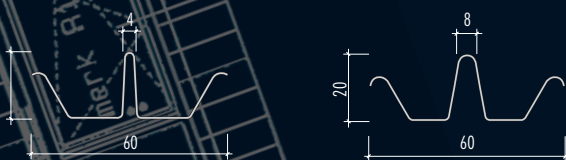
Centre clip for ArGeTon® tile



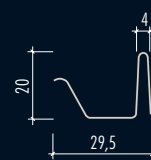
Horizontal support rail



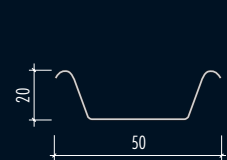
Aluminium joint profile for ArGeTon® tile



Aluminium joint edge profile



Aluminium groove joint

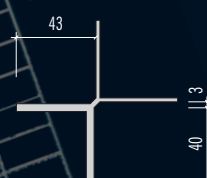


Aluminium corner profiles for ArGeTon® tile

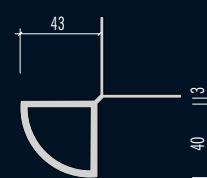
Square Box



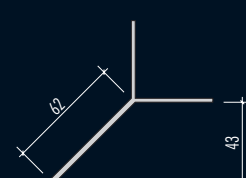
Open Cruciform



Half Round



Corner Blade



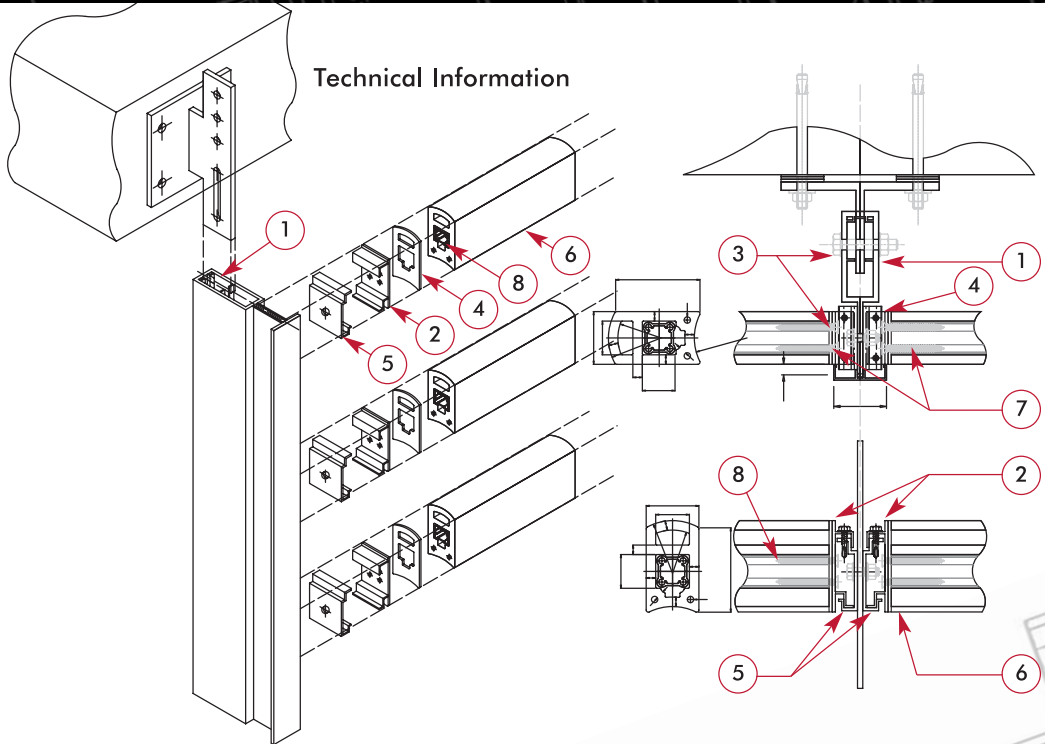
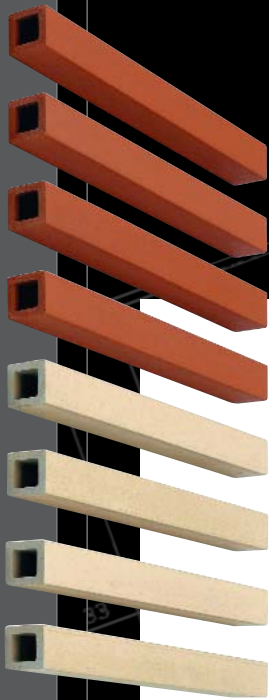
All figures in mm.



## BARRO - THE ArGeTon® BAGUETTE SUNSCREEN

The terracotta baguette system from ArGeTon® can be utilised for solar protection, as an effective ventilation screen with security against access or purely as a decorative element. The Barro Baguette offers captivating elegance within a functional element of the facade.

Barro is available in maximum lengths of 625 mm that are incorporated in a hollow section of aluminium tube spanning up to 1.50 metres between vertical posts.



### Parts List

1	Support mullion – spans floor to floor
2	Barro clips
3	Support fixings
4	Neoprene pad
5	Barro receiver clips
6	Barro baguette
7	Stainless steel screws
8	Barro support profile



## Barro Colour Options

Created with the same precision and quality as the ArGeTon® Terracotta Rainscreen, the Barro is a versatile accessory that will compliment many schemes. Available in the full ArGeTon® colour pallet, the Barro naturally combines with the modular tile system in both attachment method and design aesthetic.



## OUR PROMISE

From selection of the clay through the different stages of production and on to the firing processes: great emphasis is placed on achieving lasting, weather-resistant quality. Numerous quality controls and regular test certificates go into ensuring this.

But we don't stop there, because the measure of our satisfaction and our continuing goal is to cater to your demands, wishes and ideas, to provide answers to your questions and to generate solutions before problems arise.

The driving force behind our daily work lies in our striving to surpass your expectations.



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