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|  | Declaration of Performance – ND NTech Villa Topswing |
|  | Ytelseserkløring – ND NTech Villa Toppsving |
|  | Prestandadeklaration – ND NTech Villa Vridfönster |

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|---|-------------------------------|------------------------|--------------|
|  | Document ID: 0000E1(2.0) | Date: 20 November 2020 | Page: 1 of 2 |
| | Applicable for product codes: | | |
| | TG, TY, TQ, TL, TM, BL, BM | | |



DoP-NDAS-W010, Revision 2

Harmonized product standard / Harmoniserad produktstandard: EN 14351-1:2006+A2:2016

The products declared in the table conform to the essential characteristic performance indicated. This declaration of performance is issued under the sole responsibility of the manufacturer.

Produkterna deklarerade i tabellen är i överensstämmelse med angiven prestanda. Denna prestandadeklaration utfärdas på eget ansvar av den angivna tillverkaren.

In accordance with EU directive 305/2011/EU, we hereby declare that the following NorDan products, being manually operated windows/doors/screens for fitting vertically in domestic and commercial buildings, are produced in accordance with product standard EN 14351-1:2006+A2:2016, declared using system of attestation 3, in annex ZA.2 and verified by assessment and ITT.

I enlighet med EU-direktiv 305/2011/EEG, förklarar vi härmed att följande NorDan produkter, handmanövrerade dörrar/fönster/skärmar för vertikal installation i bostäder och kommersiella byggnader, är tillverkade i enlighet med produktstandard EN 14351-1:2006+A2:2016, deklarerats enligt systemet för bestyrkande 3 i bilaga ZA.2, och kontrollerad av evaluering och ITT.

Produced by / Tillverkad av:

- NorDan AS, Stasjonsveien 46 4460 Moi Norway
- NorDan AS, Skansen 30 2670 Otta Norway
- NorDan AS, Tengsareidveien 1 4373 Egersund Norway
- NorDan AB, Nyboholm 570 16 Kvillsfors Sweden
- NorDan AB, Kvadervägen 1 331 73 Bor Sweden
- NorDan AB, Grebbestad 8 457 91 Tanumshede Sweden
- NorDan Sp. Z o.o., Fabryczna 16 64-200 Wolsztyn Poland
- NorDan Sp. Z o.o., Powodowo 54 64-200 Wolsztyn Poland
- NorDan UAB, Montuotoju g. 6 Mazeikiai 89101 Lithuania

Assessed in accordance with 7.5 by following Notified bodies / Kontrollerad enligt 7.5 av följande provningsorgan:

- Rise Research Institute of Sweden (NB 0402), Certificate P-mark SC0472-11
- British Board of Agrément United Kingdom (NB 0836), Certificate BBA 07/4446
- SINTEF Building and Infrastructure Norway (NB 1071), Certificate NDVK (013)
- BlueSky Certification United Kingdom (NB 2731)
- DTI Danish Technological institute Denmark (NB1235)

Signed on behalf of NorDan AS / Signerad och på uppdrag av NorDan AS



Raymond Bakken
Product Development Manager
Moi 2020 - 11 - 20



Declaration of Performance – ND NTech Villa Topswing




Ytelseserklæring – ND NTech Villa Toppsving



Prestandadeklaration – ND NTech Villa Vridfönster

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Applicable for product codes:
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Note: Properties declared PF (Product Family) means the product is declared according to EN 14351-1:2006+A2:2016 paragraph 7.2.3.1 appendix F, tabel F.1. The adjacent letter after PF- refers to the column representing the declared properties.
Notera: Egenskaper deklarerade PF (Produktfamilj) betyder att produkten deklaras enligt EN 14351-1:2006+A2:2016 punkt 7.2.3.1 bilaga F, tabell F.1. Bokstaven efter PF- hänvisar till kolumnen som representerar de deklarerade egenskaperna.

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | |
|---|-------------------------|--|---|--|---|--|--|------------|----------------------|---------------------|-------------------------|--|---|---|--|-------------|-------------|------|
| EN 14351-1:2006+A2:2016 Ref. No. 5, Table 1 | EN 14351-1:2006+A2:2016 | Product / Produkt | Topswing reversible Vridfönster | | | Topswing reversible Opus Vridfönster Opus | | | Topguided Toppstyr | | | Fixed frame Fast karm | | | Fixed frame w/sash Fast karm m/båge | | | |
| | | Product Code / Produktkod | TG/BG | | | TY | | | TQ | | | TL/BL | | | TM/BM | | | |
| | | Opens / Öppnas | Outward / Utadgående | | | Outward / Utadgående | | | Outward / Utadgående | | | Fixed / Fast | | | Fixed sash / Fast båge | | | |
| | | Frame / Karm | 92 | 105 | 105 Passiv | 92 | 105 | 105 Passiv | 92 | 105 | 105 Passiv | 92 | 105 | 105 Passiv | 92 | 105 | 105 Passiv | |
| 1 + 2 | 4.2 | Resistance to Windload / Motstånd mot vindlast | (3C) 1200 Pa | PF-D | PF-D | (3C) 1200 Pa | PF-G | N/A | PF-K | (3C) 1200 Pa | PF-K | (3C) 1200 Pa | PF-M | PF-M | (3C) 1200 Pa | PF-P | PF-P | |
| | | Test and Classification / Test och classification | EN 12211:2016 EN 12210:2016 | PF-D | PF-D | PF-D | PF-D | N/A | PF-K | PF-D | PF-K | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D |
| | | Notified Body / ackrediterat organ | 0402 | PF-D | PF-D | PF-D | PF-D | N/A | PF-K | 1235 | PF-K | PF-D | PF-D | PF-D | PF-D | 1288 | PF-D | PF-D |
| | | Test Report / Testrapport | PX06142-19-2 Jun. 2019 | PF-D | PF-D | PF-D | 3P04469-2E Aug. 2013 | PF-G | N/A | PF-K | 937605 Okt. 2021 | PF-K | PX29397 Jan. 2013 | PF-M | PF-M | R16845 | PF-D | PF-D |
| | | Size tested (Frame WxH) / Teststorlek (Karm BxH) | 1585x1485 mm | PF-D | PF-D | 1258x1588mm | PF-G | N/A | PF-K | 1688x1588 mm | PF-K | 2500x2500mm | PF-M | PF-M | 873x2188mm | PF-D | PF-D | |
| 4 | 4.4 | Reaction to fire / Brandreaktion | F | PF-D | PF-D | PF-D | PF-D | N/A | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | |
| | | Test and Classification / Test och classification | EN13501-1 | PF-D | PF-D | PF-D | PF-D | N/A | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D |
| | | Notified Body / ackrediterat organ | 0402 | PF-D | PF-D | PF-D | PF-D | N/A | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D |
| | | Test Report / Testrapport | SC0472-11 Jun. 2020 | PF-D | PF-D | PF-D | PF-D | N/A | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D |
| | | Report Size (Frame WxH) / Rapport storlek (Karm BxH) | 1585x1485 mm | PF-D | PF-D | PF-D | PF-D | N/A | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | |
| 5 | 4.5 | Watertightness (A) / Vattentätthet (A) | (9A) 600 Pa | PF-D | PF-D | (9A) 600 Pa | PF-G | N/A | PF-K | (9A) 600 Pa | PF-K | (9A) 600 Pa | PF-M | PF-M | PF-D | PF-D | PF-D | |
| | | Test and Classification / Test och classification | EN 1027:2016 EN 12208:2000 | PF-D | PF-D | PF-D | PF-D | N/A | PF-K | PF-D | PF-K | PF-D | PF-D | PF-D | PF-D | 1288 | PF-P | PF-P |
| | | Notified Body / ackrediterat organ | 0402 | PF-D | PF-D | PF-D | PF-D | N/A | PF-K | 1235 | PF-K | PF-D | PF-D | PF-D | PF-D | 1288 | PF-P | PF-P |
| | | Test Report / Testrapport | PX06142-19-2 Jun. 2019 | PF-D | PF-D | PF-D | 3P04469-2E Aug. 2013 | PF-G | N/A | PF-K | 937605 Okt. 2021 | PF-K | 3P04469-9E Jun. 2013 | PF-M | PF-M | R16845 | PF-P | PF-P |
| | | Size tested (Frame WxH) / Teststorlek (Karm BxH) | 1585x1485 mm | PF-D | PF-D | 1258x1588mm | PF-G | N/A | PF-K | 1688x1588 mm | PF-K | 1988x2388mm | PF-M | PF-M | 873x2188mm | PF-P | PF-P | |
| 7 | 4.6 | Dangerous Substances / Farliga ämnen | None | None | None | None | None | N/A | PF-K | None | PF-K | None | PF-M | PF-M | None | None | None | |
| 9 | 4.8 | Load-bearing capacity of safety device / Säkerhetsanordning | PF-E | Satisfies / Bestått 350 N/60s | PF-E | Satisfies / Bestått 350 N/60s | PF-G | N/A | N/A | N/A | N/A | N/A | N/A | N/A | PF-E | PF-E | PF-E | |
| | | Test and Classification / Test och classification | PF-E | EN 13126-1/5:2011, EN 13126-11:2008 | PF-E | EN 14609:2004 EN 14351-1:2006+A2:2016 | PF-G | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | PF-E | PF-E | PF-E |
| | | Notified Body / ackrediterat organ | PF-E | 0402 | PF-E | PF-E | PF-E | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | PF-E | PF-E | PF-E |
| | | Test Report / Testrapport | PF-E | PX28342 Feb. 2013 | PF-E | 3P04469-2E Aug. 2013 | PF-G | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | PF-E | PF-E | PF-E |
| | | Size tested (Frame WxH) / Teststorlek (Karm BxH) | PF-E | 1200x1800mm | PF-E | 1258x1588mm | PF-G | N/A | N/A | N/A | N/A | N/A | N/A | N/A | PF-E | PF-E | PF-E | |
| 10 | 4.11 | Acoustics / Ljuddämpning | Rw(C,Tr)=38 (-2; -4) dB Optional | PF-E | Rw(C,Tr)=43 (-2; -4) dB Optional | PF-E | PF-E | N/A | PF-D | PF-E | PF-E | Rw(C,Tr)=36 (-1; -4) dB Optional | Rw(C,Tr)=47 (-1; -3) dB Optional | PF-N | NPD | NPD | NPD | |
| | | Note: Glas tested / Glas testad | IGU (10+20G+6) | PF-E | IGU (8,76+10G+4+18G+8,76) Acoustic foil / Lydfolie (x2) | PF-E | PF-D | PF-E | N/A | PF-D | PF-E | PF-E | IGU (6+16G+4) | IGU (14,76+24G+10,76) Acoustic foil / Lydfolie (x2) | PF-N | NPD | NPD | NPD |
| | | Test and Classification / Test och classification | EN ISO 10140-2:2011 EN ISO 717-1:2013 | PF-D | PF-E | PF-D | PF-D | N/A | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | NPD | NPD | NPD |
| | | Notified Body / ackrediterat organ | 2253 | PF-D | PF-E | PF-D | PF-D | N/A | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | NPD | NPD | NPD |
| | | Test Report / Testrapport | GLA-1305.7/17 Feb. 2017 | PF-E | GLA-1305.5/17 Jan. 2017 | PF-E | PF-D | PF-E | PF-D | PF-E | GLA-1305.9/14 Feb. 2017 | GLA-1343.2/17 Aug. 2017 | PF-N | NPD | NPD | NPD | | |
| | | Size tested (Frame WxH) / Teststorlek (Karm BxH) | 1230x1480 mm | PF-D | PF-D | PF-D | N/A | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | NPD | NPD | NPD | |
| 11 | 4.12 | Thermal transmittance / Värmeisolering Uwin | 1,2 (W/m2K) | 0,86* (W/m2K) | 0,83* (W/m2K) | 1,2 (W/m2K) | 0,85* (W/m2K) | N/A | PF-D | PF-E | PF-F | 1,2 (W/m2K) | 0,78* (W/m2K) | 0,74* (W/m2K) | PF-D | PF-E | PF-F | |
| | | Note | (4.12) Thermal transmittance and (4.13) Radiation properties of a specific product is available from a quotation or order confirmation in accordance with EN 14351-1:2006+A2:2016, Table E.1, Note c. | | | | | | | | | | | | | | | |
| | | Notera | (4.12) Värmeisolering och (4.13) Strålningsegenskaper för en specifik produkt, är tillgängligt från en offert eller orderbekräftelse i enlighet med EN 14351-1:2006+A2:2016, Table E.1, Note c. | | | | | | | | | | | | | | | |
| | | Test and Classification / Test och classification | EN ISO 10077-1:2006/AC:2009 EN ISO 10077-2:2012/AC:2012 Program "Therm" EN 673 | PF-D | PF-D | PF-D | PF-D | N/A | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D |
| | | Notified Body / ackrediterat organ | 1071 | PF-D | PF-D | PF-D | PF-D | N/A | PF-K | 1235 | PF-K | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | |
| | | General quality control / Allmän kvalitetskontroll | 102010505 Dec. 2016 | PF-D | N/A | PF-K | 950983 Okt. 2021 | PF-K | PF-D | PF-K | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | |
| | | Size tested (Frame WxH) / Teststorlek (Karm BxH) | 1230x1480 mm | PF-D | PF-D | PF-D | PF-D | N/A | PF-K | PF-D | PF-K | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | |
| | | Calculation examples w/IGU / Beräkningsexempel m/IGU | a) 1,2 (W/m2K) b) N/A *c) (4E5+16G+4+16G+ES4) | a) 1,2 (W/m2K) b) 0,86 (W/m2K) c) 0,83 (W/m2K) | a) N/A b) 0,83 (W/m2K) c) 0,79 (W/m2K) | a) 1,2 (W/m2K) b) N/A c) N/A | a) 1,2 (W/m2K) b) 0,85 (W/m2K) c) 0,82 (W/m2K) | N/A | PF-D | PF-E | PF-F | a) 1,2 (W/m2K) b) 0,79 (W/m2K) c) 0,74 (W/m2K) | a) 1,2 (W/m2K) b) 0,78 (W/m2K) c) 0,74 (W/m2K) | a) N/A b) 0,74 (W/m2K) c) 0,70 (W/m2K) | PF-D | PF-E | PF-F | |
| 12+13 | 4.13 | Radiation properties / Strålningsegenskaper | 0,75 Lt / 0,53 g | PF-E | 0,74 Lt / 0,54 g | PF-D | PF-E | N/A | PF-D | PF-E | PF-E | PF-D | PF-E | PF-E | PF-D | PF-E | PF-E | |
| | | Test and Classification / Test och classification | EN 410:2011 | PF-D | PF-D | PF-D | PF-D | N/A | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D |
| | | Calculation examples w/IGU / Beräkningsexempel m/IGU | a) 0,75 Lt / 0,53 g *b) (4LE+16G+4+16G+LE4) *c) (4E5+16G+4+16G+ES4) | a) 0,75 Lt / 0,53 g b) N/A c) N/A | a) 0,75 Lt / 0,53 g b) 0,74 Lt / 0,54 g c) 0,64 Lt / 0,39 g | a) N/A b) 0,74 Lt / 0,54 g c) 0,64 Lt / 0,39 g | PF-D | PF-E | N/A | PF-D | PF-E | PF-F | a) 0,75 Lt / 0,53 g b) 0,74 Lt / 0,54 g c) 0,64 Lt / 0,39 g | a) 0,75 Lt / 0,53 g b) 0,74 Lt / 0,54 g c) 0,64 Lt / 0,39 g | a) N/A b) 0,74 Lt / 0,54 g c) 0,64 Lt / 0,39 g | PF-D | PF-E | PF-F |
| | | Note | (4.12) Thermal transmittance and (4.13) Radiation properties of a specific product is available from a quotation or order confirmation in accordance with EN 14351-1:2006+A2:2016, Table E.1, Note c. | | | | | | | | | | | | | | | |
| | | Notera | (4.12) Värmeisolering och (4.13) Strålningsegenskaper för en specifik produkt, är tillgängligt från en offert eller orderbekräftelse i enlighet med EN 14351-1:2006+A2:2016, Table E.1, Note c. | | | | | | | | | | | | | | | |
| 14 | 4.14 | Air permeability / Lufttäthet | (4) 600 Pa | PF-D | PF-D | (4) 600 Pa | PF-G | N/A | PF-D | PF-D | PF-D | (4) 600 Pa | PF-M | PF-M | PF-D | PF-D | PF-D | |
| | | Test and Classification / Test och classification | EN 1026:2016 EN 12207:2000 | PF-D | PF-D | PF-D | PF-D | N/A | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D | PF-D |
| | | Notified Body / ackrediterat organ | 0402 | PF-D | PF-D | PF-D | PF-D | N/A | PF-K | 1235 | PF-K | PF-D | PF-D | PF-D | PF-D | 1288 | PF-P | PF-P |
| | | Test Report / Testrapport | PX06142-19-2 Jun. 2019 | PF-D | PF-D | PF-D | 3P04469-2E Aug. 2013 | PF-G | N/A | PF-K | 937605 Okt. 2021 | PF-K | PX29397 Jan. 2013 | PF-M | PF-M | R16845 | PF-P | PF-P |
| | | Size tested (Frame WxH) / Teststorlek (Karm BxH) | 1585x1485 mm | PF-D | PF-D | 1258x1588mm | PF-G | N/A | PF-K | 1688x1588 mm | PF-K | 2500x2500mm | PF-M | PF-M | 873x2188mm | PF-P | PF-P | |
| 23 | 4.23 | Burglar resistance / Inbrottsmotstånd | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | RC2 / RC2N Optional | N/A | N/A | N/A | N/A | |
| | | Test and Classification / Test och classification | EN 1628:2011+A1:2016; EN 1629:2011+A1:2016 EN 1630:2011+A1:2016; EN 1627:2011 | PF-D | PF-D | PF-D | N/A | N/A | N/A | N/A | N/A | N/A | N/A | PF-D | N/A | N/A | N/A | N/A |
| | | Notified Body / ackrediterat organ | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0402 | N/A | N/A | N/A | N/A |
| | | Test Report / Testrapport | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 9P05266 Jul. 2019 | N/A | N/A | N/A | N/A |
| | | Size tested (Frame WxH) / Teststorlek (Karm BxH) | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 1230x1480mm | N/A | N/A | N/A | N/A | |

Windows and Doors containing electrical and electronic equipment are in conformity with RoHS (Directive 2011/65/EU of the European Parliament on the restriction of the use of certain hazardous substances in electrical and electronic equipment) as amended by Directive 2015/863/EU.
 Fönster och dörrar som innehåller elektrisk och elektronisk utrustning överensstämmer med RoHS (Direktiv 2011/65/EU av Europaparlamentet om begränsning i användandet av vissa farliga ämnen i elektrisk och elektronisk utrustning) med korrigerigering av Direktiv 2015/863/EU.