



# NORDAN **HOMEGUARD**

ENTRANCE DOOR





## NORDAN OUR STORY

**NorDan is among Europe's leading manufacturers of windows, doors and smart accessories. We are on a mission to be the leading Scandinavian window supplier to the UK housing market and as a responsible solutions provider, we design and manufacture products to challenge what's possible.**

Having been founded in 1926, we are a family run business that was built upon a strong foundation of core values and they are ones which we adhere to almost 100 years later. We operate throughout 11 countries, consisting of 12 factories, 30 project management offices, more than 2000 employees throughout Europe.

We are renowned within the industry for our innovative products and company offering. This is shown by our commitment to investing in our existing facilities and new factories alike. In 2016, as a further £20 Million venture undertaken by the NorDan Group, work began on our Powodowo factory in Poland. This was an immense project that delivered a factory, which includes not only a State-of-the-Art FOX Powder Coating factory, but it also housed a brand new, standalone door manufacturing platform, which was specifically designed for the manufacturing of the HomeGuard door. Being completed months ahead of schedule and thousands under budget, this project was a true testament to just how effective and efficient Norwegian innovation can be.

### HOMEGUARD

**Not all composite doors are the same. With HomeGuard, naturally, NorDan has selected timber based elements for maximum security, performances and sustainability.**





## **Sustainable living**

Carbon neutral at the core

## **A DOOR BUILT FOR NOW AND FOR THE FUTURE**

**We are focused on building products that combine safety, innovation and beautiful aesthetics.**

However, before any of these elements are decided, there is a single common goal in NorDan and this is sustainable manufacturing. Our environmental ethos has always been one of our guiding principles. This was even the case when our founder, Johannes Rasmussen, decided on using timber to manufacture NorDan's windows and doors. Upon designing them, the timber material was chosen not just to be as durable and low maintenance as possible – reducing the likelihood of replacement or repair – but because timber itself is also a lifetime carbon-neutral material.

By protecting you from the outside elements through a sustainable high performance product, we want to give you so much more than you expect from just a door product.

# THE TREE

**The tree concept has been derived from NorDan's ecoDigital ready initiative to properly convey and encompass the concept.**

The holistic approach is based on four main elements that work in tandem with one another to truly represent NorDan's commitments and hopes to contribute towards a positive future for our world.





# THE ROOTS

This is the section of the tree that represents our deeply felt connection to the cause of ecoDigital ready. At NorDan, we are extremely proud of having such a strong culture with an extensive set of core values, which steers all of our actions. We know that we have both the responsibility and desire to preserve the world for future generations whilst fully embracing the digital era and the changing landscape of the construction industry.

# THE TRUNK

At NorDan, it has always been extremely important for us to put the environment at the heart of everything we do. Where possible, we aim to create a 'green supply chain' starting from the very first moment a tree is planted in one of our forests, all the way to our windows being installed in your family home. This section refers to the company-wide initiatives to reduce our carbon footprint, conserve our carbon footprint and create low maintenance and energy-efficient products, whilst promoting eco-consciousness as a leading manufacturer within the construction industry.

# THE BRANCHES

Moving onto the branches, this section represents our digitalisation transformation strategy. This refers to the ongoing digitalisation of the whole organisation, meaning less wastepaper, more efficient processes and a traceable, transparent chain of custody and technical documentation for our entire product range.

# THE LEAVES

The final piece of the ecoDigital ready puzzle refers to the leaves of the tree. Without actions, words wouldn't mean very much and that's why as part of our ecoDigital Ready initiative, we have a full routine of activities and projects that makes a contribution towards our initiative's objectives every single day.



## **SUSTAINABLE LIVING**

### CARBON NEUTRAL AT THE CORE

Sustainable living is at the heart of everything we do at NorDan and this has been true since the very founding of our company. The first-ever products at NorDan were designed and constructed with timber as the core element and this is still the very same to this day. The great thing about using a natural material like timber is that over the entire course of its lifetime it is carbon neutral meaning the product omits and absorbs carbon from the atmosphere.



### IMAGE SHOWS

**Door:** HG-105

**Colour:** RAL 3011

**Glass:** Clear glass

**Locking system:** TruLock

**Options:** Letter plate

**Surface finish:** Chen-chen wood grain

**Frame profile:** Traditional



# HOMEGUARD ENTRANCE DOOR

**Our aim, without compromise, is to produce products that are both secure and high weather performing all the while being thermally efficient and environmentally sound through low carbon materials.**

- + Secured by Design three-point locking system and security handle as standard
- + Low u-value glazed units with laminated glass
- + Extreme weather performance protecting against wind & driving rain
- + Stabilising aluminium sheets for structural strength
- + Vacuum impregnated timber to prevent against rot & fungal attack
- + Engineered timber elements optimised for sustainability
- + Surface finish, smooth compact laminate
- + Styles, rails, frames & veneers from sustainable sources - FSC certified
- + Environmentally friendly water-based paint finish
- + Insulated foam core for greater thermal performance & internal warmth
- + Warm edge spacer bar to prevent cold bridging
- + Part M compliant for dwellings requiring wheel chair access

## Accreditation and Certification

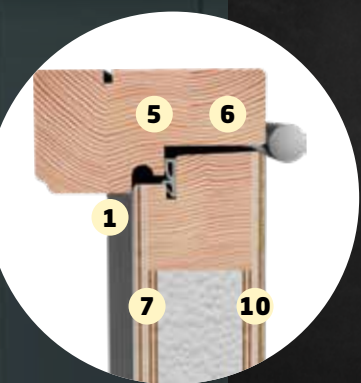
NorDan work closely with a number of third party certifiers and international agencies, in connection with product development and certification. The results ensure that you, as a customer, can be confident in the claimed performance and materials used.







**Our HomeGuard entrance door has all the aspects of NorDan's previous well established composite doorsets. Attributes to resist forced entry, a desirable Scandinavian aesthetic and weather performance certification prove our doorset can perform in the most extreme conditions, across all areas of the UK.**



- ❶ Double rebate design for superior weather performance
- ❷ Compact laminate finish
- ❸ GRP threshold for robustness and to prevent cold bridging and condensation.
- ❹ 60mm door blade thickness for thermal performance
- ❺ Pressure impregnated timber
- ❻ Engineered timber for maximum strength
- ❼ Aluminium sheets for strength and stability
- ❽ Industry leading air and water tightness for low level threshold
- ❾ All weatherseals carried on door blade to stop damage from feet and through traffic
- ❿ Multi directional timber veneer composite for strength, security and stability
- ⓫ High thermal performance CFC Free insulation
- ⓬ High performance drip bar for class leading weather performance



### **Certified fire door options**



**FG-301**  
RAL 7016



**FG-303**  
RAL 7044



**FG-304**  
RAL 3011



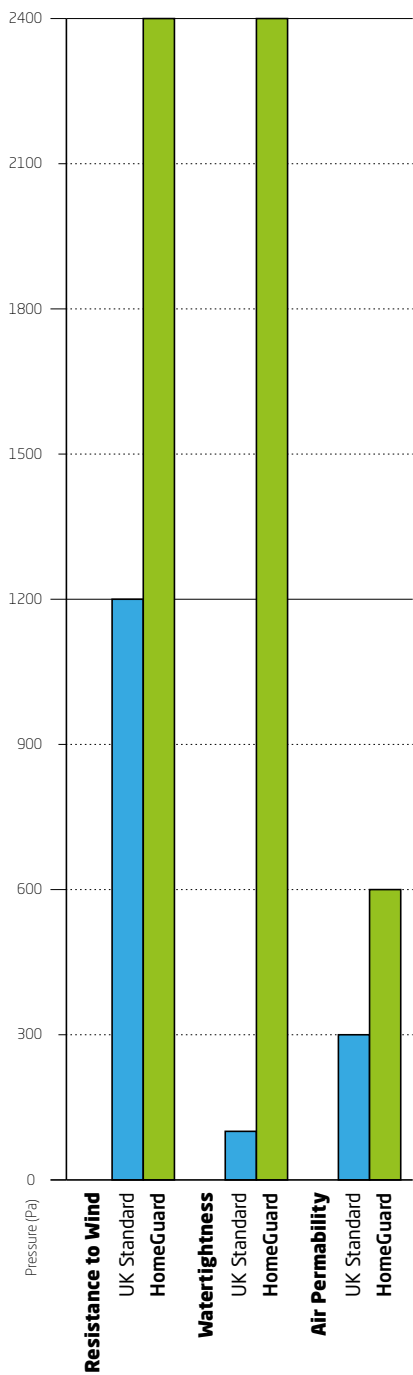
**FG-306**  
RAL 9005





# WEATHER PERFORMANCE

When the wind and rain are coming down in lashings outside, there is no better feeling than coming home and shutting the door on the outside world to come in and enjoy the warmth and joy on the inside of your home. You can rest assured that the HomeGuard door range will allow you to revel in this delight as our products have been tested against the highest levels of air permeability, wind resistance and water tightness up to 2400 pascals – making the HomeGuard one of the top-performing door sets available in the UK.





# SAFETY & SECURITY

**Your home is your castle so when you are selecting your brand-new front door, you will want one that not only looks like the perfect finishing touch to your home, but you also want one that is completely secure.** Safety and security are absolutely paramount for us at NorDan so when we were designing our HomeGuard range, these were the very first elements that we thought of. That is why we are proud to have our door range featured on the Secured by Design product selection, which is an external accreditation service granted only to those products that are proven safe against attempted intrusion.

## Ironmongery/Operation

- **Winkhaus Manual locking System**
  - Trulock+ or Winkhaus AV3 Automatic lock for standard doorsets.
  - Winkhaus AV3 Automatic lock is standard for EI30 fire rated doorsets.
- **Hoppe Atlanta** SBD certified PAS24:2016 security handle.
- **Winkhaus Euro cylinder** available in Key/Key or Key /Thumb turn
- **TS007 "3 star"** rated lock handle and cylinder combination





## Cylinder (XR6-51)

HomeGuard doorsets are supplied with Winkhaus XR6-51 cylinder. This is a high security profile cylinder that conforms to TS007:2012, BS EN1303:2005, PAS24 and Police 'Secured by Design' requirements.

The Winkhaus' XR6-51 is a fire rated euro profile 6 pin cylinder which has been awarded a British Standard Kitemark KM531333.

The test method, carried out by the Master Locksmith's Association, replicates the most severe forms of burglary attack and incorporates resistance to all known attack methods:

### Features

- Anti bump
- Anti-pick
- Anti-drill
- Anti-snap
- Anti-core withdrawal

### Material

- Brass Body.
- Steel Cam.
- Hardened Steel Anti Drill Pin.
- Nickel Plated Brass Keys.

### Options

- Thumbturn (minimum internal length 38mm).
- Available as pairs and keyed alike.
- Supplied with 3 keys.
- Cylinder can operated even with a key left inserted on the inside.

### Advantages

- Special shaped torpedo tumbler pins enhance resistance to bumping and picking.
- Hardened steel tumbler pin resists core extraction and improves drill resistance.
- Anti-snap when used with a cylinder guard or solid backplate handle.
- Hardened steel rods in the cylinder body and core in conjunction with steel tumbler pins increase drill resistance.

### Accreditations

- BS EN 1303:2005.
- TS007:2012 1 Star.
- PAS24: 2016.
- Kitemark approved: KM531333.
- Police 'Secured by Design' approved.



## Handles (Hoppe Atlanta)

Hoppe Atlanta is the handle supplied with the HomeGuard doorset. This is a high security handle designed to withstand attack from potential intruders. Solid aluminium backplates provide added strength and resistance. Rotating cylinder cover to protect against attack. Supplied with M6 hardened steel screws. Secured by Design accredited, for total peace of mind.

Hoppe aluminium security handle set on narrow backplate with cylinder cover for profile doors.

### Features

- Tested to BS EN 1906:2012.
- Bearing: loose door handles, spring cassettes, maintenance-free slide bearing.
- Connection: Hoppe Quick-Fit connection with Hoppe solid spindle (spindle - receiver components).
- Backplates: with supporting lugs.
- Fixing: visible inside, bolt-through, M6 thread screw and M10 thread screw with M6 thread inside.
- Product type: Security handle sets.
- Material: aluminium.
- Finish: F1 aluminium silver effect.
- Keyhole: Euro profile cylinder.
- Keyhole distance: 92 mm.
- Category of use: 2.
- Spindle size: 8 mm.
- Security grade: PAS 24:2016.



## Locking System (TruLock)

A modern day locking systems needs to be designed for composite and timber doors ideal for the social housing and new build market as it is approved by the Police 'Secured by Design' security initiative.

Our HomeGuard door range uses Winkhaus TruLock as its main locking mechanism. TruLock has been designed to meet the rigours of the next decade and has been equipped with several new enhancements to benefit the end user, making this a product of choice for front and rear doors. Unique 4.5mm chamfered steel hooks and a robust gearbox offers users low operating forces and increased installation tolerances compared to standard multi-point locks for installers.

## Features (Trulock)

### 1. 25mm throw tensile steel hooks.

High security nickel plated steel hooks fully penetrate the keep rail and help prevent forcing apart of the sash and frame.

### 2. Weather seal compression adjustment in the keeps.

Together with the enhanced tapered handed hook design the adjustment in the keeps provides for low operating forces. With  $\pm 2\text{mm}$  adjustment it is possible to adjust for misalignment of the door during and after installation.

### 3. Heavy Duty Steel Keeps

Depending on door frame material, 20mm – 24mm wide heavy duty steel keeps are manufactured using high grade steel, plated to comply with Grade 4 corrosion resistance requirement of BS EN1670 European Standard.

### 4. Latch and Deadbolt

Engineered alloy sprung latch (or steel latch for Fire Doors) with a nickel plated steel deadbolt provides the TruLock + with maximum strength in the centre of the door.

### 5. High Performance Gearbox

Tested to 100,000 cycles the sprung gearbox offers the lowest possible operating forces and helps prevent handle 'droop'.

### 6. Cylinders and Handles

TruLock Multi-point Locks have been designed to harmonise with the Winkhaus range of security euro profile cylinders, Armor shield cylinder guard and Winkhaus XR6-51 Kitemark profile cylinder (KM531333) to meet PAS23/24 Security and durability standards, both for single domestic dwellings and multi-occupancy dwellings where master key systems are required.

### 7. Lifetime Adaptability

TruLock is part of the 'Winkhaus family of locks' with exactly the same routing details as the Winkhaus Cobra™ and Automatic AV2 + range of locking mechanisms.

### Key Advantages

Centre gearbox strength increased by up to 30% to further reduce the risk of malicious abusive loads.

Low operating forces provided by unique 4.5mm chamfered steel hooks and a robust gearbox.

Increased installation tolerances compared with standard multi-point locks. +2mm keep adjustment to ensure optimum weather performance.

### Accreditations

Tested in doorsets to PAS24 enhanced security standards.

Approved by the Police "Secured by Design" security initiative.

Complies with the highest Grade 4 corrosion resistance requirements of BS EN1670 European Standard.





## Locking System (AV3)

Winkhaus 'AV3' is a modern locking system created to complement all door styles. With the cylinder in a heritage position, comparable to a traditional eye level cylinder pull.

The autolock AV3 automatically locks when the door is closed without the need for you to lock it with a key. This means an external lever handle is not required to operate the locking points, the lock can be opened by turning the key a quarter of a turn. From the inside the door can be opened by an internal thumbturn.

The new practical daytime latch can be activated for times when flexible entry from outside is required without the use of a key.

The latch is located in the centre of the door which provides superior operation and weather resistance.

## Features (AV3)

### 1. The Duo Hook

The new automatic multi-point locking retains its solid hook, which automatically throws when the door is closed. Combined with the expertly designed weatherseal hook, the door sash is held even more firmly in its position, thus providing protection against weather influences whilst retaining smooth operating forces.

### 2. AV3 Gearbox

Whilst key operable from the higher heritage position, the centrally positioned gearbox houses the latch & tracer pins providing superior compression, weather resistance and operation. The central gearbox allows the use of Winkhaus' FAB integrated lever slave lock double entrance doors. The innovative AV3 magnet located in the central position only activates the tracer pin once the door is fully closed eliminating scratching to the door frame.

### 3. Daytime Latch

The innovative day time latch allows you to open the door from the outside without a key. Winkhaus is the only manufacturer of automatic multi-point locking systems to offer this with the combination of Duo Hook & single-handed operation. Single hand actuation for flexible entry, useful when instant access is needed over a short period of time.

### 4. Latch and Deadbolt

Engineered alloy sprung latch (or steel latch for Fire Doors) with a nickel plated steel deadbolt provides the AV3 with maximum strength in the centre of the door.

### 5. High Performance Gearbox

Tested to 100,000 cycles the sprung gearbox offers the lowest possible operating forces and helps prevent handle 'droop'.

### 6. Cylinders and Handles

Trulock Multi-point Locks have been designed to harmonise with the Winkhaus range of security euro profile cylinders, Armor shield cylinder guard and Winkhaus XR6-51 Kitemark profile cylinder (KM531333) to meet PAS23/24 Security and durability standards, both for single domestic dwellings and multi-occupancy dwellings where master key systems are required.

### Key Advantages

Automatic locking once the door is closed

New duo hook for more security and dynamic contact pressure

Latch located in central gearbox provides superior operation & weather resistance

Magnetic trigger minimises traces of wear on the door frame

Innovative optional daytime latch for flexible entry without use of a key

### Accreditations

Protective surface coating in excess of EN 1670:2007 Grade 4

PAS24 & ADQ compliant

High performance gearbox tested to 100,000 cycles and offers lowest possible operating forces









# SCANDINAVIAN QUALITY

**The HomeGuard door set offers some of the highest quality Norwegian craftsmanship available in the windows and door market.** Celebrated for their commitment to creating truly authentic and superior performing products, the Scandinavians take pride in ensuring that every single item is manufactured to an impeccable standard. Their reputation for this is evident with the fine details of the HomeGuard door being carefully considered, from its functional design all the way to the selected hardware.

## AESTHETICS

Everyone aims for a truly beautiful front door; it is the very first impression that every visitor enjoys when they come face to face with your home. With the HomeGuard door set, you can experience the very best of traditional Norwegian craftsmanship coupled with the true elegance of a complete timber product. Our entrance door range is comprised of chen-chen timber panels that give a truly authentic finish to our door sets creating a warm welcome every single time you arrive home.





# **HOMEGUARD CONTEMPORARY DOOR DESIGN**



**HG-108**  
RAL 1013



**HG-102**  
RAL 7016





**HG-105**  
RAL 3011



**HG-104**  
RAL 7037

FIRE DOOR  
OPTION 



**HG-110**  
NCS S0500 N

# HOMEGUARD TRADITIONAL DOOR DESIGN



**HG-101**  
NCS S0500\_N

FIRE DOOR  
OPTION 



**HG-103**  
RAL 7040





**HG-106**  
RAL 6005

FIRE DOOR  
OPTION



**HG-107**  
RAL 5007



**HG-109**  
RAL 8019



**HG-111**  
RAL 7040

**Technical Specification**

|                                 |  |
|---------------------------------|--|
| <b>Glass - Half glazed door</b> | 6.76+16G+ES4                               |
| <b>Exterior material</b>        | Smooth compact laminate                    |
| <b>Interior material</b>        | Smooth compact laminate                    |
| <b>Escape route</b>             | Yes, size permitting                       |
| <b>Burglar resistance</b>       | Yes, secured by design accredited          |
| <b>Timber protection</b>        | Yes, vacuum impregnated                    |
| <b>Ironmongery</b>              | NorDan / Winkhaus / Hardex / Harco / Hoppe |

**Product Features**

|  |  |
|--|--|
| <b>Product standard</b>                      | EN 14351:2006 + A1: 2010   |
| <b>Energy class:</b>                         | EN10077-2, U-value 1.0 w/m²K   |
| <b>Doors without glass</b>                   |  |
| <b>Energy class:</b>                         | EN10077-2, U-value 1.2 w/m²K   |
| <b>Doors with glass</b>                      |  |
| <b>Watertightness</b>                        | Class 9A (600Pa)<br>(600Pa equal 70 mph)                                 |
| <b>Air permeability</b>                      | Class 4 (600Pa), EN 12207<br>(600Pa equal to 70 mph)                     |
| <b>Wind loading</b>                          | Class C5 (2000Pa)<br>(2000Pa equal 125 mph)                              |
| <b>Fire rating with &amp; without glass</b>  | EI30 (Only fire doors)<br>(Keep fire out for minimum 30 min)             |
| <b>PAS24:2016</b>                            | Yes<br>(Secured by Design)   |
| <b>Espagnolette Corrosion Classification</b> | Grade 4<br>(Grade 4 is equal to Very High resistance salt spray testing) |
| <b>Hinge Corrosion Classification</b>        | Grade 3<br>(Grade 3 is equal to High resistance salt spray testing)      |

**Limitation Values for 105mm frames depth**

|  |          |
|--|----------|
| <b>Min Width</b>                       | 888 mm   |
| <b>Min Width for wheelchair access</b> | 1 019 mm |
| <b>Max Width</b>                       | 1 088 mm |
| <b>Min Height</b>                      | 1 988 mm |
| <b>Max Height</b>                      | 2 388 mm |
| <b>Max Width + Height</b>              | 3 476 mm |
| <b>Max Sash Weight (glass + wood)</b>  | 110kg    |

For more information please visit  
**nordan.co.uk**

**Characteristics/Focus**

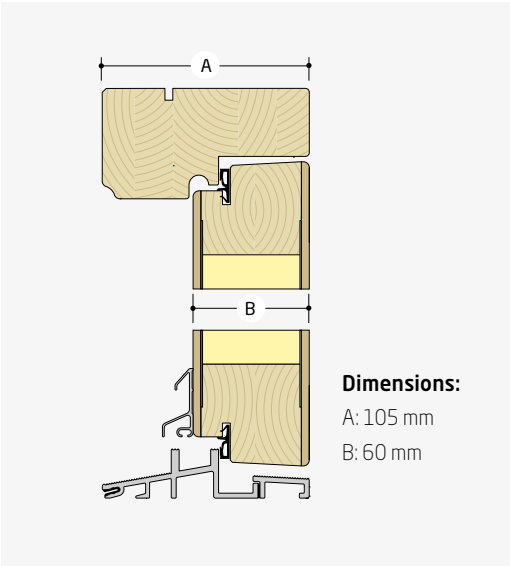
Manufactured in one of our purpose built factories, HomeGuard doors are true Scandinavian engineering. From vacuum treated timber, low level threshold and CFC free insulation - the door construction has been designed with quality at the core.

**Ironmongery/Operation**

- **Winkhaus Locking System**
  - Trulock+ or Winkhaus AV3 Automatic lock for standard doorsets.
  - Winkhaus AV3 Automatic lock is standard for EI30 fire rated doorsets.
- **Hoppe Atlanta** SBD certified PAS24:2016 security handle.
- **Winkhaus Euro Cylinder** available in Key/Key or Key /Thumb turn
- **TS007 '3 Star'** rated lock handle and cylinder combination
- **Letter Plate** - Nu Mail 3C009 electrophoretic finish.

As standard on all doorsets, the HomeGuard door uses a low level threshold, which is compliant with all UK regulations. The threshold has a maximum upstand of 14mm that is slightly less than the British Standard of 15 mm for the Building Regulations for England & Wales and the Technical Handbook for Scotland.

A threshold, in RAL 7040 made of a glass fibre composite, has been developed and passed accelerated ageing and strength testing at the BBA in England. The new composite threshold will reduce the possibility of icing and cold bridging.





## Locking Options



### Hoppe Atlanta

Trulock or AV3 Auto-lock

## Profile Options



Modern frame profile



Classic frame profile

## Options



Letter plate



Spy hole

## Glazing Options



Cotswold glass



Etched glass



Clear glass



### Pull-handle

AV3 Auto-lock



**COMPACT  
LAMINATE**

SMOOTH FLUSH FINISH



White (Standard)  
NCS S 0502-Y

Pure White  
NCS S 0500-N

# SURFACE TREATMENT

Choosing the perfect colour for your entrance door 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 - with NorDan it's all about choice.

## Popular colours

As an alternative to our standard white (S 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.

## Special colours



RAL-colours - NorDan can supply most RAL colours applied directly to the treated timber and polyester powder coated onto the aluminium surfaces.



NCS-colours - NorDan can supply most NCS colours in paint for timber products and powder coating for the aluminium.

The sidebar 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.

Jet Black  
RAL 9005

Window Grey  
RAL 7040

Red  
RAL 3011

Anthracite Grey  
RAL 7016

Silk Grey  
RAL 7044

Brilliant Blue  
RAL 5007

Basalt Grey  
RAL 7012

Grey Brown  
RAL 8019


Moss Green  
RAL 6005

Dusty Grey  
RAL 7037

Nut Brown  
RAL 8011

Oyster White  
RAL 1013

# LOW MAINTENANCE



**Life is busy and when you finally get to appreciate your well-deserved free time, you don't want to have to give your entrance doors more than a second thought.** That is what makes the HomeGuard door the perfect product for your home, as it has been designed to be extremely low maintenance. With only a yearly maintenance routine required, you don't have to spend hours on a laborious schedule to ensure that your door will look and function seamlessly for many years to come.



# ALL NORDAN HARDWARE IN STOCK

**NorDan is a large, multinational manufacturer, but we have kept true to our heritage of rapid response and our dedicated Solutions Department in Aberdeen is certainly no exception to this rule.**

Through listening to market demands from our customers, the department quickly recognised the requirement for a fast turnaround on hardware components for residential and commercial customers alike. This meant that the Solutions Team committed to supplying all hardware orders within a 48-hour turnaround to site within mainland UK, after the order being placed.

There has been a special focus placed on ensuring that the business is able to operate as efficiently and effectively as possible with bespoke racking, branding and dedicated work areas specific to the department's needs. NorDan Solutions also stock a large variety of components from established brands, such as Trioiving, Hoppe and Yale, as well as all NorDan hardware parts.



**ALL NORDAN  
HARDWARE HELD  
IN STOCK**



**DELIVERY TO ALL  
MAINLAND UNITED  
KINGDOM**



**SPARE PARTS  
DELIVERED TO SITE  
IN 48 HOURS**





## **NORDAN**

Innovation, performance, and quality never happen by chance. With a history going back over 90 years, there is no limit to the number of success stories that could be told about NorDan. But the most important story is the one that is unfolding on every construction site, every single day. Where high-quality Scandinavian windows and doors arrive safely and perform for years to come. That is the true and simple story of who we are, and what we provide.



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