



Harmonised Product Standard

EN 14351-1:2006 +A2:2016

Declaration of Performance

Type of construction product:
Facade windows and Casement doors

Rationel FORMAPLUS
triple-glazed

DOP no.:

W-EL-20250201

The performance of the Facade windows and Casement doors in the product line Rationel FORMAPLUS; 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:

23 januar 2025

Signed on behalf of DOVISTA A/S

Horsens



Allan Lindhard Jørgensen
CEO, DOVISTA A/S

Declaration of Performance Rationel FORMAPLUS; triple-glazed

	4.2 Resistance to windload	4.5 Water tightness	4.6 Dangerous substances	4.8 Load bearing capacity of safety devices	4.11 Acoustic performance	4.12 * Thermal transmittance	4.13 * Radiation properties	4.14 Air permeability
Opening function								
CDO	Casement door, 1-leaf							
Declared value	Class C4 (1600 Pa)	Class 9A (600 Pa)	None	(350N/60s), optional	NPD	0,80 (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	-	EN ISO 10077-2: 2003/2012	-	EN 1026:2016
Notified body	NB 1235	NB 1235	-	NB 1235	-	NB 1235	-	NB 1235
Test report	DTI/268669-6/2024-Okt.	DTI/268669-6/2024-Okt.	-	DTI/202289-02/2024-Feb.	-	0108/682833R, 2016-02-10	0108/682833R, 2016	DTI/268669-6/2024-Okt.
Tested size (mm), WxH	970 x 2000	970 x 2000	-	1200 x 2400	-	1230 x 1480	-	970 x 2000
CDO-2								
CDO-2	Casement door, 2-leaf							
Declared value	Class B4 (1600 Pa)	Class 9A (600 Pa)	None	N/A	NPD	0,80 (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 ISO 10077-2: 2003/2012	-	EN 1026:2016
Notified body	NB 1235	NB 1235	-	-	-	NB 1235	-	NB 1235
Test report	DTI/268669-5/2024-Okt.	DTI/268669-5/2024-Okt.	-	-	-	0108/682833R, 2016-02-10	0108/682833R, 2016	DTI/268669-5/2024-Okt.
Tested size (mm), WxH	1900 x 2000	1900 x 2000	-	-	-	1230 x 1480	-	1900 x 2000
FC								
FC	Fixed casement							
Declared value	Class C4 (1600 Pa)	Class 9A (600 Pa)	None	N/A	**	0,80 (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/268671-2/2024-Nov.	DTI/268671-2/2024-Nov.	-	-	**	0108/679830R, 2016-02-26	0108/679830R, 2016	DTI/268671-2/2024-Nov.
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 Rationel FORMAPLUS; triple-glazed

	4.2 Resistance to windload	4.5 Water tightness	4.6 Dangerous substances	4.8 Load bearing capacity of safety devices	4.11 Acoustic performance	4.12 * Thermal transmittance	4.13 * Radiation properties	4.14 Air permeability
Opening function								
FL	Fixed light							
Declared value	Class C4 (1600 Pa)	Class 9A (600 Pa)	None	N/A	NPD	0,72 (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 ISO 10077-2: 2003/2012	-	EN 1026:2016
Notified body	NB 1235	NB 1235	-	-	-	NB 1235	-	NB 1235
Test report	DTI/202289-22/2024-Feb.	DTI/202289-22/2024-Feb.	-	-	-	0108/679830R, 2016-02-26	0108/679830R, 2016	DTI/202289-22/2024-Feb.
Tested size (mm), WxH	2500 x 2000	2500 x 2000	-	-	-	1230 x 1480	-	2500 x 2000
SGO	Side-guided window							
Declared value	Class C4 (1600 Pa)	Class 9A (600 Pa)	None	(350N/60s), optional	**	0,80 (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.	**	0108/679830R, 2016-02-26	0108/679830R, 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	**	0,80 (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.	**	0108/679830R, 2016-02-26	0108/679830R, 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

*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 Rationel FORMAPLUS; triple-glazed

	4.2 Resistance to windload	4.5 Water tightness	4.6 Dangerous substances	4.8 Load bearing capacity of safety devices	4.11 Acoustic performance	4.12 * Thermal transmittance	4.13 * Radiation properties	4.14 Air permeability
Opening function								
SHRO	Sidehung fully reversible window							
Declared value	Class C4 (1600 Pa)	Class 9A (600 Pa)	None	(350N/60s), optional	**	0,80 (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.	**	0108/679830R, 2016-02-26	0108/679830R, 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
TGO	Top-guided window							
Declared value	Class C4 (1600 Pa)	Class 9A (600 Pa)	None	(350N/60s), optional	**	0,80 (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.	**	0108/679830R, 2016-02-26	0108/679830R, 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	**	0,80 (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.	**	0108/679830R, 2016-02-26	0108/679830R, 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 Rationel FORMAPLUS; triple-glazed

** 4.11 Acoustic performance - Rw (C;Ctr)

Glass / Panels	Test report	Opening window	Internal sash 6mm	Internal sash 10mm
4-18-4-18-4 Energy/Clear/Energy WE w. Argon	O100282-1254305 B	34 (-2;-6)	-	-
6-16-4-14-8,8 Energy/Clear/Laminated Sound Energy WE w. Argon	O100282-1254305 B	42 (-2;-6)	-	-
8,8-12-6-12-9,5 Energy lam. Sound/Clear/Laminated Energy WE w. Argon	O100282-1254305 B	44 (-1;-4)	-	-
6-16-6-14-6 Energy Std/Clear/Energy Std WE Grey W/Argon	O100282-1254305 B	36 (-2;-6)	-	-
8-14-4-14-8,8 Energy/Clear/Laminated Sound Energy WE w. Argon	O100282-1254305 B	42 (-1;-3)	-	-
8,8-14-4-12-9,5 Energy Lam. Sound/Clear/Laminated Energy WE w. Argon	O100282-1254305 B	43 (-1;-4)	-	-
4-18-4-16-6 Energy/Clear/Energy WE w. Argon	O100282-1254305 B	37 (-2;-6)	-	-
4-18-4-16-6,4 Energy/Clear/Laminated Energy WE w. Argon	O100282-1254305 B	38 (-2;-6)	-	-
6-14-6-14-8,8 Energy/Clear/Laminated Sound Energy WE w. Argon	O100282-1254305 B	41 (-1;-5)	-	-
4-18-4-16-6,8 Energy/Clear/Laminated Energy WE w. Argon	O100282-1254305 B	38 (-2;-6)	-	-
8-14-6-12-8,8 Energy/Clear/Laminated Sound Energy WE w. Argon	O100282-1254305 B	42 (-1;-3)	-	-
52mm - ALU/HDF sandwich panel	O100282-1282275 F	31 (-1;-3)	-	-
2mm aluminium, ventilated 140/148mm Frame (100mm Insulation)	O100282-1282275 F	49 (-2;-6)	-	-
2mm aluminium, ventilated 115/123mm Frame (100mm Insulation)	O100282-1282275 F	45 (-3;-9)	-	-
2mm aluminium, ventilated 115/123mm Frame (70mm Insulation)	O100282-1282275 F	45 (-2;-8)	-	-