

## Declaration of Performance / Ydeevnedeklaration VELFAC 200 Helo A

The performance of the Windows, Patio doors and Sliding doors in the product serie VELFAC 200 Helo 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, Terrassedøre og Skydedøre i produktserien VELFAC 200 Helo 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 Byggevarere type	Windows, Patio doors and Sliding doors Facadevinduer, Terrassedøre og Skydedøre
Construction product identification Byggevarere identifikation	VELFAC 200 Helo A
Intended use Byggevarerens 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
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 byggevarerens 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
<b>SP Technical Research Institute of Sweden</b> , Box 857, SE-501 15 Borås, Sweden	NB 0402

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200HA-01-GH

	V210 Helo	V212 Helo	V201 Helo	V207 Helo	V229 Helo	V231 Helo	
<b>Element type</b>	<b>Fixed window</b>	<b>Tophung projecting</b>	<b>Sidehung</b>	<b>Sidehung projecting</b>	<b>Reversible</b>	<b>Window door</b>	
Opening direction	-	Outward	Outward	Outward	Outward	Outward	
<b>Element type</b>	<b>Fast vindue</b>	<b>Topstyret</b>	<b>Sidehængt</b>	<b>Sidestyret</b>	<b>Vendevindue</b>	<b>Vinduesdør</b>	
Åbningsretning	-	Udadgående	Udadgående	Udadgående	Udadgående	Udadgående	
<b>4.2 Resistance to wind load / Modstandsevne overfor vindlast</b>	<b>1600Pa (C4)</b>	<b>1600Pa (C4)</b>	<b>1600Pa (C4)</b>	<b>NPD</b>	<b>NPD</b>	<b>1600Pa (C4)</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	
Notified body / notificeret organ	NB 1314	NB 1314	NB 1314			NB 1314	
Test report, issue date / Test rapport, udgivelsesdato	Chilt/P12056/05 November 2012	Chilt/P12056/05 November 2012	Chilt/P12056/05 November 2012			Chilt/P12056/05 November 2012	
<b>4.5 Watertightness / Vandtæthed</b>	<b>600Pa (9A)</b>	<b>600Pa (9A)</b>	<b>600Pa (9A)</b>	<b>NPD</b>	<b>NPD</b>	<b>600Pa (9A)</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	
Notified body / notificeret organ	NB 1314	NB 1314	NB 1314			NB 1314	
Test report, issue date / Test rapport, udgivelsesdato	Chilt/P12056/05 November 2012	Chilt/P12056/05 November 2012	Chilt/P12056/05 November 2012			Chilt/P12056/05 November 2012	
<b>4.8 Load-bearing capacity of safety devices / Sikkerhedsudstyrs bæreevne</b>	<b>N/A</b>	<b>Passed (optional)</b>	<b>Passed (optional)</b>	<b>Passed (optional)</b>	<b>Passed / bestået</b>	<b>Passed (optional)</b>	
Test and Classification / Test og klassifikation		EN 14351-1 Clause 4.8 EN14609:2004	EN 14351-1 Clause 4.8 EN14609:2004	EN 14351-1 Clause 4.8 EN14609:2004	EN 14351-1 Clause 4.8 EN14609:2004	EN 14351-1 Clause 4.8 EN14609:2004	
Notified body / notificeret organ		NB 1314	NB 1314	NB 1314	NB 1314	NB 1314	
Test report, issue date / Test rapport, udgivelsesdato		Chilt/P12056/20 November 2012	Chilt/P12056/20 November 2012	Chilt/P12056/20 November 2012	Chilt/P12056/20 November 2012	Chilt/P12056/20 November 2012	
<b>4.11 Acoustic performance / Akustisk ydeevne</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/Z12014/10/ Rev1., November 2012					
4/0.76/4-12-6-12-4/0.76/4 Sound safety energy/Clear/Sound safety energy WE w. Argon		42 (-1;-4) dB	42 (-1;-4) dB	42 (-1;-4) dB	42 (-1;-4) dB		
3/0.76/3-18-4-16-4 Energy safety/Clear/Sound safety energy WE w. Argon		37 (-1;-5) dB	37 (-1;-5) dB	37 (-1;-5) dB	37 (-1;-5) dB		
3/0.76/3-14-6-12-4/0.76/4 Energy safety/Clear/Sound safety energy W. Argon		40 (-1;-5) dB	40 (-1;-5) dB	40 (-1;-5) dB	40 (-1;-5) dB		
4-18-4-16-6 Energy/Clear/EnergyWE w. Argon		36 (-1;-5) dB	36 (-1;-5) dB	36 (-1;-5) dB	36 (-1;-5) 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		
4-18-4-16-3/0.38/3 Energy/Clear/Energy safety WE w. Argon		37 (-1;-5) dB	37 (-1;-5) dB	37 (-1;-5) dB	37 (-1;-5) dB		
6-14-6-14-4/0.76/4 Energy/Clear/Sound safety energy WE w. Argon		37 (0;-3) dB	37 (0;-3) dB	37 (0;-3) dB	37 (0;-3) dB		
4-16-4-16-4/0.76/4 Energy/Clear/Sound safety energy WE w. Argon		37 (0;-5) dB	37 (0;-5) dB	37 (0;-5) dB	37 (0;-5) dB		
6-16-4-14-4/0.76/4 Energy/Clear/Sound safety energy WE w. Argon		37 (-1;-5) dB	37 (-1;-5) dB	37 (-1;-5) dB	37 (-1;-5) dB		
4/1.52/4-16-4-14-4 Energy safety/Clear/Energy safety WE w. Argon		37 (0;-4) dB	37 (0;-4) dB	37 (0;-4) dB	37 (0;-4) dB		
<b>4.12 Thermal transmittance / Termisk transmissionskoefficient</b>	<b>0,84 (W/m2K)</b>	<b>0,84 (W/m2K)</b>	<b>0,84 (W/m2K)</b>	<b>0,84 (W/m2K)</b>	<b>0,84 (W/m2K)</b>	<b>0,84 (W/m2K)</b>	
Test and Classification / Test og klassifikation	EN 10077-2	EN 10077-2	EN 10077-2	EN 10077-2	EN 10077-2	EN 10077-2	
Notified body / notificeret organ	NB 1235	NB 1235	NB 1235	NB 1235	NB 1235	NB 1235	
Test report, issue date / Test rapport, udgivelsesdato	451130 Velfac V200 Helo ITT 2011-10-12	451130 Velfac V200 Helo ITT 2011-10-12	451130 Velfac V200 Helo ITT 2011-10-12	451130 Velfac V200 Helo ITT 2011-10-12	451130 Velfac V200 Helo ITT 2011-10-12	451130 Velfac V200 Helo ITT 2011-10-12	
<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>4.14 Air permeability / Lufttæthed</b>	<b>600Pa (4)</b>	<b>600Pa (4)</b>	<b>600Pa (4)</b>	<b>NPD</b>	<b>NPD</b>	<b>600Pa (4)</b>	
Test and Classification / Test og klassifikation	EN1026:2000 EN12207:2000	EN1026:2000 EN12207:2000	EN1026:2000 EN12207:2000			EN1026:2000 EN12207:2000	
Notified body / notificeret organ	NB 1314	NB 1314	NB 1314			NB 1314	
Test report, issue date / Test rapport, udgivelsesdato	Chilt/P12056/05 November 2012	Chilt/P12056/05 November 2012	Chilt/P12056/05 November 2012			Chilt/P12056/05 November 2012	

4.18 Ventilation	See table below, Se tabel nedenfor						
Test and Classification / Test og klassifikation	EN 13141-1:2004	EN 13141-1:2004	EN 13141-1:2004	EN 13141-1:2004	EN 13141-1:2004	EN 13141-1:2004	
Notified body / notificeret organ	NB 0402	NB 0402	NB 0402	NB 0402	NB 0402	NB 0402	
Test report, issue date / Test rapport, udgivelsesdato	ETk P802670-A 2008-05-25	ETk P802670-A 2008-05-25	ETk P802670-A 2008-05-25	ETk P802670-A 2008-05-25	ETk P802670-A 2008-05-25	ETk P802670-A 2008-05-25	

4.18 Ventilation - Independent on opening function / Uafhængig af åbnefunktion		
Clickvent placed in head / Friskluftventil placeret i overkarm		
Characteristics for airflow / Egenskab for luftstrøm: K		1,8723
Airflow index / LuftstrømsekspONENT: n		0,5243
Airflow volume / Volumenluftstrømme:	Pressure drop (Pa)	Airflow (m3/h)
	4,2	14,3
	8,5	21,0
	10,4	23,1
	20,8	33,5
Clickvent placed in jump / Friskluftventil placeret i sidekarm		
Characteristics for airflow / Egenskab for luftstrøm: K		2,1954
Airflow index / LuftstrømsekspONENT: n		0,5129
Airflow volume / Volumenluftstrømme:	Pressure drop (Pa)	Airflow (m3/h)
	4,1	16,2
	8,1	23,2
	10,2	26,1
	20,6	37,0