Dare to be Different

arborClad
21ST CENTURY CLADDING SOLUTIONS


21st century cladding solutions
arborClad

A specialist range comprising the highest quality, sustainable cladding products, Arborclad is perfect for any application, from domestic and commercial to refurbishment.

ArborClad is wholly committed to supplying the highest quality, sustainable cladding products. Working with industry leading manufacturers alongside their own specialist manufacturing facilities.

At the heart of the ArborClad external cladding range is the environment. Chosen specifically for their environmental qualities, Chain of Custody is commonplace across the entire range.

FSC
www.fsc.org
FSC® C019610
The mark of responsible forest management

PEFC Certified
Promoting Sustainable Forest Management
PEFC
PEFC/16-37-361
www.pefc.org

tdca
TIMBER DECKING AND CLADDING ASSOCIATION

arborClad
21ST CENTURY CLADDING SOLUTIONS

The complete cladding solution

TRADITIONAL CLADDING RANGE | PAGE 06

- / *Cost-effective range of durable, resilient traditional claddings*
- / *Environmentally focused*
- / *Suitable for a range of applications*
- / *Treated Redwood, Larch and Western Red Cedar species*
- / *Bespoke profiles and other species also available*
- / *Can be fire treated and/or finished with a stain or paint if required.*
- / *Bespoke profiles and trim available.*

THERMAL CLADDING RANGE | PAGE 10

- / *Softwood and hardwood options*
- / *Improved stability, durability and performance*
- / *Increased weather resistance*
- / *Chemical-free treatment applied through the full board section, virtually eliminating rot and insect attack*
- / *Environmentally focused*
- / *Uniformity of product colour in its natural state*
- / *More even weathering over time than traditional timber claddings*
- / *Can be fire treated and/or finished with a stain or paint if required.*
- / *Bespoke profiles and trim available.*

An ideal solution
Timber cladding is being specified today more and more by local authorities, architects and developers for its environmental credentials and for its ease of working, natural beauty, performance and competitive price.

Timber is one building material that has an unrivalled pedigree for use in construction, which is why timber is an ideal choice for use as an external cladding.

Working with some of Europe's leading manufacturers ArborClad has selected a range of products at the forefront of design and technology to meet today's challenging cladding requirements.

Standard profiles
Traditional cladding styles and patterns are always going to be in Vogue. For this reason our standard stock range is based on the popular shiplap and offset cladding profiles. It is also why the more traditional Redwood, Larch and Western Red Cedar species are included.

These are timber species with a proven performance and appearance and, alongside the other products in the range, ensure the perfect solution for any installation is available.

Domestic, commercial and refurbishment
Ideal for commercial, domestic and refurbishment projects, ArborClad cladding range offers a perfect starting point from where you can select the materials most suited to each individual project. The longer a building product lasts the better it is for the environment, especially a critical external envelope component such as cladding.

Bespoke profiles*
We deal with timber on a daily basis, so we know its limitations. We also know that you occasionally want to be different and stand out from the crowd!

At ArborClad we employ skilled woodworking machinists who are able to produce a full range of bespoke profiles to suit even the most demanding of specifications. These bespoke items can be produced, in addition to the timbers featured in the standard cladding range, from a wide variety of other timber species - Green Oak, Sweet Chestnut, Douglas Fir, Cumaru to name a few.

For further details, or to discuss your exact requirements please get in touch and our dedicated team will do their utmost to assist.

*Please note that minimum order quantities may apply.

Committed to the environment

The ArborClad timber cladding range is available with full Chain of Custody certification, providing compliance with government specification for timber from legal and well-managed sources, as well as meeting the requirements of the construction industry's independent third party audit organisations. If this is a requirement please stipulate at time of ordering.

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PEFC
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www.pefc.org

arborClad TRADITIONAL

A range of traditional cladding products suitable for various applications

The traditional cladding range is a selection of the most popular timber species currently used today in the UK market for exterior cladding. Selected to meet a wide range of budgets the timbers are machined by experts into a wide selection of standard sizes and profiles.

We are also able to provide a fully comprehensive selection of timber species in profiles specific to your exact requirements.

Whatever your project requirements, you can be sure of ArborClad's renowned reliability and customer service.

Cost-effective range of durable, resilient traditional claddings

Environmentally focused

Suitable for a range of applications

Treated Redwood, Larch & Western Red Cedar species

Bespoke profiles and other species also available

Can be fire treated and/or finished with a stain or paint if required.

arborClad
TRADITIONAL
REDWOOD

traditional redwood cladding

European Redwood shiplap and offset cladding with square end detail. For use where economy is the priority.

Osmose PROTIM Above ground

FSC www.fsc.org FSC® C019610

Profiles available:
Offset / Shiplap / Tongue & Groove

Sizes available (finished sizes shown):
15mm x 119mm in random lengths
19mm x 117mm in random lengths
19mm x 140mm in random lengths

Areas of use:
Refurbishment / Domestic / Commercial

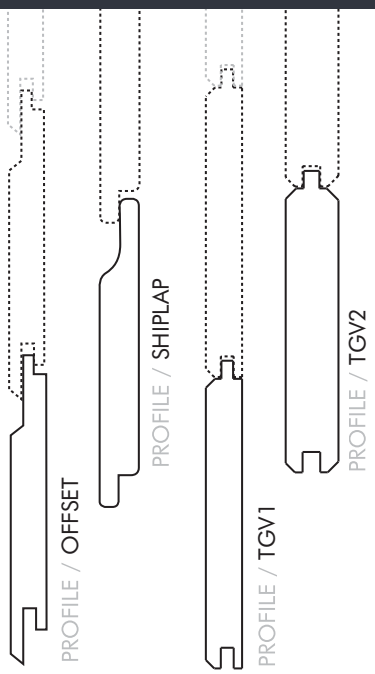
Durability:
Slightly durable. Moderately durable if a finish is applied.

Use class: 3

Material density:
470-510kg/m^3

Finish options available:
To prevent the natural weathering of materials a paint, stain or oil finish featuring UV filter is recommended

Bespoke options:
The range can be machined to any required profile, including splayed and TG&V. A wide range of additional sections are also available at competitive rates and short lead times



Contact your nearest ArborClad dealer for:

- SAMPLES
- TECHNICAL ASSISTANCE
- OTHER SPECIES AVAILABLE
- ADVICE ON FIRE RESISTANCE

Sizes shown are finished unless otherwise stated. Subject to stock availability at the time of order. Timber cladding, when left in its natural state, will oxidise and turn a silver grey colour over time, due to the effects of exposure to sunlight.

arborClad
TRADITIONAL
LARCH

traditional larch cladding

Larch shiplap and offset cladding with square end detail. A highly durable and resilient solution.

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www.fsc.org
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The mark of responsible forest management

Profiles available:
Offset / Shiplap

Sizes available (finished sizes shown):
19mm x 140mm in random lengths

Areas of use:
Refurbishment / Domestic / Commercial

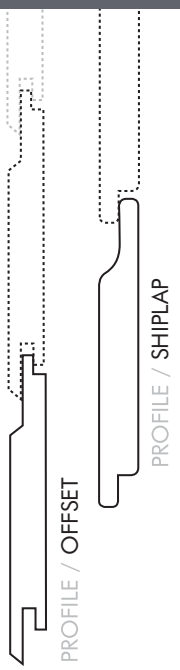
Durability:
Moderately durable

Use class: 3

Material density:
560-590kg/m^3

Finish options available:
To prevent the natural weathering of materials a paint, stain or oil finish featuring UV filter is recommended

Bespoke options:
The range can be machined to any required profile, including splayed and TG&V. A wide range of additional sections are also available at competitive rates and short lead times



Contact your nearest ArborClad dealer for:

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- TECHNICAL ASSISTANCE
- OTHER SPECIES AVAILABLE
- ADVICE ON FIRE RESISTANCE

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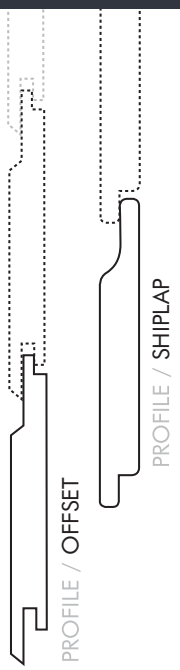
arborClad
TRADITIONAL
CEDAR

traditional cedar cladding

Western Red Cedar shiplap and offset cladding with square end detail. A highly durable and resilient solution.

CANADIAN STANDARDS ASSOCIATION
Supplied under the PEFC recognised CSA standard

PEFC Certified
Promoting Sustainable Forest Management
PEFC
PEFC/16-37-361
www.pefc.org



Profiles available:
Offset / Shiplap

Sizes available (finished sizes shown):
19mm x 140mm in random lengths

Areas of use:
Refurbishment / Domestic / Commercial

Durability:
Durable

Use class: 3

Material density:
370-390kg/m^3

Finish options available:
To prevent the natural weathering of materials a paint, stain or oil finish featuring UV filter is recommended

Bespoke options:
The range can be machined to any required profile, including splayed and TG&V. A wide range of additional sections are also available at competitive rates and short lead times

Contact your nearest ArborClad dealer for:

- SAMPLES
- TECHNICAL ASSISTANCE
- OTHER SPECIES AVAILABLE
- ADVICE ON FIRE RESISTANCE

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arborClad THERMO-D

With improved stability and durability qualities, thermally treated cladding provides added long term benefits and flexibility.

Through the treatment applied, the timber is less prone to absorb or lose moisture, helping to restrict the potential for swelling, shrinkage or distortion.

During the thermal treatment process, the wood also acquires a beautiful brown colour and its velvet-like surface is pleasant to the touch. At its best, the wood possesses nuances of antique and fine wood shades that bring warmth to any project, be this for an internal or external application.

Softwood and hardwood options

Improved stability, durability and performance

Increased weather resistance

Chemical-free treatment applied through the full board section, virtually eliminating rot and insect attack

Environmentally focused

Uniformity of product colour in its natural state

More even weathering over time than traditional timber claddings

Can be fire treated and/or finished with a stain or paint if required.

The thermal treatment process
Heat treatment (within a range of 160°C to 215°C) has the effect of modifying the properties of wood. The thermal treatment process consists of heating wood to temperatures exceeding its spontaneous combustion temperature with the water vapour present having a protective function. A natural process, the varying temperatures, varying treatment duration and varying drying techniques require no chemical additives and impart new properties to the treated wood.

Through the treatment applied, the timber is less prone to absorb or lose moisture, helping to restrict the potential for swelling, shrinkage or distortion.

During the thermal treatment process, the wood also acquires a beautiful brown colour and its velvet-like surface is pleasant to the touch. At its best, the wood possesses nuances of antique and fine wood shades that bring warmth to any project, be this for an internal or external application.

Leading suppliers
ArborClad has chosen to work with the world's leading suppliers of thermally treated timbers. ArborClad Thermo-D Redwood undergoes the traditional heat treatment cycle which the Finnish Thermowood Association has developed, approved and promoted since their formation in 1985.

A Thermo-S cycle of heat treatment is available, but this is only for products which are to be used in internal applications, such as flooring. The Thermo-S treatment is a shorter process and provides a lighter colour. Due to the limitations of use the process is likely to be gradually phased out.

Additionally, we are happy to offer to our customers ArborClad Thermo-D Platowood Spruce and Hardwood. Platowood, of Holland, are one of the world's innovators in heat treatment of wood and have a unique pedigree of supply into today's cladding market. The Platowood heat treatment process is a longer treatment which, in the case of the spruce, actually enhances the timber durability.

Focusing on the environment
The ArborClad cladding range has been selected using timbers sourced only from well managed and sustainable forests to ensure that a full Chain of Custody certification can be achieved. As one of the founder members of the Forests Forever initiative and supporters of wood for good, we feel it is our responsibility to provide environmental solutions for the timber cladding market today.

For further details, or to discuss your exact requirements please get in touch and our dedicated team will do their utmost to assist.

arborClad
THERMO-D
REDWOOD

Thermo-D redwood cladding

Thermally treated European Redwood cladding for long term internal and external use.

PEFC Certified
Promoting Sustainable Forest Management
PEFC/16-37-361
www.pefc.org

Profiles available:
Offset / Shiplap

Sizes available (finished sizes shown):
19mm x 117mm in random lengths
19mm x 140mm in random lengths

Areas of use:
Refurbishment / Domestic / Commercial

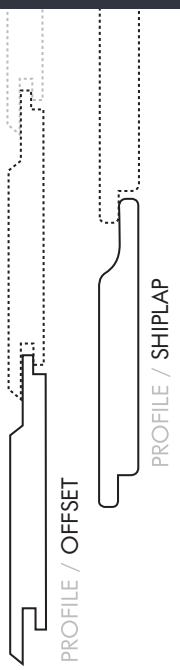
Durability:
Durable

Use class: 3

Material density:
450kg/m^3

Finish options available:
Can be painted, stained and fire treated to Euroclass B

Bespoke options:
Supplied as Class D treatment cycle for external use. Also available as Class S suitable for internal use only



Contact your nearest ArborClad dealer for:

- SAMPLES
- TECHNICAL ASSISTANCE
- OTHER SPECIES AVAILABLE
- ADVICE ON FIRE RESISTANCE

Sizes shown are finished unless otherwise stated. Subject to stock availability at the time of order. Timber cladding, when left in its natural state, will oxidise and turn a silver grey colour over time, due to the effects of exposure to sunlight.

arborClad
THERMO-D
SPRUCE

Thermo-D spruce cladding

European Spruce selected grade for claddings, suitable for structural applications.

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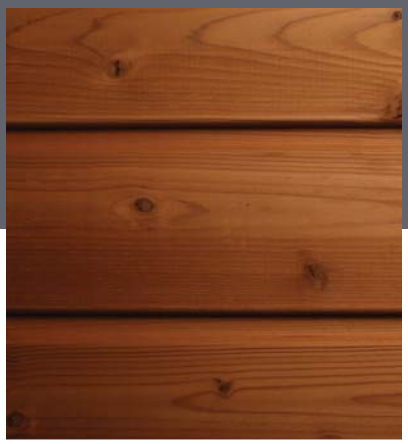

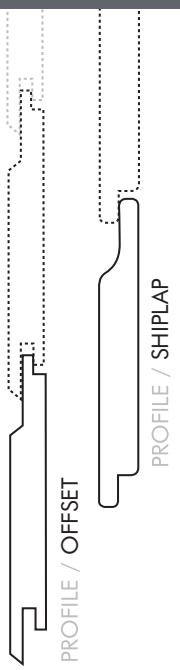

Profiles available:
Offset / Shiplap

Sizes available (finished sizes shown):
19mm x 117mm in random lengths
19mm x 140mm in random lengths

Areas of use:
Refurbishment / Domestic / Commercial

Durability:
Very durable

Use class: 3

Material density:
420kg/m^3

Finish options available:
Can be painted, stained and fire treated to Euroclass B

Bespoke options:
Available in any required profile

Additional features:
Suitable for structural applications

Contact your nearest ArborClad dealer for:

- *SAMPLES*
- *TECHNICAL ASSISTANCE*
- *OTHER SPECIES AVAILABLE*
- *ADVICE ON FIRE RESISTANCE*

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arborClad
THERMORY-CLEAR PINE

Thermory-clear pine cladding

Thermally treated Clear Pine cladding provides a viable knot-free alternative to traditional cedar.

FSC
www.fsc.org
FSC® C019610

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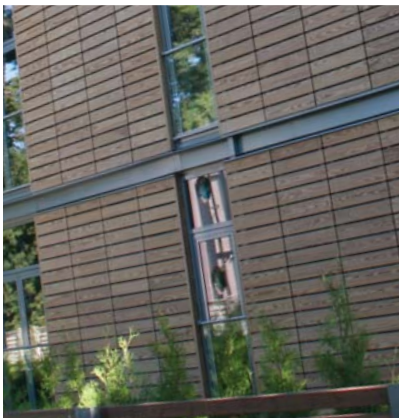


Profiles available:
Offset / Shiplap

Sizes available (finished sizes shown):
19mm x 140mm in random lengths

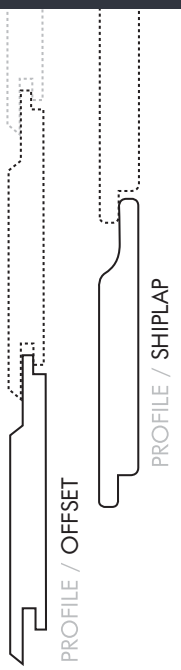
Areas of use:
Refurbishment / Domestic / Commercial

Use class: 2

Material density:
450kg/m³

Finish options available:
Can be painted, stained and fire treated to Euroclass B

Bespoke options:
Available in any required profile



Contact your nearest ArborClad dealer for:

- SAMPLES
- TECHNICAL ASSISTANCE
- OTHER SPECIES AVAILABLE
- ADVICE ON FIRE RESISTANCE

Sizes shown are finished unless otherwise stated. Subject to stock availability at the time of order. Timber cladding, when left in its natural state, will oxidise and turn a silver grey colour over time, due to the effects of exposure to sunlight.
*Available on request, minimum quantities may apply.

arborClad
THERMORY-ASH

Thermory-ash cladding

Perfect for exterior and interior use, thermally treated Ash provides a limitless opportunity for design.

FSC
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FSC® C019610
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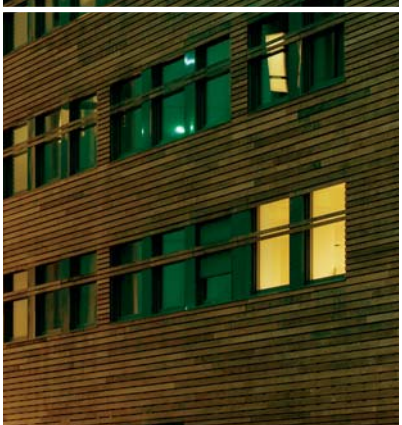


Profiles available:
Offset / Shiplap / C6

Sizes available (finished sizes shown):
offset/shiplap 19mm x 140mm in random lengths
C6: 20mm x 155mm x 2.4 - 3.6m lengths
can be used in conjunction with clip system

Areas of use:
Refurbishment / Domestic / Commercial

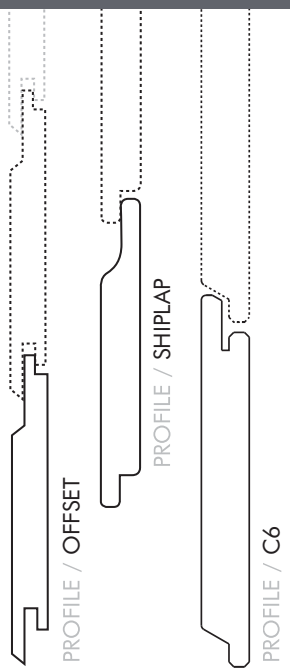
Durability:
Very durable

Use class: 1

Material density:
590kg/m^3

Finish options available:
Can be painted, stained and fire treated to Euroclass B

Bespoke options:
Available in any required profile



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*Available on request, minimum quantities may apply.

arborClad
THERMO-D
FRAKE

Thermo-D fraké cladding

Perfect for exterior and interior cladding, Fraké is a premium heat modified timber species

Image used with permission of PlatoWood BV

Image used with permission of PlatoWood BV

Profiles available:
Shiplap / Offset

Sizes available (finished sizes shown):
19mm x 140mm in random lengths
19mm x 190mm in random lengths
100/125mm nominal widths also available, ask for details

Areas of use:
Refurbishment / Domestic / Commercial

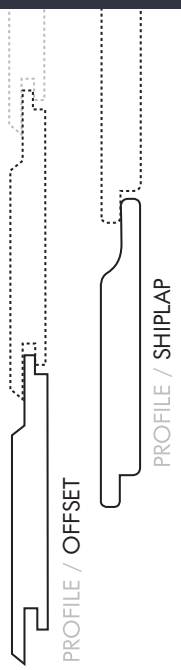
Durability:
Durable

Use class: 3

Material density:
450kg/m^3

Finish options available:
Can be painted, stained and fire treated to Euroclass B

Bespoke options:
Available in any required profile



Contact your nearest ArborClad dealer for:

- SAMPLES
- TECHNICAL ASSISTANCE
- OTHER SPECIES AVAILABLE
- ADVICE ON FIRE RESISTANCE

Sizes shown are finished unless otherwise stated. Subject to stock availability at the time of order. Timber cladding, when left in its natural state, will oxidise and turn a silver grey colour over time, due to the effects of exposure to sunlight.

arborClad
PRE-FINISHED

Fully finished cladding offers a quick and straightforward solution.

Benefitting from a quality controlled factory environment for painting and drying, our fully finished cladding ranges ensure a high quality finish, that would be near impossible to replicate with a traditional 'on-site' application.

Provided by manufacturers who have built a reputation on innovation, flexibility and a customer friendly approach to their business partnerships, alongside a generous range of standard* and to order colours and finishes available, it's simple to specify the exact cladding solution for your needs.

Arriving ready to install, protected against stain and mould formation and the harmful effects of UV radiation, fully finished cladding offers a straightforward and effective solution.

- *Available in rustic, traditional and metal effect finishes*
- *No on-site finishing required*
- *Range of paint finishes available*
- *Can save time & money*
- *Environmentally focused*
- *End matched profiles*
- *Suitable for a range of applications*
- *Increased speed of installation*
- *Manufacturers paint warranty*

*Standard colours may vary; please confirm prior to ordering.

arborClad
THERMO-D

endless possibilities

With its inherent quality, durability and stability the possible applications for thermally treated wood are extensive. With performance and environmental benefits built in it's the material of choice whatever the application.

Flooring

Landscaping

Decking

WORKING WITH

PLATO® WOOD

THERMORY
Thermo-treated wood

LUNARDECK
A NATURAL SOLUTION TO DECKING THAT LASTS!

Ash thermal decking

Bridge decking

Features

Decking

Redwood thermal decking

Docks

Fencing

Skirting and architrave

Contact us for more guidance and information

endless possibilities

Decking
Fencing
Balconies
Roofs
Docks
Houses
Saunas
Features
Sheet piling
Sound barriers
Retaining walls
Bridge decking
Landscape structures
Skirting & architraves
Bollards, posts & stakes
Rainscreen & solar shade

Contact us for more details and to discuss your specific requirements

arborClad
21ST CENTURY CLADDING SOLUTIONS

From concept to completion... Your cladding, how you need it

With one of the most comprehensive ranges of timber cladding available on the UK market today, ArborClad timber cladding can help transform a project from 'everyday' into a dramatic design statement.

From concept to completion, we work regularly with architects, local builders, renovators, major contractors and national house builders to ensure that the product specified is the right product for the right situation and at the right price.

Based on years of experience, ArborClad specialises in creating traditional and bespoke timber cladding solutions to exacting specifications. Computer-controlled cutting machines allow precision profiling in manufacture, providing a truly bespoke service. Traditional designs through to more elaborate requirements are catered for by our team, who provide a timber cladding solution that not only meets your needs but those of your building.

Timber is a natural product. Its hygroscopic properties mean that, through changes in moisture and humidity, timber cladding may move and, regardless of type or species, over time turn a silver grey colour through natural oxidation.

It can, unless naturally durable or pre-treated, be subject to mould or insect attack. For this reason it is important, when choosing your cladding, that consideration be given to the location, species, treatment and surface finish you require. ArborClad work with leading manufacturers who provide a comprehensive range of timber preservatives, fire and finishing systems to ensure that your cladding will look good for longer.

Protection ingrained

Fire protection is a crucial consideration for modern buildings of today along with development and refurbishment of existing structures. Where Building Regulations require fire performance in accordance with British Standards (Typically Class 0 or Class 1) or Euroclass B or C, ArborClad recommends, and can provide, pre-treatment with a quality assured flame retardant applied by a processor approved by the product manufacturer. Available for both internal or external use and, if required, complete with a wide range of supplier finishing applications (paints/stains etc) ArborClad can provide the complete solution for today's high demands.

* Exterior Fire-X®

* Osmose FirePRO

NON-COM EXTERIOR — FIRE RETARDANT TREATED TIMBER FOR EXTERIOR OR SEVERE DAMP SITUATIONS

DRICON — FIRE RETARDANT TREATED TIMBER FOR INTERIOR & WEATHER PROTECTED SITUATIONS

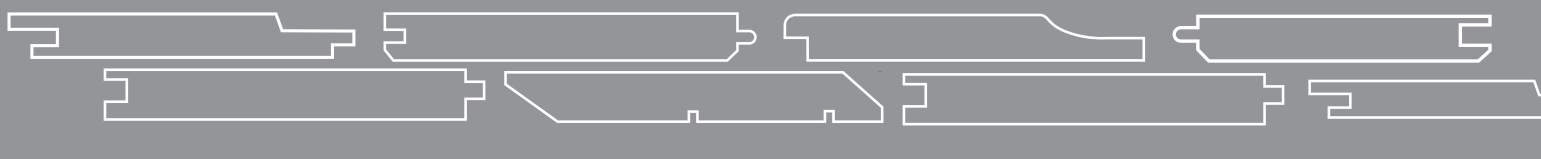
NB - Designers should satisfy themselves that the description of the performance achieved in fire test 'classification reports' corresponds with the species and size of cladding that they plan to specify.

Further timber treatments* available: timber preservatives, priming, staining. Ask for details.

*Dependent on specification, ask for details.

LIMITLESS OPTIONS

Bespoke profiles are available to meet your particular specifications, the only limit is your imagination.



CALL US TO DISCUSS YOUR INDIVIDUAL REQUIREMENTS
BESPOKE SECTIONS, PROFILES, FINISHES AND SIZES AVAILABLE

Case studies

Mercia Marina, Derbyshire

ArborClad Thermo-D Redwood

The Mercia Marina, in Derbyshire, is Europe's largest inland marina and boasts a plethora of biodiversity and wildlife. Howarth's cladding and decking was selected to suit the surrounding natural environment whilst ensuring a sleek appearance in its high profile location.

The high quality Thermo-D redwood cladding, which was installed at The Boardwalk - the marina's retail accommodation - co-ordinates aesthetically with the thermally treated redwood decking which was also selected for the marina.

Not only was the premium thermally treated redwood chosen for its aesthetic properties, it was also specified due to the lack of use of chemicals during production, which enhances the environmental qualities of the building. It was also bespoke to the project, having been UV treated and then brushed to reveal the grain.

Further benefits of the cladding and decking include its ability to maintain the same size and shape, its durability, stability and strength. The timber is PEFC certified and has a decreased risk of mould and improved thermal and hygiene qualities.

Along with this, the timber offers improved wood preservation and weather resistance and can be painted, stained and fire treated to class 0.


Elegant Touch
Beauty

Case studies

Rossall Point Observation Tower, Fleetwood

ArborClad Thermo-D Fraké

When specialist timber was required to complete the RIBA Award-winning Rossall Point Observation Tower in Fleetwood, cladding from Howarth Timber & Building Supplies was specified.

The tower, on the Lancashire coast, is owned by Wyre Borough Council and gives visitors the opportunity to learn about the coastal environment and enjoy the view over Morcambe Bay and the Irish Sea.

ArborClad Thermo-D Fraké, a premium cladding from Howarth, was specified for the £570,000 building, which is open to the public. The ArborClad Thermo-D Fraké was the ideal choice for Rossall Point, mainly due to the building's coastal location.

Thanks to the way the cladding has been treated, strong, stable elevations are achieved for the building, while the timber is able to withstand demands from the environment due to its durability.

The building, which rises above the sand dunes and has striking aesthetics, was designed to look as if it is leaning into the wind. The stunning tower was recognised for its striking design when it won the RIBA North West Award.

Case studies

Commercial cladding

ArborClad Traditional Larch

The ArborClad timber cladding range is an ideal solution where cost and longevity are key drivers to specification.

Building designers, timber frame manufacturers and specifiers are choosing timber cladding for its inherent qualities and its suitability for use in panel sections and off-site modular construction.

Utilising off-site manufacturing techniques and the latest design technology, panels are able to be transported to site ready for erection, saving both time and associated construction costs. The advantage of producing panels in a controlled environment mean that additional quality control checks can be made and accuracy and quality of installation enhanced before the product has left the factory gate.

Timber cladding, in particular when used with timber frame construction, provides a durable and lightweight finishing option. The result being that the building exterior appears warm, fresh and clean in appearance whilst also benefiting from additional thermal and acoustic performance.

The commercial cladding projects shown on this page, sited in both Wales and Doncaster, utilised over 500m^2 of ArborClad Traditional Larch cladding, creating a highly durable and resilient exterior.

Cumbria Partnership NHS Foundation Trust

ArborClad Thermo-D
Platowood Hardwood

The UK's first specification of thermally treated Platowood Fraké timber cladding forms the exterior facade of Cumbria Partnership NHS Foundation Trust's newly refurbished ten-bed psychiatric intensive care unit.

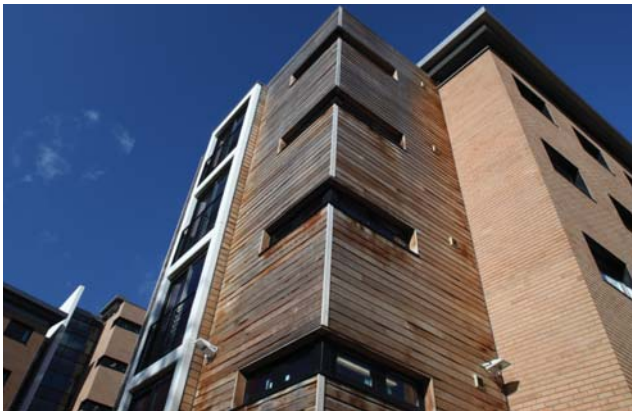
The facility, known as Rowanwood Ward, is part of the Carleton Clinic on Cumwhinton Road in the city. It has been extensively developed and finished with 150 m² of this highly durable and attractive cladding solution.

Cambourne Primary School

ArborClad Pre-Finished Rustic

Finished in ArborClad Pre-Finished Rustic cladding, the new temporary buildings that house Cambourne's Third Primary School make a visually dramatic yet environmentally sustainable statement to both school users and the community of which the school is a part.

In less than six weeks from receipt of order, the cladding was supplied and delivered to site in a bespoke RAL colour, along with a broad range of specially manufactured joints, corners and finishes to ensure a perfect fit and so that the product retains its weather resistant properties.



University of Sheffield

ArborClad Thermo-D Redwood

Some 40,000 running metres of thermally treated timber cladding, conditioned for exposed external application, was installed extensively on The University of Sheffield's latest accommodation blocks at the new Endcliffe Student Village in the city.

With a service life of up to 30 years, thermally treated cladding is ideal for use where an attractive, durable and ecological solution is required. The treatment process ensures enhanced weather performance through the removal of moisture content and naturally occurring resin. The treated cladding is fully stable, meaning that no additional processes or finishing is required on site.

Thermally treated cladding is one of several cladding solutions offered by ArborClad. The range has been selected using timbers sourced only from well managed and sustainable forests to ensure that a full Chain of Custody certification can be achieved.

Marks and Spencer's Bradford, West Yorkshire

ArborClad Thermo-D Platowood Spruce

Marks and Spencer's new multi-million pound northern distribution centre in Bradford, West Yorkshire, has been completed with a facade of high performance thermally treated Plato®Wood cladding supplied by Howarth Timber & Building Supplies.

The high-technology centre, close to the motorway network, is part of Marks & Spencer's programme to consolidate its existing logistics network. The new low carbon facility has been designed to meets the demands of M&S's environmental initiative, known as Plan A.

Plato®Wood is a stable, durable and chemical-free timber cladding solution, as functional as it is aesthetically attractive. It is sourced from certified sustainable forests and is suitable for both ground and fresh water contact. From its Bradford merchant branch, Howarth supplied over 900m2 plus for installation on this prestigious project.

One of a comprehensive number of cladding solutions from Howarth, Plato®Wood requires minimal maintenance, is 100% recyclable, has a life expectancy in excess of 30 years and is certified by the Forest Stewardship Council.

Installation guidelines

Timber is a natural product and providing it is treated in accordance with the manufacturers recommendations it will remain looking good and will last a lifetime. The following installation guidelines are additional areas you may wish to consider when selecting and fitting your external cladding. For further information please refer to the manufacturers recommendations.

Note. All advice on installation meets or exceeds those currently provided in BS 8605-PART 1

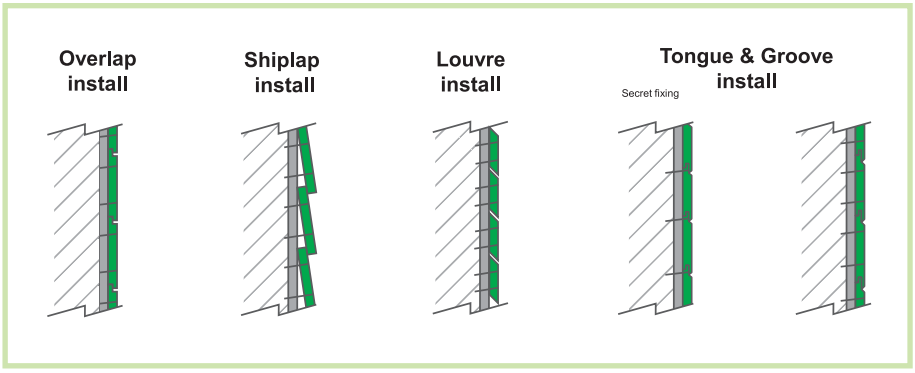
**Whilst not a requirement we would recommend that all timber battens used are treated with preservative.*

Part 1. The basic rules for installing cladding

Fixing external cladding

Softwood
Stainless steel annular ring shank/round head nails are appropriate for fixing softwood cladding:

- The nail length is generally minimum 50mm or 2.5 times the thickness of the board being fixed whichever is the greater and should be punched slightly below the wood's surface.
- Boards over 100mm wide should have double fixings.
- Make sure that butt joints always meet on sufficient batten support width (see below).
- It's preferable to use stainless steel nails for all species but especially those with a high tannin content, and they are essential for timbers installed 'green'. By using Stainless Steel this avoids permanent staining due to the reaction of the tannin on mild steel or galvanised nails.
- If using battens*, we recommend a minimum size of 38mm x 50mm (finished size).

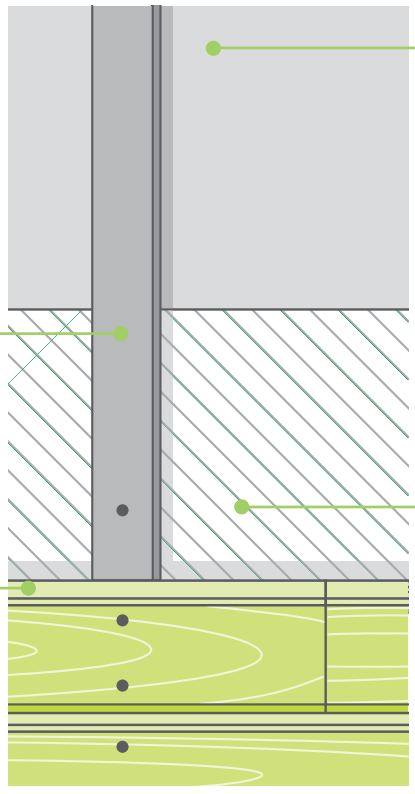


Hardwood
Stainless steel screws/annular ring shank nails are the preferred method of fixing for hardwood boards. Stainless steel screws are preferable, and essential for timbers installed 'green':

- Slight over-drilling of the screw holes will allow for any movement in the wood and prevent splits. Countersinking screws is also recommended.
- Where 'green' wood is used, it may be necessary to fit washers to the screws to maintain the fixing security. This can become a design feature.
- Metal clips, which also provide a 'secret fix' effect, may also be considered. Screw fixings should be minimum 40mm or half the width of the board, whichever is the great, from the end of the boards to avoid splitting.

Timber cladding must be able to fulfil several roles:

- **An aesthetic role:** It is the finishing touch to a new build or an advantageous solution to renovation project
- **A mechanical role:** Resistance to knocks & to eventual abrasion: the choice of species, the profile, the finish & style of installation are determining factors
- **A functional role:** Waterproofing in conjunction with the waterproof membrane, thermal insulating as a result of the natural timber & the air gap



Its the waterproof membrane which assures the façade is waterproof.

Wall
- **Brick & block**
- **Timber frame**
- **Concrete**

Battens: Secondary frame

Timber battens generally need to allow for a fixing length which is minimum 50mm or 2.5 times the thickness of the board being fixed.

We recommend minimum batten size of 38mm thickness and for these to be pressure treated with suitable preservative.

Fixing of battens:
- Stainless steel wood screws
- Stainless steel nails
- Anchors (Concrete walls)

Treatment:
- Minimum Class II – Class 3 in the case of a louvre type installation

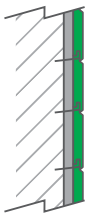
* If fixing of battens is on a continuous support (Board)
** Distance between 2 battens & 2 fixings of the same batten

Air Gap
- Minimum thickness: 1cm
- Ventilation (1 opening for ever 2 floors minimum)
- Non-restricted air entry & exit, minimum section 50cm2 per metre of cladding
- The timber battens must not restrict the circulation of air

See part two on opposite page

Waterproof membrane
Compulsory (Except on poured concrete walls or walls already waterproof)
- Minimum permeability: 0.5g/m2.h.mm Hg
- Fixing by means of timber batons
- Minimum overlap: 5cm horizontal joints
  10cm vertical joints
- Foresee a UV resistant waterproof membrane in case of a louvre type installation.

NB: Waterproofing is not the primary function of cladding



Fixing of cladding
- Stainless steel
  Annular ring shank nails
  Small round headed
  Stainless steel screws
- 2 fixings over the height of the board except
  - Board cover width < 100mm (1 secret fixing 25mm from lower edge of the board)
  - ArborClad pre-finished traditional and prime 1 secret fixing at the top

Joints
ArborClad pre-finished products are assembled by means of tongue and groove on the edges. In such cases, a joint can be located between battens without any problems. All other ArborClad products are square-edge.

* Except bevel sidings, Channel cladding, cladding planks made of Norway spruce: The joints must be positioned on the battens

Part 2. Types of cladding installation

Board sizes
Horizontal boards:

- Shiplap or feather edge type boards should have a minimum of 10mm overlap, but allow 2mm gaps between the upstands for movement in the timber.
- Tongued and grooved boards should have a maximum face width of 150mm, with a 2mm clearance above the tongue for expansion. Most commercially produced profiles will include these tolerances. Install with the tongue upwards.
- Open joint boards should have an 8-15mm gap at the 'water face'. Chamfered edges allow the boards to overlap slightly, reducing any exposure of the cavity.

Vertical boards:

- The face width of vertical boards should not exceed 150mm. The most versatile fixing method is board on board. Any overlap should be a minimum of 20mm.

Diagonal boards:

- Should be fixed on battens, as for vertical boards, taking into consideration the comments above for overlaps or tongue and groove styles.

Using battens
NOTE: We recommend a minimum batten* size of 38mm x 50mm (finished size).

Use battens that are preservative treated and structurally graded to ensure they are able to carry the weight of the board material. Fix horizontal boards to vertical battens, taking care where boards are jointed to ensure they sit securely on sufficient batten width. Conversely, fix vertical boards to horizontal battens, with vertical 'counter' battens to facilitate drainage and ventilation. Support battens should be fixed at spacings of no more than 600mm, whether vertical or horizontal. And at no more than 400mm for diagonal boards.

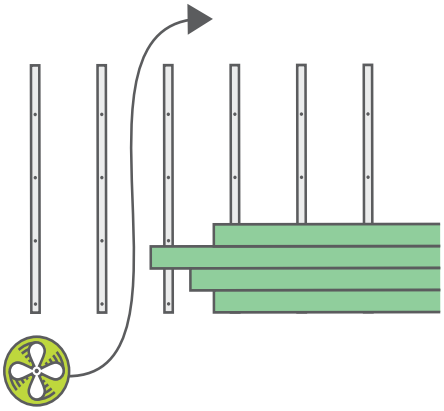
These spacings will maintain the overall stability of the cladding.

Remember the cavity
The timber cladding you are fixing to the building is effectively an outer layer of protection against the elements. However, a cavity should be formed behind the cladding to allow any water or moisture that might penetrate the cladding to escape. This ensures internal and external surfaces of the wood maintain a similar moisture content, reducing the potential for movement and distortion, allowing ventilation between the inner and outer surfaces.

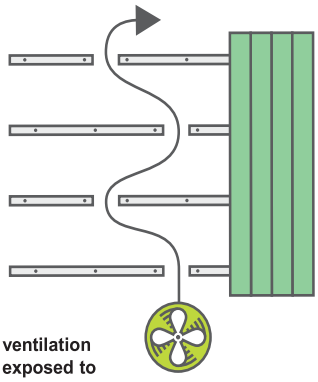
The cavity should be at least 19mm wide, but may be wider, depending on the thickness of fixing battens. A weatherproof membrane is usually required to protect the structure, although this may not be needed on masonry. Additionally, if not sealed a fly scree membrane should also be used to prevent insect infiltration.

**Whilst not a requirement we would recommend that all timber battens used are treated with preservative.*

Horizontal

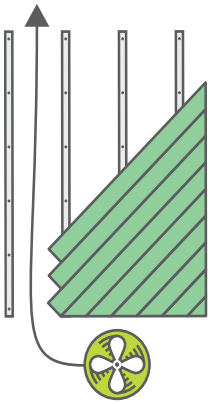


Vertical



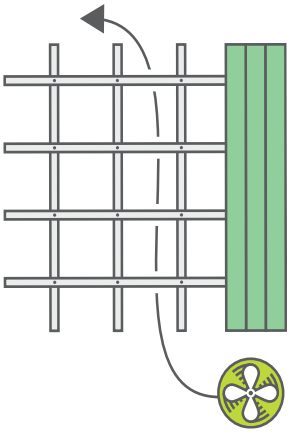
Insufficient ventilation for facades exposed to bad weather

Diagonal



The vertical diagonal installation of cladding must take into account the dominant direction of the wind: Tongue facing the wind direction.

Double battening technique

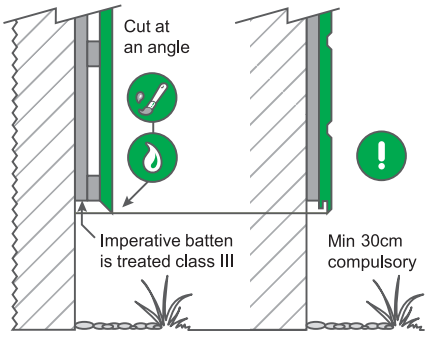


Better ventilation of the air gap increases the durability of the cladding. Highly advised for vertical install

Part 3. Precautions for bottom fixing

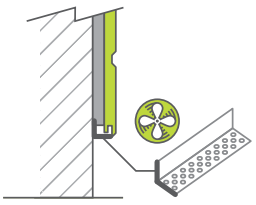
Treat cut ends with timber preservative

Vertical install **Horizontal install**



The spray of water risks keeping the lower boards constantly humid. It is advised to leave the ground uncovered (at the foot of the wall) or to cover with stones/gravel

Aeration grill "Anti-rodent"



Regardless of the system used to finish off the lower cladding board, it is necessary to have at least 50 cm2 of air inlet per metre on a façade covered in cladding

Part 4.
Cladding details

Window and door openings
Openings within a wall require special attention to avoid the need to notch or split the boards. These openings need to be dimensionally compatible with the cladding to provide a good appearance as well as allowing for fixings. Thought also needs to be given to the 3-dimensional relationship of any flashings, sills etc. to allow for adequate drainage of water from the cladding surface and board ends.

Corner details
This is an important area of fixing detail, not just aesthetically but functionally, to ensure adequate protection against water.

Mitring boards at corners is not recommended for pre-finished products, as natural movement of the timber will allow the joint to open, causing failure of the surface coating and water ingress.

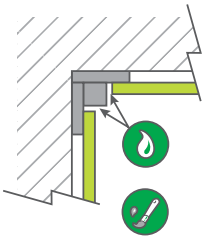
Mitring the ends of boards can be considered, but it is advisable to provide a gap between any adjoining surfaces and pre-finishing/treating all exposed ends.

Internal and external corners are more easily detailed on vertical boarding. These can be jointed by 'tonguing and grooving' to give added stability and protection.

Solutions for internal cladding angles

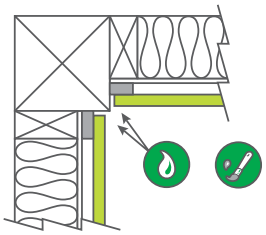
Timber allows for a wide variety of design options for finishing. These can be simple solutions or bespoke profile manufacture. Below are just a few commonly used solutions for forming internal angles.

Solution for an internal angle

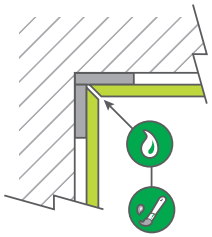


Possibility to highlight the corner by changing colour

Timber frame with a column corner

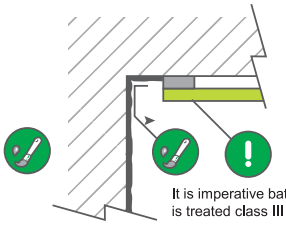


The most discrete: Mitre joint



It is imperative to align the cladding from one wall to another

Cladding / render joint



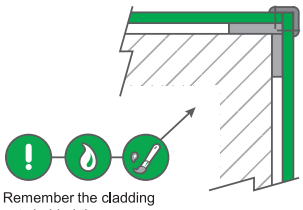
It is imperative batten is treated class III

Re-paint all cuts
Retreat the cuts (Insecticide & fungicide product) in the event of using a Norway spruce cladding

Solutions for external cladding angles

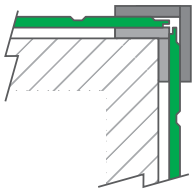
Timber allows for a wide variety of design options for finishing. These can be simple solutions or bespoke profile manufacture. Below are just a few commonly used solutions for forming external angles.

The most used, the least discrete



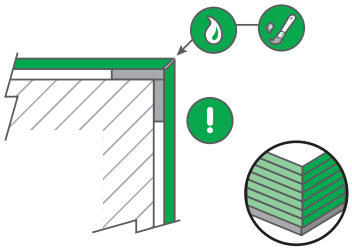
Remember the cladding cuts behind the corner

Suggestion for highlighting a corner



Possibility to change colour

The most discrete: Mitre joint



Risk of water retention
• Cuts must definitely be retreated or repainted

It is via the cuts when they are not protected that the cladding deteriorates (Humidity retention & rotting)

Part 5. Profile lay and coverage per sqm (finished sizes)

	Cover size	lmt /m2
15 x 119mm shiplap	***109mm***	***9.10***
15 x 119mm T&G	***112mm***	***8.90***
19 x 117mm shiplap	***100mm***	***10.0***
19 x 117mm offset	***95mm***	***10.5***
19 x 117mm T&G	***112mm***	***8.90***
19 x 140mm shiplap	***125mm***	***8.00***
19 x 140mm offset	***120mm***	***8.30***
19 x 140mm T&G	***135mm***	***7.40***

	Cover size	lmt /m2
19 x 147mm secret-fix	***122mm***	***8.19***
19 x 190mm shiplap	***175mm***	***5.70***
19 x 190mm offset	***170mm***	***5.88***
23 x 145mm offset	***120mm***	***8.30***

Please note: All offset profiles allow for installation by secret-fixing or secret-fix offset. For further information or advice please contact us.

Complementary products

ArborClad timber cladding can also provide a full range of complementary products and accessories to make sure that your project has the result and finish you need. Internal or external corner angles, quadrants, window boards, window linings, plus one of the largest ranges of timber and composite decking are all available, machined to your project specification and individual requirements. We also offer a full range of stainless steel fixings to ensure your project will endure and stand the test of time.

LUNARDECK
THERMO-D REDWOOD

LUNARDECK
THERMORY-ASH

The Lunardeck range of decking products, which are also thermally treated, make an excellent choice to complement any cladding development. Thermally treated products are widely used on decking projects in Scandinavian countries due to the lack of chemical treatments in their production and because the uniform golden colour achieves an exceptionally clean appearance.

Lunardeck Redwood gives an almost hardwood appearance at a softwood price and, as you can see from the Mercia Marina project shown above and on page 24, complements even the most prestigious development.

Lunardeck Ash decking is provided end-matched to reduce wastage and is regularly specified on high end developments where quality and appearance are paramount.

arborClad

21ST CENTURY CLADDING SOLUTIONS

A specialist range comprising the highest quality, sustainable cladding products. Perfect for any application, from domestic and commercial to refurbishment.

Available from your nearest branch of Howarth Timber, the UK's largest privately owned and operated timber group with branches located nationwide

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Tottenham	0330 119 2469	sales.tottenham@howarth-timber.co.uk	N17 6RA

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Bury St. Edmunds	01284 772 700	buryse_enquiry@howarth-timber.co.uk	IP32 7QW
Fairford	01285 711 600	fairford_enquiry@howarth-timber.co.uk	GL7 4DS

HOWARTH WINDOWS & DOORS

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08/15