



Harmonised Product Standard

**EN 14351-1:2006 +A2:2016**

## **Declaration of Performance**

Type of construction product:  
Facade windows and Casement doors

**VELFAC Ribo Alu  
triple-glazed**

DOP no.:

**W-EW-V-20240701**

The performance of the Facade windows and Casement doors in the product line VELFAC Ribo Alu; triple-glazed are in conformity with the declared in the following pages.

This Declaration of Performance is issued under the sole responsibility of DOVISTA A/S.  
System of assessment and verification of constancy of performance of the construction product:  
(AVCP) System 3

Intended use:  
For domestic and commercial buildings

Manufacturer:

**DOVISTA A/S**

Bygholm Søpark 21D, 8700 Horsens, Denmark

Notified Bodies (Test institute):

NB 1235 - DANISH TECHNOLOGICAL INSTITUTE  
NB 0402 - RISE RESEARCH INSTITUTES OF SWEDEN

Windows and Doors containing Electrical and Electronic Equipment are in conformity with RoHS (Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment) as amended by Directive 2015/863/EU.

Date:

27 juni 2024

Signed on behalf of DOVISTA A/S

Allan Lindhard Jørgensen  
CEO, DOVISTA A/S

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Horsens

Declaration of Performance VELFAC Ribo Alu; triple-glazed

|                         |                         | 4.2                     | 4.5             | 4.6                     | 4.8                                     | 4.11                      | 4.12                    | 4.13                    | 4.14             |
|-------------------------|-------------------------|-------------------------|-----------------|-------------------------|---|---------------------------|-------------------------|-------------------------|------------------|
| Opening function        |                         | Resistance to windload  | Water tightness | Dangerous substances    | Load bearing capacity of safety devices | Acoustic performance      | * Thermal transmittance | * Radiation properties  | Air permeability |
| CDO                     | Casement door, 1-leaf   |                         |                 |                         |   |                           |                         |                         |                  |
| Declared value          | NPD                     | NPD                     | None            | (350N/60s), optional    | NPD                                     | 0,79 (W/m2K)              | g 0,53 / LT 0,74        | NPD                     |                  |
| Classification standard | -                       | -                       | -               | -                       | -                                       | -                         | -                       | -                       |                  |
| Test standard           | -                       | -                       | -               | EN 14609:2003           | -                                       | EN ISO 10077-2: 2003/2012 | -                       | -                       |                  |
| Notified body           | -                       | -                       | -               | NB 1235                 | -                                       | NB 1235                   | -                       | -                       |                  |
| Test report             | -                       | -                       | -               | DTI/202289-02/2024-Feb. | -                                       | 0108/682833V, 2016-02-10  | 0108/682833V, 2016      | -                       |                  |
| Tested size (mm), WxH   | -                       | -                       | -               | 1200 x 2400             | -                                       | 1230 x 1480               | -                       | -                       |                  |
| FC                      | Fixed casement          |                         |                 |                         |   |                           |                         |                         |                  |
| Declared value          | Class C4 (1600 Pa)      | Class 9A (600 Pa)       | None            | N/A                     | **                                      | 0,79 (W/m2K)              | g 0,53 / LT 0,74        | Class 4 (±600 Pa)       |                  |
| Classification standard | EN 12210:2016           | EN 12208:2016           | -               | -                       | -                                       | -                         | -                       | EN 12207:2016           |                  |
| Test standard           | EN 12211:2016           | EN 1027:2016            | -               | -                       | SS-EN ISO 10140-1:2021/2:2021           | EN ISO 10077-2: 2003/2012 | -                       | EN 1026:2016            |                  |
| Notified body           | NB 1235                 | NB 1235                 | -               | -                       | NB 0402                                 | NB 1235                   | -                       | NB 1235                 |                  |
| Test report             | DTI/244213-8/2024-Jun.  | DTI/244213-8/2024-Jun.  | -               | -                       | O100282-1254305 A                       | 0108/682833V, 2016-02-10  | 0108/682833V, 2016      | DTI/244213-8/2024-Jun.  |                  |
| Tested size (mm), WxH   | 1300 x 1600             | 1300 x 1600             | -               | -                       | 1230 x 1480                             | 1230 x 1480               | -                       | 1300 x 1600             |                  |
| FL                      | Fixed light             |                         |                 |                         |   |                           |                         |                         |                  |
| Declared value          | Class C4 (1600 Pa)      | Class 9A (600 Pa)       | None            | N/A                     | **                                      | 0,70 (W/m2K)              | g 0,53 / LT 0,74        | Class 4 (±600 Pa)       |                  |
| Classification standard | EN 12210:2016           | EN 12208:2016           | -               | -                       | -                                       | -                         | -                       | EN 12207:2016           |                  |
| Test standard           | EN 12211:2016           | EN 1027:2016            | -               | -                       | SS-EN ISO 10140-1:2021/2:2021           | EN ISO 10077-2: 2003/2012 | -                       | EN 1026:2016            |                  |
| Notified body           | NB 1235                 | NB 1235                 | -               | -                       | NB 0402                                 | NB 1235                   | -                       | NB 1235                 |                  |
| Test report             | DTI/202289-22/2024-Feb. | DTI/202289-22/2024-Feb. | -               | -                       | O100282-1259373                         | 0108/682833V, 2016-02-10  | 0108/682833V, 2016      | DTI/202289-22/2024-Feb. |                  |
| Tested size (mm), WxH   | 2500 x 2000             | 2500 x 2000             | -               | -                       | 1230 x 1480                             | 1230 x 1480               | -                       | 2500 x 2000             |                  |

\*Thermal transmission coefficient (4.12) and radiation properties (4.13) of a specific product is provided in quotations and order confirmations in accordance with EN 14351-1:2006 +A1:2010.

\*\* Declared values see sheet "4.11, Acoustic performance"

Declaration of Performance    VELFAC Ribo Alu; triple-glazed

| Opening function   | 4.2                    | 4.5                    | 4.6                  | 4.8                                     | 4.11                          | 4.12                      | 4.13                   | 4.14                   |
|--|------------------------|------------------------|----------------------|---|-------------------------------|---------------------------|------------------------|------------------------|
|  | Resistance to windload | Water tightness        | Dangerous substances | Load bearing capacity of safety devices | Acoustic performance          | * Thermal transmittance   | * Radiation properties | Air permeability       |
| SGO                      Side-guided window                |                        |                        |                      |   |                               |                           |                        |                        |
| Declared value   | Class C4 (1600 Pa)     | Class 9A (600 Pa)      | None                 | (350N/60s), optional                    | **                            | 0,79 (W/m2K)              | g 0,53 / LT 0,74       | Class 4 (±600 Pa)      |
| Classification standard                                    | EN 12210:2016          | EN 12208:2016          | -                    | -                                       | -                             | -                         | -                      | EN 12207:2016          |
| Test standard  | EN 12211:2016          | EN 1027:2016           | -                    | EN 14609:2003                           | SS-EN ISO 10140-1:2021/2:2021 | EN ISO 10077-2: 2003/2012 | -                      | EN 1026:2016           |
| Notified body  | NB 1235                | NB 1235                | -                    | NB 1235                                 | NB 0402                       | NB 1235                   | -                      | NB 1235                |
| Test report  | DTI/244210-1/2024-Apr. | DTI/244210-1/2024-Apr. | -                    | DTI/202289-20/2024-Feb.                 | O100282-1254305 A             | 0108/682833V, 2016-02-10  | 0108/682833V, 2016     | DTI/244210-1/2024-Apr. |
| Tested size (mm), WxH                                      | 1000 x 1600            | 1000 x 1600            | -                    | 1300 x 1600                             | 1230 x 1480                   | 1230 x 1480               | -                      | 1000 x 1600            |
| SHO                      Sidehung window                   |                        |                        |                      |   |                               |                           |                        |                        |
| Declared value   | Class C4 (1600 Pa)     | Class 9A (600 Pa)      | None                 | (350N/60s), optional                    | **                            | 0,79 (W/m2K)              | g 0,53 / LT 0,74       | Class 4 (±600 Pa)      |
| Classification standard                                    | EN 12210:2016          | EN 12208:2016          | -                    | -                                       | -                             | -                         | -                      | EN 12207:2016          |
| Test standard  | EN 12211:2016          | EN 1027:2016           | -                    | EN 14609:2003                           | SS-EN ISO 10140-1:2021/2:2021 | EN ISO 10077-2: 2003/2012 | -                      | EN 1026:2016           |
| Notified body  | NB 1235                | NB 1235                | -                    | NB 1235                                 | NB 0402                       | NB 1235                   | -                      | NB 1235                |
| Test report  | DTI/244210-2/2024-Apr. | DTI/244210-2/2024-Apr. | -                    | DTI/202289-20/2024-Feb.                 | O100282-1254305 A             | 0108/682833V, 2016-02-10  | 0108/682833V, 2016     | DTI/244210-2/2024-Apr. |
| Tested size (mm), WxH                                      | 950 x 1800             | 950 x 1800             | -                    | 1300 x 1600                             | 1230 x 1480                   | 1230 x 1480               | -                      | 950 x 1800             |
| SHRO                      Sidehung fully reversible window |                        |                        |                      |   |                               |                           |                        |                        |
| Declared value   | Class C4 (1600 Pa)     | Class 9A (600 Pa)      | None                 | (350N/60s), optional                    | **                            | 0,79 (W/m2K)              | g 0,53 / LT 0,74       | Class 4 (±600 Pa)      |
| Classification standard                                    | EN 12210:2016          | EN 12208:2016          | -                    | -                                       | -                             | -                         | -                      | EN 12207:2016          |
| Test standard  | EN 12211:2016          | EN 1027:2016           | -                    | EN 14609:2003                           | SS-EN ISO 10140-1:2021/2:2021 | EN ISO 10077-2: 2003/2012 | -                      | EN 1026:2016           |
| Notified body  | NB 1235                | NB 1235                | -                    | NB 1235                                 | NB 0402                       | NB 1235                   | -                      | NB 1235                |
| Test report  | DTI/244213-8/2024-Jun. | DTI/244213-8/2024-Jun. | -                    | DTI/202289-20/2024-Feb.                 | O100282-1254305 A             | 0108/682833V, 2016-02-10  | 0108/682833V, 2016     | DTI/244213-8/2024-Jun. |
| Tested size (mm), WxH                                      | 1300 x 1600            | 1300 x 1600            | -                    | 1300 x 1600                             | 1230 x 1480                   | 1230 x 1480               | -                      | 1300 x 1600            |

\*Thermal transmission coefficient (4.12) and radiation properties (4.13) of a specific product is provided in quotations and order confirmations in accordance with EN 14351-1:2006 +A1:2010.

\*\* Declared values see sheet "4.11, Acoustic performance"

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Declaration of Performance VELFAC Ribo Alu; triple-glazed

| Opening function        | 4.2                       | 4.5                    | 4.6                  | 4.8                                     | 4.11                          | 4.12                      | 4.13                   | 4.14                   |
|-------------------------|---------------------------|------------------------|----------------------|---|-------------------------------|---------------------------|------------------------|------------------------|
|                         | Resistance to windload    | Water tightness        | Dangerous substances | Load bearing capacity of safety devices | Acoustic performance          | * Thermal transmittance   | * Radiation properties | Air permeability       |
| TGO                     | Top-guided window         |                        |                      |   |                               |                           |                        |                        |
| Declared value          | Class C4 (1600 Pa)        | Class 9A (600 Pa)      | None                 | (350N/60s), optional                    | **                            | 0,79 (W/m2K)              | g 0,53 / LT 0,74       | Class 4 (±600 Pa)      |
| Classification standard | EN 12210:2016             | EN 12208:2016          | -                    | -                                       | -                             | -                         | -                      | EN 12207:2016          |
| Test standard           | EN 12211:2016             | EN 1027:2016           | -                    | EN 14609:2003                           | SS-EN ISO 10140-1:2021/2:2021 | EN ISO 10077-2: 2003/2012 | -                      | EN 1026:2016           |
| Notified body           | NB 1235                   | NB 1235                | -                    | NB 1235                                 | NB 0402                       | NB 1235                   | -                      | NB 1235                |
| Test report             | DTI/244213-6/2024-Jun.    | DTI/244213-6/2024-Jun. | -                    | DTI/202289-08/2024-Feb.                 | O100282-1254305 A             | 0108/682833V, 2016-02-10  | 0108/682833V, 2016     | DTI/244213-6/2024-Jun. |
| Tested size (mm), WxH   | 1800 x 1400               | 1800 x 1400            | -                    | 1430 x 1600                             | 1230 x 1480                   | 1230 x 1480               | -                      | 1800 x 1400            |
| THRO                    | Tophung reversible window |                        |                      |   |                               |                           |                        |                        |
| Declared value          | Class C4 (1600 Pa)        | Class 9A (600 Pa)      | None                 | (350N/60s), optional                    | **                            | 0,79 (W/m2K)              | g 0,53 / LT 0,74       | Class 4 (±600 Pa)      |
| Classification standard | EN 12210:2016             | EN 12208:2016          | -                    | -                                       | -                             | -                         | -                      | EN 12207:2016          |
| Test standard           | EN 12211:2016             | EN 1027:2016           | -                    | EN 14609:2003                           | SS-EN ISO 10140-1:2021/2:2021 | EN ISO 10077-2: 2003/2012 | -                      | EN 1026:2016           |
| Notified body           | NB 1235                   | NB 1235                | -                    | NB 1235                                 | NB 0402                       | NB 1235                   | -                      | NB 1235                |
| Test report             | DTI/244213-7/2024-Jun.    | DTI/244213-7/2024-Jun. | -                    | DTI/202289-08/2024-Feb.                 | O100282-1254305 A             | 0108/682833V, 2016-02-10  | 0108/682833V, 2016     | DTI/244213-7/2024-Jun. |
| Tested size (mm), WxH   | 1360 x 1400               | 1360 x 1400            | -                    | 1430 x 1600                             | 1230 x 1480                   | 1230 x 1480               | -                      | 1360 x 1400            |

\*Thermal transmission coefficient (4.12) and radiation properties (4.13) of a specific product is provided in quotations and order confirmations in accordance with EN 14351-1:2006 +A1:2010.

\*\* Declared values see sheet "4.11, Acoustic performance"

## Declaration Of Performance VELFAC Ribo Alu; triple-glazed

\*\* Declared values

| Glass   | Fixed Light | Opening window | Casement door | Door | Sliding door |
|---|-------------|----------------|---------------|------|--------------|
| 16,8-10-4-10-10,8 Laminated Sound Energy/Clear/Laminated Sound Energy WE w. Argon | -           | 45 (-1;-3)     | -             | -    | -            |
| 16,8-22-12,8 Laminated Sound/Laminated Sound Energy WE w. Argon                   | -           | 46 (0;-2)      | -             | -    | -            |
| 4-20-4-18-6 Energy/Clear/Energy WE w. Argon                                       | -           | 37 (-2;-6)     | -             | -    | -            |
| 4-20-4-18-6,4 Energy/Clear/Laminated Energy WE w. Argon                           | -           | 38 (-2;-7)     | -             | -    | -            |
| 4-20-4-18-6,8 Energy/Clear/Laminated Energy WE w. Argon                           | -           | 38 (-1;-6)     | -             | -    | -            |
| 4-20-4-20-4 Energy/Clear/Energy WE w. Argon                                       | 32 (-1;-6)  | 33 (-2;-6)     | -             | -    | -            |
| 6-16-6-16-8,8 Energy/Clear/Laminated SOUND Energy WE w. Argon                     | -           | 42 (-2;-6)     | -             | -    | -            |
| 6-18-4-16-8,8 Energy/Clear/Laminated SOUND Energy WE w. Argon                     | 42 (-3;-8)  | 42 (-2;-7)     | -             | -    | -            |
| 6-18-6-16-6 Energy Std/Clear/Energy Std WE Grey W/Argon                           | -           | 35 (-1;-5)     | -             | -    | -            |
| 8,8-14-6-14-9,5 Energy/Clear/Laminated Energy WE w. Argon                         | 44 (-1;-5)  | 43 (-1;-3)     | -             | -    | -            |
| 8,8-16-4-14-9,5 Energy/Clear/Laminated Energy WE w. Argon                         | -           | 44 (-2;-5)     | -             | -    | -            |
| 8-16-4-16-8,8 Energy/Clear/Laminated SOUND Energy WE w. Argon                     | -           | 43 (0;-3)      | -             | -    | -            |
| 8-16-6-14-8,8 Energy/Clear/Laminated SOUND Energy WE w. Argon                     | -           | 43 (-1;-5)     | -             | -    | -            |