



## Declaration of Performance / Ydeevnedeklaration VELFAC Ribo alu A

The performance of the Windows and Patio doors in the product serie VELFAC Ribo alu A are in conformity with the declared in this document.  
This declaration of performance is issued under the sole responsibility of VELFAC A/S.

Ydeevnen for Facadevinduer og Terrassedørene i produktserien VELFAC Ribo alu A er i overensstemmelse med de deklarerede ydeevner i dette dokument.  
Denne ydeevnedeklaration udstedes på eneansvar af VELFAC A/S.

Signed on behalf of VELFAC A/S:

Underskrevet på vegne af VELFAC A/S:

**Finn Jespersen**  
CEO, Administrerende Direktør

<b>Harmonised technical specification</b> <b>Harmoniseret teknisk specifikation</b>	EN 14351-1:2006 +A1:2010
Type of construction product Byggevaretype	Windows and Patio doors Facadevinduer og Terrassedøre
Construction product identification Byggevarereidentifikation	VELFAC Ribo alu A
Intended use Byggevarens tilsigtede anvendelse	For domestic and commercial buildings Til boliger og erhvervsbygninger
Manufacturer Producent	VELFAC A/S
Manufacturer, address Producent, adresse	Bygholm Søpark 23, 8700 Horsens, Denmark
Name and address of authorised representative Navn og adresse på bemyndiget repræsentant	n/a
System of assessment and verification of constancy of performance of the construction product Systemerne for vurdering af kontrol af konstansen af byggevarens ydeevne	(AVCP) System 3
<b>Notified Bodies / Notificerede organer</b>	
<b>Chiltern Dynamics</b> , Chiltern House, Stocking Lane, Hughenden Valley, High Wycombe, HP14 4ND, United Kingdom	NB 1314
<b>Teknologisk Institut</b> , Teknologiparken, Kongsvang Allé 29, 8000 Århus C, Denmark	NB 1235

# Declaration of Performance / Ydeevnedeklaration VELFAC Ribo alu A

RiaA-02-GH

	VELFAC Ribo 10	VELFAC Ribo 11	VELFAC Ribo 12	VELFAC Ribo 01	VELFAC Ribo 07	VELFAC Ribo 09	VELFAC Ribo 29	VELFAC Ribo 31
<b>Element type</b>	<b>Fixed window</b>	<b>Fixed window with sash</b>	<b>Tophung projecting</b>	<b>Sidehung</b>	<b>Sidehung projecting</b>	<b>Side swing</b>	<b>Reversible</b>	<b>Door high window</b>
Opening direction	-	-	Outward	Outward	Outward	Outward	Outward	Outward
<b>Element type</b>	<b>Fast vindue</b>	<b>Fast vindue med ramme</b>	<b>Topstyret</b>	<b>Sidehængt</b>	<b>Sidestyret</b>	<b>Sidevende</b>	<b>Vendevindue</b>	<b>Vinduesdør</b>
Åbningsretning	-	-	Udadgående	Udadgående	Udadgående	Udadgående	Udadgående	Udadgående
<b>4.2 Resistance to wind load / Modstandsevne overfor vindlast</b>	<b>4C (1600Pa)</b>	<b>NPD</b>	<b>4B (1600Pa)</b>	<b>4C (1600Pa)</b>	<b>4C (1600Pa)</b>	<b>4C (1600Pa)</b>	<b>4C (1600Pa)</b>	<b>4C (1600Pa)</b>
Test and Classification / Test og klassifikation	EN 12211:2000 EN 12210:2000		EN 12211:2000 EN 12210:2000	EN 12211:2000 EN 12210:2000	EN 12211:2000 EN 12210:2000	EN 12211:2000 EN 12210:2000	EN 12211:2000 EN 12210:2000	EN 12211:2000 EN 12210:2000
Notified body / notificeret organ	NB 1314		NB 1314	NB 1314	NB 1314	NB 1314	NB 1314	NB 1314
Test report, issue date (element size) / Test rapport, udgivelsesdato, (element størrelse)	Chilt/P12056/11 February 2013 (2490*2400)		Chilt/P12056/09 February 2013 (1797*1568)	Chilt/P12056/10 February 2013 (935*1800)	Chilt/P12056/13 February 2013 (1000*1600)	Chilt/P12056/13 February 2013 (1000*1600)	Chilt/P12056/22 February 2013 (1600*1600)	Chilt/P12056/17 February 2013 (2340*2400)
<b>4.5 Watertightness / Vandtæthed</b>	<b>9A (600Pa)</b>	<b>NPD</b>	<b>9A (600Pa)</b>	<b>9A (600Pa)</b>	<b>9A (600Pa)</b>	<b>9A (600Pa)</b>	<b>9A (600Pa)</b>	<b>9A (600Pa)</b>
Test and Classification / Test og klassifikation	EN 1027:2000 EN 12208:2000		EN 1027:2000 EN 12208:2000	EN 1027:2000 EN 12208:2000	EN 1027:2000 EN 12208:2000	EN 1027:2000 EN 12208:2000	EN 1027:2000 EN 12208:2000	EN 1027:2000 EN 12208:2000
Notified body / notificeret organ	NB 1314		NB 1314	NB 1314	NB 1314	NB 1314	NB 1314	NB 1314
Test report, issue date (element size) / Test rapport, udgivelsesdato, (element størrelse)	Chilt/P12056/11 February 2013 (2490*2400)		Chilt/P12056/09 February 2013 (1797*1568)	Chilt/P12056/10 February 2013 (935*1800)	Chilt/P12056/13 February 2013 (1000*1600)	Chilt/P12056/13 February 2013 (1000*1600)	Chilt/P12056/22 February 2013 (1600*1600)	Chilt/P12056/17 February 2013 (2340*2400)
<b>4.8 Load-bearing capacity of safety devices / Sikkerhedsudstyrs bæreevne</b>	<b>N/A</b>	<b>N/A</b>	<b>Passed (optional)</b>	<b>Passed (optional)</b>	<b>Passed (optional)</b>	<b>Passed (optional)</b>	<b>Passed (optional)</b>	<b>Passed (optional)</b>
Test and Classification / Test og klassifikation			EN 14609:2004 EN 14351-1 Clause 4.8	EN 14609:2004 EN 14351-1 Clause 4.8	EN 14609:2004 EN 14351-1 Clause 4.8	EN 14609:2004 EN 14351-1 Clause 4.8	EN 14609:2004 EN 14351-1 Clause 4.8	EN 14609:2004 EN 14351-1 Clause 4.8
Notified body / notificeret organ			NB 1314	NB 1314	NB 1314	NB 1314	NB 1314	NB 1314
Test report, issue date (element size) / Test rapport, udgivelsesdato, (element størrelse)			Chilt/P13059 Marts 2013	Chilt/P13059 Marts 2013	Chilt/P13059 Marts 2013	Chilt/P13059 Marts 2013	Chilt/P12056/12 February 2013 (1800*1600) Chilt/P13059 Marts 2013	Chilt/P13059 Marts 2013
<b>4.11 Acoustic performance / Akustisk ydeevne (element size: 1230*1480)</b>	<b>NPD</b>	<b>See table below, Se tabel nedenfor Rw (C;Ctr)</b>						<b>NPD</b>
Test and Classification / Test og klassifikation		EN ISO 10140-2:2010, EN ISO 717-1						
Notified body / notificeret organ		NB 1314						
Test report, issue date / Test rapport, udgivelsesdato		Chilt/Z12014/04, Chilt/Z12014/13, November 2012						
4/0.76/4-12-6-12-4/0.76/4 Sound safety energy/Clear/Sound safety energy WE w. Argon		43 (-1;-6) dB	43 (-1;-6) dB	43 (-1;-6) dB	43 (-1;-6) dB	43 (-1;-6) dB	43 (-1;-6) dB	43 (-1;-6) dB
6-16-4-14-4/0.76/4 Energy/Clear/Sound safety energy WE w. Argon		42 (-1;-4) dB	42 (-1;-4) dB	42 (-1;-4) dB	42 (-1;-4) dB	42 (-1;-4) dB	42 (-1;-4) dB	42 (-1;-4) dB
4-18-4-16-3/0.38/3 Energy safety/Clear/Energy safety WE w. Argon		39 (-1;-5) dB	39 (-1;-5) dB	39 (-1;-5) dB	39 (-1;-5) dB	39 (-1;-5) dB	39 (-1;-5) dB	39 (-1;-5) dB
4-16-4-16-4/0.76/4 Energy/Clear/Sound safety energy WE w. Argon		41 (-1;-5) dB	41 (-1;-5) dB	41 (-1;-5) dB	41 (-1;-5) dB	41 (-1;-5) dB	41 (-1;-5) dB	41 (-1;-5) dB
3/0.76/3-14-6-12-4/0.76/4 Energy safety/Clear/Sound safety energy WE		42 (-1;-4) dB	42 (-1;-4) dB	42 (-1;-4) dB	42 (-1;-4) dB	42 (-1;-4) dB	42 (-1;-4) dB	42 (-1;-4) dB
4-18-4-18-4 Energy/Clear/Energy WE w. Argon		34 (-1;-5) dB	34 (-1;-5) dB	34 (-1;-5) dB	34 (-1;-5) dB	34 (-1;-5) dB	34 (-1;-5) dB	34 (-1;-5) dB
4-18-4-16-6 Energy/Clear/Energy WE w. Argon		38 (-1;-6) dB	38 (-1;-6) dB	38 (-1;-6) dB	38 (-1;-6) dB	38 (-1;-6) dB	38 (-1;-6) dB	38 (-1;-6) dB
4-16-4-14-4/1.52/4 Energy/Clear/Energy safety WE w. Argon		40 (-1;-5) dB	40 (-1;-5) dB	40 (-1;-5) dB	40 (-1;-5) dB	40 (-1;-5) dB	40 (-1;-5) dB	40 (-1;-5) dB
3/0.76/3-18-4-16-4 Energy safety/Clear/Energy WE w. Argon		39 (-1;-4) dB	39 (-1;-4) dB	39 (-1;-4) dB	39 (-1;-4) dB	39 (-1;-4) dB	39 (-1;-4) dB	39 (-1;-4) dB
Note	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, Table E.2, Note d							
Note	Termisk transmissionskoefficient (4.12) og strålingsegenskaber (4.13) for et specifikt produkt er angivet på tilbud/ordrebekræftelser i overensstemmelse med EN14351-1:2006+A1:2010, Tabel E.2, Note d							
<b>4.12 Thermal transmittance / Termisk transmissionskoefficient (element size: 1230*1480. VELFAC standard pane)</b>	<b>0,7 (W/m2K)</b>	<b>0,8 (W/m2K)</b>	<b>0,8 (W/m2K)</b>	<b>0,8 (W/m2K)</b>	<b>0,8 (W/m2K)</b>	<b>0,8 (W/m2K)</b>	<b>0,8 (W/m2K)</b>	<b>0,8 (W/m2K)</b>
Test and Classification / Test og klassifikation	EN 14351-1:2006 +A1:2010, EN ISO 10077-2:2003	EN 14351-1:2006 +A1:2010, EN ISO 10077-2:2003	EN 14351-1:2006 +A1:2010, EN ISO 10077-2:2003	EN 14351-1:2006 +A1:2010, EN ISO 10077-2:2003	EN 14351-1:2006 +A1:2010, EN ISO 10077-2:2003	EN 14351-1:2006 +A1:2010, EN ISO 10077-2:2003	EN 14351-1:2006 +A1:2010, EN ISO 10077-2:2003	EN 14351-1:2006 +A1:2010, EN ISO 10077-2:2003
Notified body / notificeret organ	NB 1235	NB 1235	NB 1235	NB 1235	NB 1235	NB 1235	NB 1235	NB 1235
Test report, issue date / Test rapport, udgivelsesdato	432258 Velfac VRibo alu 3 lags glas ITT 2011-05-10	432258 Velfac VRibo alu 3 lags glas ITT 2011-05-10	432258 Velfac VRibo alu 3 lags glas ITT 2011-05-10	432258 Velfac VRibo alu 3 lags glas ITT 2011-05-10	432258 Velfac VRibo alu 3 lags glas ITT 2011-05-10	432258 Velfac VRibo alu 3 lags glas ITT 2011-05-10	432258 Velfac VRibo alu 3 lags glas ITT 2011-05-10	432258 Velfac VRibo alu 3 lags glas ITT 2011-05-10
<b>4.13 Radiation properties / Strålingsegenskaber</b>	<b>g 0,50 LT 0,72</b>	<b>g 0,50 LT 0,72</b>	<b>g 0,50 LT 0,72</b>	<b>g 0,50 LT 0,72</b>	<b>g 0,50 LT 0,72</b>	<b>g 0,50 LT 0,72</b>	<b>g 0,50 LT 0,72</b>	<b>g 0,50 LT 0,72</b>

<b>4.14 Air permeability / Lufttæthed</b>	<b>4 (600Pa)</b>	<b>NPD</b>	<b>4 (600Pa)</b>	<b>4 (600Pa)</b>	<b>4 (600Pa)</b>	<b>4 (600Pa)</b>	<b>4 (600Pa)</b>	<b>4 (600Pa)</b>	<b>4 (600Pa)</b>
Test and Classification / Test og klassifikation	EN 1026:2000 EN 12207:2000		EN 1026:2000 EN 12207:2000	EN 1026:2000 EN 12207:2000	EN 1026:2000 EN 12207:2000	EN 1026:2000 EN 12207:2000	EN 1026:2000 EN 12207:2000	EN 1026:2000 EN 12207:2000	EN 1026:2000 EN 12207:2000
Notified body / notificeret organ	NB 1314		NB 1314	NB 1314	NB 1314	NB 1314	NB 1314	NB 1314	NB 1314
Test report, issue date (element size) / Test rapport, udgivelsesdato, (element størrelse)	Chilt/P12056/11 February 2013 (2490*2400)		Chilt/P12056/09 February 2013 (1797*1568)	Chilt/P12056/10 February 2013 (935*1800)	Chilt/P12056/13 February 2013 (1000*1600)	Chilt/P12056/13 February 2013 (1000*1600)	Chilt/P12056/13 February 2013 (1000*1600)	Chilt/P12056/22 February 2013 (1600*1600)	Chilt/P12056/17 February 2013 (2340*2400)
<b>4.16 Operating forces / Betjeningskraft</b>	<b>N/A</b>	<b>N/A</b>	<b>Class 1</b>	<b>Class 1</b>	<b>Class 1</b>	<b>Class 1</b>	<b>Class 1</b>	<b>Class 1</b>	<b>Class 1</b>
Test and Classification / Test og klassifikation			EN 12046-1:2003 EN 13115:2001	EN 12046-1:2003 EN 13115:2001	EN 12046-1:2003 EN 13115:2001	EN 12046-1:2003 EN 13115:2001	EN 12046-1:2003 EN 13115:2001	EN 12046-1:2003 EN 13115:2001	EN 12046-1:2003 EN 13115:2001
Notified body / notificeret organ			NB 1314	NB 1314	NB 1314	NB 1314	NB 1314	NB 1314	NB 1314
Test report, issue date (element size) / Test rapport, udgivelsesdato, (element størrelse)			Chilt/P12056/09 February 2013 (1797*1568)	Chilt/P12056/10 February 2013 (935*1800)	Chilt/P12056/13 February 2013 (1000*1600)	Chilt/P12056/13 February 2013 (1000*1600)	Chilt/P12056/13 February 2013 (1000*1600)	Chilt/P12056/12 February 2013 (1800*1600)	Chilt/P12056/15 February 2013 (1835*1800)
<b>4.17 Mechanical strength / Mekanisk styrke</b>	<b>N/A</b>	<b>N/A</b>	<b>Class 3</b>	<b>Class 3</b>	<b>Class 3</b>	<b>Class 3</b>	<b>Class 3</b>	<b>Class 3</b>	<b>Class 3</b>
Test and Classification / Test og klassifikation			EN 14608:2004 EN 14609:2004 EN 13115:2001	EN 14608:2004 EN 14609:2004 EN 13115:2001	EN 14608:2004 EN 14609:2004 EN 13115:2001	EN 14608:2004 EN 14609:2004 EN 13115:2001	EN 14608:2004 EN 14609:2004 EN 13115:2001	EN 14608:2004 EN 14609:2004 EN 13115:2001	EN 14608:2004 EN 14609:2004 EN 13115:2001
Notified body / notificeret organ			NB 1314	NB 1314	NB 1314	NB 1314	NB 1314	NB 1314	NB 1314
Test report, issue date (element size) / Test rapport, udgivelsesdato, (element størrelse)			Chilt/P12056/09 February 2013 (1797*1568)	Chilt/P12056/10 February 2013 (935*1800)	Chilt/P12056/13 February 2013 (1000*1600)	Chilt/P12056/13 February 2013 (1000*1600)	Chilt/P12056/13 February 2013 (1000*1600)	Chilt/P12056/12 February 2013 (1800*1600)	Chilt/P12056/15 February 2013 (1835*1800)
<b>4.21 Resistance to repeated opening and closing / Modstandsevne for gentagen åbning og lukning</b>	<b>N/A</b>	<b>N/A</b>	<b>Class 3 (20.000)</b>	<b>Class 3 (20.000)</b>	<b>Class 3 (20.000)</b>	<b>Class 3 (20.000)</b>	<b>Class 3 (20.000)</b>	<b>Class 3 (20.000)</b>	<b>Class 3 (20.000)</b>
Test and Classification / Test og klassifikation			EN 1191:2000 EN 12400:2002	EN 1191:2000 EN 12400:2002	EN 1191:2000 EN 12400:2002	EN 1191:2000 EN 12400:2002	EN 1191:2000 EN 12400:2002	EN 1191:2000 EN 12400:2002	EN 1191:2000 EN 12400:2002
Notified body / notificeret organ			NB 1314	NB 1314	NB 1314	NB 1314	NB 1314	NB 1314	NB 1314
Test report, issue date (element size) / Test rapport, udgivelsesdato, (element størrelse)			Chilt/P12056/09 February 2013 (1797*1568)	Chilt/P12056/10 February 2013 (935*1800)	Chilt/P12056/13 February 2013 (1000*1600)	Chilt/P12056/13 February 2013 (1000*1600)	Chilt/P12056/13 February 2013 (1000*1600)	Chilt/P12056/12 February 2013 (1800*1600)	Chilt/P12056/15 February 2013 (1835*1800)