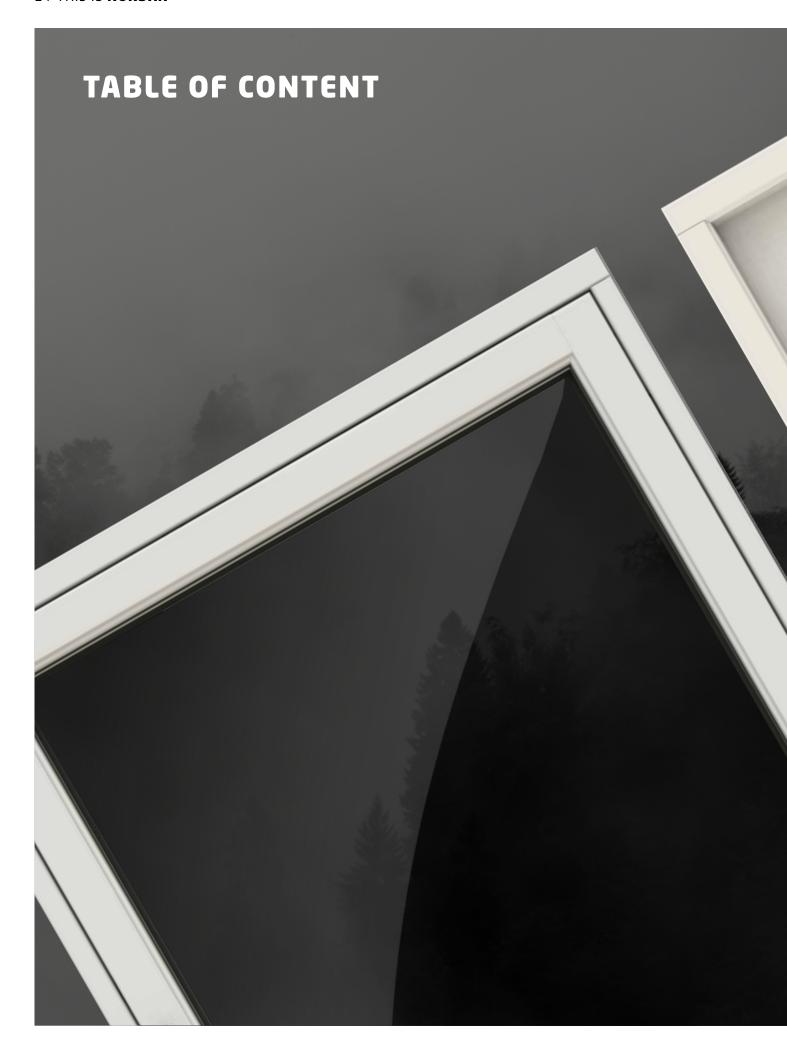


NORDAN HIGH PERFORMANCE

TIMBER WINDOWS AND DOORS





THIS IS NORDAN

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WHY CHOOSE NORDAN?

Perfekt Samspill

We believe in our solutions and we believe in the responsible way that we integrate these into our lives. Our core values run throughout every team within our business.

We are constantly looking for perfect interaction between people, production, technoogy and employees. For customers and suppliers, we are constantly trying to be the perfect supply chain partner. For the customer, we want the products to speak for themselves regarding perfect form and function - with lasting durability..

Vacuum Impregnated timber

There are many ways to protect timber windows, but the single most important factor for longevity is thorough and robust impregnation of the timber that is used to make the window. The process used by NorDan complies with the requirements of BS 8417 'Preservation of Wood Code of Practice', for a 60 year desired service life for external joinery components.

State-of-the-art Powder Coating

In February 2016, NorDan took ownership of a state-of-the-art powder coating line with FOX (Fast OXidising) pre-treatment, only the 5th plant of its type in the world and the only one in Europe. By supplying all aluminium profiles with this standard of quality for pre-treatment, NorDan has created a benchmark for the window manufacturing industry.

Expert Solution Providers

NorDan have a long history of assisting architects, contractors and clients in specifying high performance windows, for both large and small projects alike.

We have a model of continuous improvement and development. Working alongside respected experts in the fields of energy efficiency, lifetime running costs and environmental impact ensures that our products are always at the forefront of advances in the construction industry. We try to lead by example - we've done it for almost 100 years.





QUALITY FROM THE INSIDE

You can't see it, and you don't think about it, but perhaps the most important reason for choosing a window from NorDan is how we impregnate the timber.

There are many ways to protect timber windows, but the single most important factor for longevity is thorough and robust impregnation of the timber that is used in the manufacturing of the window.

Vacuum/pressure Impregnation

Timber is a natural performer. But at NorDan we act to refine this material even further. NorDan windows go through a thorough manufacturing process which includes a vacuum impregnation stage.

The vacuum impregnation process is lengthy and expensive but we have never taken shortcuts when it comes to quality. This is what allows us to quote a 60 year (plus) life expectancy and offer a warranty up to 30 years against rot and fungus.

The timber window components are placed in a chamber, which is then filled with an impregnating liquid. The chamber is then pressurised to force the preservative liquid deep into the timber. After this process, the chamber is drained of fluid and placed under a high vacuum to remove any excess fluid.

The process used by NorDan complies with the requirements of BS 8417 'Preservation of Wood Code of Practice', for a 60 year desired service life for external joinery components.

Surface penetration of 6mm in conjunction with a minimum of 150mm of end-grain penetration provides a deep barrier of preservative treatment. Couple this with naturally impregnated heartwood from sustainable cold climate forests, and the result is a timber product that is guaranteed to perform for years, in the harshest of weather conditions, without yielding to rot and fungus.

NorDan products are suitable for all locations of the UK. From high rise buildings to exposed coastal conditions - our Norwegian heritage means our products will perform for generations no matter what..











Life Expectancy for timber products





Warranty against rot & fungus



Powder coating refers to a method of coating a material, normally metals, with a paint in the form of powder that is melted and cured onto the surface.

Aluminium cladding is the main reason we promote low maintenance of our products. Not only does this protect the timber frame, but it also provides marine grade resistance against sea air and salt water.

cellular surface structure is an excellent adhesion base for the powder or liquid paint coating, which has to be finished within 8 hours. This pre-treatment provides protection against filiform corrosion.

NorDan are proud to hold GSB Sea Proof Plus certification which is made possible via our state-of-the-art factories. NorDan aluminium is pre-treated via SAT pre anodisation. Our factory in Powodowo is the only factory in Europe to offer this level of craftsmanship.

The end result is a powder coated finish, with GSB Sea Proof Plus certification, that will withstand even the toughest marine environments.

By supplying all aluminium profiles with this level of quality for pre-treatment, NorDan has created a benchmark for the window manufacturing industry. By use of electric current in an acidic aqueous solution, a very stable and non-separable oxide layer is produced onto Aluminium (principle of anodisation).

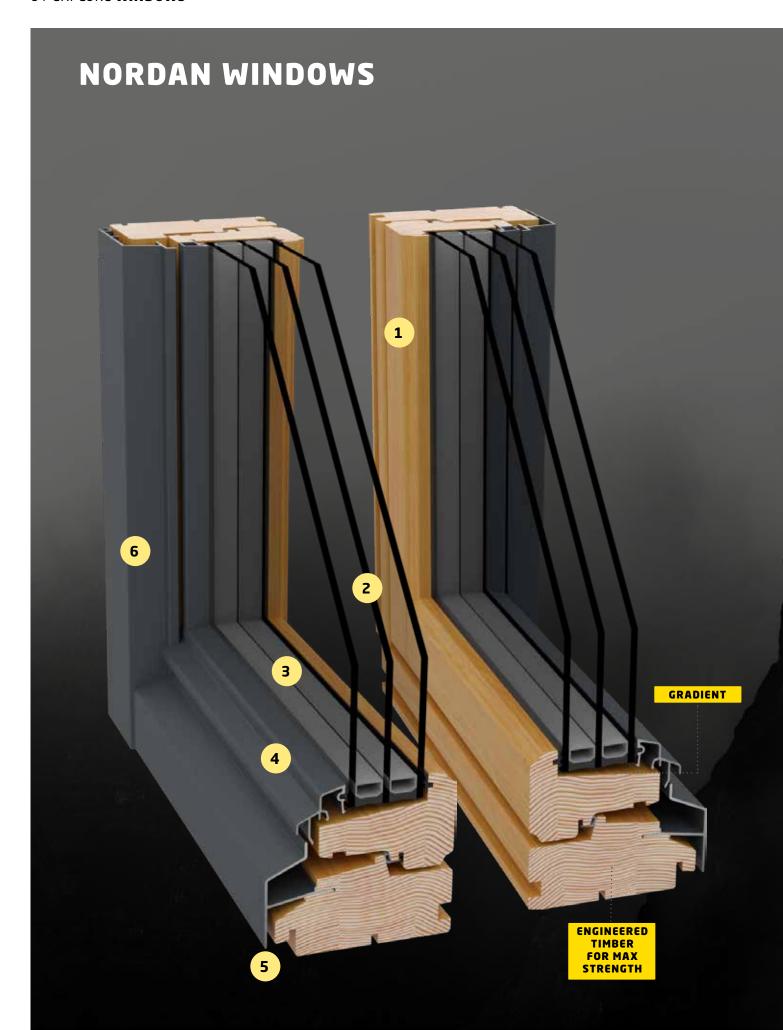


During pre-anodisation a 3 to 8 µm thick oxide layer is produced in an aqueous sulfuric acid solution under controlled conditions. In contrast to decorative anodisation this layer is not sealed. The resulting quite

Some of the key advantages of our new powder coating technique are:

- The best corrosion resistance on the market - as standard - coping easily with marine environments
- No hanging marks/shadows
- All profiles coated on all outer surfaces
- More even and consistent finish

Weathering class	Impact of corrosion	Ambient conditions	Recommended pre-treatment	Corrosion test	GSB coating classes	Recommended cleaning interval
GSB - Countryside (C2)	Low	Dry or cold areas, Countryside/small towns with low pollution	Chromium-free/Cromate-free/ Containing chromate*	Condensation - constant atmosphere	Approved	Annually
GSB - Industrial (C3)	Medium	Urban area with medium pollution or some effect of chlorides. Coastal areas with low deposition of chlorides	Chromium-free/Cromate-free/ Containing chromate*	AASS	Master	Annually
GSB - Sea Proof (C4)	High	Urban areas, industrial areas with high pollution or substantial effect of chlorides. Coastal areas with medium desposition of chlorides.	Chromium-free/Cromate-free with documented process/ Containing chromate*	Filiform corrosion test (≤0.3) and AASS	Master/Premium	Annually
GSB - Sea Proof Plus (CS)	Very high	Areas with very high pollution and significant effect of chlorides. Coastal areas/coast lines with high impact of chlorides.	Pre-anodising	Filiform corrosion test (≤0.10) and AASS	Master/Premium	2 x per year



Energy-saving, inward & outward opening windows, fixed lights, balcony and sliding doors with U-values as low as 0.7 W/m²K

- 1 Frame and sash construction uses vacuum impregnated pine, protected against rot and fungal attack. Engineered timber to improve strength and stability
- 2 Triple or double pane acoustic glazing unit with energy coated glass and filled with argon gas
- **3 Insulating warm edge** spacer bar for glazing
- **4 External glazing bead** fitted with concealed fixings
- **5 Groove for aluminium extension cill** to drive moisture away from the building
- 6 Profile design to promote removal of moisture through self draining and ventilating



TIMBER AT THE CORE

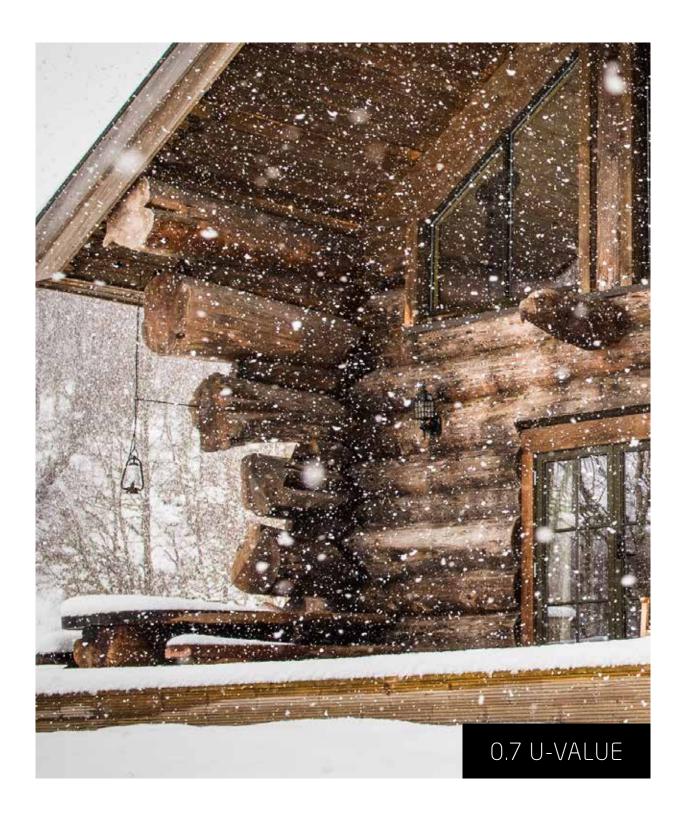
Timber is at the core of everything we do. This has been the way for almost 100 years. Timber is a natural carbon sink - it absorbs and stores more carbon than it emits during its growth time. From a full grown tree, NorDan can extract enough timber for building at least 40 windows. And for every tree felled, we plant 5 more.

Compared to other raw materials, there is no comparison. Carbon emissions from NorDan timber windows are less than half of uPVC and aluminium emissions. Even against other composite windows types, NorDan are different - with an ordinary window made from at least 90% timber.

When a NorDan window is installed in a home it will stay there for at least 60 years. You see, we like to commit ourselves long term. It's the only way if there's going to be a long term at all.

NORDAN PASSIVE

Nordic Swan Eco-labelled, energy saving, inward opening windows with U-values as low as 0.7 W/m²K and fixed lights with U-values as low as 0.6 W/m²K.



Greater freedom for the architect with NTech 0.7 Passive

~~~

NorDan has the capability of providing Scandinavia's broadest product range of low energy products with U-values as low as 0.7 W/ m2K. The NTech 0.7 Passive range offers a triple-glazed window solution with insulated sash and frame. The glazing comprises of Low E coated glass panes with argon gas filling the cavities, sealed with a warm edge spacer. Previously the window assembly had been one of the highest sources of heat loss in a building. This has now been rectified with a new generation of high performance windows and doors. The low U-value corresponds to the entire window, instead of just the glass centre pane value, which can also greatly lower the risk of internal condensation.

## **Greater energy saving**

There is a 42% reduction in heat loss if you choose NTech 0.7 Passive rather than our standard NTech 1.2 product with a U-value of 1.2W/m2K. Environmental and energy experts agree that making big energy savings will be essential in providing a sustainable future for our world. Energy prices are rising continuously, which should be taken into account when investing for the future. The NTech 0.7 Passive range today is a wise choice for both new and older buildings.

## **Design without restrictions**

The NorDan NTech 0.7 Passive range gives the architect more freedom to play with size, shape and daylight. Low U-values allow for the design of large windows and glazed areas without being impacted by energy loss. With the NTech 0.7 window, you will not feel the effect of cold draughts and can put the furniture right up to the window area and enjoy the view.

# **Swan marked products**

NorDan is the first manufacturer of windows and balcony doors to have fulfilled the criteria for the Swan mark and been certified according to the Nordic Ecolabel's stringent requirements. This means that the products you buy from NorDan are manufactured with minimal energy consumption and greenhouse gas emissions. Each link in the window's life cycle has been assured as being environmentally friendly.



**More comfortable living:** Less heat and a more stable indoor temperature allowing comfortable living.

**Energy Security:** Low energy consumption and greater financial predictability in times of high energy prices.

**Quality:** Meets high standards for building quality, including better air sealing and insulation.

**Interior Flexibility:** Less need for heating systems such as radiators.

**Increase in value:** The window is produced with your future in mind-contributing to a safer investment in your home and your future. Suitable for new build projects as well as refurbishment.

**Swanmark:** World class windows.

- > Frame and sash of vacuum impregnated engineered timber
- > Insulated frame and sash
- Warm edge spacer bar between glass panes
- > Triple glazing with two Low E coated panes and argon gas filled cavities
- Aluminium glazing bar with no visible fasteners
- Machined rebate for extruded aluminium drip cill



# **PRODUCT OVERVIEW**

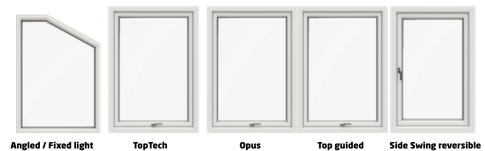
#### **INWARD OPENING**



#### **INWARD / OUTWARD OPENING**



#### FIXED FRAME OUTWARD OPENING



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window

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# NORWEGIAN STORMGUARD INWARD OPENING



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Advanced and easy to use, the Norwegian StormGuard tilts for everyday ventilation and turns to allow access to the outside glass for easy cleaning safely from inside.

Maximum specification

Performance

>197.5 mph windloading

Security

> PAS24:2016 (Secured by Design)

Fire resistance

> EI30

Life expectancy

>60 years

Sound Reduction

> Up to 40 dB Rw + Ctr

Thermal Efficiency

> U-values as low as: 0.7 Wm2/K

Glass (double) 6-16G-ES4
Glass (triple) 4ES+16G+4+16G+ES4
Exterior material Timber / Aluminium clad timber
Interior material Timber
Child safety Yes

Child safety Yes
Escape route Yes
Ventilation Yes

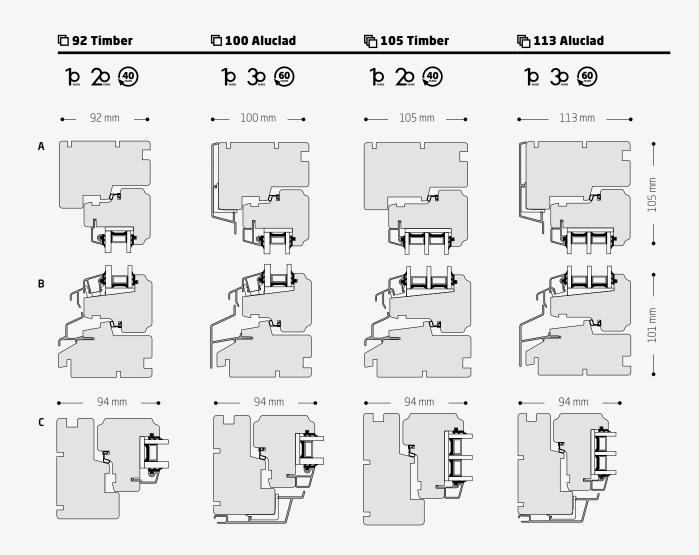
Burglar resistanceYes, Secured by design accreditedTimber protectionYes, vacuum impregnated

Ironmongery NorDan

Product features

Energy savingU-value: 0,7-1,2 Wm²/KCleaningCleaning from insideEntry sound reductionRw+Ctr 37 to 33Fire resistanceEl 30 (option)WatertightnessClass 9A, EN 12208Passive availabilityYes

🔁 Timber Measure Timber □ Aluclad **哈 Aluclad** Frame width 92 mm 100 mm 105 mm 113mm Min Width 372 mm 372 mm 488 mm 488 mm Max Width 2 188 mm 2188 mm 2 188 mm 2 188 mm Min Height 388 mm 388 mm 488 mm 488 mm Max Height 2 588 mm 2 588 mm 2 588 mm 2 588 mm Width + Height Max: 3 500 mm Max: 3 500 mm Max: 3 500 mm Max: 3 500 mm Sash weight Max: 100 kg Max: 100 kg Max: 130 kg Max: 130 kg



TWO HANDLE SIDE HINGED

INWARD OPENING



~~~

Easy to use, the two handle window offers the same performance as the Norwegian StormGuard, but is supplied with a turn only functionality.

#### **Maximum specification**

#### Security

> PAS24:2016 (Secured by Design)

#### Fire resistance

> EI30

#### Life expectancy

>60 years

#### **Sound Reduction**

> Up to 40 dB Rw + Ctr

#### **Thermal Efficiency**

> U-values as low as: 0.7 Wm2/K

Glass (double) 6-16G-ES4
Glass (triple) 4ES+16G+4+16G+ES4
Exterior material Timber / Aluminium clad timber
Interior material Timber
Child safety Yes

Child safetyYesEscape routeYesVentilationYes

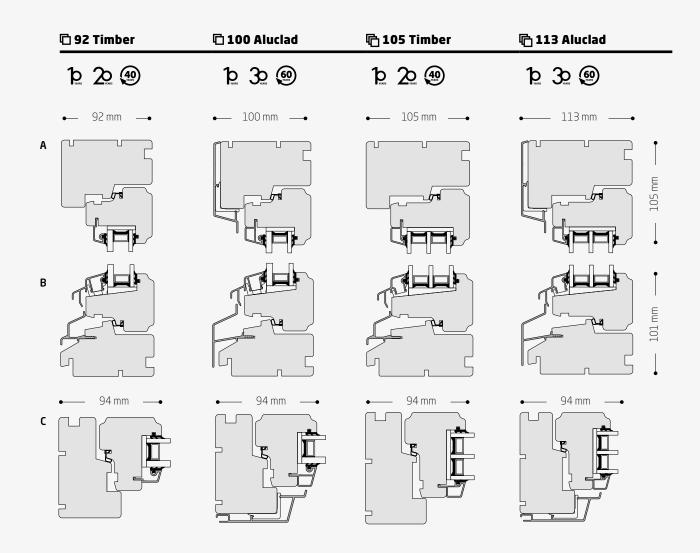
Burglar resistanceYes, Secured by design accreditedTimber protectionYes, vacuum impregnated

**Ironmongery** NorDan

#### **Product features**

Energy savingU-value: 0,7-1,2 Wm²/KCleaningCleaning from insideEntry sound reductionRw+Ctr 37 to 33Fire resistanceEl 30 (option)WatertightnessClass 9A, EN 12208Passive availabilityYes

🔁 Timber Measure Timber □ Aluclad **哈 Aluclad** Frame width 92 mm 100 mm 105 mm 113mm Min Width 288 mm 288 mm 488 mm 488 mm Max Width 1 288 mm 1 288 mm 1 288 mm 1 288 mm Min Height 288 mm 288 mm 288 mm 288 mm 2 488 mm Max Height 2 488 mm 2 588 mm 2 488 mm Width + Height Max: 3 500 mm Max: 3 500 mm Max: 3 500 mm Max: 3 500 mm Sash weight Max: 85 kg Max: 85 kg Max: 85 kg Max: 85 kg



# **ONE TILT & TURN**

#### **INWARD OPENING**



\_ \_ \_

Single handle with multiple locking points. The One Tilt & Turn window can be tilted inwards for simple ventilation but also turns inwards into a safe cleaning position so the external glass can be safely cleaned from the inside.

#### **Maximum specification**

#### **Performance**

>127.7 mph windloading

#### Security

> PAS24:2016

(Secured by Design)

#### Life expectancy

>60 years

#### **Sound Reduction**

>Up to 38 dB Rw + Ctr

#### **Thermal Efficiency**

> U-values as low as: 0.7 Wm2/K

**Glass (double)** 6-16G-ES4

Glass (triple) 4ES+16G+4+16G+ES4
Exterior material Timber / Aluminium clad timber

Interior materialTimberChild safetyYes, optionalEscape routeYes, size permitted

Ventilation Yes

Burglar resistancePAS24:2016 (Secure By Design)Timber protectionYes, vacuum impregnated

**Ironmongery** Roto

#### **Product features**

Energy saving0,7-1,2 W/m2KCleaningCleaning from insideEntry sound reductionRw+Ctr 28 to 38

Fire resistance -

**Watertightness** Class 9A, EN 12208

Passive availability Yes

| Measure        | Timber        | 合 Aluclad     |  |
|----------------|---------------|---------------|--|
| Frame width    | 105 mm        | 113mm         |  |
| Min Width      | 488 mm        | 488 mm        |  |
| Max Width      | 1 483 mm      | 1 483 mm      |  |
| Min Height     | 488 mm        | 488 mm        |  |
| Max Height     | 2 588 mm      | 2 588 mm      |  |
| Width + Height | Max: 3 888 mm | Max: 3 888 mm |  |
| Sash weight    | Max: 120 kg   | Max: 120 kg   |  |

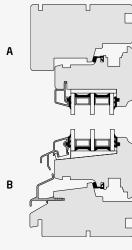
#### **105 Timber**

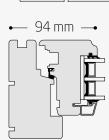
#### **哈 113 Aluclad**

# þ 20 40

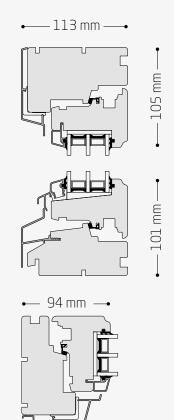
•—105 mm →







c



# **ONE TURN**

#### **INWARD OPENING**



- - - -

Single handle with multiple locking points. The One Turn window is based on the same gearing system as the One Tilt & Turn window, but is a turn only window which is Part M compliant.

#### **Maximum specification**

#### Performance

>127.7 mph windloading

#### Security

> PAS24:2016 (Secured by Design)

#### Life expectancy

>60 years

#### **Sound Reduction**

> Up to 38 dB Rw + Ctr

#### **Thermal Efficiency**

> U-values as low as: 0.7 Wm2/K

Glass (double) 6-16G-ES4

Glass (triple) 4ES+16G+4+16G+ES4 Exterior material Timber / Aluminium clad timber

Interior material Timber Yes, optional Child safety Escape route Yes, size permitted

Ventilation

Burglar resistance PAS24:2016 (Secure By Design) Timber protection Yes, vacuum impregnated

Ironmongery Roto

#### **Product features**

0,7-1,2 W/m2K **Energy saving** Cleaning Cleaning from inside **Entry sound reduction** Rw+Ctr 28 to 38 Fire resistance

Watertightness Class 9A, EN 12208

Passive availability Yes

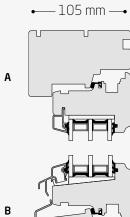
| Measure        | 🖒 Timber      | নি Aluclad    |  |
|----------------|---------------|---------------|--|
| Frame width    | 105 mm        | 113mm         |  |
| Min Width      | 488 mm        | 488 mm        |  |
| Max Width      | 1 483 mm      | 1 483 mm      |  |
| Min Height     | 381 mm        | 381 mm        |  |
| Max Height     | 2 588 mm      | 2 588 mm      |  |
| Width + Height | Max: 3 888 mm | Max: 3 888 mm |  |
| Sash weight    | Max: 120 kg   | Max: 120 kg   |  |

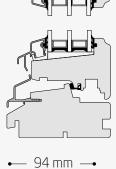
#### 🔁 105 Timber

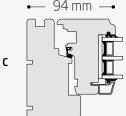
#### **哈 113 Aluclad**

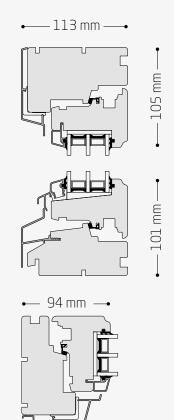
# þ 20 40











# **FIT & FORGET**



# **NO ASSEMBLY REQUIRED**

your window the way you want it

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 create a finished product. But when you order from NorDan, we put in the extra effort to assemble the complete product in 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 of waiting to get replacement parts delivered.

1 Glazing bars / 2 Transoms and mullions 3 Glazing options / 4 Colours / 5 Handles





# **MULTISASH**

#### IN / OUTWARD OPENING



~~~

These lightweight, elegant frames offer a slender design, and a large area of light. If you require an escape window, the outward opening window can be delivered with a removable centre post for simple operation.

Maximum specification

Performance

> See individual product type

Security

> See individual product type

Fire resistance

> See individual product type

Life expectancy

>60 years

Sound Reduction

> See individual product type

Thermal Efficiency

> See individual product type

Glass (double) 6-16G-ES4 Glass (triple) 4ES-16G-4-16G-ES4 Exterior material Timber / Aluminium clad timber Interior material Child safety See individual product type Escape route See individual product type Ventilation See individual product type Burglar resistance Depending on products used Timber protection Yes, vacuum impregnated Ironmongery See individual product type

Product features

Energy savingU-value: 1.2 to 0.7 W/m2KCleaningSee individual product typeEntry sound reductionSee individual product typeFire resistanceSee individual product typeWatertightnessClass 9A, EN 12208Passive availabilityYes

Outward opening



Inward opening



COMBINATION

IN / OUTWARD OPENING



_ _ _

Comprises of a fixed light and an opening window all in one frame. These can be produced in large sizes and provides particularly good architectural possibilities for optimal function.

Maximum specification

Performance

> See individual product type

Security

> See individual product type

Fire resistance

> See individual product type

Life expectancy

>60 years

Sound Reduction

> See individual product type

Thermal Efficiency

> See individual product type

Ironmongery

Glass (double) 6-16G-ES4 Glass (triple) 4ES-16G-4-16G-ES4 Exterior material Timber / Aluminium clad timber Interior material See individual product type Child safety Escape route See individual product type Ventilation See individual product type Burglar resistance Depending on products used Timber protection Yes, vacuum impregnated

See individual product type

Product features

U-value: 0.7 to 1.2 W/m2K **Energy saving** See individual product type Cleaning Rw 37dB

Entry sound reduction

Fire resistance See individual product type Watertightness Class 9A, EN 12208

Passive availability Yes

Outward opening

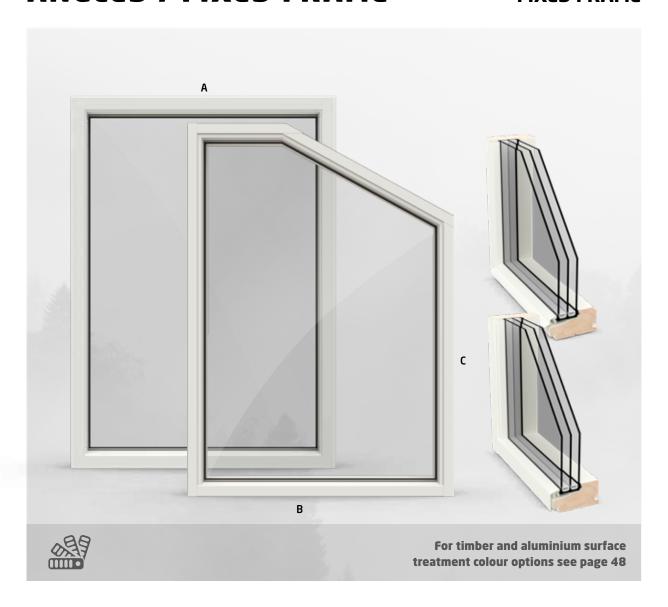


Inward opening



ANGLED / FIXED FRAME

FIXED FRAME



_ _ _

Allows extensive use of large glass areas and particular architectural styles. In all shapes and sizes within the limits set forth by requirements for safety and weight.

Maximum specification

Performance

>127.7 mph windloading

Security

> PAS24:2016 (Secured by Design)

Fire resistance

> EI60 & EI30

Life expectancy

>60 years

Sound Reduction

> Up to Rw + Ctr 44 dB

Thermal Efficiency

> U-values as low as: 0.7 Wm2/K

Glass (double) 6-16G-ES4

Glass (triple) 4ES-16G-4-16G-ES4
Exterior material Timber / Aluminium clad timber

Interior material Timber

Child safety Yes, as standard

Escape route No **Ventilation** No

Burglar resistanceYes, Secured by Design accreditedTimber protectionYes, vacuum impregnated

Ironmongery -

Product features

Energy saving U-value: 0.7 to 1.2 W/m2K

Cleaning

Entry sound reductionRw 37dB Rw+Ctr 33dBFire resistanceEl30/El60 (optional)WatertightnessClass 9A, EN 12208

Passive availability Yes

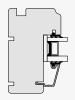
Measure	☐ Timber	🗅 Aluclad	Timber	🔁 Aluclad
Frame width	92 mm	100 mm	105 mm	113mm
Min Width	188 mm	188 mm	188 mm	188 mm
Max Width	4 488 mm	4 488 mm	4 488 mm	4 488 mm
Min Height	188 mm	188 mm	188 mm	188 mm
Max Height	4 488 mm	4 488 mm	4 488 mm	4 488 mm
Width + Height	Max: 6 000 mm			
Weight	Max: 240 kg	Max: 240 kg	Max: 260 kg	Max: 260 kg

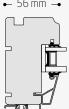
	Weight	Max: 240 kg	Max: 240 kg Max: 260 kg	Max: 260 kg	
	🗅 92 Timber	🗅 100 Aluciad	但 105 Timber	哈 113 Aluclad	
	1. 2. 40	10 30 GO	12 20 40	þ. 3 <u>.</u> 🗐	
	•— 92 mm —•	•— 100 mm —•	•—— 105 mm ——•	•—— 113 mm ——•	
١				• S6 mm	
3				• 56 mm •	
	← 56 mm →	← 56 mm →	← 56 mm →	← 56 mm →	

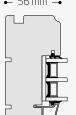
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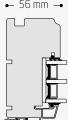
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В









TOPTECH

TOP-SWING, OUTWARD OPENING



_ _ _

With a hinge designed exclusively by NorDan, the TopTech fully reversible window features well balanced ironmongery that ensures the frame can easily be turned 180 degrees for safe cleaning from the inside. The window has a child safety restrictor integrated in the hinge as standard.

Maximum specification

Performance

> 127.7 mph windloading

Security

> PAS24:2016 (Secured by Design)

Fire resistance

>EI30

Life expectancy

>60 years

Sound Reduction

> Up to 40 dB Rw + Ctr

Thermal Efficiency

> U-values as low as: 0.8 Wm2/K

Glass (double) 6-16G-ES4
Glass (triple) 4ES-16G-4-16G-ES4
Exterior material Timber / Aluminium clad timber
Interior material Timber
Child safety Yes

Child safety Yes
Escape route Yes
Ventilation Yes

 Burglar resistance
 Yes, Secured by Design

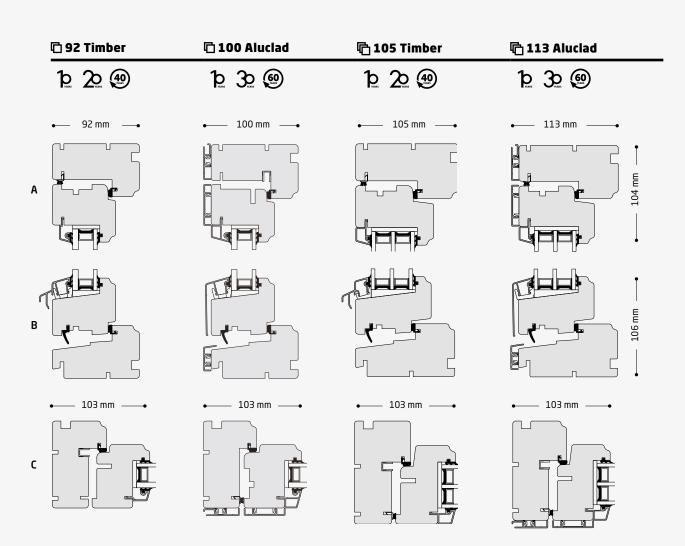
 Timber protection
 Yes, vacuum impregnated

 Ironmongery
 NorDan TopTech

Product features

Energy savingU-value 0.8 to 1.2 Wm2/KCleaningCleaning from insideEntry sound reductionRw 36dB Rw+Ctr 32dBFire resistanceEl 30 (option)WatertightnessClass 9A, EN 12208Passive availabilityYes

Measure	□ Timber	🗅 Aluclad	Timber	🖒 Aluclad
Frame width	92 mm	100 mm	105 mm	113mm
Min Width	348 mm	348 mm	348 mm	348 mm
Max Width	2 388 mm	2 388 mm	2 388 mm	2 388 mm
Min Height	388 mm	388 mm	450 mm	450 mm
Max Height	1 788 mm	1 788 mm	1 788 mm	1 788 mm
Width + Height	Max: 3400 mm	Max: 3400 mm	Max: 3400 mm	Max: 3400 mm
Sash weight	Max: 80 kg	Max: 80 kg	Max: 80 kg	Max: 80 kg



OPUS

TOP-SWING, OUTWARD OPENING



_ _ _

Well balanced ironmongery that ensures the frame can easily be turned 180 degrees for safe cleaning from the inside. The window has a child safety restrictor integrated in the hinge as standard.

Maximum specification

Performance

> 127.7 mph windloading

Security

> PAS24:2016 (Secured by Design)

Life expectancy

>60 years

Sound Reduction

> Up to 40 dB Rw + Ctr

Thermal Efficiency

> U-values as low as: 0.9 Wm2/K

Glass (double) 6-16G-ES4
Glass (triple) 4ES-16G-4-16G-ES4
Exterior material Timber / Aluminium clad timber
Interior material Timber
Child safety Yes

Escape route Yes **Ventilation** Yes

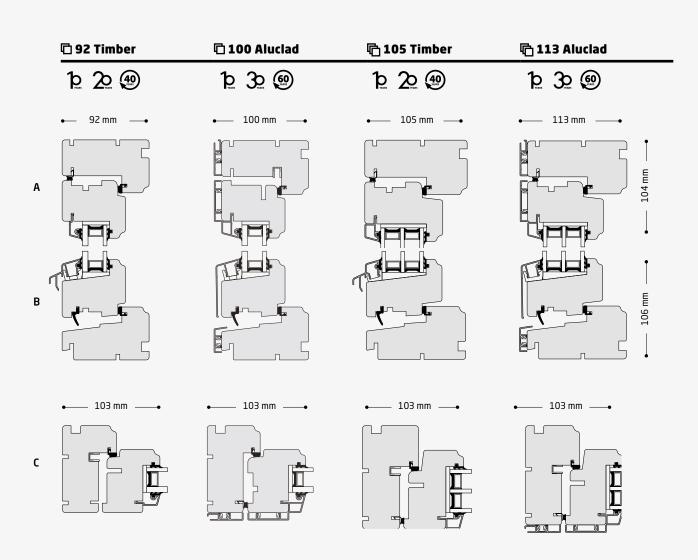
Burglar resistanceYes, Secured by Design accreditedTimber protectionYes, vacuum impregnated

Ironmongery Spilka Opus

Product features

Energy savingU-value: 0.9 to 1.2 W/m2KCleaningCleaning from insideEntry sound reductionRw 36dB Rw+Ctr 32dBFire resistance-WatertightnessClass 9A, EN 12208Passive availabilityNo

Measure	☐ Timber	🗅 Aluclad	Timber	🔁 Aluciad
Frame width	92 mm	100 mm	105 mm	113mm
Min Width	488 mm	488 mm	488 mm	488 mm
Max Width	2 300 mm	2 300 mm	2 300 mm	2 300 mm
Min Height	550 mm	550 mm	550 mm	550 mm
Max Height	1 588 mm	1 588 mm	1 588 mm	1 588 mm
Width + Height	Max: 3 300 mm			
Sash weight	Max: 55 kg	Max: 55 kg	Max: 55 kg	Max: 55 kg



TOP GUIDED WINDOW

OUTWARD OPENING



~~~

A user friendly restricted outward opening window, which opens to a maximum of 45° to provide ventilation, when opening, the sash slides down the frame in the top also providing ventilation in the top of the window.

#### **Maximum specification**

#### Performance

>127.7 mph windloading

#### Security

> PAS24:2016 (Secured by Design)

#### Life expectancy

>60 years

#### **Sound Reduction**

> Up to 40 dB Rw + Ctr

#### **Thermal Efficiency**

> U-values as low as: 0.8 Wm2/K

Glass (double) 6-16G-ES4
Glass (triple) 4ES-16G-4-16G-ES4
Exterior material Timber / Aluminium clad timber

**Interior material** Timber

**Child safety** Yes, as standard **Escape route** Yes, size permitting

**Ventilation** Yes

 Burglar resistance
 PAS24:2016 (Secure By Design)

 Timber protection
 Yes, vacuum impregnated

 Ironmongery
 NorDan side swing

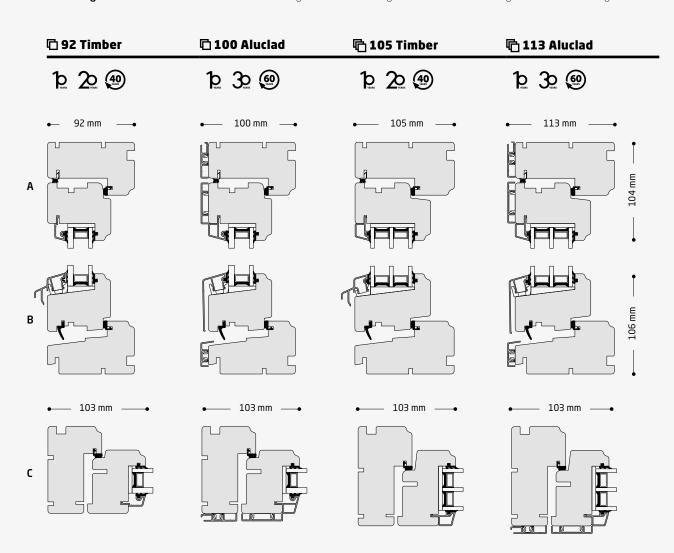
#### **Product features**

Passive availability

Energy savingU-value: 0.8 to 1.2 W/m2KCleaningCleaning from insideEntry sound reductionRw 37dB Rw+Ctr 33dBFire resistance-WatertightnessClass 9A, EN 12208

No

| Measure        | ☐ Timber      | 🗅 Aluclad     | ि Timber      | 🔁 Aluclad     |
|----------------|---------------|---------------|---------------|---------------|
| Frame width    | 92 mm         | 100 mm        | 105 mm        | 113mm         |
| Min Width      | 388 mm        | 388 mm        | 450 mm        | 450 mm        |
| Max Width      | 2 088 mm      | 2 088 mm      | 2 088 mm      | 2 088 mm      |
| Min Height     | 450 mm        | 450 mm        | 450 mm        | 450 mm        |
| Max Height     | 1 588 mm      | 1 588 mm      | 1 588 mm      | 1 588 mm      |
| Width + Height | Max: 3 400 mm |
| Sash weight    | Max: 100 kg   | Max: 100 kg   | Max: 100 kg   | Max: 100 kg   |



# SIDE SWING REVERSIBLE

#### **OUTWARD OPENING**



\_ \_ \_

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 cleaning position.

#### **Maximum specification**

#### Performance

>127.7 mph windloading

#### Security

> PAS24:2016 (Secured by Design)

#### Life expectancy

>60 years

#### **Sound Reduction**

> Up to 36 dB Rw + Ctr

#### **Thermal Efficiency**

> U-values as low as: 0,9 Wm2/K

Glass (double) 6-16G-ES4
Glass (triple) 4ES-16G-4-16G-ES4
Exterior material Timber / Aluminium clad timber

Interior material Timber

Child safetyYes, as standardEscape routeYes, size permitting

Ventilation Yes

 Burglar resistance
 PAS24:2016 (Secure By Design)

 Timber protection
 Yes, vacuum impregnated

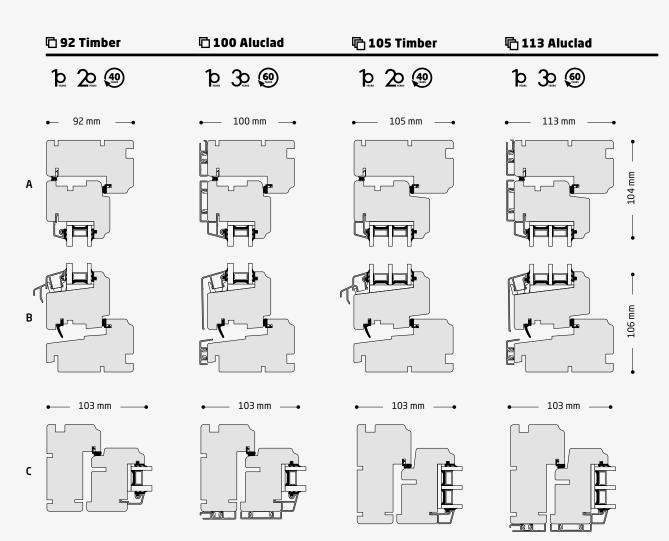
 Ironmongery
 NorDan side swing

## **Product features**

Energy savingU-value: 0.8 to 1.2 W/m2KCleaningCleaning from insideEntry sound reductionRw 37dB Rw+Ctr 33dBFire resistance-WatertightnessClass 9A, EN 12208

Passive availability No

| Measure        | □ Timber      | ☐ Aluclad     | Timber        | 🖺 Aluclad     |
|----------------|---------------|---------------|---------------|---------------|
| Frame width    | 92 mm         | 100 mm        | 105 mm        | 113mm         |
| Min Width      | 388 mm        | 388 mm        | 450 mm        | 450 mm        |
| Max Width      | 988 mm        | 988 mm        | 988 mm        | 988 mm        |
| Min Height     | 350 mm        | 350 mm        | 350 mm        | 350 mm        |
| Max Height     | 2 188 mm      | 2 188 mm      | 2 188 mm      | 2 188 mm      |
| Width + Height | Max: 2 700 mm |
| Sash weight    | Max: 50 kg    | Max: 50 kg    | Max: 50 kg    | Max: 50 kg    |



# SIDE HINGED TOP HINGED

# **OUTWARD OPENING**



~~~

Traditional approach to top and side hinged windows. However, the quality and integrity of the product is of the same high standard, which you would expect from any NorDan product.

Maximum specification

Performance

>98.92 mph

Security

> PAS24:2016 (Secured by Design)

Life expectancy

>60 years

Sound Reduction

> Up to 36 dB Rw + Ctr

Thermal Efficiency

> U-values as low as: 0.9 Wm2/K

Glass (double) 6-16G-ES4 4ES-16G-4-16G-ES4 Glass (triple)

Exterior material Timber / Aluminium clad timber

Interior material Timber Child safety No

Escape route Yes, size permitting

Ventilation Burglar resistance NA

Timber protection Yes, vacuum impregnated

Product features

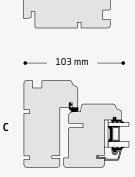
U-value: 0.9 to 1.2 W/m2K **Energy saving** Entry sound reduction Rw 37dB Rw+Ctr 33

Fire resistance

Watertightness Class 9A, EN 12208

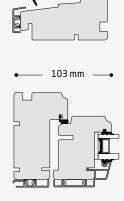
Passive availability No

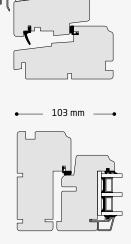
Ironmongery	NorDan			
Measure	Timber	☐ Aluclad	Timber	🔁 Aluclad
	TW / TA	TW / TA	TW / TA	TW / TA
Frame width	92 mm	100 mm	105 mm	113mm
Min Width	358/388 mm	358/388 mm	358/450 mm	358/450 mm
Max Width	2188/1200 mm	2188/1200 mm	2188/1200 mm	2188/1200 mm
Min Height	388 / 488 mm	388 / 488 mm	450/388 mm	450 / 488 mm
Max Height	1388/2188 mm	1 388 / 2 188 mm	1388/2188 mm	1388/2188 mm
Width + Height	Min: 2 700 / 2 800mm			
Sash weight	Max: 55 kg	Max: 55 kg	Max: 55 kg	Max: 55 kg
🗅 92 Timber	🗖 100 Aluciad	@ 105 Tim	ber 🖺 1	13 Aluclad
12 20 49	12 32 <u>@</u>	12 22 (1 <u>2</u>	32 @
•— 92 mm —•	•— 100 mm —•	•—— 105 mi	m• -	113 mm ——•
				104 mm
				104

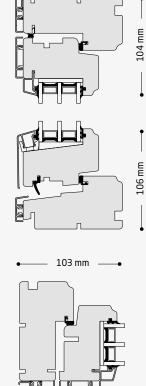


Α

В







BALCONY DOOR

INWARD/OUTWARD OPENING



For timber and aluminium surface treatment colour options see page 48

_ _ _

The single balcony door is not just elegant but robust enough to provide burglar resistance with the Secured By Design accreditation.

Maximum specification

Performance

>114.3 mph windloading (outward opening)

Security

> PAS24:2016 (Secured by Design)

Fire resistance

> EI30 (outward opening)

Life expectancy

>60 years

Sound Reduction

>Up to 37dB Rw + Ctr

Thermal Efficiency

> U-values as low as: 0,8 Wm2/K

Glass (double) 6-16G-ES4 Glass (triple) 4ES-16G-4-16G-ES4 **Exterior material** Timber / Aluminium clad timber Interior material Timber

Child safety Yes, as standard

Escape route Yes Ventilation

Burglar resistance Yes, Secured by Design accredited **Timber protection** Yes, vacuum impregnated

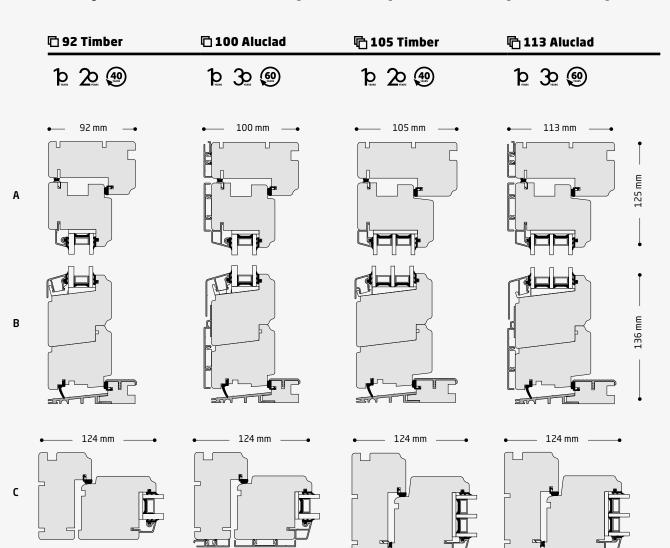
Ironmongery NorDan

Product features

U-value: 0.7 to 1.2 W/m2K **Energy saving** Cleaning Entry sound reduction 36dB Rw 32dB Rw+Ctr Fire resistance El30 (only outward opening) Watertightness Class 9A, EN 12208

Passive availability Yes

Measure	☐ Timber	🗅 Aluclad	Timber	🖺 Aluclad
Frame width	92 mm	100 mm	105 mm	113mm
Min Width	588 mm	688 mm	588 mm	688mm
Max Width	1 188 mm	1 188 mm	1 188 mm	1 188 mm
Min Height	1 338 mm	1 338 mm	1 338 mm	1 338 mm
Max Height	2 537 mm	2 537 mm	2 537 mm	2 537 mm
Width + Height	Max: 3 500 mm			
Sash weight	Max: 120Kg	Max: 120 kg	Max: 120Kg	Max: 120Kg



DOUBLE BALCONY DOOR

INWARD/OUTWARD OPENING



~~~

The double balcony door is not just elegant but robust enough to provide burglar resistance with Secured By Design approval.

## **Maximum specification**

#### **Performance**

>139.9 mph windloading (outward opening)

## Security

> PAS24:2016 (outward opening)

# Life expectancy

>60 years

# Thermal Efficiency

> U-values as low as: 0.9 Wm2/K

Glass (double) 6-16G-ES4
Glass (triple) 4ES-16G-4-16G-ES4
Exterior material Timber / Aluminium clad timber
Interior material Timber

Child safety Yes, as standard

Escape route Yes Ventilation Yes

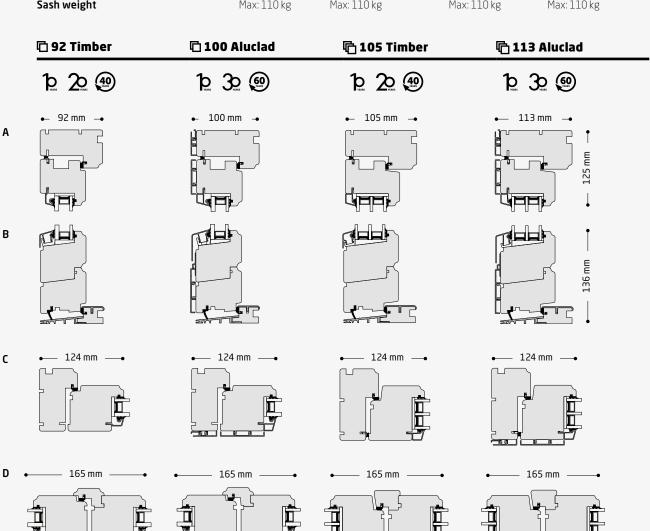
Burglar resistancePAS24:2016 (Secure By Design)Timber protectionYes, vacuum impregnated

**Ironmongery** NorDan

## **Product features**

Energy savingU-value: 0.7 to 1.2 W/m2KCleaning-Entry sound reduction37dB Rw 33dB Rw+CtrFire resistance-WatertightnessClass 9A, EN 12208Passive availabilityNo, lowest U-value 0.9 W/m2K

| Measure        | ☐ Timber      | 🗅 Aluclad     | <b>位 Timber</b> | ि Aluclad     |
|----------------|---------------|---------------|-----------------|---------------|
| Frame width    | 92 mm         | 100 mm        | 105 mm          | 113mm         |
| Min Width      | 998 mm        | 998 mm        | 988 mm          | 988 mm        |
| Max Width      | 2 088 mm      | 2 088 mm      | 2 088 mm        | 2 088 mm      |
| Min Height     | 1 338 mm      | 1 338 mm      | 1 338 mm        | 1 338 mm      |
| Max Height     | 2 537 mm      | 2 537 mm      | 2 537 mm        | 2 537 mm      |
| Width + Height | Max: 4 600 mm | Max: 4 600 mm | Max: 4 600 mm   | Max: 4 600 mm |
| Sash weight    | Max: 110 kg   | Max: 110 kg   | Max: 110 kg     | Max: 110 kg   |



# SLIDING SINGLE DOOR

# **SLIDE TO SIDE**



~~~

Glides smoothly 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.

Maximum specification

Performance

> 114.3 mph windloading

Security

> PAS24:2016 (Secured by Design)

Life expectancy

>60 years

Sound Reduction

> Up to 37 dB Rw + Ctr

Thermal Efficiency

> U-values as low as: 0.9 Wm2/K

Glass (double) 6-16G-ES4
Glass (triple) 4ES-16G-4-16G-ES4
Exterior material Timber / Aluminium clad timber
Timber

Child safety NA
Escape route Yes
Ventilation Yes

Burglar resistanceYes, Secured by Design accreditedTimber protectionYes, vacuum impregnated

Ironmongery Assa / NorDan

Product features

Energy saving U-value: 0,8 to 1.3 W/m2K

Cleaning -

Entry sound reduction Rw 35dB Rw+Ctr 33dB

Fire resistance -

Watertightness Class 9A, EN 12208

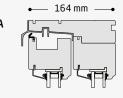
Passive availability NA

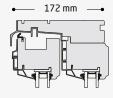
Measure	🗖 Timber	🗅 Aluclad
Frame width	164 mm	172 mm
Min Width	1 388 mm	1 388 mm
Max Width	3 988 mm	3 988 mm
Min Height	1 650 mm	1 650 mm
Max Height	2 588 mm	2 588 mm
Width + Height	Max: 6 676 mm	Max: 6 676 mm
Sash weight	Max: 150 kg	Max: 150 kg

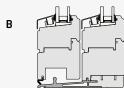
☐ 164 Timber ☐ 172 Aluclad

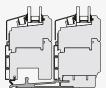


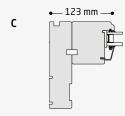


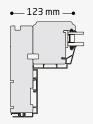


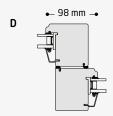


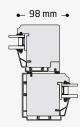






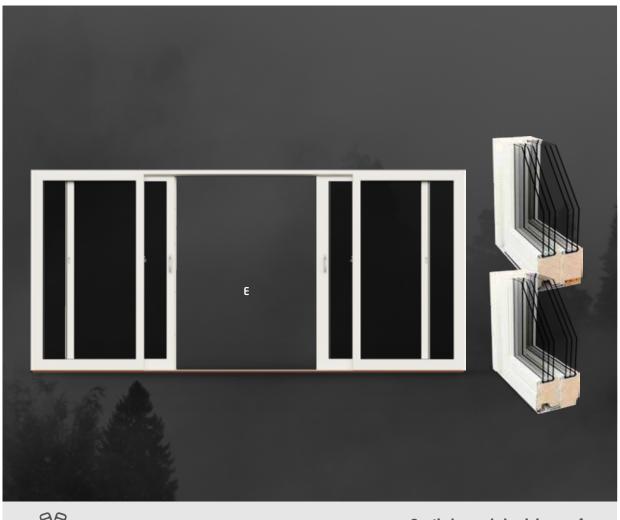






SLIDING DOUBLE DOOR

SLIDE TO SIDE



For timber and aluminium surface treatment colour options see page 48

_ _ _

Glides smoothly 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.

Maximum specification Life expectancy

>60 years

Thermal Efficiency

> U-values as low as: 0.9 Wm2/K

Glass (double) 6-16G-ES4 Glass (triple) 4ES-16G-4-16G-ES4 Exterior material Timber / Aluminium clad timber Interior material Timber Child safety NA Escape route Yes Ventilation Yes Burglar resistance NA

Product features

U-value: 0.8 to 1.3 W/m2K **Energy saving** Cleaning Entry sound reduction Rw+Ctr 35 - Rw+Ctr 30 Fire resistance Watertightness Class 9A, EN 12208 Passive availability NA

Timber protection Yes, vacuum impregnated

Ironmongery Assa / NorDan

Measure	□ Timber	🗅 Aluclad
Frame width	164 mm	172 mm
Min Width	2 788 mm	2 788 mm
Max Width	7 988 mm	7 988 mm
Min Height	1 650 mm	1 650 mm
Max Height	2 588 mm	2 588 mm
Width + Height	10 676mm	10 676mm
Sash weight	Max: 135 kg	Max: 135 kg

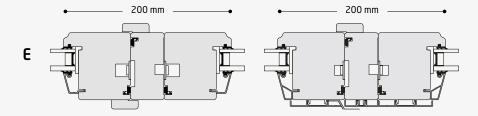
□ 164 Timber

□ 172 Aluciad





- See page 45
- See page 45 В
- C See page 45
- See page 45



TIMBER SURFACE COLORS NORDAN STANDARD

Water based paint



Semi-transparent paint



CLEAR LACQUER RAL 7022



LITE OAK RAL 7043

SILK WHITE RAL 7016





NUT BROWN NCS S8500-N

TEAK





RAL 9005

RICH MAHOGANY

Special colours





NorDan can supply most RAL and NCS colours directly to the treated timber or powder coated aluminium surfaces.

ALUMINIUM SURFACE COLORS NORDAN STANDARD

NorDan offers a wide spectra of standard colours. We also offer a wide range of other colours from a standardised palette.

The following colour samples are for illustrative purposes only and may differ from the original colour. Please get in touch if you would like a standard colour sample from us.



Whilst every effort is made to verfiy and ensure the accuracy of the colours shown, the information displayed should be used as a guide only. No purchase should be made without consulting with your local NorDan office.

To view more non-standard colours, please visit: www.ralcolor.com

NTECH PROFILES

CLASSIC & MODERN



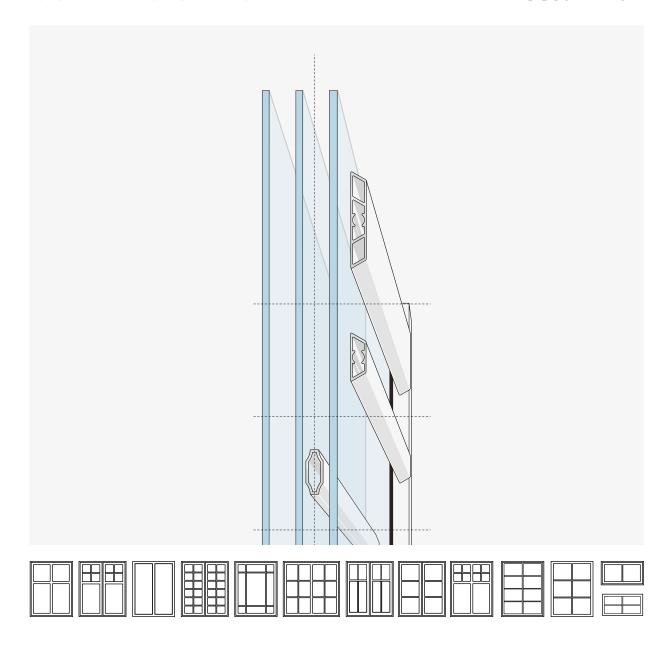
With the choice of two different profiles, NorDan makes it easier to align the aesthetic expression of the windows with the rest of the building.

Small details that can really make a difference in the big picture. NorDan has for many years provided the profile that has been called the "NorDan Classic", but now customers will be able to choose a more modern profile.



GLAZING BARS

DECORATION



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.

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.



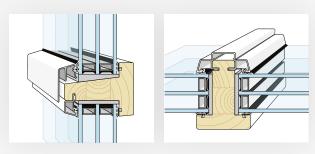
SOLID TRANSOMS AND MULLIONS

NorDan products are available with solid mullion & transoms in timber and aluminium cladding. Incorporated mullions & transoms divide the glass into individual glazed areas with the advantage that different glass can be installed. The typical widths are 62 and 92 mm with a number of exceptions on specific window and door types.



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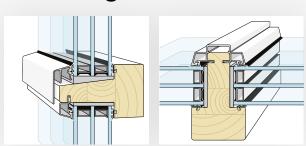
# **Openable products**



**Transoms**depth 80 mm height 62 mm.

Mullions
depth 80 mm width 62 mm.

# For fixed light



**Transoms** depth 105 mm height 62 mm.

**Mullions** depth 105 mm width 64 mm.



**Classic profile** 



**Modern profile** 

# **OPTIONS AND ACCESSORIES**

NorDan provide a wide variety of solid fittings with different functions for windows and doors. Contact our expert advisors for more information and advice on compatibility, function, colour and possible customisation for your particular project.

# Window handles



**Handle for inward opening window** Handle for ND: Silver, white, black.



**Lockable handle with key**Handle for ND: Locked with push button.
Tokyo: Silver, white, black.



**Handle for outward opening windows** Handle mini Tokyo: Silver, white, black.



**Lockable handle for outward opening windows**Handle for outward opening windows:
Locked with key / push button.
Tokyo: Silver, white, black.



Window handle for inward opening One

Handle for OD, ZD: Silver, White, Black.



Lockable handle for inward opening One

Lockable with key (Open from start). Handle for OD, ZD: Silver, White, Black.







Turn lock (Open from start)

Turn lock (The handle is open in the initial position and can be locked with a finger grip): Silver, white, black.



Lockable handle for inward opening One

Lockable with key (Locked from start). Handle for OD, ZD: Silver, white, black.







## Turn lock (locked from start)

Turn lock (The handle is locked in the initial position and can be unlocked with a finger grip): Silver, white, black.



**Blanking plate** 

Fixed.



**Blanking plate** 

Blanking plate with cover for loose handle.



# Blanking plate for ONE (OD,ZD)

Blanking plate with cover for loose handle.



## **Loose handle**

# Security lock and handle

Spring loaded handle mount (FIX 805). FIX 811 handle, matt silver, delivered separately.





# **Door handles**



Interior door handle Anodized silver, White and Black

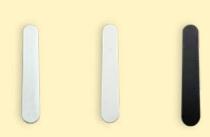


Door handle with exterior plate Anodized silver, White and Black



Exterior door handles with cylinder Anodized silver, White and Black

# **Plates**



Door handle blanking plate Anodized silver, White and Black

# Option for Double Balcony doors

With handles on both active and passive door leaves, the door is equipped with a curved Hoppe London.



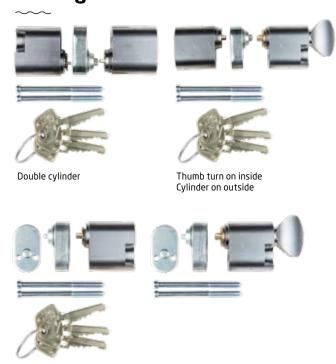
Hoppe London door handle Anodized silver

# **Sliding door handle**





# **Locking combinations**



Cylinder on inside

Thumb turn on inside

# BLACKLINE

# The Blackline option adds a modern touch to your products.

When specified, Blackline offers black ironmongery and a black spacer bar. You can choose to have your entire product in black or let the black details enhance your choice of colour on the frame and sash. Below are some popular examples of Blackline together with some of our other standard colours.



# **JULIET BALCONY & GLASS**

# Glass

Juliet balcony door can be equipped with a laminated and strong glass pane that lets in maximum daylight while protecting pets, children and adults from falling out.







# GLASS

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

## Safety glass

NorDan take security seriously. Personal safety and security against intrusion must be carefully considered when deciding on the level of safety glass required. It's also important to consider not just the glass but also 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. In addition to the safety and security benefits provided by laminated glass it also reduces UV light transmission by approx 99%. UV light is the primary cause of fading of fabrics and furnishings within a building.

## Other glass types

Radiograph, blast resistant, antibacterial, obscure or decorative glass types are all available depending on your requirement. For further information, contact your nearest NorDan representative.







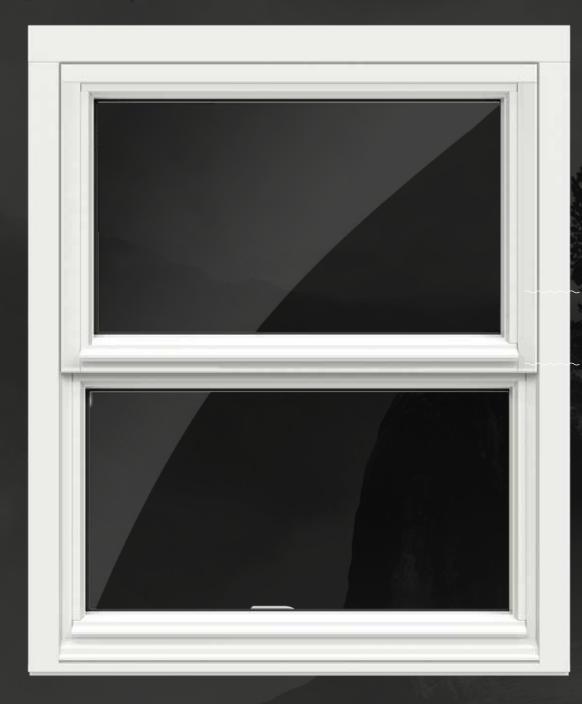






1 Cotswold / 2 Etched glass / 3 Clear glass 4 Standard glass / 5 Toughened glass / 6 Laminated glass

# SASH AND CASE LOOK-ALIKE



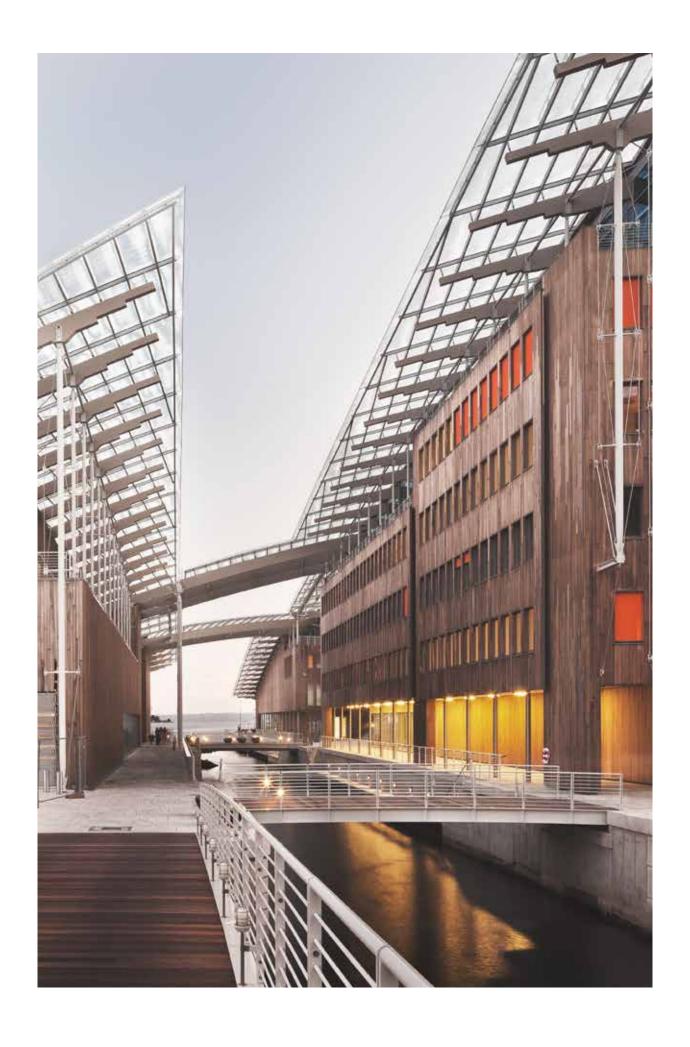
STEPPED SASH

STEPPED TRANSOM

# Give your StormGuard window a traditional look

The sash and case look-alike window is a variation on the SBD approved Norwegian StormGuard window. When compared to the traditional sash and case design, NorDan's alternative sash and case look-alike window provides:

- Higher Watertightness
- Seven point locking system
- Safe cleaning from inside
- Controlled ventilation
- Fire escape (size permitting)
- Wide range of optional extras



# NORDAN BIM OBJECTS

Building Information Modeling, or BIM, is hardly a new concept for most architects and building companies. Increasing demand for quality of data throughout a project's entire life span adds to the list of important requirements for all parties involved in construction. As a leading building product supplier, we take our BIM responsibility seriously.

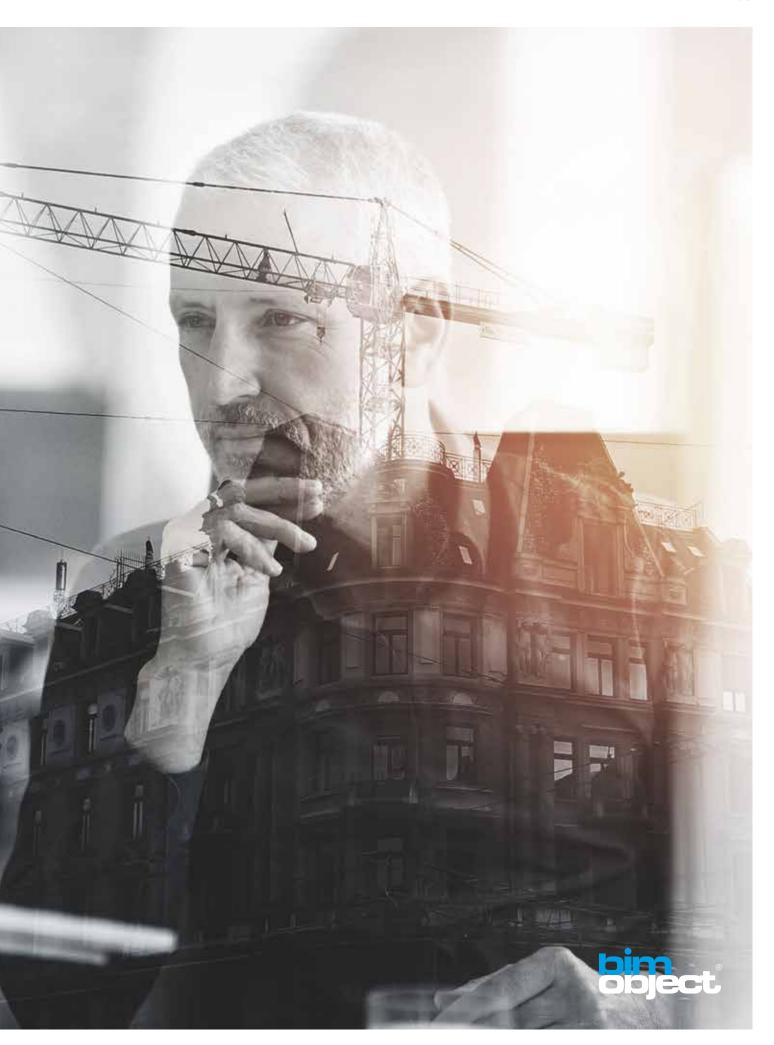
#### Digital marketplace

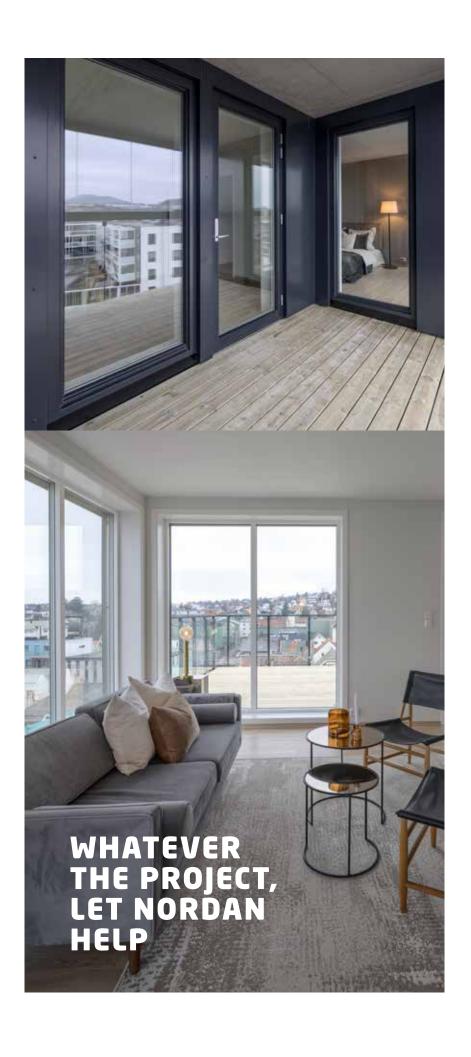
With BIM objects, there are still very few - if any standards. As common dictionaries and open file formats are still maturing, NorDan has prioritised creating high quality, parametric objects for newer versions of Revit and ArchiCAD. The objects' built-in intelligence allows a user to set a variety of parameters, from transoms and mullions to window sizes, energy efficiency and appearance. The distribution is done through www.bimobject.com, where you can find references to all relevant documentation in addition to downloading the objects themselves.

Get started at bimobject.com

# SMARTER CONSTRUCTION

BIM might be the single biggest revolution for the building industry. NorDan acknowledges this and provides a complete set of parametric objects for our entire product range.











NorDan work closely with a number of government and international agencies in connection with product development and certification. The requirements ensure that you as a customer or user can make a fully informed and honest choice.

# **Secured by Design**

NorDan UK Ltd - the leading Scandinavian high-performance timber window & door manufacturer supplying to the UK - are longstanding members of Secured by Design, the national police crime prevention initiative.

Secured by Design work closely with standards and certification bodies to ensure that their publicly available standards actually meet the needs of the police and public alike.

NorDan UK Ltd have an extensive range of products, which have achieved Police Preferred Specification and are therefore accredited by Secured by Design.

Products that are part of Secured by Design's product based police accreditation scheme are subject to rigorous testing and additionally must be fully certificated by an independent, thirdparty certification body accredited by the United Kingdom Accreditation Service (UKAS) before being allowed to carry the SBD logo. This is the only way for companies to obtain police accreditation for security-related products in the UK.

# **Impregnation**

At NorDan AS, impregnation treatment of timber used for manufacturing is in accordance with class AB, based on the European standard EN 351-1 class P5. By impregnating the timber, longevity is increased and protected against rot and fungi. Moreover, the wood is more dimensionally stable in that it does not twist, turn or warp because of the production techniques employed. NorDan also follow requirements set in VOC for emissions to air, soil and water.

# **Achilles**

Achilles Building Confidence is designed to meet the increasingly demanding legislative and risk management needs of construction clients. Achilles Building Confidence community is managed by an industry Steering Group compromising of members from across the sector to drive industry best practice.

# **BBA**

The British Board of Agrément is the UK's leading building products certification provider, working with manufacturers worldwide to assess new and innovative construction products and solutions to ensure they are safe and fit-for-purpose.

The organisation has developed a wealth of knowledge and expertise over the last 50 years and offers what many consider to be the very best in building product accreditation and testing. Its Agrément certificates are highly prized and can – due to the BBA's in-depth and exhaustive testing and evaluation regimes – take many months to achieve. An Agrément certificate provides reassurance to construction clients that products are assessed regularly by an independent, UKAS accredited body.

The BBA has been working with NorDan UK Ltd for more than a decade and certifies a wide range of its doors and window systems, as well as working with the company on achieving Secured By Design for many of its products.





















# BUSINESS RHYTHM

# NORDAN SALES ORGANISATION

## **Inverness**

Showroom & Office Location

# **Aberdeen**

Showroom & Office Location

# Livingston

Head Office, Showroom & Office Location

# Manchester

Showroom & Office Location

# Gloucester

Office Location

# London

Showroom & Office Location

## **Exeter**

Showroom & Office Location







At NorDan we are happy to be the forerunners in the transition to a sustainable construction industry. We try to lead by example - we've done it for nearly 100 years. Founded in 1926, and still family owned, NorDan is one of Europe's leading manufacturers of high-performance timber windows and doors. NorDan windows and doors offer solutions that combine leading energy performance with longevity, to minimise environmental impact throughout their lifespan.

# LIVINGSTON **Head Office**

3 Almondview Office Park Livingston West Lothian EH546SF

www.nordan.co.uk

## **ABERDEEN**

Norse House Greenwell Road East Tullos Aberdeen AB123AX

## **MANCHESTER**

Ivy Business Centre The Building Centre Crown Street Failsworth M35 9BG

## **EXETER**

(NorDan Scandic Ltd) 1b/5a Newton Centre Thorverton Road Exeter EX28GN

## LONDON

26 Store Street Bloomsbury WC1E 7BT

## **INVERNESS**

NorDan UK Ltd Brackley House Gollanfield Inverness IV2 7QT

#### **GLOUCESTER**

Suite C, The Opus Telford Way Waterwells Business Park Gloucester GL2 2AB

