

The modern alternative
to **traditional metal**
roof and walls

vieo



euroclad
group



ABOUT VIEO

Vieo is a standing seam metal roof and wall system for a sophisticated and highly aesthetic design that works on a range of buildings.

Vieo Systems comprise of an interlocking aluminum or steel sheet that can be used as part of roof, wall or a rainscreen façade construction.

Vieo provides a cost effective solution against traditional materials like zinc and lead and is a manufactured sheet product, which is more effective and less onerous to install than traditional materials.

**Sophisticated
standing seam**

Rapid installation
Roof or wall system

**Factory
manufactured**

Cost effective
High quality



VIEO: NOUN A STITCH OR SEAM

Verb to weave together, stitch, seam.
Origin Latin.
Phonetic: Vee-oh.



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EUROCLAD GROUP

Leading international supplier of architectural metal building solutions to the construction industry.



SWANSEA BAY UNIVERSITY TEACHING FACILITY



TONYREFAIL SCHOOL

We manufacture highly engineered building envelope products including roof and wall cladding systems, insulated composite panels and architectural flashings and fabrications.

We have three main product groups each having their own unique product offering and place in the market, when combined together form the Euroclad Group, an international supplier of metal building solutions.

Built Up Systems: Euroclad Systems include the market leading range of Euroclad Elite Roof and Wall built up systems featuring their array of premium architectural profiles.

Insulated Panels: Eurobond Panels offers a range of high quality insulated metal composite panels systems that can deliver a clean, smooth and aesthetically appealing solution.

Flashings & Fabrications: Euroclad Architectural supply the construction industry with a range of metal flashings, fabrications and rainwater goods.



REDNOCK SCHOOL



CELEBRATING 40 YEARS

Today we are a modern, market leading business with an established reputation of innovation and quality since our inception in 1981, consistently investing in people and technology to satisfy customer needs.

Cutting edge UK manufacturing maintains Euroclad's position at the forefront of the metal roofing and cladding industry.

As part of its commitment to quality, service and the environment, Euroclad operates a Quality Management System approved to BS EN ISO 9001:2015 and an Environmental Management System approved to BS EN ISO 14001:2015.

Building a better future together

SYSTEM BENEFITS

Aesthetics

Vieo Systems offers a wide range of materials and colours to help you achieve your architectural vision.

Our systems are available in pre-finished steel and aluminium.

Flexibility

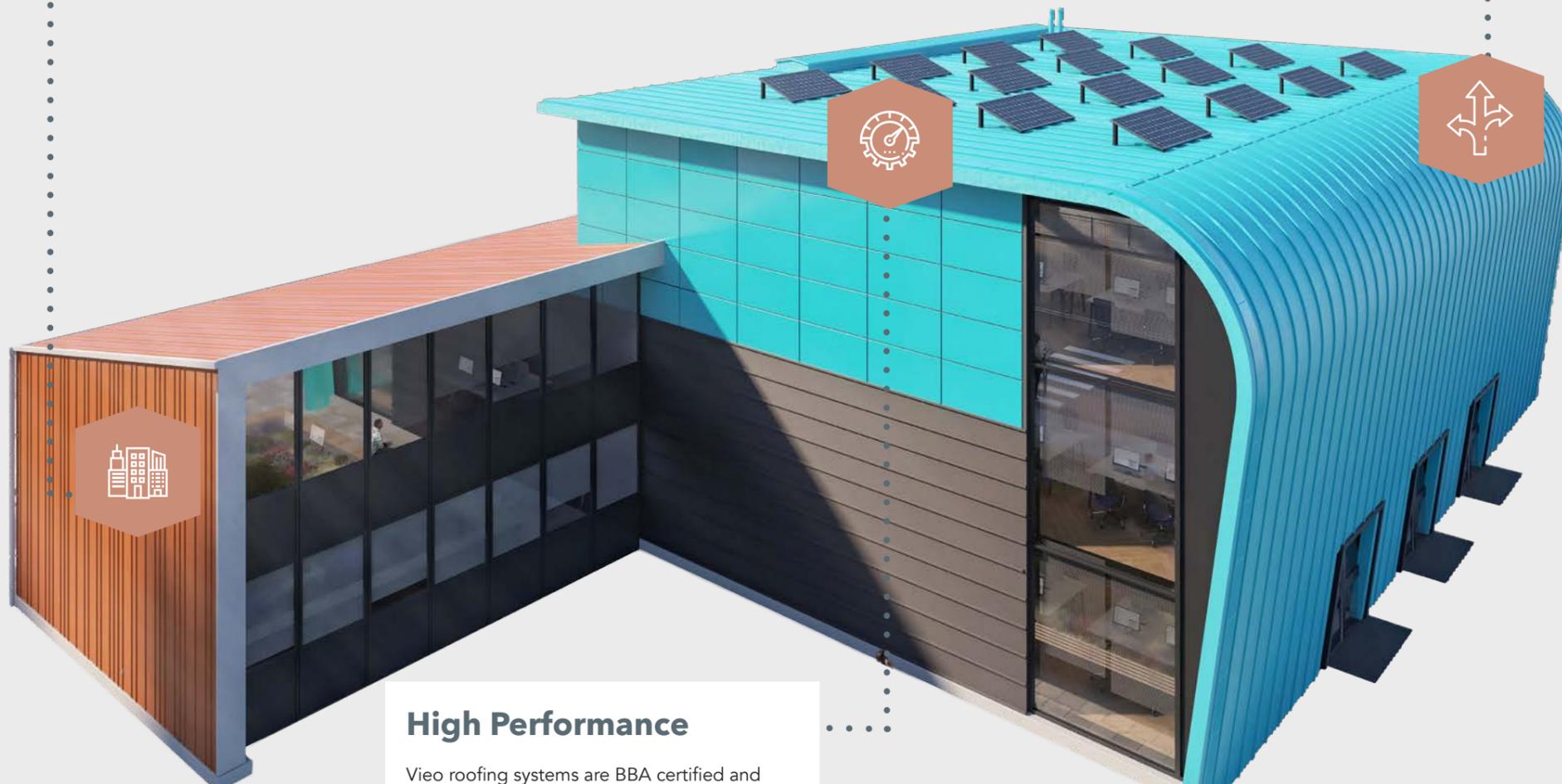
Modern design demands a flexible product and Vieo can be curved down to a radius of approximately 2m in steel and as little as 0.5m in aluminium.

Vieo systems are available in straight, curved and tapered sheet options, enabling you to create creative architectural forms.

High Performance

Vieo roofing systems are BBA certified and meet rigorous industry standards.

Enabling you to specify a high performing roofing system that meets all the required Building Regulations.



VIEO PRINCIPAL

Convenient and cost effective are two terms that perfectly describe the Vieo roof & wall system from Euroclad Group.

It is a quickly installed alternative to traditional roofing and is manufactured using the latest technology to facilitate a straightforward installation whilst offering the aesthetic and charm of time-honoured materials like lead or zinc.

The principle is simple and effective. Vieo is a metal roof or wall covering that is mechanically fixed to provide a clean design with hidden fixings and the look of a traditional metal roof or wall. The Vieo sheet features simple edges known as seams or laps that fit over and under each other, either side of the sheet.

These laps sit over a stainless steel clip that is fixed to the support structure. The laps are mechanically folded over the clip to secure the roof.

- Simple, cost-effective alternative to traditional roofing systems
- Can be applied to roof and walls
- Option of warm and cold systems
- Hidden fixings for a clean, attractive finish
- Fast construction aided by the pre-punched Euroclad RocBar
- Factory manufactured or produced on-site using specialist mobile equipment
- Available in straight, curves and tapered sheet options
- Euroclad RocSlab insulation is quickly laid and provides a walkable surface
- Warm roof version is Part L compliant
- Warm roof version provides excellent acoustic performance
- The system can be joggle jointed on roof pitches down to a 5° finished pitch, should it be required



Overlap & Underlap

90° for walls & Steel roofs

30° for aluminium roofs

CONSTRUCTION TYPES

Construction types for Vieo can be broadly described as **“warm”** or **“cold”** systems.

The types are defined in BS5427:2017 Code of practice for the use of profiled sheet for roof and wall cladding based on position of thermal insulation in the construction, as follows:

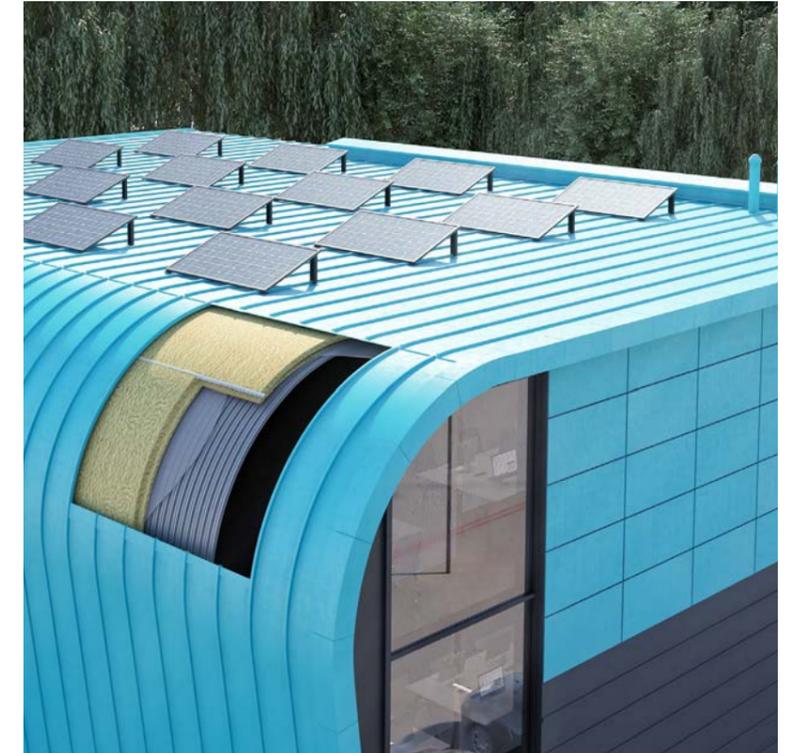
Warm roof or wall - where the principle thermal insulation layer is placed immediately inside the outer profiled sheeting, resulting in the supporting structure and any voids being at a temperature close to that of the interior of the building.

Cold roof or wall - where the principle thermal insulation layer is placed at or immediately inside the internal lining, resulting in the external profiled sheet being substantially colder (in winter) than the interior of the building.

Cold roof constructions require adequate ventilation provision to the void outside the insulation and around the cold materials, a breather membrane is also required in these constructions. These measures are designed to help avoid condensation issues occurring at the cold surfaces. Warm roofs are reliant on good provision of vapour control at the warm side of the insulation and a breather membrane is not usually required.

Having defined the system as warm or cold, the support condition for the Vieo sheet also needs to be considered as **“Fully supported”** or **“Self-supporting”** according to BS EN 14782 and BS EN 14783 respectively.

Traditionally, metal strip products have been governed by BS EN 14783 where intended for fully supported applications for roof and wall cladding. The requirement for support being largely driven by the choice of traditional metals such as zinc, copper and of course lead when used as weather coverings which require full support to enable the transfer of loading and to prevent damage to the sheets and to the supporting structural elements.



BS EN 14782 governs self-supporting metal sheets and tiles (for non-structural applications) delivered in the form of manufactured pieces for roofing and wall cladding. **“Non-structural applications”** in this context references their use as sheet coverings which transfer wind, snow and construction loads to the supporting structure but which **“do not contribute to the global or partial stability of the building structure”**.

In this case the supporting structure does not need to fully support the sheet but provides support at given spans allowing the loads to be transferred through those supports and into the structure. For example timber battens as commonly used in slate and tile roofs which also allow for ventilation directly behind the covering.

Vieo steel and aluminium sheets have sufficient strength to resist such loadings when spanning timber battens at traditionally used centres such as 300 and 600mm, thus allowing Vieo to be used in a way that has not been possible to date using traditional metals.

Warm (non-ventilated)
Fully supported

Cold (ventilated)
Fully supported Self Supporting

VIEO CERTIFICATION

Vieo roof systems are BBA certified and offer a number of significant options not covered by other, similar products. Although Vieo was originally conceived as a roofing product, it has been extensively used for wall constructions since its inception.

Euroclad Vieo Roof Systems, comprising interlocking profiled aluminium or steel sheets holds BBA Certification No. 04/4151 Product Sheet 4.



VIEO ROOF



Vieo has become increasingly popular as an product for use on walls. Vieo warm wall systems employ principles that have been utilised in built-up metal wall systems for many decades. These principles are extremely well established in the UK marketplace.

Whilst third party certification such as BBA certification can be useful in summarising a range of performances, in the context of wall systems it should be recognised that it is not the only means of performance verification. Euroclad Group are engaged in the development of certification coverage for Vieo wall systems to meet the rapid growth in demand we are experiencing, including coverage with BBA.



Scan to download copy of our BBA certification or visit, or visit our technical resources on our website.

In the interim we are able to supply supporting documentation for all aspects of performance and have provided solutions through consultation with contractors and insurance bodies on projects requiring approval. For example:

Structural performance of Vieo systems is confirmed by testing and calculations compliant with the appropriate Eurocodes – each element of the systems in the load path is considered using the same process as for our certified roof systems and the same fixing principles and arrangements are used.

Thermal performance is calculated on software compatible with BS EN ISO 10211-1/10211-2 according to the conventions in BR443 as referenced in Part L of the Building Regulations. Euroclad thermal models, calculations and methodology have been externally verified by certification bodies such as BBA over many years.

Interstitial condensation risk is calculated on specialist software in accordance with BS 5250 as it is for our certified roof systems.

Vieo sheet materials durability is already broadly confirmed in existing BBA certification and Euroclad Group can provide additional guarantees for Vieo systems.

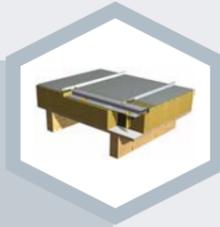
Fire performance is confirmed on page 38 of this brochure and testing is ongoing.

For the latest technical information, please refer to our website.

WARM ROOF

The warm roof system is insulated within the roof system build up.

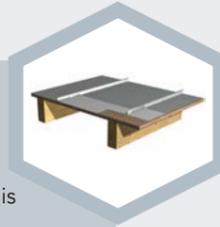
The warm roof system features inherent thermal performance, whilst the outer sheet provides the look of a traditional pitched roof.



COLD ROOF

The cold roof system is fitted over ventilated lofts where the insulation is at ceiling level.

Both warm and cold roof systems have full BBA certification ensuring its acceptance for housing constructed under the control of the NHBC.



NATURALLY WOODLANDS, LLANHARAN

VIEO ROOF SYSTEMS

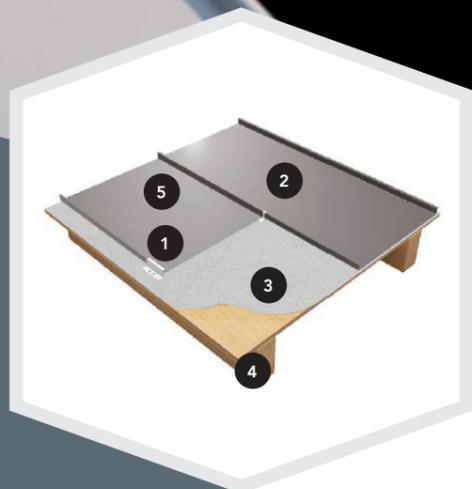
Vieo roof systems embrace the fundamentals of modern metal roofing, whilst the outer sheet provides the look of a traditional standing seam roof. The systems utilise off-site manufactured flashing details which, combined with materials, helps to keep costs to a minimum. This simplicity avoids the need for specialist craftsmen and on-site detailing. The sheets and flashings can be supplied curved and tapered sheets can also be produced.

Available in a range of different materials and colours, Vieo is suitable for use in residential and non-residential buildings such as schools, hospitals, industrial, commercial, retail and leisure applications. For material options please refer to page 31.

The systems can be fixed to a continuous deck or other supporting structure capable of transferring variable and permanent load actions (i.e. fully supported application) or the sheets can be fixed to timber battens (i.e. self-supported application).

Vieo is suitable for roofs with a finished pitch of 1° to 70° and for curved installations where access is available for maintenance and repair.

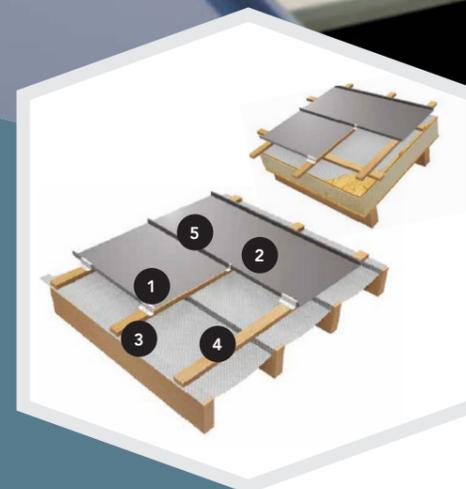
By provision of the ventilation space, these constructions are classed as cold roofs.



1. Vio stainless steel clips and stainless steel self-drilling fixings.
2. Vio external sheet with 454mm cover width. Other widths are available on request.
3. Breather membrane with 150mm laps.
4. Timber deck substrate and supports.
5. Available in steel or aluminium.

COLD ROOF FULLY SUPPORTED

The cold roof system has been specifically designed for use on traditional pitched roofs as a simple but durable and attractive covering with the kind of timber frame that is used in the majority of homes and many large buildings.



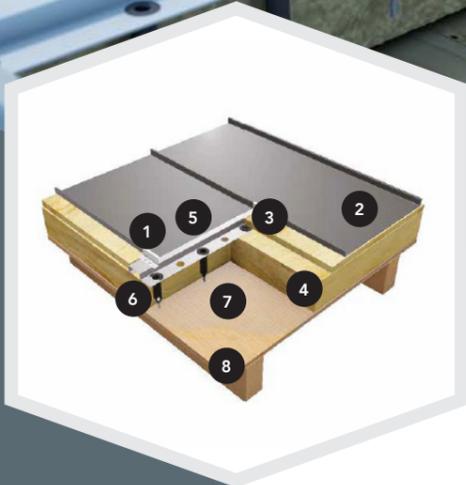
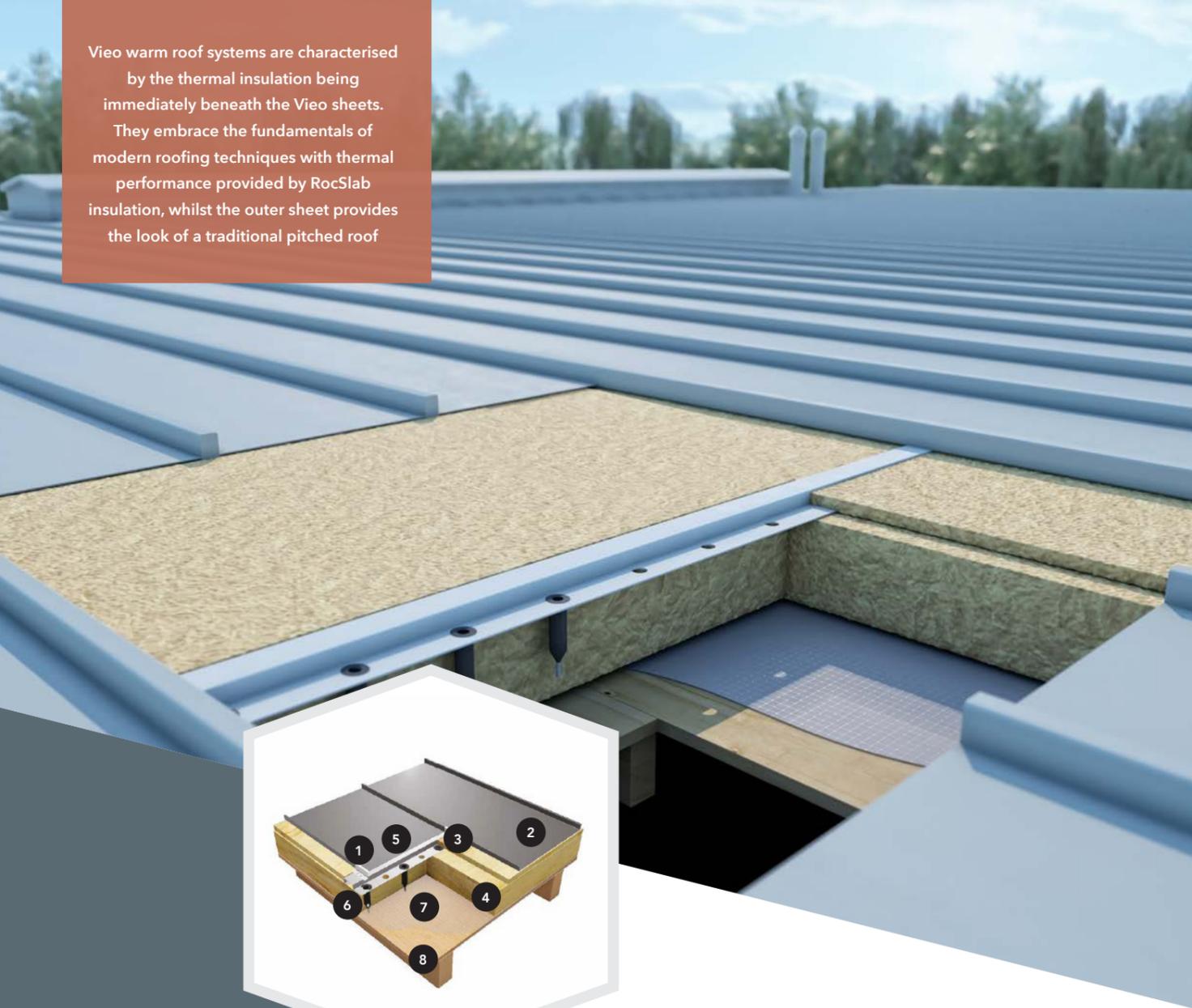
1. Vio stainless steel clips and stainless steel self-drilling fixings.
2. Vio external sheet with 454mm cover width. Other widths are available on request.
3. Breather membrane with 150mm laps.
4. Timber battens.
5. Available in steel or aluminium.

COLD ROOF SELF-SUPPORTING

Vio constructions are usually fully supported but steel Vio options are available as a self-supporting roof, using timber battens. This construction may be more familiar to tile, slate and traditional metal roofing installers.

This allows the sheets to be fixed without a continuous supporting substrate and to be fixed to supports such as timber battens as used for tiling or to provide ventilation on SIPS if required.

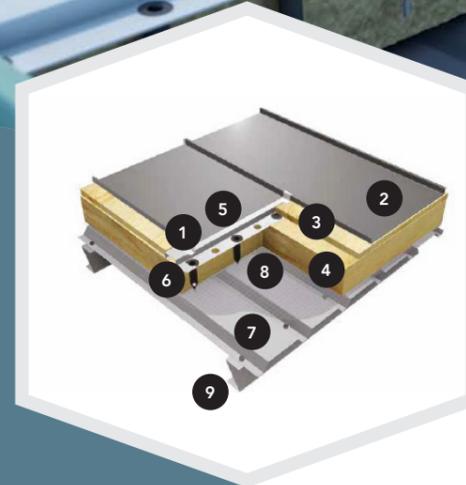
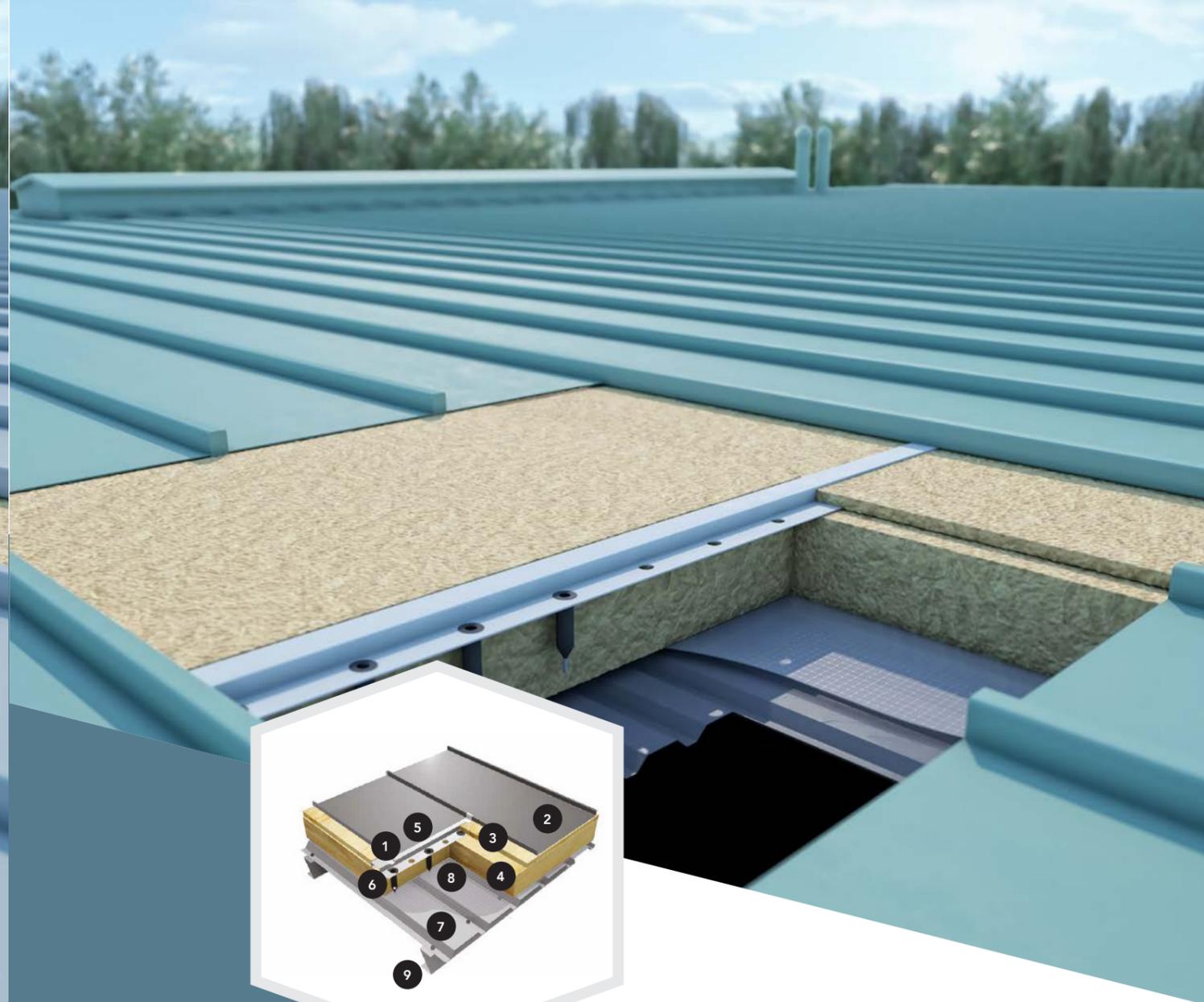
Vieo warm roof systems are characterised by the thermal insulation being immediately beneath the Vieo sheets. They embrace the fundamentals of modern roofing techniques with thermal performance provided by RocSlab insulation, whilst the outer sheet provides the look of a traditional pitched roof



1. Vieo stainless steel clips and stainless steel self-drilling fixings.
2. Vieo external sheet with 454mm cover width. Other widths are available on request.
3. 25mm RocSlab insulation.
4. Euroclad RocSlab insulation.
5. Euroclad RocBar.
6. Euroclad RocTube fixing sleeves and self-tapping fixings.
7. VCL.
8. Timber deck and structure.

WARM ROOF TIMBER DECK

This warm roof system is designed for use with traditional timber frame constructions with a continuous substrate such as 18mm WBP plywood or OSB3 supporting the RocSlab and a VCL at the warm side of the insulation.

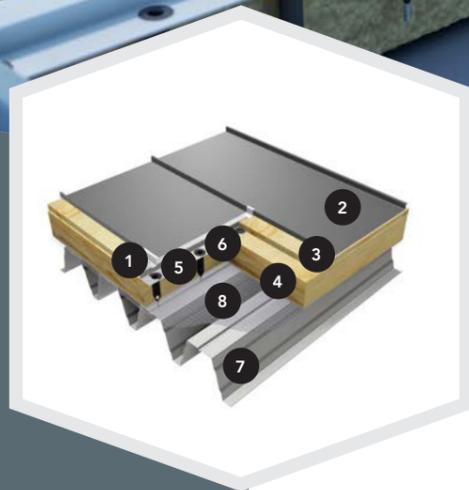
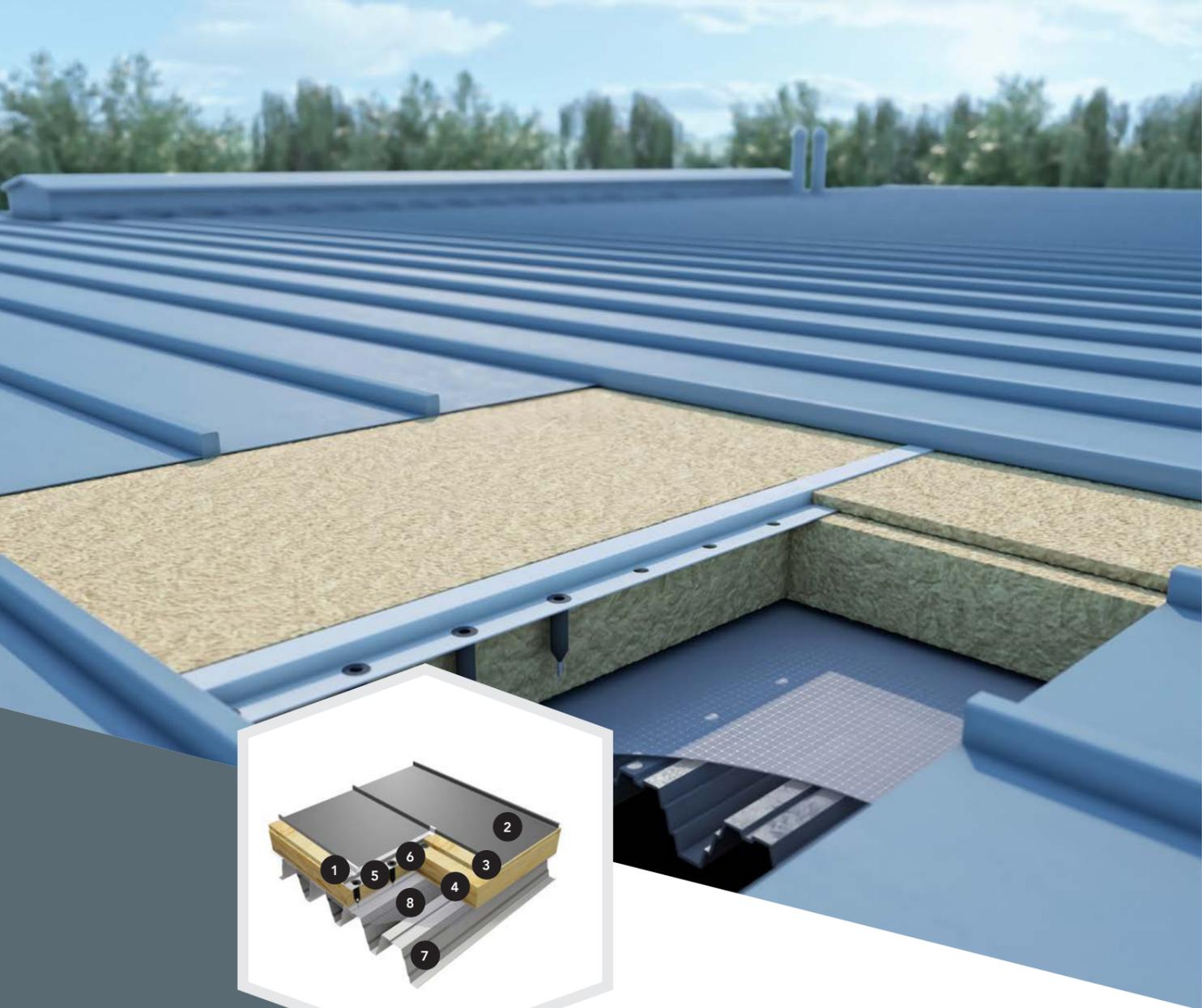


1. Vieo stainless steel clips and stainless steel self-drilling fixings.
2. Vieo external sheet with 454mm cover width. Other widths are available on request.
3. 25mm RocSlab insulation.
4. Euroclad RocSlab insulation.
5. Euroclad RocBar.
6. Euroclad RocTube fixing sleeves and self-tapping fixings.
7. Metal liner substrate EC 32-200-1000 MW5 3D.
8. Euroclad vapour barrier with 150mm sealed laps.
9. Euroclad Steel Purlins.

WARM ROOF ON MW5 METAL LINER

Designed for use on steel framed buildings, the metal liner provides support to the RocSlab insulation.

The standard MW5 inverted liner profile in 0.7mm steel polyester coated is Class A1 reaction to fire and has a 200mm profile pitch, perfectly matching the standard fixing centres for RocBar.

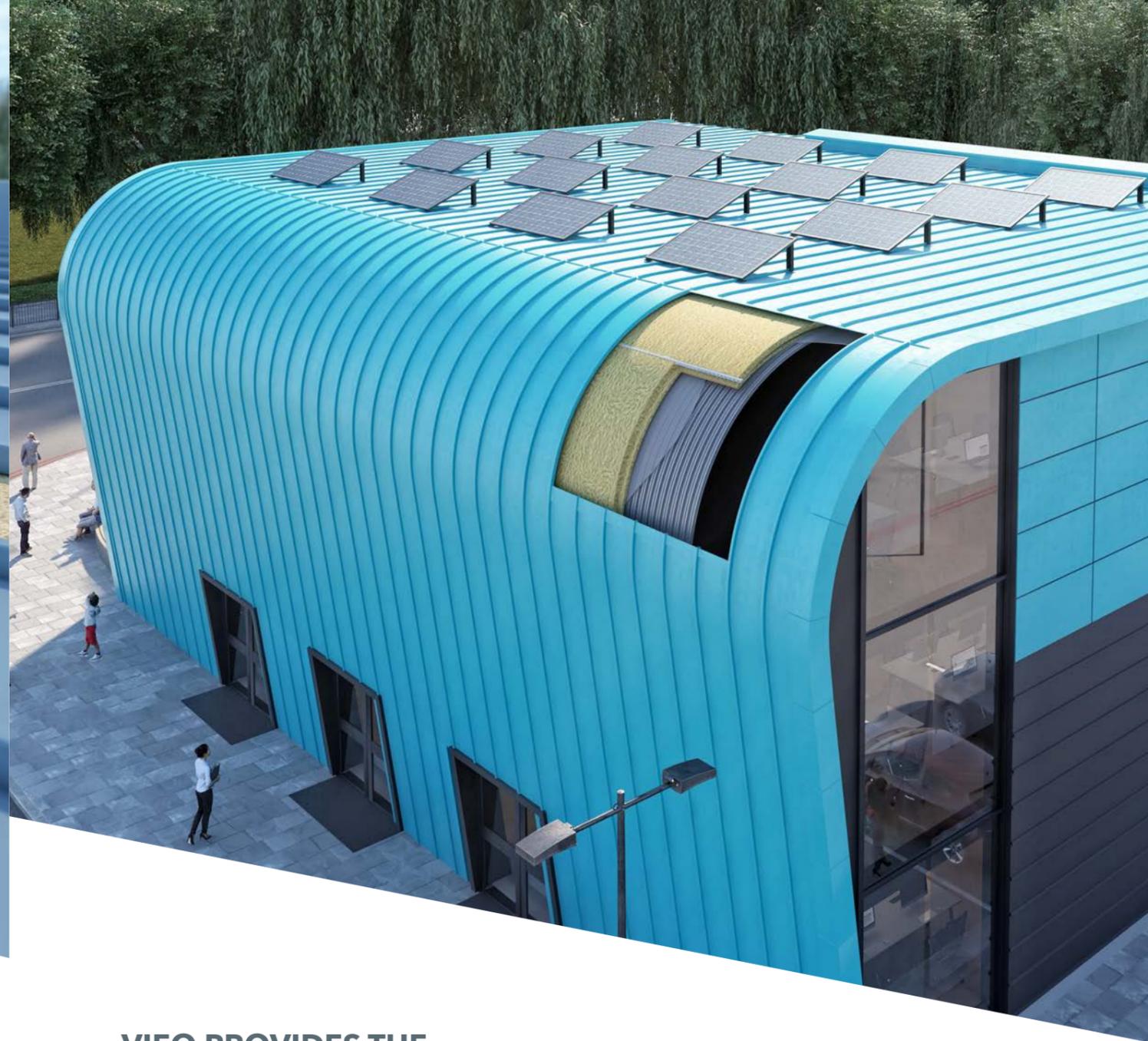


1. Vieo stainless steel clips and stainless steel self-drilling fixings.
2. Vieo external sheet with 454mm cover width. Other widths are available on request.
3. 25mm RocSlab insulation.
4. Euroclad RocSlab insulation.
5. Euroclad RocBar.
6. Euroclad RocTube fixing sleeves and self-tapping fixings.
7. Metal structural deck substrate.
8. Euroclad vapour barrier with 150mm sealed laps.

WARM ROOF STRUCTURAL DECK

Structural metal decks can create flexible, column free internal spaces and also provide an excellent supporting substrate for Vieo warm roof constructions. Structural decks supplied by Euroclad can be used spanning gable to gable (across the roof slope) whereby they can easily form curved roofs. They are available in a wide range of profiles to suit spanning conditions and can also be used to provide acoustic absorption performance by use of the perforated deck options.

BBA certification covers the performances of the roof systems as stated within the certificate. Some elements are outside the scope of the certification such as the structural performance of the various structural decks, SIPS panels and timber substrates or the thermal performance of the RocSlab Lite constructions. However, these performances can all be verified independently and Euroclad can confirm the performances for all elements of the system supplied by ourselves (this excludes SIPS or timber substructures).



VIEO PROVIDES THE AESTHETIC AND CHARM OF TIME-HONOURED MATERIALS LIKE LEAD OR ZINC.

IT CAN BE CURVED OR TAPERED, MAKING IT EASY TO ACHIEVE RELATIVELY COMPLICATED BUILDING DESIGNS.

vieo



VIEO WALLS

Vieo is very versatile and can be used for both roof and wall applications.

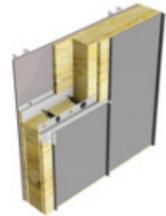
When used as a wall system, Vieo can produce striking and sophisticated architectural lines creating a bespoke look on a wide range of building applications.

Vieo is a sheet product employing sliding clips to attach to the structure. The principles of the system are the same for roof and wall applications.

Available in a range of different materials and colours, Vieo is suitable for use in residential and non-residential buildings such as schools, hospitals, industrial, commercial, retail and leisure applications.



Timber



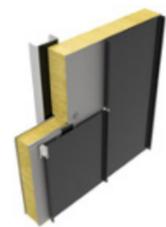
Metal (Secondary Steel SFS)



Metal (Secondary Sheeting Rails)



Blockwork



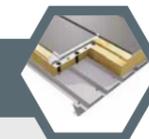
Composite Panel

VIEO SYSTEM COMPONENTS

All Vieo Systems have Vieo sheets, clips and fixings.

Please refer to our extensive technical installation manuals or contact rcs.technical@eurocladgroup.com for advice.

External Profile



The external sheet is factory manufactured or produced on-site and is quickly fixed to the roof in long strips using a simple overlapped seam. It can be produced in steel or aluminium in a range of attractive finishes.

Stainless Steel Clips



This innocuous looking device provides a stable, hidden fixing. The sliding clip with associated fixings allows thermal movement of the roof sheets along their length, but retains a vice-like grip, firmly securing sheets against the elements.

Insulation



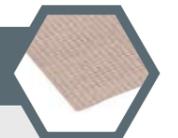
RocSlab is a high quality mineral fibre product produced by industry leading suppliers exclusively for Euroclad and supplied as part of our system offer. RocSlab's compressive strength characteristics allow it to provide a robust surface during installation and to effectively support the Vieo sheet and transfer loads to the substructure. It is non-hygroscopic, rot proof, does not sustain vermin and has excellent fire and acoustic properties.

Euroclad RocTube Fixing Sleeves And Self-Drilling Fixings



Euroclad RocBar with RocTube fixings and self drilling screws significantly reduces cold bridging through the insulation slab. The tubes provide a guide and sheath for the fixings, alternative all stainless steel fixings are also available for many constructions.

Euroclad Vapour Control Layer



A vapour control layer provides resistance to vapour passing from warm internal conditions into a construction and is essential for warm roofs. Effective vapour control can be achieved by including a proprietary VCL product in roll form. Euroclad supply VCL's sourced from leading industry suppliers. Class A reaction to fire and high humidity are also available.

Euroclad Breather Membrane



A breather membrane protects the roof substrate by allowing water vapour to escape a construction. Vapour passes through the membrane but is prevented from re-entering the construction after the vapour condenses.

The use of breather membranes is an important tool in modern construction and is a standard requirement for Vieo cold roofs.

Euroclad can provide its breather membrane as part of the system offer or a suitable breather membrane may be provided by others as part of their construction works.

We only recommend the use of breather membranes that are BBA certified appropriate to the proposed use, and they should be used in conjunction with other measures such as ventilation and vapour control. Also available in Class B fire rated version.

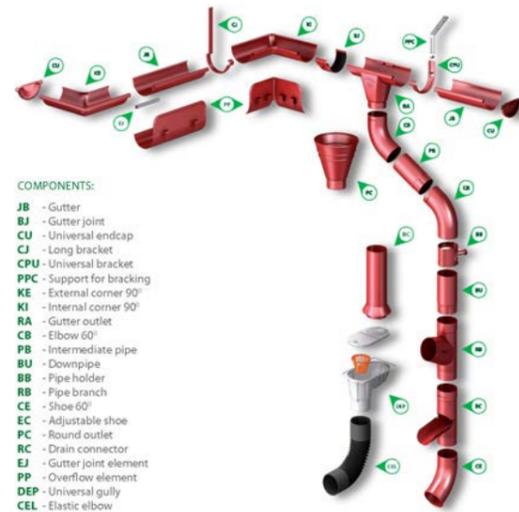
RAIN WATER SYSTEMS

RAINART GUTTERS

Complete your system with our rainwater range.

RainArt is a premium half round metal gutter system providing a stylish and long-lasting rainwater solution.

As a comprehensive solution, components are available to cover a range of possibilities. Roof drainage systems manage the flow of water from the roof to drainage, working in concert with the roof structure.



Component	
Gutter 3M	JB3
Downpipe 3M	BU3
Gutter Joint	BJ
Rectangular Hopper	PCD
Downpipe Bracket	BB
Gutter Bracket	CPU
Gutter Stop End	CU
Gutter Internal Corner 90 degree	KI90
Gutter External Corner 90 degree	KE90
Gutter Internal Corner 135 degree	KI135
Gutter External corner 135 degree	KE135
Gutter Outlet	RA
60 Degree Downpipe Corner	CB
Downpipe Outlet	CE
Downpipe Branch	RB
Downpipe Connector	MB
Gutter Joint Tube	EJ
Gutter Corner Overflow	PP90
Gutter Straight Overflow	PP180
Drain Connector	RC
Sewer Drain	DEP

Specification	
Steel sheet thickness	min 0.50 mm
Zinc layer thickness	275 g/m ²
Overlay	RWS with acrylic particles
Primer	The paint colour

RAINTITE GUTTERS

Raintite is a high-performance membrane coated metal gutter that provides a robust watertight rainwater solution.



Membrane gutters now featuring Fatra slip resistant membrane lining can be insulated or uninsulated to provide a robust watertight rainwater solution.

PVC membrane technology is used to create a bonded steel sheet, with a unique slip resistant surface and standard, bright-white liner.

Fit and forget – no costly return visits to cure leaks associated with standard bolted gutters.



EUROCLAD ARCHITECTURAL

Euroclad Architectural supply the construction industry with a range of metal flashings, fabrications and rainwater goods. Our expert manufacturing facilities offers bespoke cutting and bending of various metals creating various architectural components to complement and complete metal roof and wall systems.

Speak to us for advice on your next building project.



PRODUCT SELECTOR

Product Parameters	Colorcoat Pre-Finished Steel	Aluminium
Standard cover width	454mm	454mm
Cover widths available**	200mm – 454mm	200mm – 454mm
Cover width of curves**	275mm – 454mm	275mm – 454mm
Cover width of tapers	200mm – 500mm	200mm – 500mm
Maximum rolled sheet length	20 metres site rolled 14 metres delivered	20 metres site rolled 14 metres delivered
Minimum straight length	250mm	250mm
Minimum pre-curved/taper length	2 metres	2 metres
Maximum pre-curved sheet length	20 metres	20 metres
Maximum taper length (delivery only)	10 metres	10 metres
Minimum induced curve radius convex	2 metres	0.5 metres
Minimum induced curve radius concave	N/A	N/A
Minimum self curve radius convex	15 metres	15 metres
Minimum self curve radius concave	15 metres	15 metres

Coating	Colorcoat Pre-Finished Steel	Aluminium
0.7mm gauge	Colorcoat HPS200 Ultra	•
	Colorcoat LG	•
	Colorcoat Prisma	•
0.9mm gauge	ARS	•
	PVDF	•
	ORGANIC PATINA	•
	VIEOZINC	•

System Accessories	Vieo Cold Roof	Vieo Warm Roof	Vieo Roof on Insulated Panel
Vieo stainless steel clips and self-drilling fixings	•	•	•
Euroclad RocBar with RocTube fixing sleeves and self-tapping fixings		•	
Euroclad RocSlab insulation		•	
Flashings and fabrications	•	•	•
Rainwater goods		•	
Euroclad vapour barrier	•	•	•
Euroclad breather membrane	•		•
Tapes, mastics and sealants		•	•

Specifications	Vieo Cold Roof	Vieo Warm Roof	Vieo Roof on Insulated Panel
Material	Colorcoat pre-finished steel	Colorcoat pre-finished steel	Colorcoat pre-finished steel
	Coated aluminium	Coated aluminium	Coated aluminium
Fixing system	Vieo stainless steel clips and self-tapping fixings	Vieo stainless steel clips and self-drilling fixings RocBar and RocTube	Vieo stainless steel clips and self-drilling fixings
Insulation	NA	Euroclad RocSlab and 25mm slab insulation	Insulated panel (Speak to us about panel options.)
Timber decking substrate	WBP plywood min 18mm or OSB3 min 15mm recommended	WBP plywood min 18mm or OSB3 min 15mm recommended	NA
	(not supplied by Euroclad Group) Tongue and groove wood deck min 22mm	(not supplied by Euroclad Group) Tongue and groove wood deck min 22mm	
Metal decking substrate	NA	Structural deck available in steel or aluminium	NA
Vapour control / breather membrane	Breather membrane with 150mm sealed laps	Euroclad vapour barrier with 150mm sealed laps	Breather membrane with 150mm sealed laps
U-value (std)	NA	0.25 W/m2K, 0.20 W/m2K, 0.18 W/m2K and 0.15 W/m2K	Refer to panel information
Insulation (inc RocSlab and 25mm slab)	NA	140mm, 175mm, 195mm and 230mm	Refer to panel information
Sound reduction (SRI)	NA	46dB RW (typical system)	Refer to panel information
Rain noise (LiA)	NA	42.9 dB LiA (typical system)	Refer to panel information

**Vieo can be manufactured in any width from 200mm up to a maximum of 517mm. However advice should be sought for widths of 454mm to 517mm, which are not supported by current certification and testing. Note -Tapers cannot be induced curved.

Vieo sheets can be curved or tapered for the perfect fit and to help achieve unusual designs. They have been used to great effect on the roof and walls of buildings where the roof sheets curve around the eaves into the wall.

To avoid potential problems delivering sheets to site, particularly where sheet lengths exceed 14 metres, Vieo can be produced onsite. This can avoid the need for storage as Vieo sheets can be produced precisely when they are needed.



DESIGN & MANUFACTURER

All Vieo Systems have Vieo sheets, clips and fixings.

Please refer to our extensive technical installation manuals or contact rca.technical@eurocladgroup.com for advice. Whether Vieo is produced at our extensive manufacturing facility or manufactured onsite, a high quality product with comprehensive technical support can be assured.



PRODUCTION

As part of its commitment to quality, service and the environment, Euroclad operates a Quality Management System approved to BS EN ISO 9001:2015 and an Environmental Management System approved to BS EN ISO 14001:2015.

The quality of material and manufacture provides peace of mind and the long sheets combined with straight forward fixing offers a quick installation.

As with all long strip roofing systems, a natural deflection in the pan may occur and is a feature of the product. The sheet will have a tendency to follow the substructure and surface to which it is installed.

Colorcoat® pre-finished steel products made in the UK are certified to BES 6001 Responsible Sourcing Standard.

CURVES

Minimum self-curve radius convex 15m minimum, self-curve radius concave 15m.

Cover width of curve sheets 275mm minimum, 517mm maximum.

Modern design demands flexible products and Vieo can be curved down to a radius of 2m in steel and as little as 0.5m in aluminium (convex only, concave curve cannot be achieved). Please refer to the product selector grid for more information.

The curving adds an extra dimension to the potential of any roof and provides a great deal of flexibility to the designer (minimum 2m length).

TAPERS

Maximum cover width 500mm, minimum cover width 200mm.

To achieve complex designs or to produce a neat finish, manufactured tapers are available up to 14m long delivered (minimum 2m length).

Please refer to the product selector grid for more information.

VARIABLE WIDTHS

Available in a standard cover width of 454mm, Vieo can also be supplied in variable widths down to 200mm (minimum), to give a concertina style effect.

PENETRATIONS

A recommended best practice for all penetrations is essential for those where the roof pitch is less than 5° - which provides an almost seamless closure that is subtle in its appearance and resolute in its weather tightness.

Where the roof pitch is less than 5°, liquid applied membranes are the weld-free method of providing a true watertight seal for a wide range of details, including soakers and openings. They are applied onsite by qualified, skilled and recommended engineers and are available in colours to match the roof material.

Site welding is also an option for aluminium Vieo.

Some details, such as SVP penetrations, can be achieved by the use of proprietary solutions such as Dektite or by lapping and sealing flashings and sheets but these are generally not recommended on roof pitches of less than 5°.

FLASHINGS

Matching flashings can be essential to perfectly finish off a Vieo roof and wall installation. The flashings can be made from the same material as the Vieo sheet in matching or contrasting colours. A wide range of flashings can be manufactured to order, closing off perimeter details and providing neat finishes for all junctures and joints.



MATERIALS

Whether you're building a house or specifying a large-scale commercial development, we understand the importance of how colour and material finish can transform the appearance of your building.

Vieo is available in a wide range of colours and finishes for both aluminum and steel products.



STEEL

0.7mm gauge Colorcoat Prisma® and Colorcoat HPS200 Ultra® pre-finished steel from Tata Steel provides a contemporary range of steel colours ideal for many façade applications.

Fully manufactured in the UK, the steel range demonstrates proven performance and reliability guaranteed for up to 40 years for the weatherside of commercial and industrial buildings with no inspection or maintenance to maintain its validity.



ALUMINIUM

Our range of aluminium material provides exciting new options for colourful designs with an expanded palette of natural living shades.

Available in 0.9mm pre-coated aluminium, the grained surface of the "living colour" range replicates the pre-weathered appearance of traditional long strip hard metal finishes, providing an outstanding alternative.



VIEO ZINC

Vieo is available in 0.9mm aluminium substrate with a zinc-rich weathering coat designed to provide a cost saving alternative to real zinc material.

VieoZinc is a PVDF based coating which features zinc particles incorporated into the surface and is specifically designed as an aesthetic option to naturally weather in a similar way to zinc, rather than retaining a fixed colour. The prevailing conditions of the installed location will influence this and produce different rates of tonal change delivering the aesthetic benefits of a 'live' material.

COLOURS

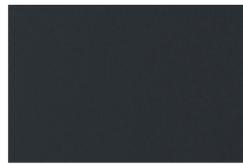
Reflect your brand identity through your architecture.

Colour can be used to great effect in architecture; it can reflect the brand identity of a company, be used to achieve an architectural objective or to complement a buildings surroundings. The use of colour can affect the mood of building users and can engender a sense of pride in the workplace.

Vieo is available in a vast range of colours, adding an extra dimension to the impressive specification of this product.



SEREN GOLD



ANTHRACITE

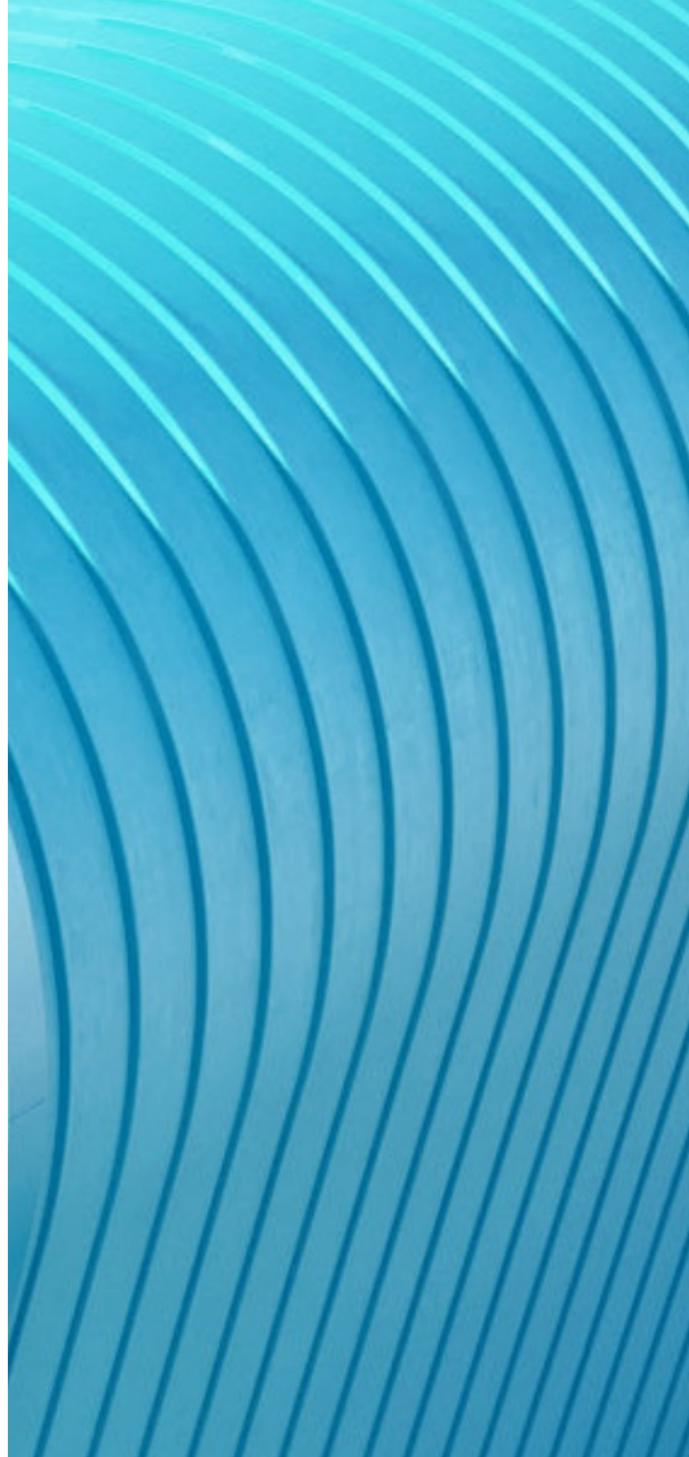


COPPER PATINA



VIEO ZINC*

Contact our samples team or sales team for colour charts and swatches.



INTRODUCING OUR LIVING RANGE OF COLOURS

With the driving force behind Vieo often being aesthetic appeal, a new range of "Living Colours" has been introduced.

This exciting new range consists of coated aluminium with specialised coatings that offer colours and finishes not previously available. These stimulating colours can help to create a dramatic and unique building design, whether on a private house, public sector building or commercial development.



PATTERNED GOLD



SHADED BLUE



RED MATT

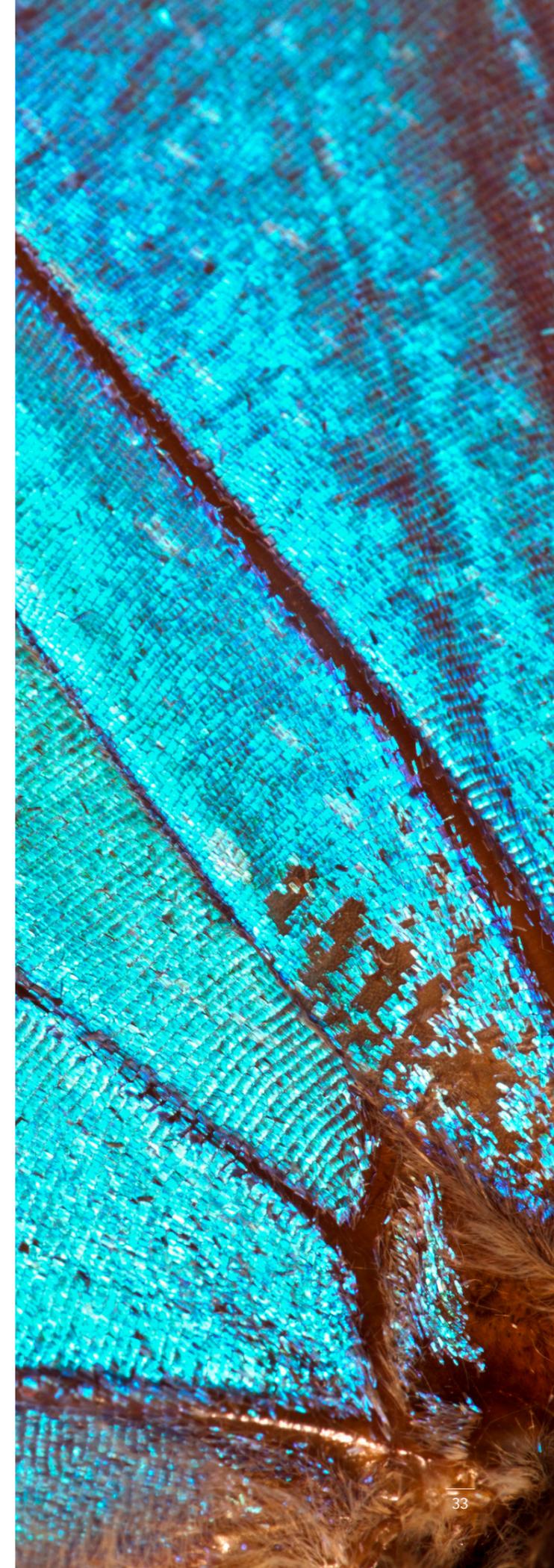
Transform your world, with our new living colour range.

A colour that grows and evolves with the life of the building. Our new "Living Colour" range provides exciting new options for colourful designs with an expanded palette of natural living shades.

"Living Colours" use a high performing pre-coated coil finish to the aluminium roof and wall systems, available through Euroclad Group.

The grained surface and advanced manufacturing process replicates the pre-weathered appearance of traditional long strip hard metal finishes. The result is a unique and revolutionary new look that provides an outstanding alternative to pre-weathered hard metal finishes.

The "Living Colours" colour palette is a modified high performance, UV, weather resistance, low maintenance, aluminium pre-coated finish engineered to last.



COLOUR GUIDE

Take a look at our Colour Inspiration Guide for the latest choices available.

For a physical copy or for samples of our products please email samples@eurocladgroup.com

Digital versions of the Colour Inspiration Guide are also available.

The warm roof version can help achieve revised Part L requirements and excellent air tightness.

For added convenience all components, including insulation, are purchased from Euroclad Group.

THERMAL PERFORMANCE

With ever-increasing demands for reductions in energy consumption and lower carbon emissions, from both Part L of the Building Regulations and environmentally conscious specifiers, there can be comfort in the knowledge that Vieo systems provide flexibility to achieve the most challenging U-values.

Vieo features insulation that can achieve a range of U values. Typical examples of warm roofs are given below:

Vieo U values	
RocSlab (MW)	U value
115 + 25	0.25
150 + 25	0.2
170 + 25	0.18
205 + 25	0.15

RocSlab Lite (MW + PIR)	U value
50 + 40 (PIR) + 25	0.25
50 + 80 (PIR) + 25	0.17
50 + 100 (PIR) + 25	0.15
50 + 130 (PIR) + 25	0.13
50 + 150 (PIR) + 25	0.11

ACOUSTICS

Euroclad Group has invested in acoustic testing of systems and has applied many years of combined practical experience from constructed projects into the test programme.

Working together with material suppliers and acoustic laboratories for sound reduction, sound absorption and rain noise.

Common applications for the acoustic performance of Vieo include schools and universities, swimming pools and sports halls, cinemas, offices and hospitals.

In industrial and Ministry of Defence projects, prevention of intrusive noise and the control of noise from processes are major considerations and the acoustic performance of Euroclad systems have assisted in many instances.

When specific acoustic performance is required, Euroclad can provide a systematic answer and can also develop bespoke solutions where applicable.

Acoustic Systems

Vieo systems can provide acoustic solutions for a range of applications and have been tested, modelled and proven in the field. Systems can be modified to meet requirements by the inclusion of various components.

Sound Reduction

Sound Reduction reduces the amount of sound transmitted through a building element. It may also be termed Sound Insulation or Sound Attenuation. In the case of Vieo sound reduction is considered alongside thermal insulation and the two elements generally complement each other. Vieo RocSlab constructions provide outstanding sound reduction, typically achieving a Sound Reduction Index (SRI) of 46dB.

Noise Source	Decibel Level	Decibel Effect
Jet take-off (at 305 meters), jet flyover at 1000 feet	100	8 times as loud as 70 dB. Serious damage to hearing possible in 8 hr exposure
Motorcycle at 25 ft	90	4 times as loud as 70 dB. Likely damage to hearing in 8 hour exposure
Diesel truck 40 mph at 50 ft, diesel train at 45 mph at 100 ft	80	2 times as loud as 70 dB. Possible damage to hearing in 8 hour exposure
Passenger car at 65 mph at 25 ft, road at 50 ft from pavement edge 10 a.m	70	Arbitrary base of comparison. Upper 70s are annoyingly loud to some people
Conversation in restaurant, office, back-ground music	60	Half as loud as 70 dB. Fairly quiet
Quiet suburb, conversation at home	50	One-fourth as loud as 70 dB
Library, bird calls (44 dB); lowest limit of urban ambient sound	40	One-eighth as loud as 70 dB
Quiet rural area	30	One-sixteenth as loud as 70 dB. Very Quiet
Whisper, rustling leaves	20	Barely audible
Breathing	10	Barely audible

In many cases the primary contribution to acoustic performance in a construction is provided by the insulation included. RocSlab has outstanding sound reduction contributing to the typical Vieo warm roof achieving a Sound Reduction Index (SRI) of 46dB.

To put this in context the table shows common noise levels and the logarithmic nature of dB sound levels. In the highlighted example, placing a typical Vieo RocSlab system between a diesel truck doing 40mph at a distance of 50 feet away and the listener would reduce the noise level from a potentially harmful level to quieter than a library.



RAIN NOISE

Rain noise can be seen as an issue for building occupiers that's why Vieo RocSlab helps minimise the impact.

Noise generated by rain landing on a roof can be an obtrusive issue for building occupiers; a problem that is even more acute in certain buildings, such as houses, hotels or schools. When tested in accordance with 'ISO 140-18:2006 Under "Heavy" Rainfall Type, a typical Vieo RocSlab system reduced rain noise to just 42.9 dB LiA.

To put this in context, Vieo systems are often used in schools where consideration of rain impact noise is a specific design consideration, concerned with maintaining speech intelligibility in classrooms so that teachers can be clearly heard. Typical requirements for schools are between 35 and 50 dB LiA.

The 42.9dB LiA achieved by the Vieo roof system compares well with clay tiles on roofing battens with 100mm flexible mineral fibre slab insulation between rafters and a plasterboard ceiling (42.3dB LiA) and with a typical single ply roofing membrane with 100mm PIR insulation and acoustic membrane on metal deck at 55dB LiA.



FIRE PERFORMANCE

The fire performance of any building system is paramount to the safety of the building occupants and the prevention of fire spread. Key to any low fire risk solution is a building design that limits fire spread. Please contact rcs.technical@eurocladgroup.com for further advice and appropriate specifications.

Vio sheet materials reaction to fire to BS EN 13501-1.

Performance in terms of Reaction to fire classifies products as A1, A2, B, C, D, E or F (with class A1 being the highest performance and F being the lowest) in accordance with BS EN 13501-1.

The classes of reaction to fire performance of A2, B, C, D and E are accompanied by additional classifications related to the production of smoke (s1, s2, s3) and/or flaming droplets/particles (d0, d1, d2).

See tables 1 & 2 for materials performances:

Table 1		
Vio Sheet Components	Material	BS EN 13501-1 classification
Vio outer sheet & flashings	Coated steel 0.7mm - Prisma, Prisma Elements or Prisma Matt coating	A1
Vio outer sheet & flashings	Coated aluminium 0.9mm - PVDF coating	A1
Vio outer sheet & flashings	Coated aluminium 0.9mm - Polyester Polyamide/ARS coating	A1
Vio outer sheet & flashings	Coated aluminium 0.9mm - Duragloss 5000 coating	A1
Vio outer sheet & flashings	Coated steel 0.7mm - HPS200 Ultra coating	C-s2, d0 #

For buildings other than those described as "Relevant Buildings" in Regulation 7(4), note 2 of the table "Reaction to fire of external surfaces of walls" on page 3 can be referenced for HPS200 Ultra external sheet, if appropriate to the project. The content of the table is from - Approved Documents Part B Volume 1, table 10.1 & Volume 2, table 12.1. July 2019.

Other Vio system components supplied by Euroclad – Reaction to fire to BS EN 13501-1

Please note components excluded from requirements for Relevant Buildings (described in Regulation 7(4)) by Regulation 7(3): (g) "membranes", (h): "Sealants, fixings & gaskets" ("gaskets" would include closure fillers). Whilst membranes and fixings are excluded, there are alternative types which can be specified, if required, which Euroclad may recommend depending on the construction type and project specific requirements.

Table 2			
Vio Components	Usage	Material	BS EN 13501-1 classification
Vio sliding clips	Attachment of Vio sheet	Stainless steel	A1
RocBar (if required)	Attachment of Vio clips and RocSlab insulation	Galvanised steel	A1
RocSlab Insulation (if required)	Thermal insulation	Mineral fibre	A1
Tophat sections (if required)	Attachment of RocBar to various structures	Galvanised steel	A1
Vio clip fixings	Attachment of Vio sliding clips to various substrates	Stainless steel	A1
RocTube Plus fixings	Attachment of RocBar to various substrates (via RocTube)	Stainless steel	A1
RocTube	Connection of RocBar to RocTube Plus fixings	Polypropylene	Unclassified ¹
*Alternative RocBar fixings ¹	Attachment of RocBar to various substrates without RocTube	Stainless steel	A1
Tophat fixings	Attachment of tophats to various substrates	Stainless steel	A1
Vio Closures	Completion of detailing and ends and edges of Vio sheets	Aluminium	A1
Vapour Control Layer (Elite VCL)	Use at the warm side of thermal insulation for provision of vapour control	Reinforced polyethylene	Class F
*Fire rated Vapour Control Layer ² (Elite A2 VCL)	Use at the warm side of thermal insulation for provision of vapour control	Glass fibre backing, aluminium foil and clear lacquer	A2-s1, d0
Steel liner sheet	Possible as a substrate in some cases.	Polyester coated steel	A1
Breather membrane (Elite breather membrane)	Use over ply/OSB boarding (or over insulation if required)	Spun bonded polypropylene	Class E
*WT SA Breather membrane ³	Use on Class A1 or A2-s1, d0 substrate	Triple layer polypropylene, self-adhesive	B-s1-d0
WT SA separation tape	Applied to RocBar for materials separation when using aluminium Vio sheet	Triple layer polypropylene, self adhesive	B-s1-d0

Note

1. Fixings - If it is desirable to have Class A performance (regardless of exemption referenced above), we can usually replace RocTube Plus fixings and RocTube with alternative stainless steel fixings (specification and type are dependent on the substrate to be fixed to). Contact Euroclad Technical for further guidance.
2. Vapour control layers – these are not always supplied by Euroclad, depending on the construction but A rated products are available.
3. Breather membranes – not always required or supplied by Euroclad, depending on the construction. Not usually required with RocSlab constructions.

NB: Although “membranes” are excluded by Regulation 7(3): (g), attention is also drawn to Section 12, 16, (a) which states “Membranes used as part of the external wall construction above ground level should achieve a minimum of class B-s3, d0”.

Appendix A: Boundary conditions & notes regarding HPS200 Ultra coated sheet

Reaction to fire performance of external surface of walls. Source - Approved Documents Part B Volume 1, table 10.1 & Volume 2, table 12.1. July 2019			
Building type	Building height	<1m from the relevant boundary	1m or more from the relevant boundary
“Relevant buildings” as defined in regulation 7(4)			
Assembly & recreation	>18m	Class B-s3, d2(2) or better	From ground level to 18m: Class C-s3,d2(3) or better From 18m in height and above: Class B-s3, d2(2) or better
	18m or less	Class B-s3, d2(2) or better	Up to 10m above ground level: ClassC-s3, d2(3) or better Up to 10m above a roof or any part of the building to which the public have access: Class C-s3, d2(3) or better(4) From 10m in height and above: no minimum performance
Any other building	> than 18m	Class B-s3, d2(2) or better	From ground level to 18m: Class C-s3,d2(3) or better From 18m in height and above: Class B-s3, d2(2) or better
	18m or less	Class B-s3, d2(2) or better	No provisions

NOTES:
In addition to the requirements within this table, buildings with a top occupied storey above 18m should also meet the provisions of paragraphs 10.6 (Volume 1), 12.6 (Volume 2).
In all cases, the advice in paragraphs 10.4 (Volume 1) and 12.4 (Volume 2) should be followed.

1. The restrictions for these buildings apply to all the materials used in the external wall and specified attachments (see paragraphs 10.9 to 10.12 (Volume 1) & 12.10 to 12.13 (Volume 2) for further guidance).
2. Profiled or flat steel sheet at least 0.5mm thick with an organic coating of no more than 0.2mm thickness is also acceptable.
3. Timber cladding at least 9mm thick is also acceptable.
4. 10m is measured from the top surface of the roof.



“KEY TO ANY LOW FIRE RISK SOLUTION IS A BUILDING DESIGN THAT LIMITS FIRE SPREAD”

SUSTAINABILITY

Euroclad Group approach sustainability with absolute integrity.

Euroclad employ a holistic approach to sustainability which aims to minimise the environmental impact of the production of components, manufacturing processes, transport, installation, use and end of life. Also included is life cycle assessment of environmental impact categories such as global warming, resource depletion, embodied energy, eutrophication, acidification and volatile organic compound (VOC) emissions.

As part of the commitment to reducing Euroclad's carbon footprint there is a process of continuous improvement that includes, but is not exclusive to, the ongoing accreditation of the ISO 14001 environmental management system.

By specifying Vieo, it is possible to protect your pocket as well as the planet. Euroclad's cradle to cradle approach can deliver a sustainable metal roof and wall solution that doesn't cost the earth.

REFURBISHMENT

Modern methods of construction and innovative materials can transform tired and outdated buildings into attractive and inspiring spaces. Refurbishing buildings rather than demolishing and rebuilding them offers many significant benefits.

Refurbishment projects generally cause less disruption to the community and can dramatically improve the aesthetics of a building and the surrounding environment.

In addition to the social benefits, refurbishments can be more economical even when the complete building envelope needs replacing. The majority of the building fabric can be retained, saving a significant amount of time and money. In addition, by reusing the functioning parts of the building, the impact on the environment is lowered, with material production and transport being greatly reduced.

Vieo is proving to be increasingly popular for use in refurbishment projects as it is lightweight, strong and durable. Over roofing with Vieo is quick and effective and provides an attractive, cost-effective retrofit option



ECO HOMES, ST FAGANS

"EUROCLAD EMPLOY A HOLISTIC APPROACH TO SUSTAINABILITY WHICH AIMS TO MINIMISE THE ENVIRONMENTAL IMPACT OF THE PRODUCTION PROCESS"



COLORCOAT® BY TATA STEEL

For over 50 years Tata Steel has developed a range of technically leading Colorcoat® pre-finished steel products which have been comprehensively tested and manufactured to the highest quality standards. Colorcoat® products are supported by a range of services such as comprehensive guarantees, colour consultancy and technical support.

CONFIDEX® GUARANTEE

For industrial and commercial buildings

The Confidex® Guarantee from Tata Steel offers the most comprehensive pre-finished steel guarantee for the weatherside of industrial and commercial buildings. Available with Colorcoat HPS200 Ultra® and Colorcoat Prisma® for up to 40 years, the Confidex® Guarantee covers factory cut edges and does not require any inspection and maintenance to validate the guarantee.

This is offered direct from Tata Steel to the building owner upon registration via an online registration form within 3 months of the building completion date at www.colorcoat-online.com

In addition Colorcoat HPS200 Ultra® and Colorcoat Prisma® can be used under Photovoltaic (PV) frame modules with no reduction in guarantee length ensuring all parts of the roof and walls are covered for the same duration of the Confidex® Guarantee.

With Confidex® registration



Without Confidex® registration



For guarantee applications please visit our website.

CONFIDEX® HOME

The Confidex® Home Guarantee is available when using Colorcoat HPS200 Ultra® or Colorcoat Prisma® with Vieo roof or wall cladding system for a residential dwelling in the UK and Ireland.

The guarantee is for 25 years regardless of environment, location, colour and distance to the coast – but is only valid when either Colorcoat HPS200 Ultra® or Colorcoat Prisma® is specified, and on roof pitches down to a minimum of 5 degrees.

Confidex® Home gives homeowners complete peace of mind with a robust guarantee direct from Tata Steel, meaning that in the unlikely event of a claim only Tata Steel need to be contacted.

Benefits of the Confidex® Home Guarantee include:

- Backed by years of worldwide testing giving you confidence in the products.
- Offered directly to the home owner to provide one point of contact directly to Tata Steel
- Offered for roof pitches down to a minimum of 5 degrees
- Transferable should the property sell within the guarantee period.
- Quick and simple online registration process via the Confidex® Home page www.colorcoat-online.com/confidexhome

Colorcoat, Colorcoat HPS200 Ultra, Colorcoat Prisma and Confidex are registered trademarks of Tata Steel UK Limited.

BUILDING A BETTER FUTURE TOGETHER

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Latest information is available from **www.eurocladgroup.com**

April 2021



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