

**rationel**<sup>®</sup>www.rationel.dk/DOP  
www.rationel.co.uk/DOP  
www.rationel.ie/DOP**Declaration of Performance / Ydeevnedeklaration      Rationel AURA, double glazed / to-lags**

Date / Dato      Herning, 2013/07/01

Revision      DOP-EC-2013/07/01

The performance of the facade windows and the facade doors in the product serie Rationel AURA, double glazed / to-lags are in conformity with the declared in following pages.

This declaration of performance is issued under the sole responsibility of Rationel Vinduer A/S.

Ydeevnen for facadevinduerne og facadedøre i produktserien Rationel AURA, double glazed / to-lags er i overensstemmelse med de deklarerede ydeevner i tabellerne på de følgende sider.

Denne ydeevnedeklaration udstedes på eneansvar af Rationel Vinduer A/S.

Signed on behalf of Rationel Vinduer A/S:

Underskrevet på vegne af Rationel Vinduer A/S:

**Kurt Bering Sørensen**  
CEO, Administrerende Direktør

**Harmonised technical specification****EN 14351-1:2006 +A1:2010****Harmoniseret teknisk specifikation**

Type of construction product

facade windows and the facade doors

Byggevaretype

facadevinduerne og facadedøre

Construction product identification

**Rationel AURA, double glazed / to-lags**

Byggevareidentifikation

Intended use

For domestic and commercial buildings

Byggevarens tilsigtede anvendelse

Til boliger og erhvervsbygninger

Manufacturer

**Rationel Vinduer A/S**

Producent

Manufacturer, adress

Dalgas Allé 7, 7400 Herning, DK - Denmark

Producent, adresse

Name and address of authorised representative

N/A

Navn og adresse på bemyndiget repræsentant

System of assessment and verification of constancy of performance of the construction product

(AVCP) System 3

Systemerne for vurdering af kontrol af konstansen af byggevarens ydeevne

**Notified Bodies / Notificerede organer****Chiltern Dynamics,**Chiltern House, Stocking Lane, Hughenden Valley,  
High Wycombe, HP14 4ND, United Kingdom**NB 1314****Teknologisk Institut,**

Teknologiparken, Kongsvang Allé 29, 8000 Århus C, Danmark

**NB 1235**

**Declaration of Performance / Ydeevnedeklaration Rationel AURA, double glazed / to-lags** **DOP-EC-2013/07/01**

Element type	Fixed window	Topguided	Sidehung	Sideguided	Sideswing	Fully reversible	Window door
Opening direction	-	Outward	Outward	Outward	Outward	Outward	Outward
Element type	Fast vindue	Topstyret	Sidehængt	Sidestyret	Sidevende	Vendevindue	Vinduesdør
Åbningsretning	-	Udadgående	Udadgående	Udadgående	Udadgående	Udadgående	Udadgående
<b>4.2 Resistance to wind load / Modstandsevne overfor vindlast</b>	<b>1600Pa (4C)</b>	<b>1600Pa (4B)</b>	<b>1600Pa (4B)</b>	<b>1600Pa (4C)</b>	<b>1600Pa (4C)</b>	<b>1600Pa (4C)</b>	<b>1600Pa (4C)</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 / noticeret organ	NB 1314	NB 1314	NB 1314	NB 1314	NB 1314	NB 1314	NB 1314
Test report, issue date / Test rapport, udgivelsesdato	Chilt/p12056/11 February 2013	Chilt/P12056/09/A 2013-02-13	Chilt/P12056/10 February 2013	Chilt/p12056/13 February 2013	Chilt/p12056/13 February 2013	Chilt/P12056/22 2013-02-13	Chilt/P12056/17 February 2013
<b>4.5 Watertightness / Vandtæthed</b>	<b>600Pa (9A)</b>	<b>600Pa (9A)</b>	<b>600Pa (9A)</b>	<b>600Pa (9A)</b>	<b>600Pa (9A)</b>	<b>600Pa (9A)</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	EN 1027:2000 EN 12208:2000	EN 1027:2000 EN 12208:2000	EN 1027:2000 EN 12208:2000
Notified body / noticeret organ	NB 1314	NB 1314	NB 1314	NB 1314	NB 1314	NB 1314	NB 1314
Test report, issue date / Test rapport, udgivelsesdato	Chilt/p12056/11 February 2013	Chilt/P12056/09/A 2013-02-13	Chilt/P12056/10 February 2013	Chilt/p12056/13 February 2013	Chilt/p12056/13 February 2013	Chilt/P12056/22 2013-02-13	Chilt/P12056/17 February 2013
<b>4.8 Load-bearing capacity of safety devices / Sikkerhedsudstørs bæreevne</b>	<b>N/A</b>	<b>Passed (optional)</b>	<b>Passed (optional)</b>	<b>Passed (optional)</b>	<b>Passed (optional)</b>	<b>Passed</b>	<b>N/A</b>
Test and Classification / Test og klassifikation	-	EN14609:2004	EN14609:2004	EN14609:2004	EN14609:2004	EN14609:2004	
Notified body / noticeret organ	-	NB 1314	NB 1314	NB 1314	NB 1314	NB 1314	
Test report, issue date / Test rapport, udgivelsesdato	-	Chilt/P13059, 2013-03-25	Chilt/P13059, 2013-03-25	Chilt/P13059, 2013-03-25	Chilt/P13059, 2013-03-25	Chilt/P12056/12 2013-02-13 Chilt/P13059, 2013-03-13	
<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 10140-2:2010	EN ISO 10140-2:2010	EN ISO 10140-2:2010	EN ISO 10140-2:2010	
Notified body / noticeret organ		NB 1314	NB 1314	NB 1314	NB 1314	NB 1314	
Test report, issue date / Test rapport, udgivelsesdato		Chilt/Z12014/Ac/Ar1	Chilt/Z12014/Ac/Ar1	Chilt/Z12014/Ac/Ar1	Chilt/Z12014/Ac/Ar1	Chilt/Z12014/Ac/Ar1	
4-24-4 Clear/Energi WE w. argon, 321100000		35 (-1;-4) dB	35 (-1;-4) dB	35 (-1;-4) dB	35 (-1;-4) dB	35 (-1;-4) dB	
4-22-6,4 TGH Clear/Laminated Energy WE w. argon, 321120003		39 (-1;-5) dB	39 (-1;-5) dB	39 (-1;-5) dB	39 (-1;-5) dB	39 (-1;-5) dB	
4-22-6,8 TGH Clear/Laminated Energy WE w. argon, 321120004		39 (-1;-5) dB	39 (-1;-5) dB	39 (-1;-5) dB	39 (-1;-5) dB	39 (-1;-5) dB	
6-18-8,8 Clear/Sound Laminated Energy WE w. argon, 321100110		40 (-1;-4) dB	40 (-1;-4) dB	40 (-1;-4) dB	40 (-1;-4) dB	40 (-1;-4) dB	
4-20-8,8 Clear/Sound Laminated Energy WE w. argon, 321100010		40 (-1;-5) dB	40 (-1;-5) dB	40 (-1;-5) dB	40 (-1;-5) dB	40 (-1;-5) dB	
4-22-6 Clear/Energi WE w. argon, 321100001		37 (1;-6) dB	37 (1;-6) dB	37 (1;-6) dB	37 (1;-6) dB	37 (1;-6) dB	
6,8-16-8,8 Laminated Clear / Sound Laminated Energi WE w. argon, 321110310		41 (-1;-4) dB	41 (-1;-4) dB	41 (-1;-4) dB	41 (-1;-4) dB	41 (-1;-4) dB	
4-18-9,5 Clear/Laminated Energy WE w. argon, 321100007		37 (0;-3) dB	37 (0;-3) dB	37 (0;-3) dB	37 (0;-3) dB	37 (0;-3) 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	Thermal transmissionskoefficient (4.12) og strålingsegenskaber (4.13) for et specifikt produkt er angivet på tilbud/ordrebekræftelse i overensstemmelse med EN 14351-1:2006 + A1:2010, Tabel E.2, Note d.						
<b>4.12 Thermal transmittance / Termisk transmissionskoefficient</b>	<b>1,28 (W/m2K)</b>	<b>1,28 (W/m2K)</b>	<b>1,28 (W/m2K)</b>	<b>1,28 (W/m2K)</b>	<b>1,28 (W/m2K)</b>	<b>1,28 (W/m2K)</b>	<b>1,28 (W/m2K)</b>
Test and Classification / Test og klassifikation	EN ISO 10077-2:2011	EN ISO 10077-2:2011	EN ISO 10077-2:2011	EN ISO 10077-2:2011	EN ISO 10077-2:2011	EN ISO 10077-2:2011	EN ISO 10077-2:2011
Notified body / noticeret organ	NB 1235	NB 1235	NB 1235	NB 1235	NB 1235	NB 1235	NB 1235
Test report, issue date / Test rapport, udgivelsesdato	516699 Rationel AURA (2) ITC 2013-05-14	516699 Rationel AURA (2) ITC , 2013-05-14	516699 Rationel AURA (2) ITC , 2013-05-14	516699 Rationel AURA (2) ITC , 2013-05-14	516699 Rationel AURA (2) ITC , 2013-05-14	516699 Rationel AURA (2) ITC , 2013-05-14	516699 Rationel AURA (2) ITC , 2013-05-14
<b>4.13 Radiation properties / Strålingsegenskaber</b>	<b>g 0,63 LT 0,80</b>	<b>g 0,63 LT 0,80</b>	<b>g 0,63 LT 0,80</b>	<b>g 0,63 LT 0,80</b>	<b>g 0,63 LT 0,80</b>	<b>g 0,63 LT 0,80</b>	<b>g 0,63 LT 0,80</b>
<b>4.14 Air permeability / Lufttæthed</b>	<b>600Pa (4)</b>	<b>600Pa (4)</b>	<b>600Pa (4)</b>	<b>600Pa (4)</b>	<b>600Pa (4)</b>	<b>600Pa (4)</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	EN1026:2000 EN12207:2000	EN1026:2000 EN12207:2000	EN1026:2000 EN12207:2000
Notified body / noticeret organ	NB 1314	NB 1314	NB 1314	NB 1314	NB 1314	NB 1314	NB 1314
Test report, issue date / Test rapport, udgivelsesdato	Chilt/p12056/11 February 2013	Chilt/P12056/09/A 2013-02-13	Chilt/P12056/10 February 2013	Chilt/p12056/13 February 2013	Chilt/p12056/13 February 2013	Chilt/P12056/22 2013-02-13	Chilt/P12056/17 February 2013
<b>4.16 Operating forces / Betjeningskraft</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>
Test and Classification / Test og klassifikation		EN12046-1:2003 EN13115:2001	EN12046-1:2003 EN13115:2001	EN12046-1:2003 EN13115:2001	EN12046-1:2003 EN13115:2001	EN12046-1:2003 EN13115:2001	EN12046-1:2003 EN13115:2001
Notified body / noticeret organ		NB 1314	NB 1314	NB 1314	NB 1314	NB 1314	NB 1314
Test report, issue date / Test rapport, udgivelsesdato		Chilt/P12056/09/A 2013-02-13	Chilt/P12056/10 February 2013	Chilt/p12056/13 February 2013	Chilt/p12056/13 February 2013	Chilt/P12056/12 2013-02-13	Chilt/P12056/15 February 2014
<b>4.17 Mechanical strength / Mekanisk styrke</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		EN14608:2004 EN14609:2004 EN13115:2001	EN14608:2004 EN14609:2004 EN13115:2001	EN14608:2004 EN14609:2004 EN13115:2001	EN14608:2004 EN14609:2004 EN13115:2001	EN14608:2004 EN14609:2004 EN13115:2001	EN14608:2004 EN14609:2004 EN13115:2001
Notified body / noticeret organ		NB 1314	NB 1314	NB 1314	NB 1314	NB 1314	NB 1314
Test report, issue date / Test rapport, udgivelsesdato		Chilt/P12056/09/A 2013-02-13	Chilt/P12056/10 February 2013	Chilt/p12056/13 February 2013	Chilt/p12056/13 February 2013	Chilt/P12056/12 2013-02-13	Chilt/P12056/15 February 2014
<b>4.21 Resistance to repeated opening and closing / Modstandsevne for gentagen åbning og lukning</b>	<b>N/A</b>	<b>20.000 Class 3</b>	<b>20.000 Class 3</b>	<b>20.000 Class 3</b>	<b>20.000 Class 3</b>	<b>20.000 Class 3</b>	<b>20.000 Class 3</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
Notified body / noticeret organ		NB 1314	NB 1314	NB 1314	NB 1314	NB 1314	NB 1314
Test report, issue date / Test rapport, udgivelsesdato		Chilt/P12056/09/A 2013-02-13	Chilt/P12056/10 February 2013	Chilt/p12056/13 February 2013	Chilt/p12056/13 February 2013	Chilt/P12056/12 2013-02-13	Chilt/P12056/15 February 2014

<b>Declaration of Performance / Ydeevnedeklaration Rationel AURA, double glazed / to-lags</b>						<b>DOP-EC-2013/07/01</b>
<b>Element type</b>	<b>Terrace door</b>	<b>Terrace door</b>	<b>Entrance door</b>	<b>Entrance door</b>	<b>Panelled door</b>	<b>Panelled door</b>
<b>Opening direction</b>	Inward opening	Outward	Inward opening	Outward	Inward opening	Outward
<b>Element type</b>	<b>Terrassedør</b>	<b>Terrassedør</b>	<b>Rammedør</b>	<b>Rammedør</b>	<b>Pladedør</b>	<b>Pladedør</b>
<b>Åbningsretning</b>	Indadgående	Udadgående	Indadgående	Udadgående	Indadgående	Udadgående
<b>4.2 Resistance to wind load / Modstandsevne overfor vindlast</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>
Test and Classification / Test og klassifikation						
Notified body / noticeret organ						
Test report, issue date / Test rapport, udgivelsesdato						
<b>4.5 Watertightness / Vandtæthed</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>
Test and Classification / Test og klassifikation						
Notified body / noticeret organ						
Test report, issue date / Test rapport, udgivelsesdato						
<b>4.8 Load-bearing capacity of safety devices / Sikkerhedsudstyrs bæreevne</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Test and Classification / Test og klassifikation	-	-	-	-	-	-
Notified body / noticeret organ	-	-	-	-	-	-
Test report, issue date / Test rapport, udgivelsesdato	-	-	-	-	-	-
<b>4.11 Acoustic performance / Akustisk ydeevne</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>
Test and Classification / Test og klassifikation						
Notified body / noticeret organ						
Test report, issue date / Test rapport, udgivelsesdato						
<b>Note</b>	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.					
<b>Note</b>	Thermal transmissionskoefficient (4.12) og strålingsegenskaber (4.13) for et specifikt produkt er angivet på tilbud/ordrebekræftelse i overensstemmelse med EN 14351-1:2006 + A1:2010, Tabel E.2, Note d.					
<b>4.12 Thermal transmittance / Termisk transmissionskoefficient</b>	<b>1,28 (W/m2K)</b>	<b>1,26 (W/m2K)</b>	<b>1,28 (W/m2K)</b>	<b>1,26 (W/m2K)</b>	<b>0,61 (W/m2K)</b>	<b>0,59 (W/m2K)</b>
Test and Classification / Test og klassifikation	EN ISO 10077-2:2003	EN ISO 10077-2:2003	EN ISO 10077-2:2003	EN ISO 10077-2:2003	EN ISO 10077-2:2003	EN ISO 10077-2:2003
Notified body / noticeret organ	NB 1235	NB 1235	NB 1235	NB 1235	NB 1235	NB 1235
Test report, issue date / Test rapport, udgivelsesdato	478300 Rationel - beregningsrap ITT Aura 2-lags, 2012-05-30	478300 Rationel - beregningsrap ITT Aura 2-lags, 2012-05-30	478300 Rationel - beregningsrap ITT Aura 2-lags, 2012-05-30	478300 Rationel - beregningsrap ITT Aura 2-lags, 2012-05-30	478300 Rationel - beregningsrap ITT Aura 2-lags, 2012-05-30	478300 Rationel - beregningsrap ITT Aura 2-lags, 2012-05-30
<b>4.13 Radiation properties / Strålingsegenskaber</b>	<b>g 0,63 LT 0,80</b>	<b>g 0,63 LT 0,80</b>	<b>g 0,63 LT 0,80</b>	<b>g 0,63 LT 0,80</b>	-	-
<b>4.14 Air permeability / Lufttæthed</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>
Test and Classification / Test og klassifikation						
Notified body / noticeret organ						
Test report, issue date / Test rapport, udgivelsesdato						
<b>4.16 Operating forces / Betjeningskraft</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>
Test and Classification / Test og klassifikation						
Notified body / noticeret organ						
Test report, issue date / Test rapport, udgivelsesdato						
<b>4.17 Mechanical strength / Mekanisk styrke</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>
Test and Classification / Test og klassifikation						
Notified body / noticeret organ						
Test report, issue date / Test rapport, udgivelsesdato						
<b>4.21 Resistance to repeated opening and closing / Modstandsevne for gentagen åbning og lukning</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>	<b>NPD</b>
Test and Classification / Test og klassifikation						
Notified body / noticeret organ						
Test report, issue date / Test rapport, udgivelsesdato						