

NTech
Windows
& Doors
by NorDan





Proven by nature. And you.

Nature is the only guest you can be certain will visit again and again. Windows and doors from NorDan, designed in Norway, are proven by nature to resist nature, all the while being customised to your home.

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From the forest

Timber is the core of our products, and a part of our DNA. To ensure windows and doors with the highest quality possible, we exclusively source timber from sustainable forests. The cold climate forests means that trees are slow growing, with dense woodgrain. After felling the trees are expertly processed, where unwanted parts are cut away and recycled, while the stock that passes quality control is finger jointed and glued before being transported to our production facilities.



... to our factory

When arriving the timber is thoroughly inspected, before being put into production. With a combination of precise robots and skilled operators the waste is kept to a minimum, as the raw material step by step is transformed into the components that make up a window. Before painting and fitting of the aluminium components all our timber is pressure treated. This is the single main factor for our industry leading warranties against fungi and rot.



... to your family home

New windows will almost always look good when they are first fitted. The real test is how good they look after ten or fifteen years being exposed to rain, wind and changing temperatures. We take great pride in controlling every aspect of the production ourselves, because we know there aren't any shortcuts when it comes to quality. We also make sure that you always have someone to contact if you have any questions. After all, the only thing more important to us than windows are our customers.

Making the right choice

Choosing the right windows and doors when building or renovating can be a difficult task. Most of us only do it once or twice, and that makes the decision even more important. Let us help you with these inputs to what you need to consider to make the right choice.

Timber or aluminium cladding

All NorDan windows have pressure treated timber at the core, and this makes for high performance products that last. But for extra long life expectancy and a virtually maintenance free ownership you should consider aluclad windows. On the inside you get all the advantages of a timber window, and on the outside you keep the weather at a comfortable distance. The aluminium can be delivered in a wide range of colours, as can the pure timber windows.

Application and usage

All windows in a home don't have to be the same. Modern and dynamic architecture often calls for windows in different shapes and sizes, with different demands to them being fully opening, fixed frame or a combination. Older buildings might need new windows that comply with local regulations, and all of this is worth considering when choosing the application and usage of your new windows.

Function

Different windows function in different ways, and it's important to find out if you have special preferences for how you will use your new windows. Should they be inward opening with three handles, or perhaps an outward opening and fully reversible window is a better fit? Determining how you want the windows to function is key to making a choice you will be satisfied with.

Options and accessories

Different parts of a building can often be exposed to different environments. One side may be exposed to a lot of sun, while another may be adjacent to a road with a lot of traffic. Windows on the ground floor might be better off equipped with an increased security standard than windows higher up.





Alu Clad >>

<< Timber





Eagle Brae





Products shown

Outward opening double doors
Side swing windows
Fixed lights

Surface treatment

Alu-clad RAL7000

”

We chose NorDan primarily because of their long term proven track record for quality craftsmanship. They offered us the flexibility we needed in bespoke design for our unique log cabin structures. They were also able to customise the finishing options for us to meet our specific aesthetic

requirements. It was this ability of NorDan to respond to our unique design requirements coupled with their trusted reputation for quality which convinced us to go with NorDan. If and when we build some more log cabins, we will use NorDan again.

- Mike, Eagle Brae owner
www.eaglebrae.co.uk

High performance windows *from a simple core*



We understand that telling one window from another isn't always that easy, after all they more or less look the same. Through constant attention to the details, and at the same time always challenging ourselves to perform better, we deliver high performance windows from a simple core.

Pressure treated timber

We pressure treat all our timber. This strengthens the windows' resistance towards fungi and rot, and is part of the reason we can provide a 20 year warranty for timber windows and 30 year warranty for aluminium clad timber windows.

Energy efficient

We provide a complete range of Passive rated windows. With average U-values below 0.7 W/m²K. Together with highly efficient glazing this is thanks to a special process where we split the sash and frame and insert insulation to establish a thermal barrier.

Powder coated aluminium cladding

Our aluminium clad timber windows are virtually maintenance free. We only use high quality extruded aluminium for our windows. The aluminium is then powder coated, which leaves a very hard and robust surface.

Options that suits you

Windows and doors from NorDan have always been well equipped in their standard configuration. But that doesn't mean you can't choose from a wide range of options and accessories, all suited to make your choice truly personal.



Keeping the weather **at a distance**

Above all there is one thing the British Isles and Scandinavia has in common: Neither of us are famous for our good weather. We seldom get surprised by rain or wind, and neither should our windows. That is the basis of NorDan's focus on continuous improvement of our product's weather performance. You don't

have to live by the coast to experience the bad weather it can bring. That is why our StormGuard window for instance, has been tested with winds up to hurricane strength and still functioned properly. This is miles beyond any building regulation, but we like to be on the safe side of the scale.



Windows

StormGuard



StormGuard

The NorDan flagship, continuously improved since 1962. Inward opening, three handled tilt and turn window with class leading weather performance and energy efficiency.

Advanced and easy to use, StormGuard by NorDan (3 handled tilt & turn window) tilts for everyday ventilation and turns to allow access to the outside glass for easy cleaning safely from inside. The advanced mechanism is the result of many years of product development. The window has three handles and seven solid locking points. All ironmongery is located safely behind the weather seal gasket for greater weather performance.

For more information visit www.nordan.ie



Robust
shoot bolt



Locking
clutch



Adjustment
dome

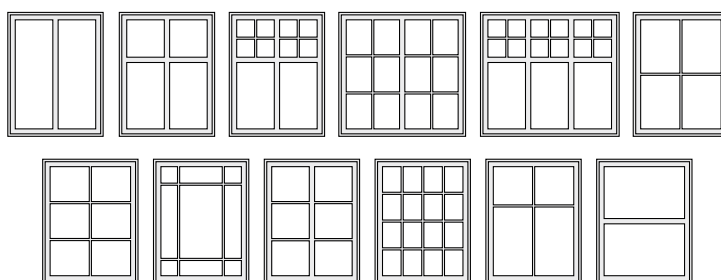


Inside

Outside

Examples of glazing bars, transoms and mullions

Read more on page 38.







White House Lodge

Products shown

- Top swing window
- Sliding door
- Fixed lights

Surface treatment

- Alu-clad RAL7012

Lauchlan and Charlotte Maclean-Bristol converted a ruined 19th century farm workers building with a bright orange roof, on the Scottish west coast island of Coll into an impressive high spec four bedroomed home.

They retained the raw stone exterior finish and added an extension. The couple were very fortunate that Coll, despite a population of just 200, has so many skilled tradesmen.

The seven openings in the road facing façade, were retained to meet planning requirements.

The only existing door opening in the sea facing side was then enlarged into a patio door, with picture window added, to take advantage of the stunning sea views.

NorDan aluminium clad windows were specified for all the windows and patio doors and the solid front door as well as the glazed kitchen door. These are very high spec products to endure the challenging weather on a Scottish west coast island surrounded by sea, and with few trees to protect against stormy winter weather. The couple haven't used curtains as

the house is remote with stunning views, and all year warmth helped by low u value windows. White House Lodge has top of the range windows and glazed doors with a u value of 1.2 W/m²k from NorDan's NTech range and includes top swing, outward opening windows which are aluminium clad.

Side swing

Enjoy the best of modern operation and classic design. Rotating sash means easy cleaning while maintaining the traditional aesthetic.

The ideal solution for safe cleaning. For new houses with multi-sash windows or in renovated older buildings, this is an ideal solution as it combines traditional style with child locks and a secure wash position. In the ventilation position, the Side swing looks like a "traditional" side-hung window. By twisting again, the windows turn from the outside in for easy, safe and secure cleaning.

For more information visit www.nordan.ie



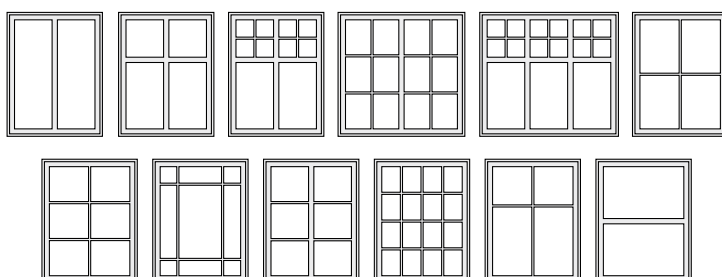
Fully reversible
for easy
cleaning



Child safety
catch

Examples of glazing bars, transoms and mullions

Read more on page 38.



Side **swing**



Top swing: TopTech

With restrictors integrated in the hinges, this solid window is easy to clean and child safe.

Well balanced ironmongery ensures the frame can easily be turned 180 degrees for safe cleaning from the inside of your building. Solid cleaning restrictors are also integrated in the hinges for additional safety. The window has a sophisticated and effective child safety restrictor integrated in the hinges for extra peace of mind.

For more information visit www.nordan.ie



Inside

Outside



Child safety



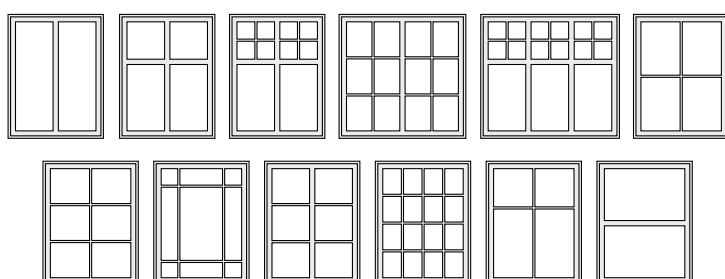
Fully reversible sash fitting



Strong bolts

Examples of glazing bars, transoms and mullions

Read more on page 38.



Fully **reversible**





Deepstone





Products shown

Sliding door
Fixed lights
Shaped Fixed lights

Surface treatment

Alu-clad RAL7016

This example of contemporary architecture is located on a spectacular site overlooking the Solway Firth. The site is a steeply sloping, former quarry in a National Scenic Area.

Part of the low energy features are the NorDan triple glazed windows, with warm edge spacer bars, thermally broken frames and inert gas filled to achieve a whole window u-value of 0.7W/m²K.

Designed by architect Simon Winstanley, the first floor of this new home forms the public

living accommodation with an external terrace facing the sea, conceived as a glazed pavilion sitting on top of a masonry base. The pavilion is constructed with a standing seam zinc roof, glazed on the sides with views and panels of durable timber cladding.

The external walls, floor and roof are highly insulated and air infiltration is minimised. The property has a ground source heat pump for the underfloor heating and hot water system with a closed combustion wood-burning stove as back up. Micro generation of renewable

electricity uses roof mounted Photovoltaic Panels. This house also has a whole house heat recovery ventilation system.

Fixed **light**



Design
your own
shape



Fixed light

Enjoy a multitude of options with a fixed light window. Choose from a variety of shapes, and adapt them to your needs.

Fixed light windows allow extensive use of large glass areas and particular architectural styles. Personal safety, escape routes and the possibility of washing must always be considered before choosing a fixed light window. This window is also available as a smart solution for inside the building to create additional screening options or designs.

For more information visit www.nordan.ie



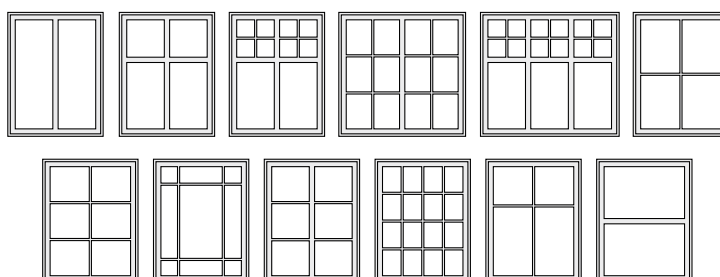
Inside



Outside

Examples of glazing bars, transoms and mullions

Read more on page 38.





Products shown

Sliding door

Surface treatment

Standard White
(NCS-S 0502-Y)

Picture credit

Denholm Associates



Balcony & Sliding Doors

Balcony Door

Let the daylight into your home while keeping the outdoors accessible. Our balcony doors come in a wide range of fully glazed and insulated panel options.

The NorDan balcony door is not just elegant but robust enough to provide burglar resistance with secured by design approval. The door design can be customised to suit your project with fully glazed and insulated panel options.

For more information visit www.nordan.ie

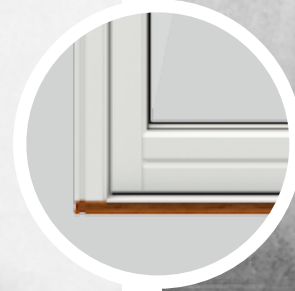


Inside

Outside



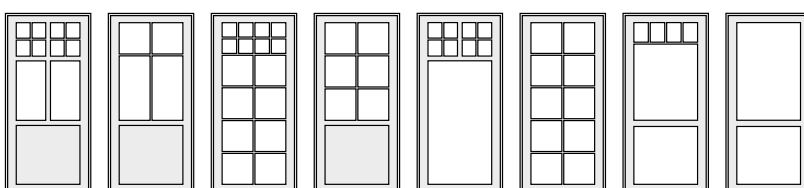
Strong and adjustable hinges



FSC-certified wood in the threshold

Examples of glazing bars, transoms and mullions

Read more on page 38.



Balcony Door



The Longhouse





Products shown

Sliding door
Fixed lights
Balcony doors
StormGuard windows

Surface treatment

Alu-clad RAL7016

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I've sat and watched the glass bending when we have had bad weather in the winter days, and it's an idyllic place in which to sit and watch the world go by.

– Linda MacLeod Brown

A vast amount of glazing gives the owners and their visitors a unique opportunity to enjoy amazing vistas of the open seas, rainbows, total night light and the Hebridean summer solstice, and generally appreciate the views in what is also a self catering property available for holiday lets.

The Lewis Long House is available for holiday rent:
www.lewislonghouse.com

Sliding Door



Sliding Door

Open your home. Sliding doors bring the outside in, all the while making sure you and your home are safe when you want it.

NorDan sliding doors glide on sealed ball bearings set safely beneath the door, making it easy to open and close even in larger dimensions. When the handle is turned down, the door moves out and away from the seal. When the door is closed, it fits firmly into the seal so that the maximum protection against draught, wind and rain and also improved security.

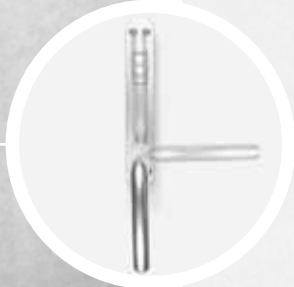
For more information visit www.nordan.ie



Four lock points
for best weather
seal and safety



180° handle
action for smooth
performance



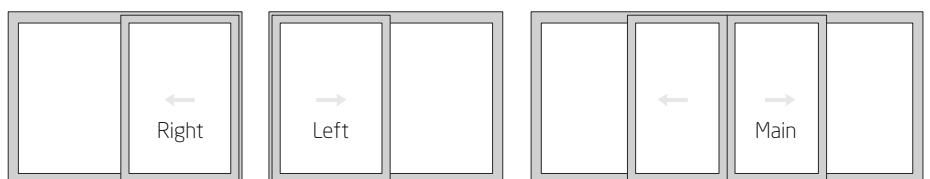
The sash runs
on the outside
on strong
bearings



Inside

Outside

Sliding Door combinations





Factory fitted
so you don't have to

No assembly required

-what you order is what you get



It would probably be easier for us to ship all the accessories separately. After all, a finished window is the result of a lot of big and small components assembled together to a final product. But when you order from NorDan, we put in the extra effort to assemble the complete product at the factory. All handles

and other ironmongery are in place, and the same goes for glazing bars, vents and other accessories you may have chosen. That way nothing gets lost on the site, and you can avoid delays waiting to get replacement parts delivered.

Surface treatment

NorDan offers a wide spectra of standard colours.

We offer you the opportunity to create your individual product by determining your options and colours.



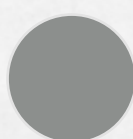
Jet Black
RAL 9005



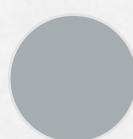
Anthracite Grey
RAL 7016



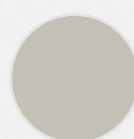
Dusty Grey
RAL 7037



Basalt Grey
RAL 7012



Window Grey
RAL 7040



Silk Grey
RAL 7044



White aluminium
RAL 9006



Grey Brown
RAL 8019



Nut Brown
RAL 8011



Red
RAL 3011



Brilliant Blue
RAL 5007



Moss Green
RAL 6005



Oyster White
RAL 1013



Grey aluminium
RAL 9007

*The above colour samples are for illustrative purposes only and may differ from the original colour.
For best results, always use an approved colour swatch for accuracy.*

*The above colour samples
are only available for alu
clad products.*

Popular colours As an alternative to our standard white (0502-Y), we offer a wide range of other colours from a standardised palette. These colours are carefully selected based on the most popular choices both nationally and internationally. The colours are available both for timber and aluminium application:

Deep, rich and long lasting, these are just some of the words that describe NorDan colours. From subtle earth tones to bold, eye-catching red and blue, and an almost endless variety of custom colours to choose from. NorDan's window surface stands out as much for its beauty as it does for its legendary durability.

Choosing the perfect colour for your windows is not simply black and white. There are also shades of beige, brown, grey, red, green and blue. Aesthetically pleasing colours that give you lots of design options. Of course you can still choose from our standard colours. In NorDan it's all about choice.

Aluminium Cladding

NorDan virtually maintenance free, aluminium clad timber windows have an extruded aluminium exterior, which can be powder coated with industrial strength paint for superior resistance to fading and flaking.

Special colours



RAL-colours - NorDan can supply most RAL colours applied directly to the treated timber and polyester powder coated onto the aluminium surfaces at an additional cost and longer delivery times.



NCS-colours - NorDan can supply most NCS colours in paint for timber products and powder coating for the aluminium. However, because of the huge number of NCS colours that are available, cost and delivery times may vary.

Uncoated products

NorDans products can be supplied uncoated if required.

Glazing options

Sound reduction, safety, security, energy saving and decorative
NorDan glazing can be supplied depending on the performance criteria you require.

Safety glass

NorDan takes security seriously. Personal safety and security against intrusion must be carefully considered when deciding on the level of safety glass required. Its important to consider not just the glass but all the installation and fixing of the frame.

Safety glass comes in many types with protection against multiple hazards (risk of falls, injury from collision, burglary, vandalism, projectiles and pressure loads). Some requirements use thicker glass, others with glass with special properties. The two most commonly used and known safety glass types are toughened and laminated.

Toughened glass

Toughened glass is about 4-6 times stronger than ordinary glass of the same thickness. Toughened glass is produced by heating the finished cut glass and cooled quickly so that the outer glass surface cools faster than the center of the glass. This gives the outer surface a tension that makes the glass more difficult to break. When toughened glass is broken, the glass particles are small and relatively harmless, but the glass does not stay together.

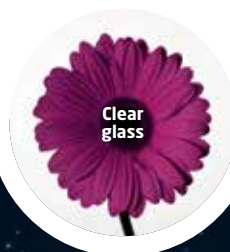
Laminated glass

Laminated glass is composed of two or more layers of glass baked together with intermediate layers of plastic. Laminated glass can be

constructed of several glass layers, and several plastic layers of different types depending on your requirement. When laminated glass breaks, the plastic layer holds the glass particles together. The result is that a barrier still remains so that burglars would not be able to get through the glass. NorDan recommends the use of laminated glass in all doors, and areas on the side of the doors, and in areas where collisions can occur.

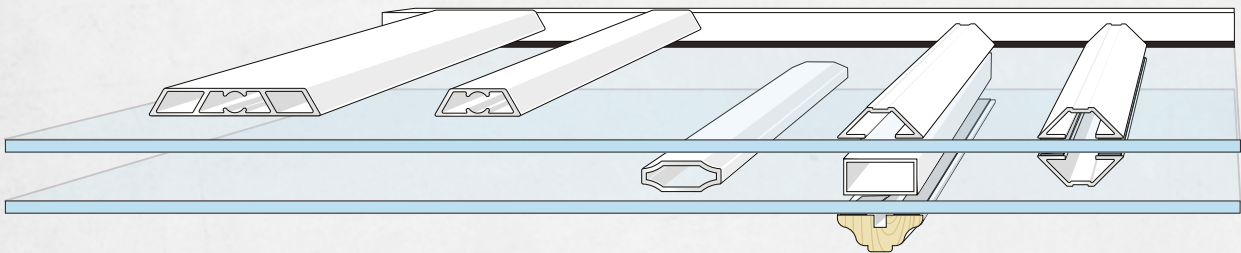
Other glass types

Obscure and decorative glass types are also available depending on your requirements. For further information, contact your nearest NorDan representative.



Glazing bars

Decorative glazing bars



External glazing bars

External glazing bars are mounted on the outside of the glass to provide an appearance of dividing large glazed areas. It is fitted with a smart snap system that easily allows you to remove the bars for cleaning. Available in 28 and 56mm versions

Integral (thermo)

Integral (thermo) glazing bars have 26mm widths and are completely encapsulated in the glass cavity so that both the inner and outer glass surfaces can be easily cleaned. Available in white finish only.

Duplex

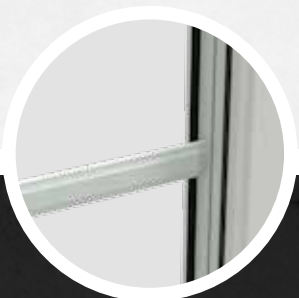
Duplex glazing bars combine 28mm wide aluminium exterior and 28mm wide wooden interior, secured to the glass with an additional spacer in between, giving the appearance of divided panes.

Surface mounted

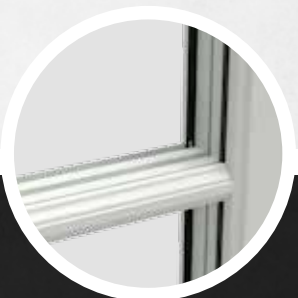
Available in 28mm, surface mounted glazing bars are securely bonded to the outer glass to give the desired panelling design while the inner glazing bar is safely secured within the sealed unit. Glazing bars are available powder coated in RAL classic range.



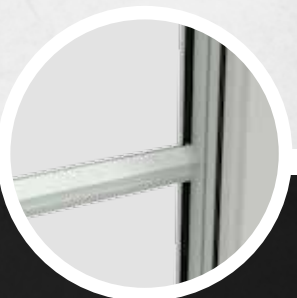
External



Integral



Duplex



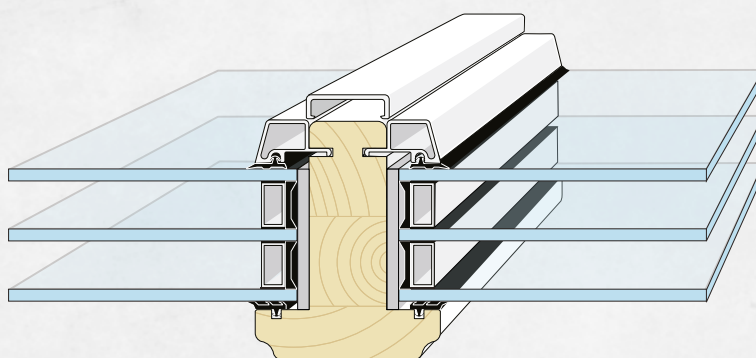
Surface
mounted

Window examples



Transoms and mullions

Customise your windows with transoms and mullions

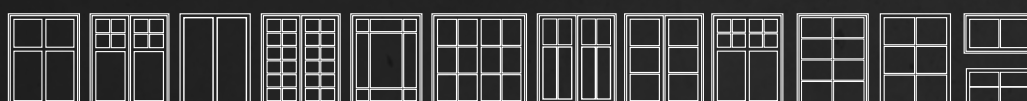


In addition to the various decorative glazing bars and overlays, all NorDan products are available with solid mullions and transoms in timber and aluminium cladding.

Incorporated transoms and mullions divide the glass into individual glazed areas with the advantage that different glass can be installed.



Window examples



Handles



Window handles

The window handles is available in white, chrome, matt chrome and brass effect. We also have a wide range of lockable handles and

handles with child safety restrictors.. For more information please visit www.nordan.ie



Balcony & Sliding door handle

Available powder coated white, anodised silver effect or anodized brass effect. Cylinder lock or thumb turn available as standard. Suitable for all NorDan balcony doors and sliding doors. Products finished in standard white colour will include white handle(s) and fittings, unless

specified otherwise. We also have a wide range of door handle with exterior plate, exterior door handles with cylinder and door handle blanking plate. For more information please visit: www.nordan.ie

Warranty & life expectancy

Alu clad products

30 years warranty
on timber/alu clad products
against rot and fungus

60 years life expectancy
on timber/alu clad products

Timber products

20 years warranty
on timber products
against rot and fungus

40 years life expectancy
on timber products



warranty
against rot and fungus



warranty
against rot and fungus



Life Expectancy
for alu clad products



Life Expectancy
for timber products



PEFC/COC-1116
Promoting sustainable forest management
For more info: www.pefc.org

PEFC

NorDan AS holds the internationally renowned PEFC certificate (the Programme for the Endorsement of Forest Certification). This means that NorDan has certification is documented along the entire chain from tree stump to the consumer and that raw materials are sourced from well managed forests.

www.pefcnorge.org



EN 14351-1:2006+A1:2010

CE-Mark for windows and doors

The CE marking of NorDan windows and doors has been introduced in EU countries. All manufacturers must label their products with the CE mark to show that documentation of the windows and doors are manufactured and tested in accordance with European standards.



Secured by design

Products with this symbol are tested and approved according to strict safety and quality standards from the Association of Chief Police Officers in the UK (ACPO). Products with this label are resistant to burglary and help reduce crime. Featured NorDan products that hold SBD certification can be found on the secured by design website.

www.securedbydesign.com



BBA

British Board of Agreement - The British Board of Agreement (BBA) is the UK's major authority offering approval of construction products, systems and installers. NorDan has a number of products tested to the most rigorous of standards.

Whilst every effort is made to verify and ensure the accuracy of the information in this brochure, NorDan Vinduer Ltd do not take responsibility for any printing errors. The information should be used only as a guide and no purchasing decision should be made without consulting with your local NorDan office.





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