



Technical Information

arimeo window rebate vents

classic

A new era for window rebate vents

Requirements for home ventilation have increased and proven solutions are reaching the limits of their capacity. The future of discreet ventilation solutions lies in precise technology and compact design.

arimeo – the new window rebate vent from INNOPERFORM®.



1

Why arimeo.....	4
The new era of window rebate vents.....	5
Even for high volumes of air invisible and self-adjusting.....	6
Positioned regardless of any window hardware.....	8
Precise air flow control.....	10
A window rebate vent that convinces due to its simplicity.....	12

2

Standards-compliant ventilation with arimeo.....	14
Principles of home ventilation.....	15
EnEV.....	15
DIN 1946-6 home ventilation.....	16
DIN 18017-3 ventilation of bathrooms without outside window.....	18
DVGW-TRGI combustion air supply.....	18
Planning assistance by INNOPERFORM®.....	20

3

arimeo classic S (for uPVC windows).....	22
Product description.....	23
How it works.....	24
Performance data of arimeo classic S.....	26
Installation variants of arimeo classic S.....	28
Installation instruction arimeo classic S.....	32
Compatible window systems.....	34
Identification of the type of arimeo classic S.....	36
Text for tender.....	37
Test evidences.....	38

4

arimeo classic T (for timber windows).....	40
Product description.....	41
How it works.....	42
Performance data of arimeo classic T.....	44
Test evidences.....	45
Installation variants of arimeo classic T.....	46
Installation instruction arimeo classic T.....	48
Text for tender.....	50

Why arimeo

Fresh air - the elixir of life in our homes. We need it to breathe and to protect our buildings. Therfor, right balance is essential for ventilation. That is the only way to keep wind and weather outside, while having the feel-good climate inside. If fresh air is just always around, then "someone" is taking care of the essentials completely unnoticed. **arimeo – pure balance.**



The new era of window rebate vents

Window rebate vents are very popular due to their invisibility and simplicity. They for example:

- ensure the moisture proofing ventilation in homes
- supply ventilators and gas hot water heaters with sufficient air
- prevent mould formation

Yet conventional window rebate vents are reaching the limits of their capability.

The air flow rates required have increased constantly over recent years. A few years ago, it was often sufficient to install only a couple of window rebate vents. Today, window manufacturers often no longer know, where they are going to put all of the rebate vents that are re-

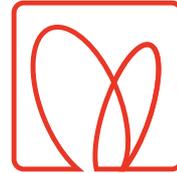
quired, especially as conventional rebate vents collide with window hardware components and need to be positioned in the limited space available that is free of window hardware components. This limits their utilization today.

arimeo classic is the consequent further development of conventional window rebate vents in order to meet today's performance requirements.

Due to the precise plastic hinge technology the air volumes required by the new ventilation standard DIN 1946-6 can be realized invisibly and self-adjusting.



transparent & balanced



arimeo fits into its surroundings almost unnoticeably and ensures a balance in the air change. Thanks to compact and precise technology, a high number of vents can be integrated unobtrusively into the window if required. This means that, even for high volumes of air, arimeo is:

invisible and self-adjusting.



Even for high volumes of air invisible and self-adjusting

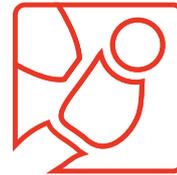
Imagine this for your apartment: You have small, invisible components in the window that regulate the change of air completely independently.

Conventional window rebate vents, that have met this need for unobtrusiveness for many years, are now reaching the limits of their capabilities, since the volumes of air required have increased. Although additional vents may achieve such air volumes, they are usually noticeable and need to be operated by the apartment owner.

In the age of increased air volumes, arimeo classic restores the original charm of unobtrusiveness. Thanks to its extremely compact design, even a high number of self-adjusting vents can be integrated into the window. There is nothing to see, even when the window is closed. And by positioning the vents in the uppermost part of the window, there is nothing to feel either.



Almost unnoticeable, even if
the window is open.



compact & flexible

arimeo is characterized by a very compact design. With high flexibility the precise technology fits into even the smallest spaces in the window. arimeo window vents can always be installed at the best position, since they are

independent of window hardware.



Positioned regardless of any window hardware

Window rebate vents are installed in the space between sash and the fixed frame, namely so far up in the window that the change of air cannot be felt.

In this space, there is little room for conventional rebate vents, because there are window hardware components in the way. This space problem confronts window manufacturers with tremendous challenges, since a large number of rebate vents is usually needed for each window nowadays. This is associated with major cycle time losses in the window manufacturing plant. However, a meaningful integration of all these vents is often not even possible.

arimeo resolves this problem effectively. The vent can be installed into **timber and uPVC windows** regardless of any window hardware and always at the ideal position. arimeo classic S (for uPVC windows), for example, is locked into the window instead of the sash overlap gasket. Thanks to its precise plastic hinge technology, it is as compact as a gasket and therefore, does not collide with the window hardware.

Relief in the window factory:
finally regardless of any window hardware



sensitive & precise



arimeo detects its surroundings sensitively and adjusts the ventilation precisely. As soon as wind and weather make it necessary, arimeo seals the window at exactly the right moment. Precise technology makes it possible:

precise air flow control.



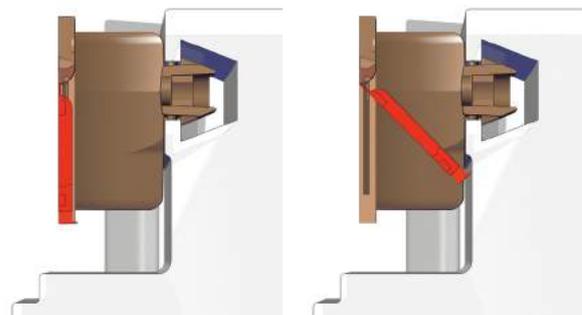
Precise air flow control

Right balance is essential for ventilation. That is the only way to keep wind and weather outside, while having the feel-good climate inside.

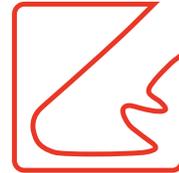
The plastic hinge technology of the arimeo classic S (for uPVC windows) uses innovative materials to deliver precision. arimeo is equipped with a sensitive air flow control that responds to tiny movements of air automatically. If the wind is too strong, arimeo seals the window at exactly the right moment. During normal weather, however, arimeo allows the fresh air required to flow into the home.

The arimeo classic T works on the same principle in timber windows. Here, however, a gravity-powered precision swivel joint ensures the accuracy. The highly sealing limitation of air flow of the arimeo classic T provide protection at the highest stage: even if it is very windy outside, draughts are prevented effectively.

Automatic adjustment:
 innovative plastic hinge technology
 ensures precision.



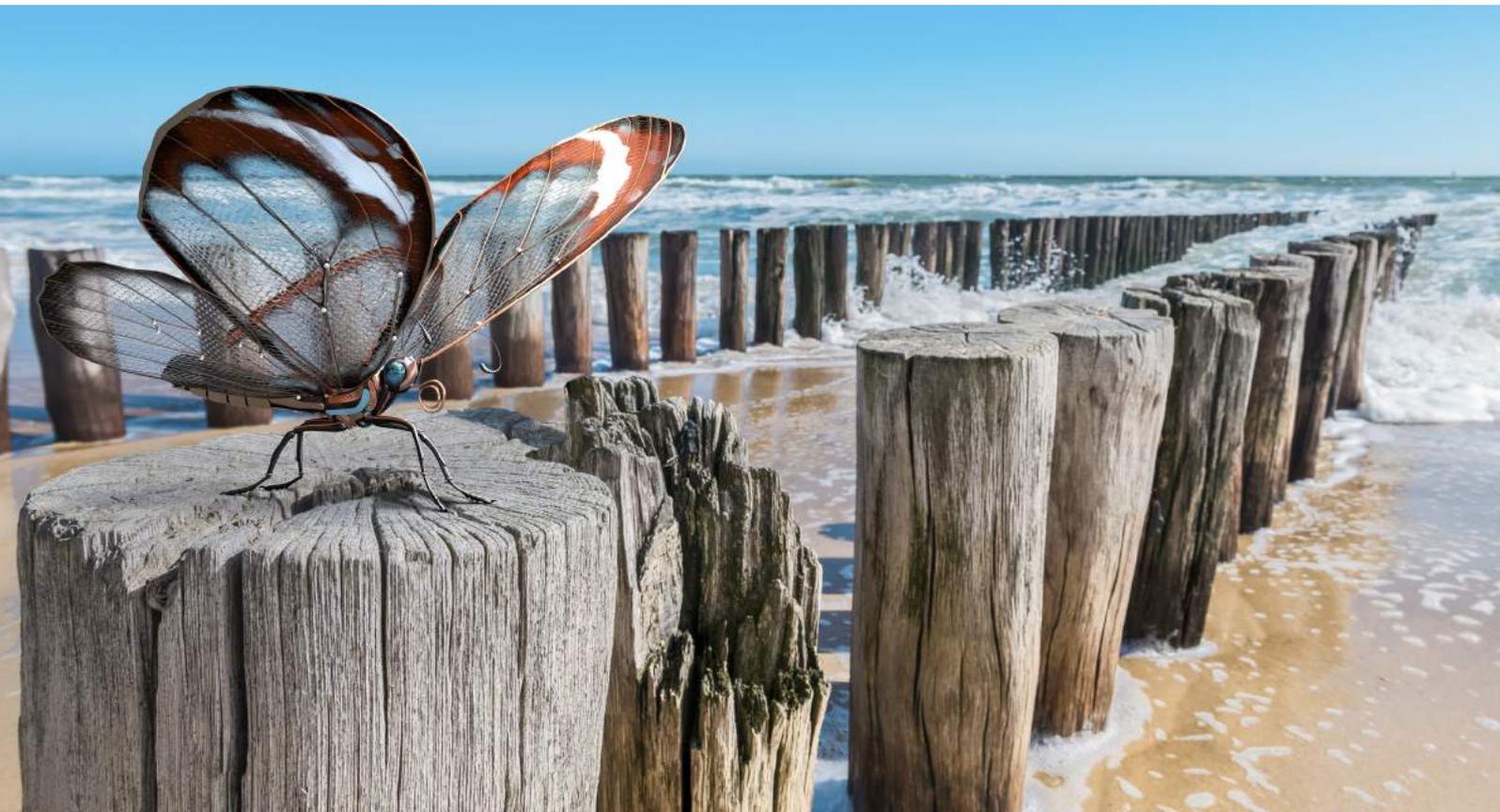
in uPVC windows



stable & simple

Stable solutions arise from simple mechanisms. This fundamental principle behind the arimeo manifests itself in the whole functionality of the vents. Even the installation process is stable and simple, thanks to:

high-quality locking technology.



A window rebate vent that convinces due to its simplicity

Good solutions do not have to be complicated. To achieve an user-independent air change, the arimeo classic S is simply locked into the sash instead of the gasket. **The vent's high-quality locking technology ensures a stable footing in the window's gasket groove.**

Due to this simplicity many of the time-consuming steps associated with conventional window rebate vents become redundant, such as pre-drilling, screwing and considering the window hardware.



Cost reduction:
no installation required on the glazing section.

arimeo classic S also makes the integration of the rebate vent during the window factory's production process significantly easier. Being on the sash section, arimeo is simply locked into instead of the gasket. No checking positions against hardware components in the fixed frame is required. Due to this any steps on the glazing section become redundant, which means tremendous time and cost saving, as the glazing section is generally the bottleneck for the entire window factory.

Standards-compliant ventilation with arimeo

2

Principles of home ventilation

Due to the tighter construction method and changed ways of living different and higher requirements for home ventilation are being defined.

The improved building shell of today's new buildings allow little "natural" air change. The same also applies to energy-efficiently redeveloped buildings, e.g. after the exchange of windows. Thus, air moisture inside the rooms increases, so that mould formation can be observed to an increasing degree. The inadequate air change deteriorates the room climate, which can also affect the health and well-being of the tenants adversely. Furthermore, it is possible that a sufficient fresh air supply for gas hot water heaters or wood-burning stoves can no longer be ensured.

Consequently, a more intensive ventilation becomes necessary. However, simply opening a window is no longer an easy task, as usually, all tenants of a unit or a house are working and thus, not at home during the day. **For this reason, standards now require an user-independent air change.**

The regulations relevant for Germany are as follows:

- EnEV (Energy-Saving Regulation)
- DIN 1946-6: home ventilation standard
- DIN 18017-3: ventilation of bathrooms without outside window
- DVGW-TRGI technical regulations for gas installations (combustion air supply)

The most relevant regulation is the German home ventilation standard DIN 1946-6 and the associated requirement for an user-independent moisture proofing ventilation. Generally, there exist different approaches on the market, culminating in complex ventilation systems.

However, one product is normally sufficient – one that requires minimal effort: arimeo.

EnEV

The EnEV is the regulation defining the compliance with minimum air change. The exact air change rate for residential buildings is specified in DIN 1946-6.

Sect. 6, para. 1 of the EnEV relates to the impermeability of the building shell and requires for buildings that "... the heat-transferring surrounding surface including joints is sealed air-impermeably and permanently in accordance with the generally accepted codes of practices."

This tight construction has, in practice, increasingly led to higher air moisture in buildings and rooms which may result in the mould formation.

Hence, sect. 6, para. 2 of the EnEV stipulates the requirement to comply with "...the minimum air change required for the purposes of health and heating..."

These requirements combined seem to be paradoxical; however, as a result of today's construction methods, they are fully legitimately. The air change, which formerly came in through leakages in the building shell uncontrolled and thus, decreased air moisture, is not existing in tight buildings. In order to bring up the interior climate to a pleasant mould-preventing level again, controlled outer air transfer devices are required now. With them, it can exactly be determined how much air and most important where the air flows in.

DIN 1946-6 home ventilation

The required minimum air change is described and defined in the German standard DIN 1946-6 (home ventilation). A ventilation concept is now required for:

- new buildings
- refurbishments of apartment buildings at which more than 1/3 of the windows are replaced and
- refurbishments of single-family homes in which more than 1/3 of the windows are replaced or more than 1/3 of the roof surface is sealed



In accordance with DIN 1946-6 a ventilation measure is required if the air flow rate, which comes in through leakages of the building shell (infiltration), is insufficient for an adequate ventilation, which prevents moisture formation. Assumptions are made in the DIN 1946-6 regarding the leakages. If a ventilation measure is required, at least the moisture proofing ventilation must be ensured user-independently.

There are four levels of ventilation within the DIN 1946-6. The nominal ventilation is the level of ventilation that reflects the overall air requirements when the tenant is present. To cover this air requirement, a combination of manual window opening and user-independent portions of the air change is permitted.

At least, the moisture proofing ventilation is to be realized as the user-independent portion of the air change. To reduce manual window opening, this minimum requirement can be exceeded optionally by planning higher user-independent ventilation levels.

Ventilation levels according to DIN 1946-6

moisture proofing ventilation	securing preservation of structures (moisture)
reduced ventilation	securing minimum hygiene requirements and preservation of structures
nominal ventilation	securing minimum hygiene requirements and preservation of structures on presence of the tenant
intensive ventilation	temporarily required ventilation with increased air flow rate to reduce load peaks

Choice of the ventilation measure

The ventilation measure can be chosen freely. There is cross or shaft ventilation as well as fan-assisted ventilation. Fan-assisted ventilation is not imperative. However,

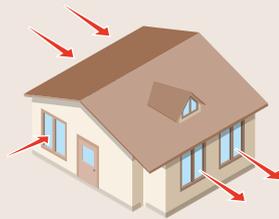
it is always imperative to realize at least the moisture proofing ventilation user-independently.

Application of arimeo within DIN 1946-6

arimeo can be used as an outer air transfer device in accordance with DIN 1946-6. Thanks to its sensitive air flow control, it is a self-adjusting outer air transfer device

as defined in the standard. It means that arimeo can be used in cross ventilation and as air supply for fan-assisted and shaft ventilation.

Cross ventilation

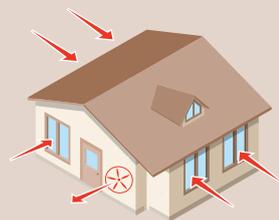


Cross ventilation is the simplest and most common type of ventilation concepts. In this case, arimeo must be used on at least two sides of the façade. Driven by wind and thermal, **fresh air streams through the flat from the upwind side of the building via arimeo** through the gaps under the doors resp. the air flow gasket USD from INNOPERFORM® **to the downwind side of the building, where the used air exits the flat via arimeo.**

This ventilation concept naturally powered by wind and thermal is a highly effective and often underestimated mechanism. Moisture proofing ventilation of homes can mostly be realized by cross ventilation. The exception to this are units orientated to one side only, i.e. there are windows on only one façade side.

Fan-assisted ventilation

(with exhaust air systems)



With this ventilation concept, the exhaust air is transported to the outside by ventilators. This creates a slight vacuum inside the flat **allowing arimeo to transport fresh air into the individual rooms.** Fan-assisted exhaust air systems are usually used to ventilate internal bathrooms or to achieve high air flow rates independently of the tenant.

Shaft ventilation



Shaft ventilation is also known as gravity ventilation. It is driven by thermal that develops in a shaft. This shaft transports the exhaust air to the outside and creates a vacuum in the home. **arimeo is then able to supply the different rooms with fresh air.** Shaft ventilation is also suitable for flats orientated to one side. Often, the access to shafts are integrated in internal bathrooms, for example.

Installed in the various installation variants, arimeo may realize the ventilation levels from moisture proofing ventilation to nominal ventilation. In case of higher levels of ventilation, this is usually done in combination with exhaust air systems. **Cross ventilation via arimeo is**

generally sufficient to meet the minimum requirement of moisture proofing ventilation. Basically, these requirements need to be calculated and verified for every unit specifically.

Calculation of the number of arimeos required

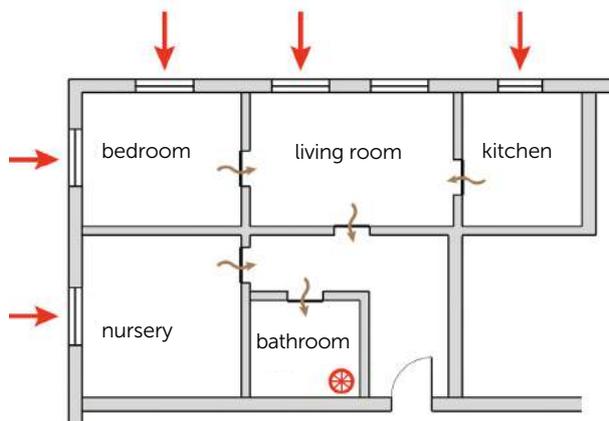
In order to calculate the dimensioning, the infiltration (leakages) according to DIN 1946-6 is determined firstly. The difference between infiltration and the entire outer air flow rate required by the respective level of ventila-

tion (minimum moisture proofing ventilation) is then delivered by arimeo. Consequently, arimeo's dimensioning can be determined based on its air passing values.

DIN 18017-3 ventilation of bathrooms without outside window

In accordance with DIN 18017-3, an exhaust air system is required for bathrooms and toilet rooms without a window. The ventilators can be switched in different ways. In standard cases, an exhaust air flow rate of 40 m³/h or 60 m³/h is required for an internal bathroom.

The same volume of fresh air now needs to flow in again. Part of this is generated by the building shell's leakages, known as infiltration. The German standard DIN 18017-3 takes this into account and makes unit-dependent assumptions concerning its rate. In case of tight buildings, the infiltration available is usually insufficient to supply the ventilator with fresh air. **The missing air quantity can be supplied by arimeo.**



Important fact: according to DIN 1946-6 again, the nominal ventilation does not need to be calculated if the ventilator is being operated permanently and is used primarily to ventilate a bathroom or similar. It is sufficient to calculate for moisture proofing ventilation if it can be ensured that the air is equally distributed in all rooms.

DVGW-TRGI combustion air supply

Room air-dependent fireplaces, wood-burning stoves and gas hot water heaters require an adequate supply of air from the living space. For that purpose, fresh air needs to be able to enter the room from outside. The incoming air ensures adequate combustion (prevents the formation of carbon monoxide) and also ensures the eduction of exhaust gases by avoiding a critical vacuum in the room in which the device is installed. **An adequate combustion air supply is therefore required by law.**

The volume of combustion air required was so far described in the German standard firing regulation (MFeuV)

and its underlying technical regulations. In the future, the MFeuV does not state the combustion air volume required and the possibilities of air supply into the inside of a flat anymore. The calculational evidences are described now in the respective technical regulations exclusively. To be specific: for gas hot water heaters it is the DVGW-TRGI (technical regulations for gas installations) and for fireplaces and wood-burning stoves it is the TR-OL (technical regulation of the stove and air heating trade) as well as the German standard DIN 18896 (fireplaces fired by solid fuel – technical regulation for the installation, requirements for the instruction manual).

As a result of the increasingly well-sealed building shells, the combustion air supply and forced ventilation for room air-dependent fireplaces are becoming a major challenge. Formerly you have been on the safe side with the 4 to 1 rule of thumb, but nowadays the outside air flowing in through leakages does often no longer ensure a sufficient combustion air supply for fireplaces. Unpopular measures are frequently the order of the day after a window replacement.

These include:

- shortening door leaves
- ventilation grilles
- unattractive openings in the building shell
- removing gaskets of interior doors

Owners or tenants often disagree with these measures, since many of the measures mentioned cause an aesthetic deterioration. However, there are indeed solutions that are unobtrusive and cost-efficient.



Application of arimeo within the combustion air supply

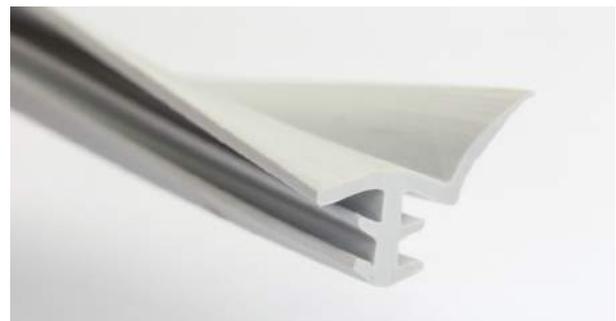
arimeo window vents are permissible outer air transfer devices as defined by the DVGW-TRGI. The air passing value at 4 Pa is known and has been confirmed by tests at the ift Rosenheim. **arimeo increases the air yield within the combustion air network, since it allows additional**

outside air to flow in through the building shell. arimeo can be installed and retrofitted into timber and uPVC windows. They are invisible when the windows are closed and have an efficient flap control preventing draughts.

Application of the INNOPERFORM® air flow gasket within the combustion air supply

The INNOPERFORM® air flow gasket (USD) for interior doors extends the efficiency of the combustion air network, hence increases the air yield for fireplaces. In order to supply room air-dependent fireplaces (e.g. gas hot water heaters and wood-burning stoves) with combustion air, the air flow gasket is an efficient solution to increase the air yield. According to assessment **S 1212-00/15** by TÜV SÜD Industrie Service GmbH, unshortened interior doors with USD can be used **in accordance with curve 2 of diagram 9.1 respectively table 9-3 of the forthcoming DVGW-TRGI 2018.** Consequently, the chargeable com-

bustion air in the room, in which the device is installed, can be increased substantially, without leaving door frames deteriorated by removed gaskets aesthetically or leaving rattling doors. In contrast to a shortened door leaf, tenants accept this solution much better, as it is unobtrusive. The USD is an exchange gasket, which is inserted at the top of the door and on the hinge side instead of the original door gasket. On lock side, the original gasket remains avoiding any rattling noises. The USD copies the original optical characteristics while allowing the air to flow over.



Planning assistance by INNOPERFORM®

DIN 1946-6 is the most relevant standard for planning the ventilation of domestic construction and prescribes the creation of a ventilation concept. Thus, planners and window manufacturers are responsible for providing extensive explanations and advice to clients.

Over the past 20 years, we have supplied several million window rebate vents to our clients and supported thousands of objects during the planning stage in line with ventilation standard DIN 1946-6.

Advice and support for the creation of ventilation concepts are services that we take for granted and that we provide free of charge. We are happy to calculate the dimensioning of arimeos for you, i.e. we help you determine how many arimeos will be required to satisfy the standards.

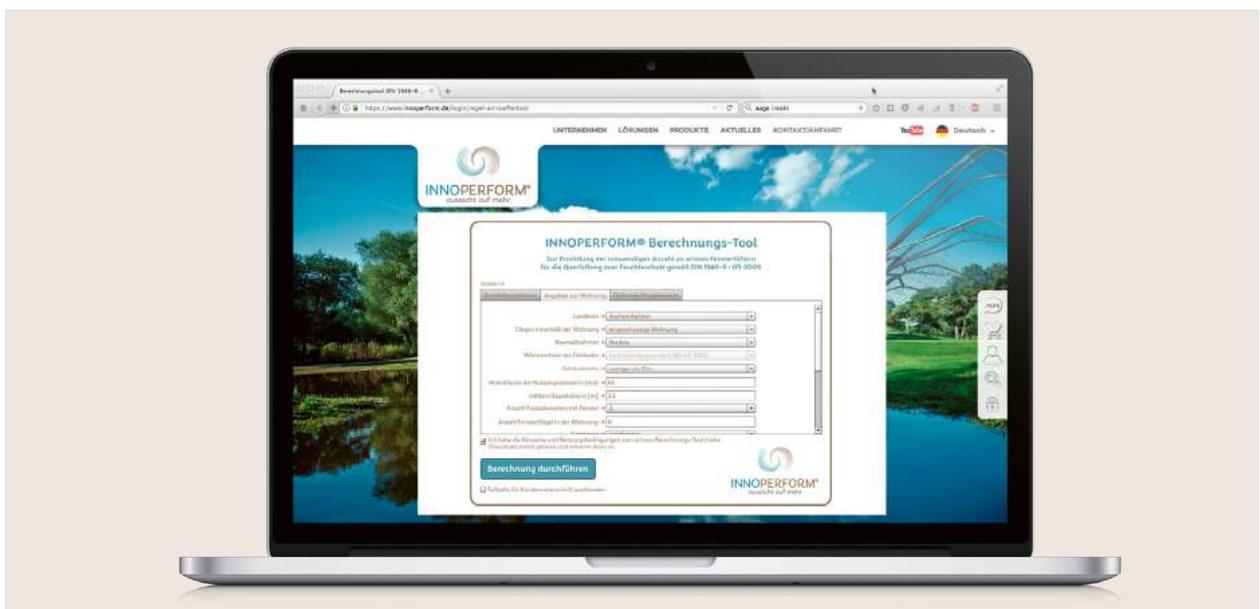
By phone, e-mail or in person, the experts at INNOPERFORM® will look after your needs and work with you, if requested, to create customized solutions.

For **planning projects with cross ventilation**, planners and window manufacturers are welcome to use our free calculation tool in the secure customer area of our website www.innoperform.de.



Enrico Mager, Director (left) and Achim Kockler, Managing Director of INNOPERFORM® GmbH

For **combustion air supply too**, the required number of arimeos can be determined in advance in accordance with the latest draft of the DVGW-TRGI. Again, the INNOPERFORM® team is happy to support you. In the secure area of our website www.innoperform.de, there is also a calculation tool for chimney sweepers to calculate the dimensioning.



input mask of the German calculation tool on www.innoperform.de

Calculation of the number of arimeo window rebate vents required according to DIN 1946-6/2018

basic data of the flat

object/flat: sample concept with ventilators in all exhaust air rooms
 planner:
 rural district: Berlin
 building activity: newly built
 type of flat: one-storey flat in apartment buildings
 fireplace exists (room air-dependent): no
 type of window: uPVC windows with rebate gasket system
 number of façade sides with windows: 2
 building height: < 15 m
 average room height: 2.5
 living space of the flat in [m²]: 76
 fresh air through arimeo - exhaust air through: ventilators in all exhaust air rooms

When ventilating the windowless rooms, a permanent exhaust air flow is generated in the flat at least equal to the moisture proofing ventilation.

room	number of sashes
living room	2
bedroom	1
nursery	1
kitchen	1
bath without window	0

room	number of sashes

French casement windows count as 1 sash only

calculation results

total fresh air flow rate required according to DIN 1946-6:	95,8	m ³ /h	
fresh air supply required according to DIN 18017-3:	40,0	m ³ /h	
hence air flow rate required in total:	95,8	m ³ /h	
effective infiltration according to DIN 1946-6:	55,1	m ³ /h	
air flow rate required through arimeo:	40,7	m ³ /h	

The air flow rate of arimeo includes the fresh air supply through arimeo.

number of arimeo classic required

10 pieces

calculation parameter

ventilation level	nominal ventilation	A _{eff} [cm ²]	---
occupancy	high (typical MFD)	f _{therm}	---
wind force	region of weak winds	f _{wind}	---
pressure difference [Pa]	8	f _{site}	---
V _{NE} [m ³]	190,0	f _{location}	---
n ₅₀ [1/h]	1,0	f _{relight}	---
ez	0,29	f _{façade}	---

This calculation was realized on basis of the draft version of DIN 1946-6: 2018 (December 2017).

INNOPERFORM®

This is a calculation from INNOPERFORM® Ltd. It is to be perceived as advisory support for ventilation planning of our partners. Results exclusively apply to **arimeo** window vents and are untransferable. The underlying proportioning of arimeo to the windows can be taken from the enclosure a) "presentation of the installation variants".

Example of a calculation result

arimeo classic S

Window rebate vent for uPVC windows
(short term arimeo CS)

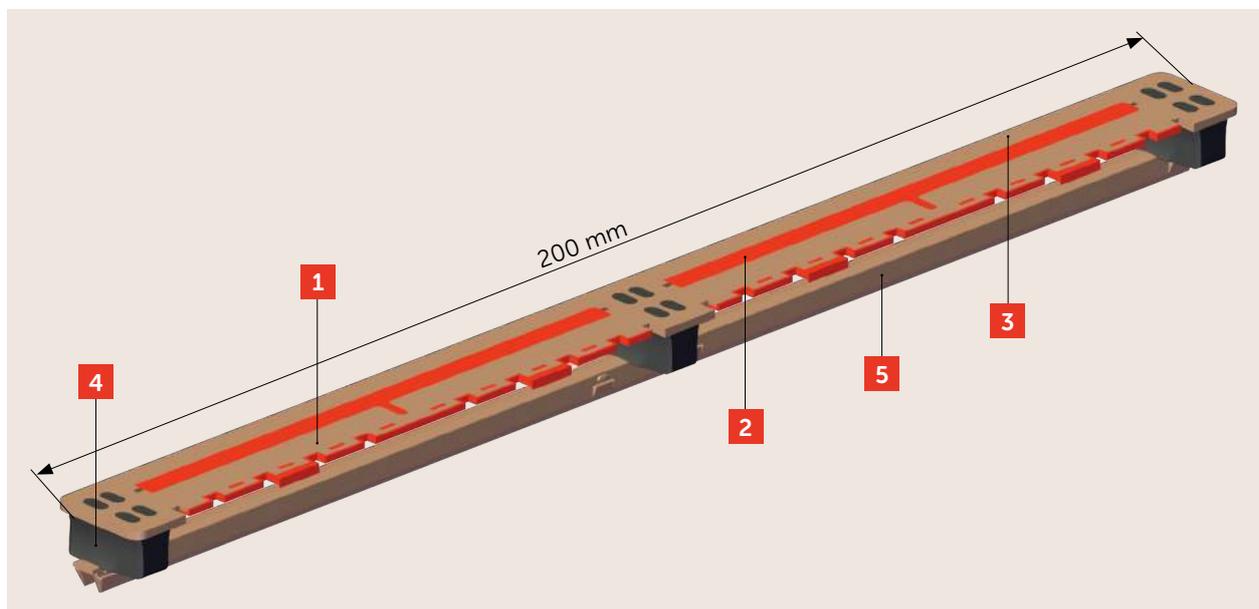
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Product description

arimeo classic S is a self-adjusting window rebate vent for uPVC windows. It can be used in rebate and centre gasket systems to ensure an air change when the windows are closed. arimeo classic S is positioned in the sash instead of the sash overlap gasket and, set in the respective colour of the window gasket, is almost invisible.

Areas of application of arimeo classic S:

- cross ventilation
- as a pure fresh air supply device in combination with exhaust air fans
- as a combustion air supply device for room air-dependent gas hot water heaters or wood-burning stoves



- | | |
|--------------------------|--|
| 1 Control flaps: | adjust the air flow precisely, thanks to their flow contour. |
| 2 Hinge: | provides sensitive mobility and a resilience of the control flaps with utmost precision. |
| 3 Frontward side: | adapts closely to the fixed frame when the window is closed. |
| 4 Buffers: | provide the necessary flexibility to the components, so that they adapt to different gap geometries. |
| 5 Locking foot: | holds the component firmly in the window sash. |

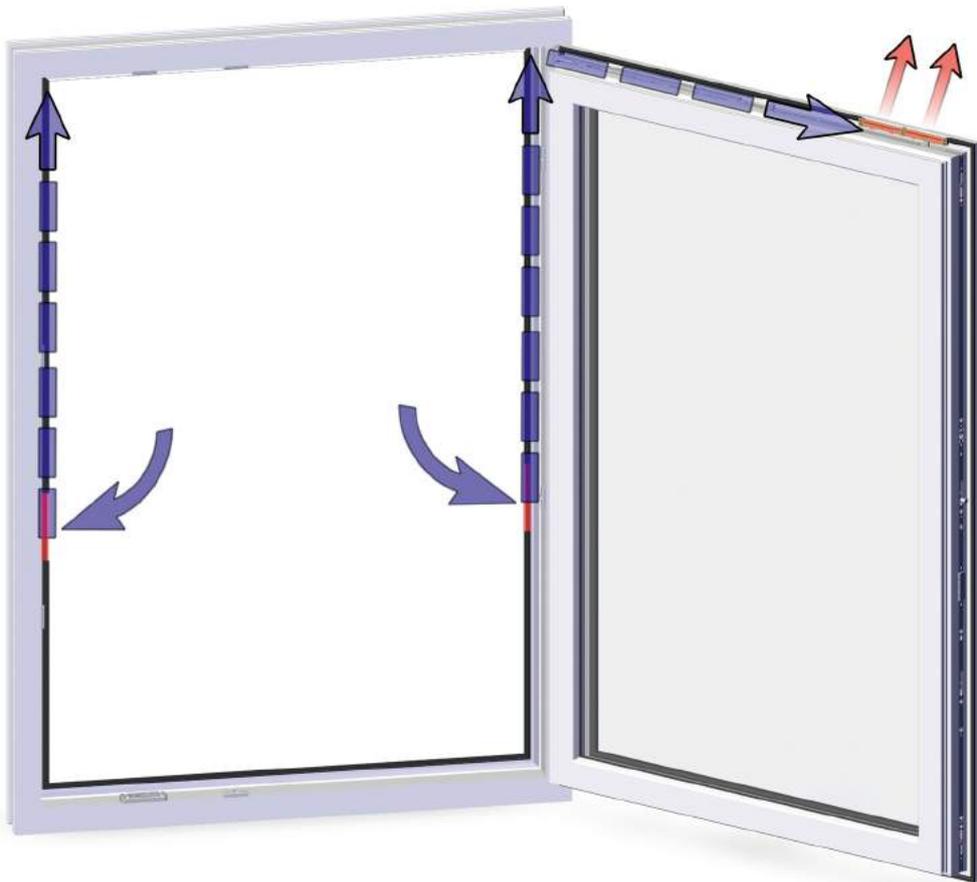
How it works

The air change is driven passively due to pressure differences between the inside and outside. In case of cross ventilation, pressure differences arise due to wind and thermal; in case of fan-assisted ventilation due to exhaust air systems.

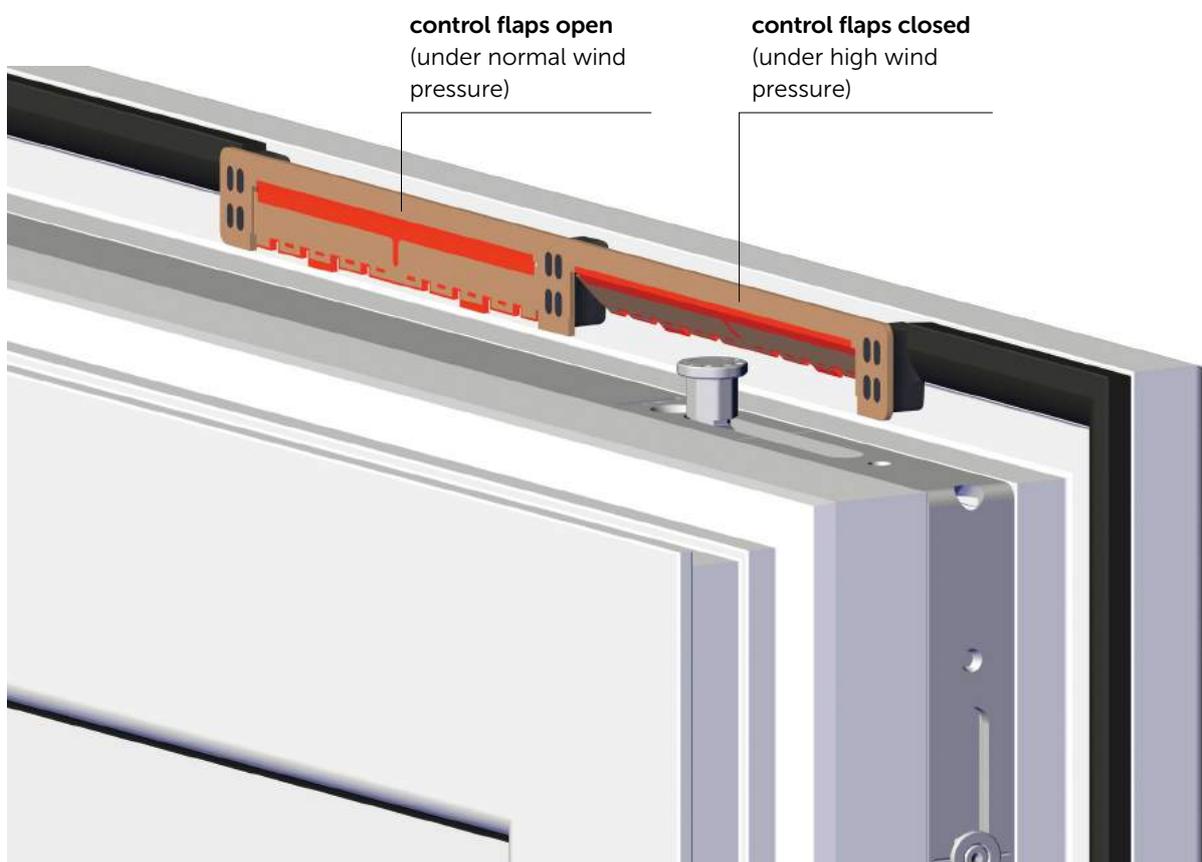
The ventilation duct is realized through the window rebate exclusively, i.e. the space between the sash and

the fixed frame. To achieve this, the outer frame gasket is replaced by exchange gaskets at defined positions, so that the air can flow in the window rebate and then further to the inside of the room by passing arimeo, which is positioned in the upper area of the window instead of the inner sash overlap gasket. The air flow described can arise bidirectionally, depending on the pressure difference.

How it works/air delivery



arimeo - installed at the sash - is the regulating element in the air change described. Thanks to the innovative hinge technology of the control flaps, a sensitive air flow control is realized responding to the slightest movement of air. These control flaps restrict the air flow in case of high wind forces and thus, prevent draughts.



The different positions of the control flaps are for illustration purposes only. In reality, both control flaps close simultaneously.

Performance data of arimeo classic S in the rebate gasket system

The following overview shows the results of system testing by ift Rosenheim using different arimeo classic S installation variants in **uPVC windows with rebate gasket system**. The different installation variants are shown in greater detail on the following pages.

arimeo in an uPVC window with rebate gasket system ¹										
installation variants	air passing values in m ³ /h								watertightness	
	2 Pa	3 Pa	4 Pa	5 Pa	6 Pa	7 Pa	8 Pa	10 Pa	DIN EN 13141-1 ²	DIN EN 12208
single acoustic	2,2	2,8	3,3	3,7	4,1	4,5	4,8	5,4	✓	9A
single	2,4	3,0	3,5	4,0	4,4	4,7	5,1	5,7	✓	9A
double acoustic	3,6	4,4	5,2	5,9	6,5	7,1	7,6	8,6	✓	9A
double	4,5	5,5	6,3	7,1	7,8	8,4	9,0	10,1	✓	9A
triple acoustic	4,2	5,2	6,2	7,0	7,8	8,5	9,2	10,4	✓	8A
triple	5,8	7,2	8,3	9,3	10,3	11,1	11,9	13,4	✓	9A

arimeo in an uPVC window with rebate gasket system ¹									
installation variants	sound insulation								
	window without arimeo	45,1 dB	44,2 dB	43,3 dB	42,4 dB	38,8 dB	37,0 dB	32,3 dB	
single acoustic	window with arimeo	44,0 dB	43,3 dB	42,4 dB	41,7 dB	38,4 dB	36,8 dB	32,3 dB	
single		42,6 dB	42,2 dB	41,4 dB	40,9 dB	37,8 dB	36,4 dB	32,2 dB	
double acoustic		42,2 dB	41,9 dB	41,0 dB	40,7 dB	37,6 dB	36,2 dB	32,0 dB	
double		36,5 dB	36,4 dB	36,1 dB	36,1 dB	34,5 dB	33,8 dB	30,7 dB	
triple acoustic		38,9 dB	38,8 dB	38,2 dB	38,2 dB	35,9 dB	34,9 dB	31,5 dB	
triple		34,3 dB	34,2 dB	34,0 dB	34,0 dB	32,9 dB	32,2 dB	29,6 dB	

¹ The stated values are based on tests with single sashed reference windows by ift Rosenheim.

² up to the maximum requirement of 150 Pa

arimeo in rebate gasket systems



watertightness



ventilation characteristics



sound insulation*

* The associated test report can be reviewed at arimeo.de.

Performance data of arimeo classic S in the centre gasket system

The following overview shows the results of system testing by ift Rosenheim using different arimeo classic S installation variants in **uPVC windows with centre gasket system**. The different installation variants are shown in greater detail on the following pages.

arimeo in an uPVC window with centre gasket system ¹										
installation variants	air passing values in m ³ /h								watertightness	
	2 Pa	3 Pa	4 Pa	5 Pa	6 Pa	7 Pa	8 Pa	10 Pa	DIN EN 13141-1 ²	DIN EN 12208
single acoustic	2,0	2,5	3,0	3,4	3,8	4,1	4,4	5,0	✓	7A
single	2,2	2,8	3,3	3,7	4,1	4,5	4,8	5,5	✓	7A
double acoustic	3,1	3,9	4,6	5,2	5,8	6,3	6,8	7,8	✓	4A
double	4,5	5,5	6,4	7,2	8,0	8,6	9,3	10,4	✓	6A
triple acoustic	3,3	4,2	5,0	5,8	6,4	7,1	7,7	8,8	✓	4A
triple	5,4	6,7	7,8	8,8	9,8	10,6	11,4	12,8	✓	5A

arimeo in an uPVC window with centre gasket system ¹						
installation variants	sound insulation					
	window without arimeo	44,9 dB	44,1 dB	43,4 dB	39,1 dB	37,1 dB
single acoustic	window with arimeo	44,0 dB	43,3 dB	42,7 dB	38,8 dB	36,9 dB
single		42,4 dB	41,7 dB	41,5 dB	38,3 dB	36,5 dB
double acoustic		40,9 dB	40,2 dB	40,2 dB	37,6 dB	35,9 dB
double		35,8 dB	35,6 dB	35,5 dB	34,2 dB	33,4 dB
triple acoustic		39,7 dB	39,2 dB	39,2 dB	37,1 dB	35,4 dB
triple		33,8 dB	33,6 dB	33,6 dB	32,6 dB	32,2 dB

¹ The stated values are based on tests on single sashed reference windows by ift Rosenheim.

² up to the maximum requirement of 150 Pa

arimeo in centre gasket systems



watertightness



ventilation characteristics



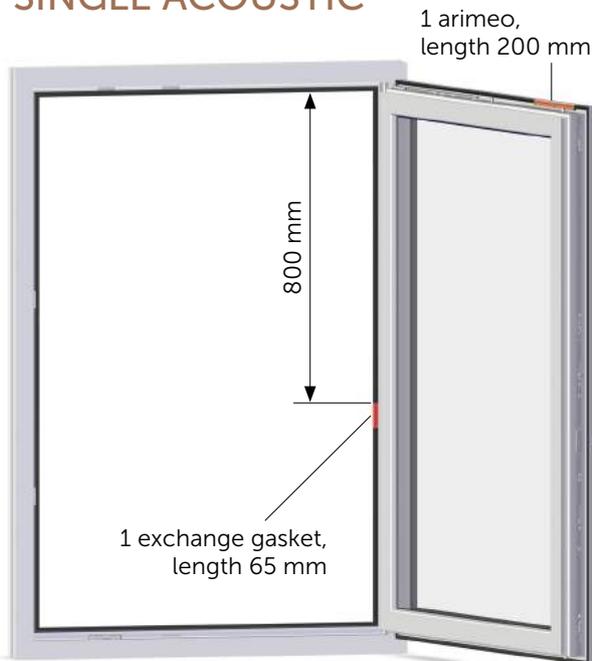
sound insulation*

* The associated test report can be reviewed at arimeo.de.

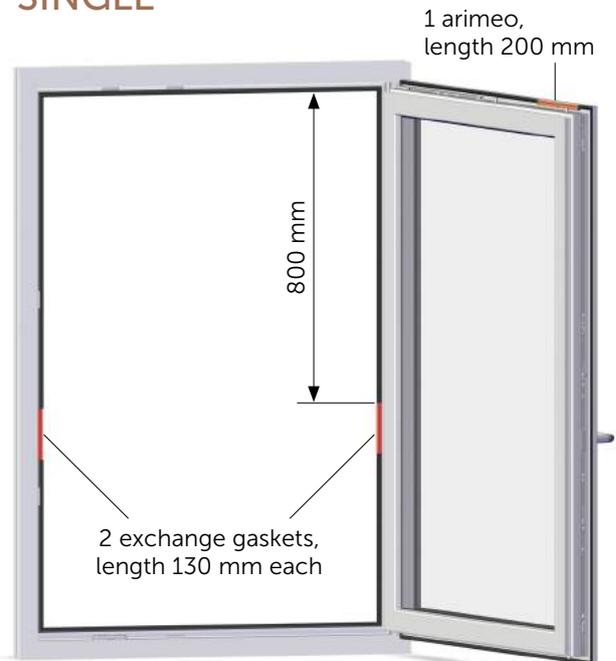
Installation variants arimeo classic S for windows with rebate gasket system

For rebate gasket systems, arimeo classic S can be used in the installation variants shown below. The selection of an installation variant is primarily dependent on the volume of air and the sound insulation required. The test values for the individual variants are listed in the overview of the performance data.

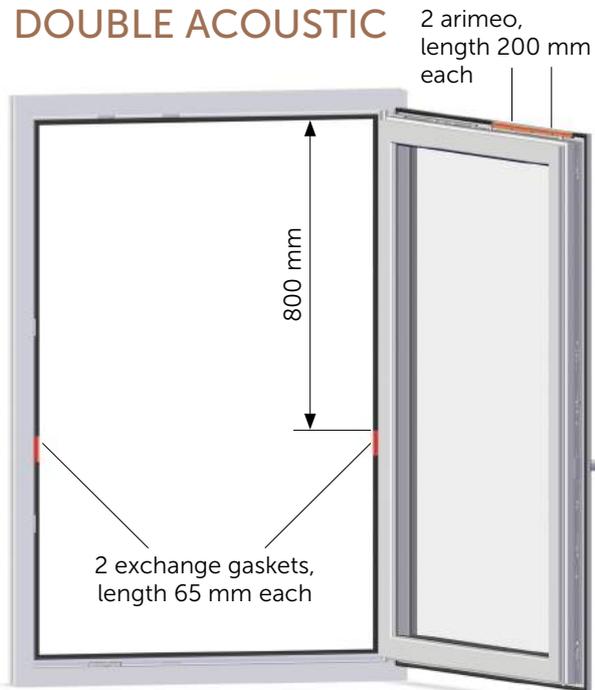
SINGLE ACOUSTIC



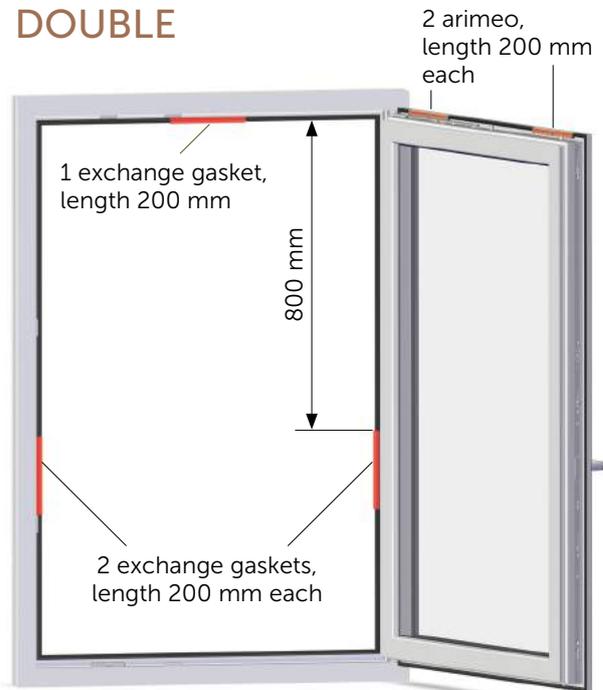
SINGLE



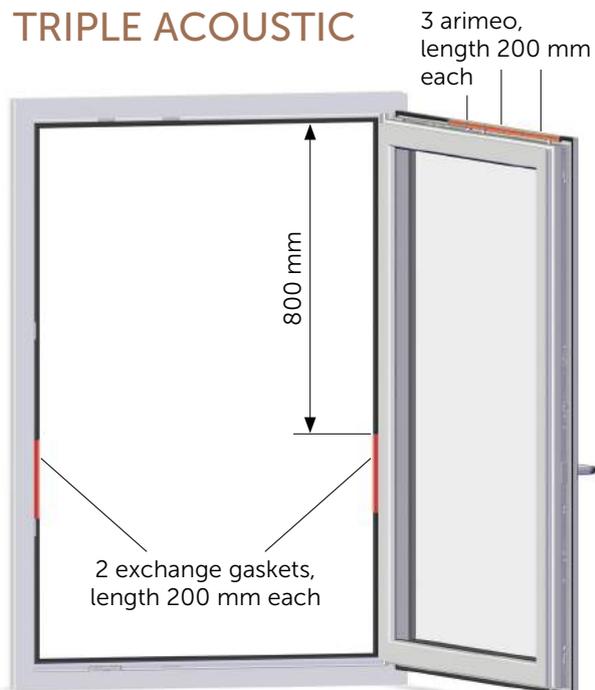
DOUBLE ACOUSTIC



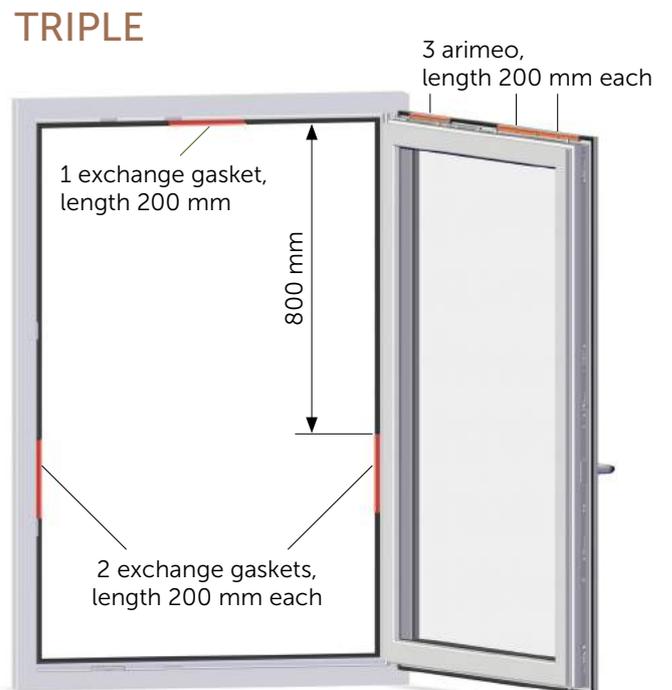
DOUBLE



TRIPLE ACOUSTIC



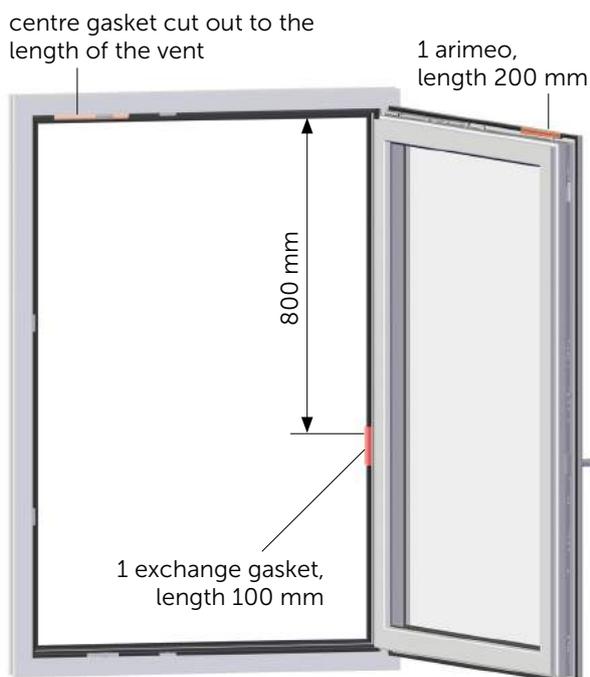
TRIPLE



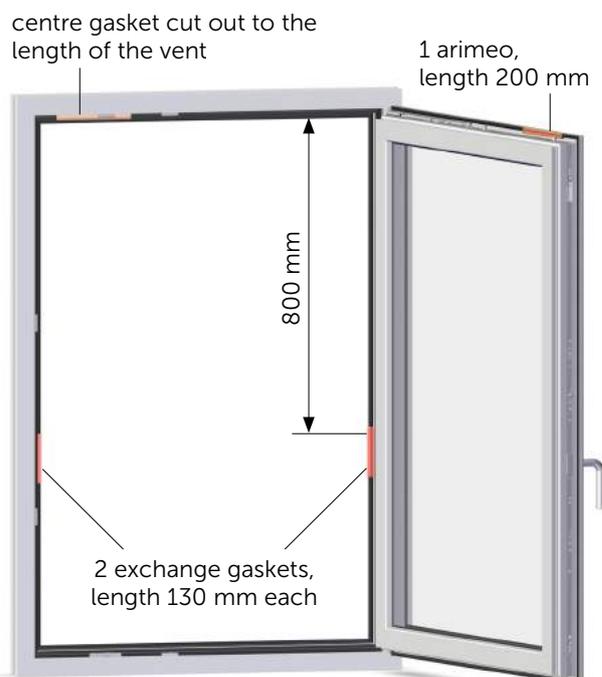
Installation variants arimeo classic S for windows with centre gasket system

For centre gasket systems, the arimeo classic S can be used in the installation variants shown below. The selection of an installation variant is primarily dependent on the volume of air and the sound insulation required. The test values for the individual variants are listed in the overview of the performance data.

SINGLE ACOUSTIC

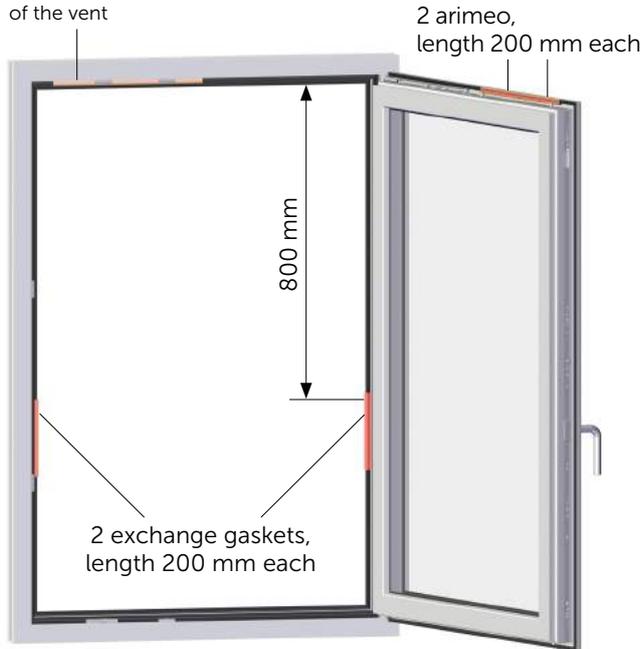


SINGLE



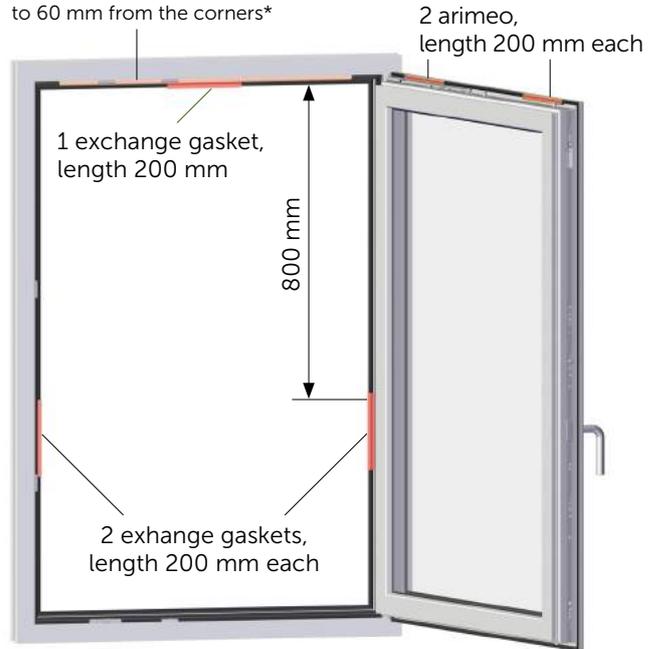
DOUBLE ACOUSTIC

centre gasket cut out to the length of the vent



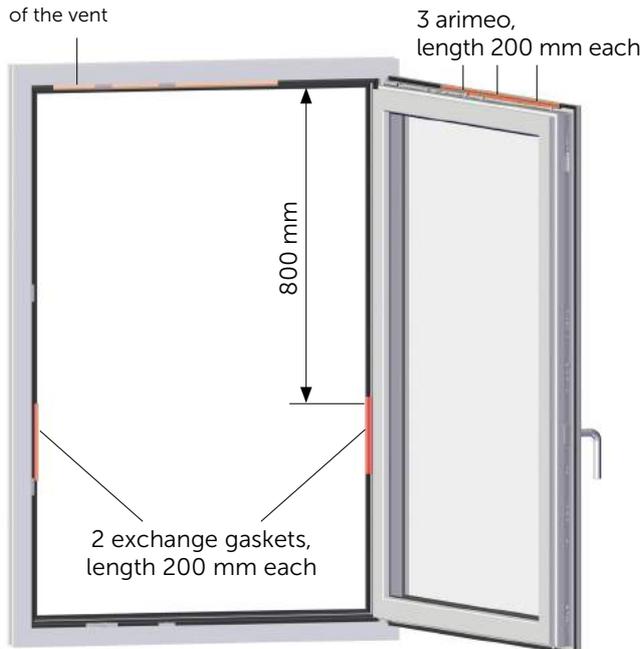
DOUBLE

centre gasket cut out completely up to 60 mm from the corners*



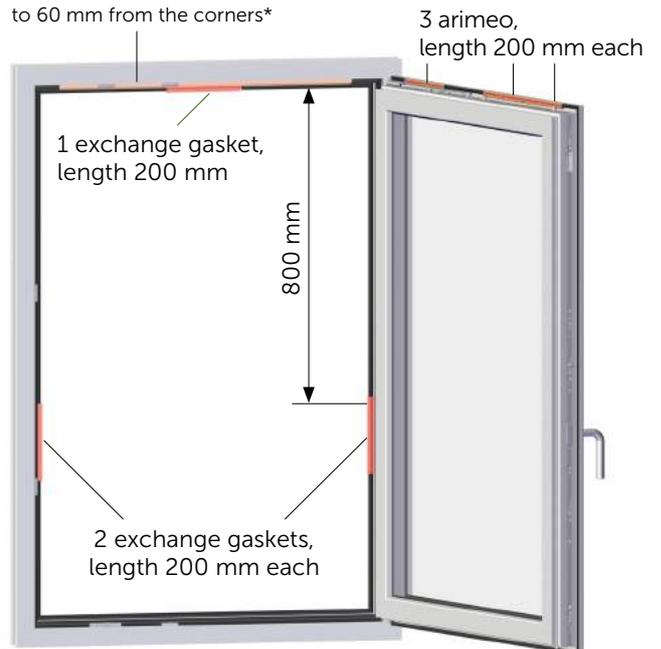
TRIPLE ACOUSTIC

centre gasket cut out to the length of the vent



TRIPLE

centre gasket cut out completely up to 60 mm from the corners*

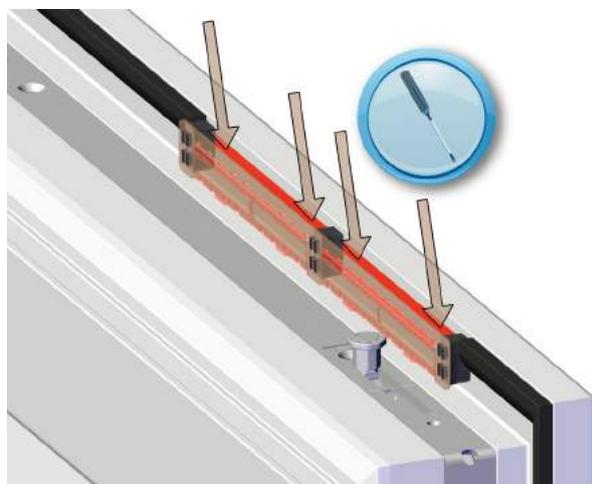
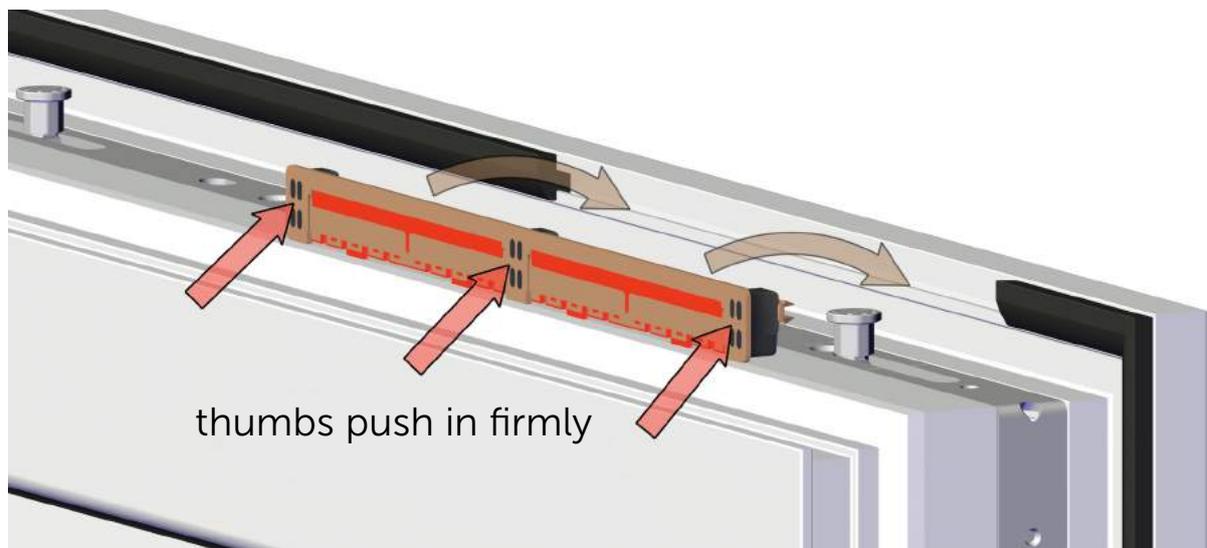


* Observe details about window width on page 33.

Installation instruction arimeo classic S for uPVC windows

Installation of arimeo on the sash

- 1 arimeo classic S can be used in various installation variants. The number and position of the vents can be gathered from the separate presentation of the installation variants.
- 2 Remove the sash overlap gasket completely on the positions earmarked for arimeo using a cutter and, if necessary, needlenose pliers.
- 3 arimeo is locked into the now vacant groove. The control flaps always point towards the glass pane. Make sure that the entire length of the locking foot disappears into the gasket groove, and that the control flaps move freely.



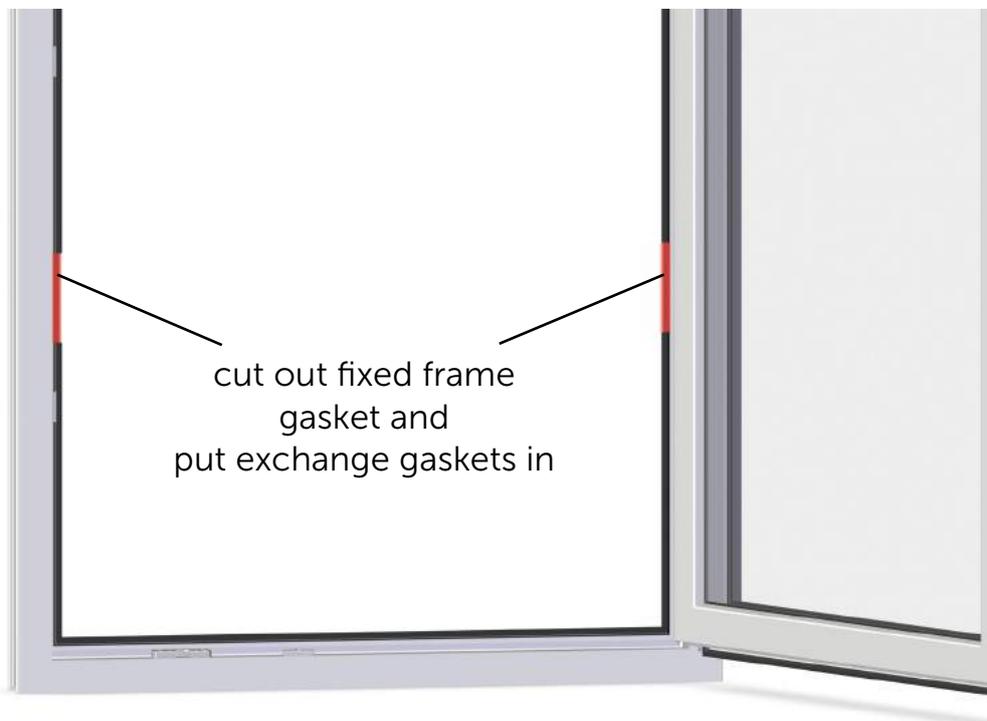
TIP:

Generally, thumbs push arimeo into the groove. In case of narrow grooves, the force required for pushing it into can be reduced by applying the flat screwdriver directly at the locking foot.

Caution: Once locked into, arimeo classic S sits very firmly in the window. Although a removal is possible, it may destroy the vent.

Installing exchange gaskets on the window frame

- 4 The number and position of the exchange gaskets can be gathered from the presentation of the installation variants.
- 5 Remove the fixed frame overlap gasket on the positions earmarked using a cutter and, if necessary, needlenose pliers.
- 6 Put the exchange gasket in the now vacant gasket groove.
- 7 In case of windows with centre gasket system, remove the centre gasket on the positions earmarked in the installation variant.



Important information

When positioning the upper exchange gaskets, make sure that the fixed frame gasket is not cut out directly vis-à-vis the arimeo window rebate vents. In case of narrow windows, one arimeo can be positioned exceptionally in the upper vertical rebate area (as high as possible).

When positioning the sideward exchange gaskets, the defined distance to the upper corner may be reduced in case of small windows. However, a minimum distance of 5 cm from the lower corner must always be observed.

TIP:

The arimeo window rebate ventilators can be used for double-face windows in the same way as the installation variants shown, either on one side or distributed over both window sashes, depending on the sash size.

Compatible window systems

list of window systems for the use of arimeo classic S		
system manufacturer	window systems	suitable vent
ALUPLAST	Ideal 4000 70 AD	CS 2
ALUPLAST	energeto 4000 70 AD	CS 2
ALUPLAST	Ideal 5000 70 MD	CS 2
ALUPLAST	energeto 5000 70 MD	CS 2
ALUPLAST	Ideal 7000 85 AD	CS 2
ALUPLAST	Ideal 8000 85 MD	CS 2
ALUPLAST	energeto 8000 85 MD	CS 2
DRUTEX	Iglo 5 70 AD	CS 3
DRUTEX	Iglo energy 82 MD	CS 3
GEALAN	S 7000 IQ 74 MD	CS 3
GEALAN	S 8000 IQ 74 AD	CS 3
GEALAN	S 7000 IQ Plus 82,5 MD	CS 3
GEALAN	S 9000 82,5 AD + MD	CS 3
HOCO	Classic C 80	CS 2
HOCO	Style S 80	CS 2
HOCO	Prestige P 95	CS 2
HOCO	Prestige PLUS P 95+	CS 2
INOUTIC	Prestige 76 AD + MD	CS 1
INOUTIC	Arcade 71 AD	CS 1
INOUTIC	Eforte 84 MD	CS 0
INOUTIC	Elegante 76 MD	CS 0
KBE (profine)	76 AD + MD	M683 ²
KBE (profine)	88 MD	M683 ²
KÖMMERLING (profine)	76 AD + MD	M683 ²
KÖMMERLING (profine)	88 MD	M683 ²
LB. PROFILE	PAD 60 3 AD	CS 3
LB. PROFILE	PAD 70 CONTOUR AD	CS 3
LB. PROFILE	PCD 70 AD	CS 3
LB. PROFILE	PCD 70 MD	CS 3
LB. PROFILE	PCD 82 MD	CS 3
REHAU	Brillant-Design 70 AD	CS 3
REHAU	Geneo 86 mm MD	CS 3
REHAU	Euro-Design 70 AD	CS 3
REHAU	Synego 80 mm AD + MD	CS 3
SALAMANDER	bluEvolution 92 MD	CS 2
SALAMANDER	Streamline 76 AD	CS 2
SALAMANDER	Streamline 76 MD	CS 2
SALAMANDER (BRÜGMANN)	bluEvolution 73 AD	CS 2
SALAMANDER (BRÜGMANN)	bluEvolution 82 MD	CS 2

list of window systems for the use of arimeo classic S		
system manufacturer	window systems	suitable vent
SCHÜCO	Corona CT 70 AD	VentoAir+ ¹
SCHÜCO	Thermo 6 82 mm MD	VentoAir+ ¹
SCHÜCO	Living 82 mm AD + MD	VentoAir+ ¹
STÖCKEL	EcoStep 8.0 Classic,-Design,-Vision	CS 3
STÖCKEL	TwinStep 8.0 Classic,- Premium,-Prestige	CS 3
TROCAL (profine)	76 AD + MD	M683 ²
TROCAL (profine)	88 MD	M683 ²
TRYBA	T 84	CS 1
VEKA	Softline 70 AD + MD	CS 4
VEKA	Softline 76 AD + MD	CS 4
VEKA	Topline AD	CS 4
VEKA	Softline 82 AD + MD	CS 4
WERU	Castello 70 mm AD	CS 3
WERU	AFINO AD + MD	CS 3
WERU	Sereno 70 mm AD	CS 3

¹ exclusive SCHÜCO

² exclusive profine

arimeo is available in black and the respective grey shades of the gaskets.

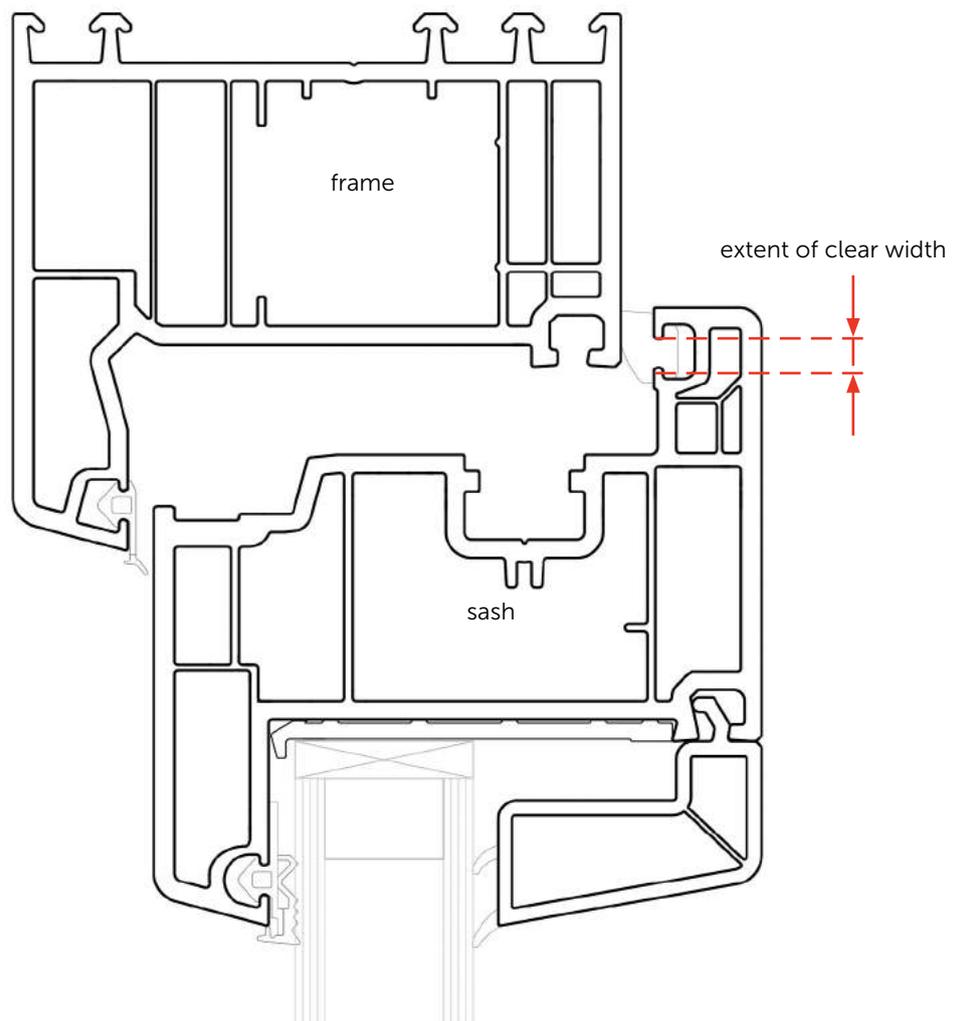
Identification of the type of arimeo classic S in uPVC windows

arimeo classic S can also be retrofitted in existing windows. As the window system is not generally known in these cases, the correct vent type is identified by measuring the gasket groove of the sash. Depending on the colour of the gasket, arimeo is available in black or grey.

vent type	extent of clear width [mm]
arimeo CS 0	2,3 – 2,7
arimeo CS 1	2,5 – 3,0
arimeo CS 2	3,0 – 3,5
arimeo CS 3	3,3 – 3,9
arimeo CS 4	3,8 – 4,4

Please define the color of the gasket.

- black
- papyrus white
- light gray
- silver gray



Text for tender

arimeo classic S for uPVC windows

Decentral window rebate vent for uPVC windows with exclusively automatic flow rate control through control flaps and installation in the upper sash regardless of window hardware. Concealed installation in the window rebate, without milling. Installation by locking into the groove of the sash overlap gasket. Vent is invisible when the window is closed. There are no elements that need to be operated and no visible vent elements attached additionally.

Exchange gaskets (included in delivery) allow the air to enter respectively exit in the area of the external frame gasket.

The following certificates issued by notified testing bodies must be presented:

- air permeability including air flow rate characteristic curve according to DIN EN 13141-1
- watertightness according to DIN EN 12208 in association with DIN EN 1027
- sound reduction value R_w according to EN ISO 10140-2, assessed according to EN ISO 717-1

product to offer: arimeo classic S

gasket colour of the window: _____

quantity: _____ unit: _____ unit price: _____ total price: _____

Test evidences

arimeo classic S has been tested by ift Rosenheim comprehensively, with regard to all important characteristics.

There is a classification report according to ift-guide-line LU-01/1. In addition, all of the vent's installation variants have been tested by ift for ventilation characteristics, watertightness and sound insulation.

All of the test reports can be reviewed as follows:

- 1 Either at www.ift-geprüft.de. Log-in data with respective ID is stated in the ift-icon below.
- 2 Or scan the QR code.

Classification report arimeo classic S



arimeo in the rebate gasket system



watertightness



ventilation characteristics



sound insulation*

arimeo in the centre gasket system



watertightness



ventilation characteristics



sound insulation*

* The associated test report can be reviewed at arimeo.de.

Exemplary classification report from ift Rosenheim

ift-Nachweis		ift ROSENHEIM																																	
Classification Report																																			
Number	17-000216-PR05 (NW-E02-02-en-01)																																		
Owner	Innoperform GmbH Alte Dorfstr. 18-24 02694 Malschwitz Germany																																		
Product	Window rebate ventilator „arimeo CS“ – differential pressure controlled Rebate seal system																																		
Designation	System designation: arimeo CS																																		
Details	Material: Rebate ventilator: ASA Replacement seal: extruded TPE																																		
Special features	Window: 1,230 mm x 1,480 mm Window rebate ventilator: 1 pc 200 mm Notch external rebate seal: 2 x 130 mm																																		
Result	<table border="0"> <tr> <td>Classification</td> <td></td> <td style="text-align: center;">K</td> <td style="text-align: center;">n</td> </tr> <tr> <td>Air flow exponent EN 13141-1</td> <td style="text-align: center;">Average value</td> <td style="text-align: center;">1.69</td> <td style="text-align: center;">0.53</td> </tr> <tr> <td>Air flow rate EN 13141-1</td> <td style="text-align: center;">Average value of air intake and exhaust</td> <td style="text-align: center;">2.44</td> <td style="text-align: center;">3.52</td> </tr> <tr> <td>Air permeability EN 1026</td> <td style="text-align: center;">open:</td> <td colspan="2" style="text-align: center;">3</td> </tr> <tr> <td>Watertightness EN 1027 / EN 13141-1</td> <td style="text-align: center;">open:</td> <td colspan="2" style="text-align: center;">9A</td> </tr> <tr> <td>Airborne sound insulation¹⁾ EN ISO 10140-2</td> <td style="text-align: center;">with window rebate ventilator:</td> <td colspan="2" style="text-align: center;">39 (-1;-3)</td> </tr> <tr> <td></td> <td style="text-align: center;">without window rebate ventilator</td> <td colspan="2" style="text-align: center;">40 (-1;-4)</td> </tr> <tr> <td>Burglar resistance </td> <td></td> <td colspan="2" style="text-align: center;">npd</td> </tr> </table>			Classification		K	n	Air flow exponent EN 13141-1	Average value	1.69	0.53	Air flow rate EN 13141-1	Average value of air intake and exhaust	2.44	3.52	Air permeability EN 1026	open:	3		Watertightness EN 1027 / EN 13141-1	open:	9A		Airborne sound insulation ¹⁾ EN ISO 10140-2	with window rebate ventilator:	39 (-1;-3)			without window rebate ventilator	40 (-1;-4)		Burglar resistance 		npd	
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	without window rebate ventilator	40 (-1;-4)																																	
Burglar resistance 		npd																																	
	<p>¹⁾ Pressure steps according to EN 14351-1 ^{**)} with insulating glass unit: 10/16/8/LSG-SF</p> <p>ift Rosenheim 24.01.2018</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Peter Marquardt, Dipl.-Ing. (FH) Deputy Head of Testing Department Building Component Testing</p> </div> <div style="width: 45%;"> <p>Thorsten Kast, Dipl.-Ing. (FH) Operating Product Officer Building Components</p> </div> </div>																																		
<p><small>Ver-PB1-4902-av (01.06.2017)</small></p>		<p>Basis *) ift-Richtlinie LU-01/1 2007-06 (*) and corresponding national versions e.g. DIN EN) Test report: 17-000216-PR03 PB 02-A01-02-de-01</p> <p>Representation</p> <p>Instructions for use The results obtained can be used as evidence in accordance with the above basis.</p> <p>Validity There is no time limit. When using this document the up-to-dateness of above basis and the conformity of the product have to be observed. The data and results given relate solely to the tested/described specimen. This test/evaluation does not allow any statement to be made on further characteristics of the present structure regarding performance and quality, in particular the effects of weathering and ageing. The result can be extrapolated in accordance with the specifications given in the product standard under the manufacturer's responsibility.</p> <p>Notes on publication The ift-Guidance Sheet "Conditions and Guidance for the Use of ift Test Documents" applies.</p> <p>Identity-Check</p> <p>www.ift-rosenheim.de ID: E45-88927</p>																																	
<p>ift Rosenheim GmbH Theodor-Giesel-Str. 7-9 D-33026 Rosenheim</p> <p>Contact Phone: +49 8031 261-0 Fax: +49 8031 261-290 www.ift-rosenheim.de</p> <p>Testing and Calibration – EN ISO/IEC 17025 Inspection – EN ISO/IEC 17020 Product Certification – EN ISO/IEC 17065 Certification of Management Systems – EN ISO/IEC 17021</p> <p> <small>Niederösterreich</small> <small>Bayer</small></p>		<p> Dakks Deutsche Akreditierungsstelle D-PL 11340-01-00</p>																																	

arimeo classic T

window rebate vent for timber windows
(short term arimeo CT)

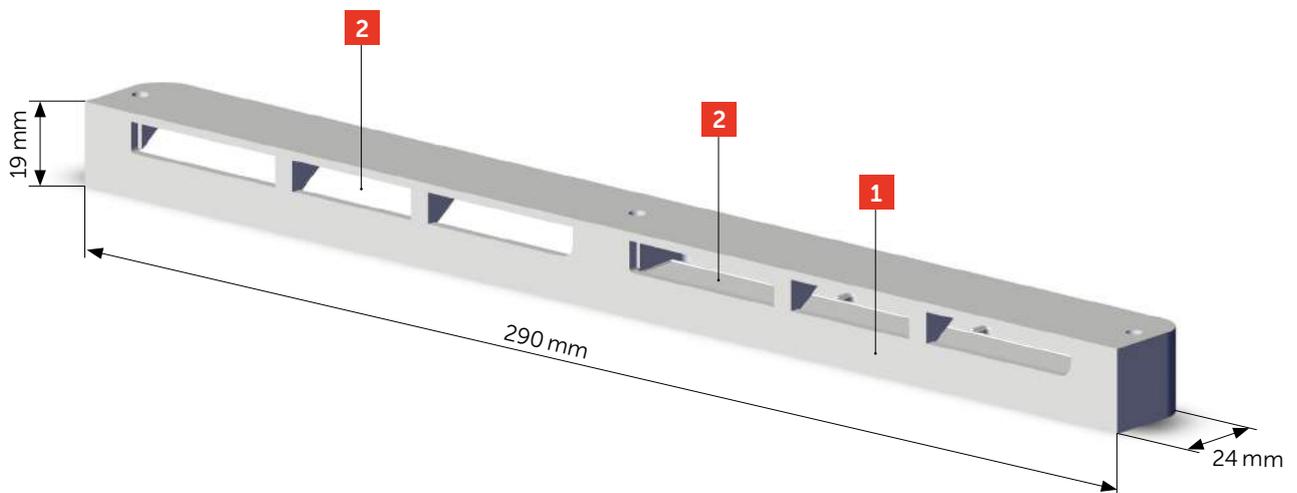
4

Product description

arimeo classic T is a window rebate vent for timber windows. It can be used in all current systems with stepped rebate from IV 68 on, to ensure air change when windows are closed. arimeo classic T is positioned in the frame and adapts the contour and colour of the frame. Thus, it stays almost invisible, even when the window is open.

Areas of application of arimeo classic T:

- cross ventilation
- as a pure fresh air supply device in combination with exhaust air fans
- as a combustion air supply device for room air-dependent gas hot water heaters or wood-burning stoves



- 1 Casing:** blends in the fixed frame in the area of the window rebate.
- 2 Control flaps:** control the air flow and ensure the tightness of the window exactly at the moment of wind pressure.

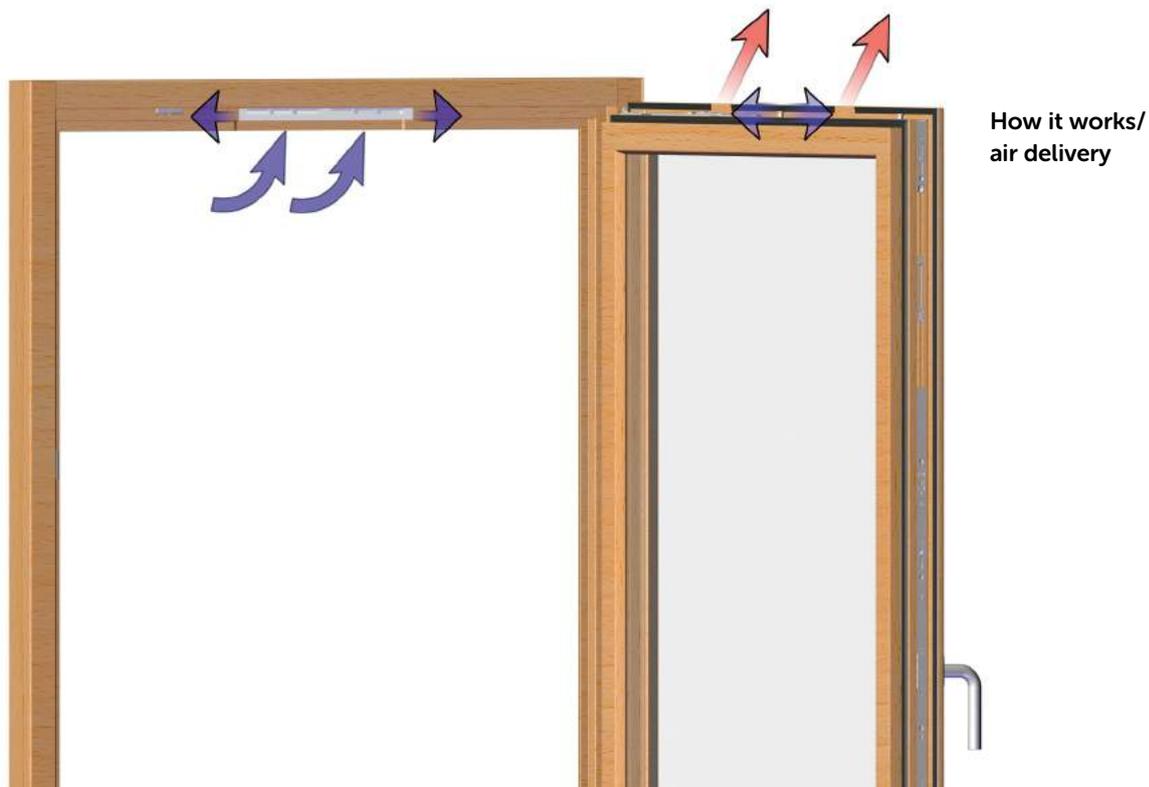
How it works

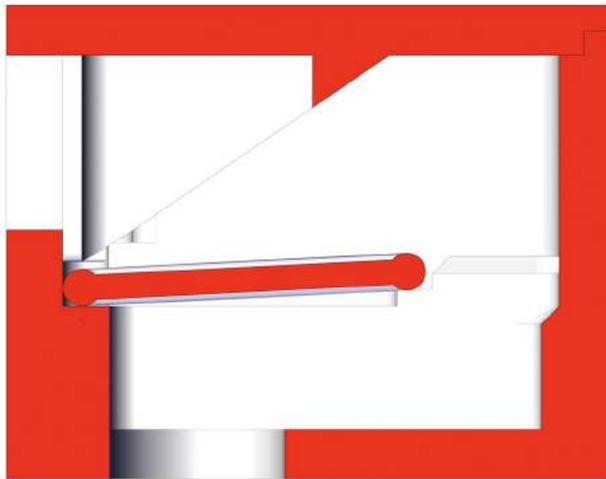
The air change is driven passively due to pressure differences between the inside and outside. In case of cross ventilation, pressure differences arise due to wind and thermal; in case of fan-assisted ventilation due to exhaust air systems.

The ventilation duct is realized through the window rebate exclusively, i.e. the space between the sash and the fixed frame. To achieve this, a milling of 2 mm is made in the fixed frame overlap to ensure air entrance. Hence, air can flow to the inside of the room by passing arimeo classic T and its control flaps. To ensure this air

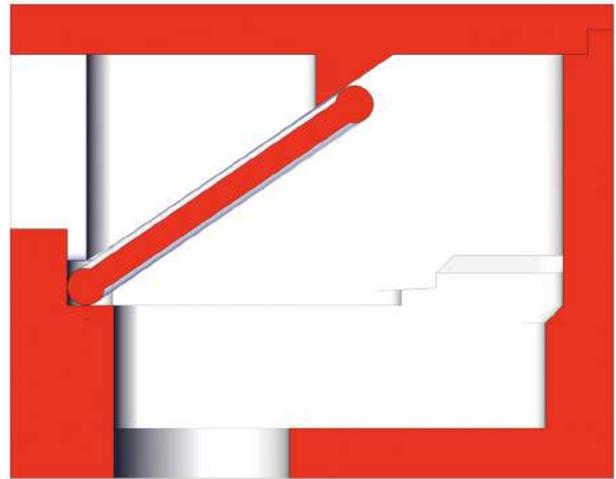
flow to the inside of the room, the sash overlap gasket is cut out at various points. The air flow described can arise bidirectionally, depending on the pressure difference.

In this air change sequence, arimeo is the regulating element in the window rebate. Thanks to the precise swivel joint technology of the control flaps, a sensitive air flow control is realized responding to the slightest movement of air. The control flaps of the arimeo classic T restrict the air flow with a high-sealing effect in case of high wind forces and thus, prevent draughts and waste of energy.





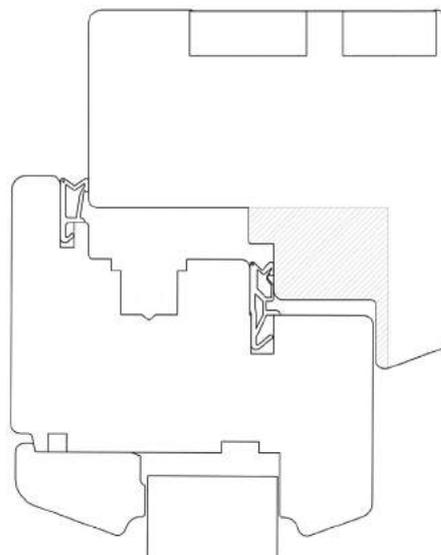
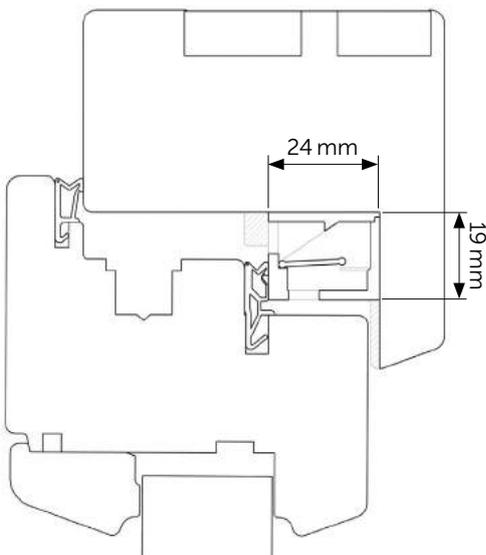
control flaps open
(under normal wind pressure)



control flaps closed
(under high wind pressure)



The casing of arimeo classic T is available in different colours.



cross section of a timber window with and without arimeo

Performance data of arimeo classic T

The following overview shows the results of system testing by ift Rosenheim using different arimeo classic T installation variants in **timber windows**. The different installation variants are shown in greater detail on the following pages.

arimeo in a timber window ¹										
installation variants	air passing values in m ³ /h								watertightness	
	2 Pa	3 Pa	4 Pa	5 Pa	6 Pa	7 Pa	8 Pa	10 Pa	DIN EN 13141-1 ²	DIN EN 12208
single acoustic ³	1,6	2,0	2,3	2,7	3,0	3,3	3,5	4,0	✓	9A
single ⁴	2,3	2,8	3,3	3,8	4,2	4,6	4,9	5,6	✓	9A
double ³	4,8	5,9	6,9	7,8	8,7	9,4	10,1	11,4	✓	9A
double 68 ⁴	4,6	5,6	6,6	7,4	8,1	8,8	9,4	10,6	✓	9A

arimeo in a timber window ¹							
installation variants	sound insulation						
	window without arimeo	45,5 dB	42,9 dB	42,1 dB	39,9 dB	39,1 dB	33,7 dB
single acoustic ³	window with arimeo	42,0 dB	40,4 dB	40,2 dB	38,7 dB	38,0 dB	33,5 dB
single ⁴		38,1 dB	37,3 dB	37,3 dB	36,6 dB	36,1 dB	32,9 dB
double ³		32,4 dB	32,2 dB	32,2 dB	32,2 dB	32,1 dB	30,4 dB
double 68 ⁴		32,2 dB	32,0 dB	32,0 dB	32,0 dB	31,9 dB	30,3 dB

¹ The stated values are based on tests with single sashed reference windows by ift Rosenheim.

² up to the maximum requirement of 150 Pa

³ for installation depths > IV 68

⁴ for IV 68 and larger installation depths

Test evidences

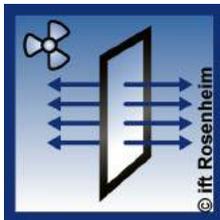
arimeo classic T has been tested by ift Rosenheim comprehensively, with regard to all important characteristics.

There is a classification report according to ift-guideline LU-01/1. In addition, all of the vent's installation variants have been tested by ift for ventilation characteristics, watertightness and sound insulation.

All of the test reports can be reviewed as follows:

- 1 Either at www.ift-geprüft.de. Log-in data with respective ID is stated in the ift-icon below.
- 2 Or scan the QR code.

Classification report for arimeo classic T



classification report*

arimeo in timber windows



watertightness



ventilation characteristics



sound insulation*

* The associated test report can be reviewed at arimeo.de.

Installation variants arimeo classic T

For timber windows, the arimeo classic T can be used in the installation variants shown below. The selection of an installation variant is primarily dependent on the vo-

lume of air and the sound insulation required. The test values for the individual variants are listed in the overview of the performance data.



SINGLE ACOUSTIC

1 arimeo classic T
length 290 mm

for installation depths > IV 68



SINGLE

1 arimeo classic T
length 290 mm

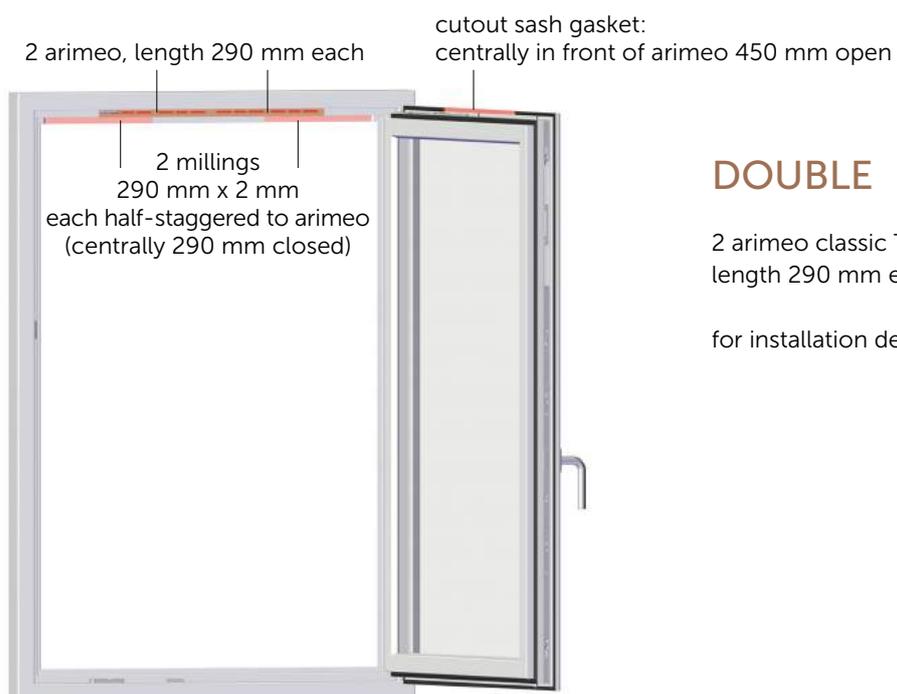
for IV 68 and larger
installation depths



DOUBLE 68

2 arimeo classic T, length 290 mm each

for IV 68 and larger installation depths

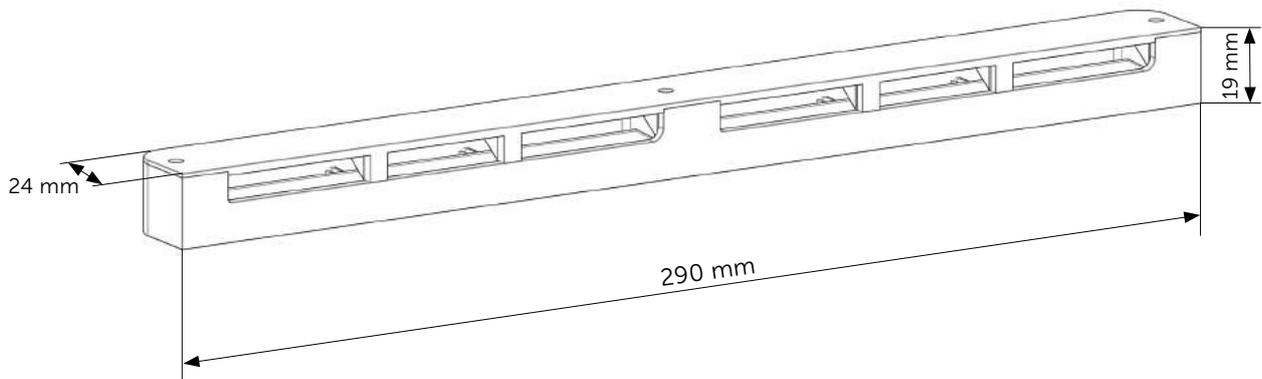


DOUBLE

2 arimeo classic T, length 290 mm each

for installation depths > IV 68

Installation instruction arimeo classic T for timber windows



Installation of arimeo on the fixed frame

- 1 arimeo classic S can be used in various installation variants. The number and position of the vents can be gathered from the separate presentation of the installation variants..
- 2 Mill out the upper fixed frame respectively transom at the positions defined for arimeo. This provides both the installation space for arimeo and the outer air supply gap (2 mm). Image 1 shows exemplary the dimension of the installation variant SINGLE.

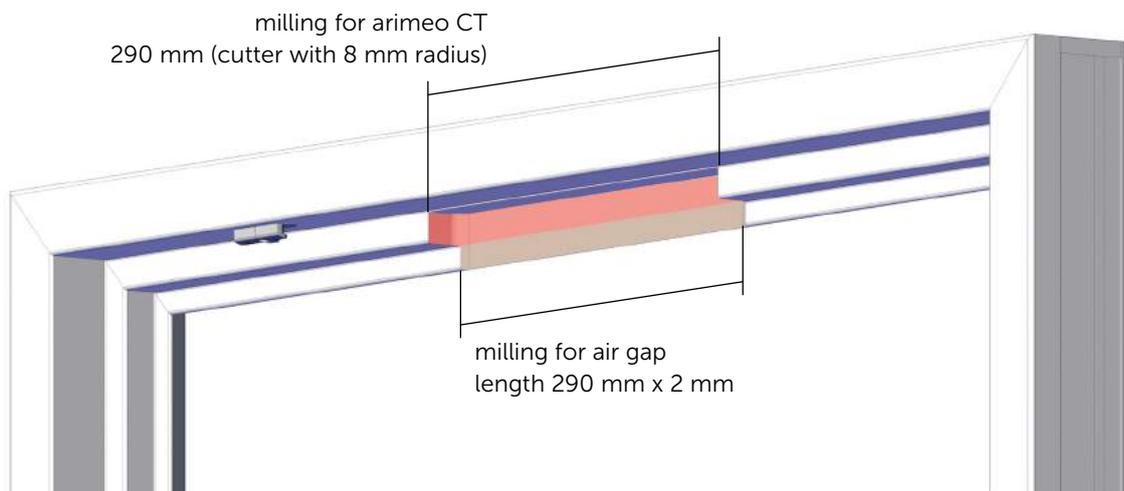


Image 1: milling

- 3** Treat all of the milled surfaces with the necessary wood preservative and screw the arimeo classic T in the milled-out installation space.

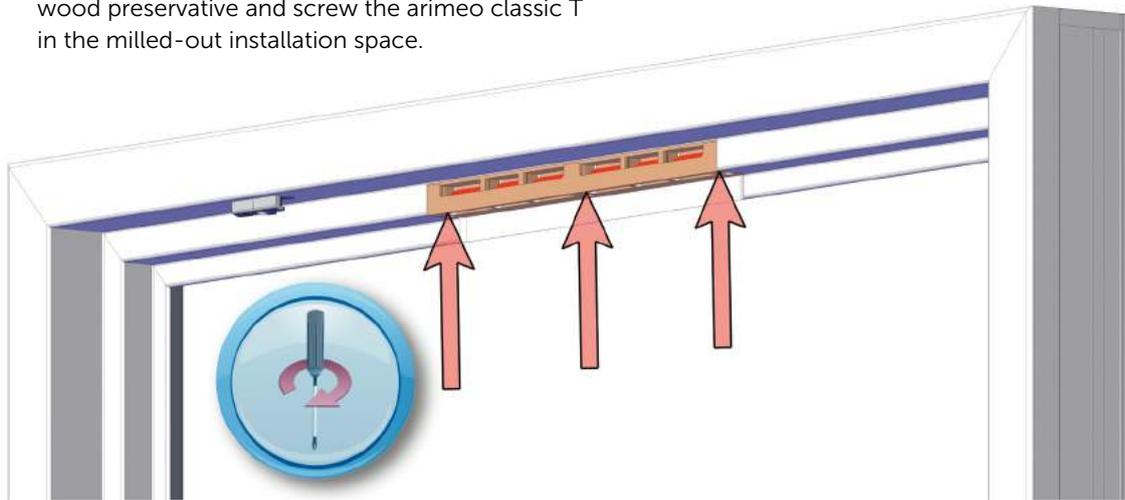


Image 2: screwing in the arimeo CT

Producing the inner air supply gap on the sash

- 4** Remove the inner sash overlap gasket at the positions defined in the presentation of the installation variants, producing the inner air supply gap. Image 3 shows exemplary the dimension of the installation variant SINGLE.
- 5** In case of systems without inner sash overlap gaskets, an inner air supply gap of 4 mm must be milled out.

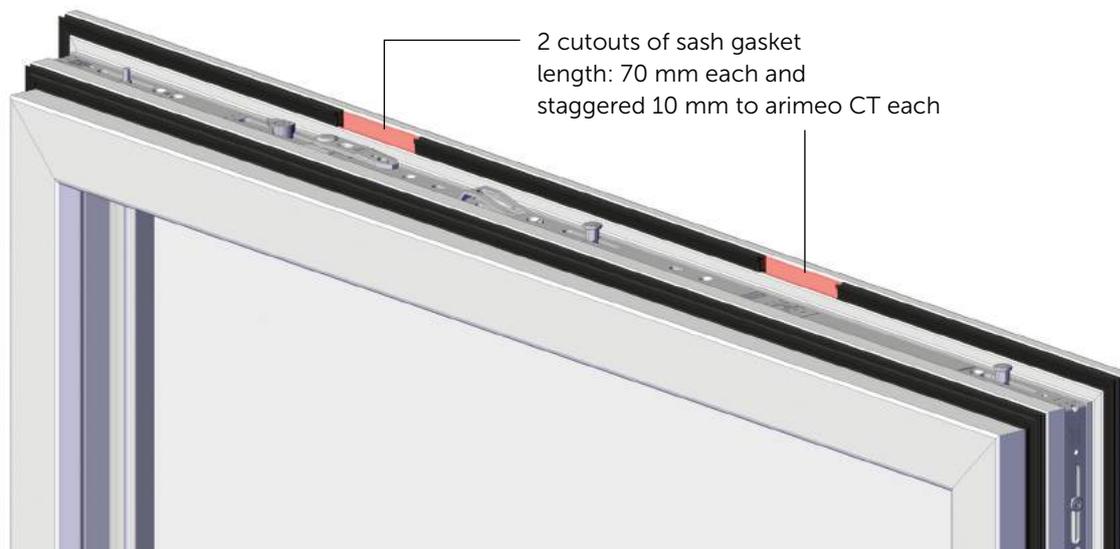


Image 3: air supply on sash

Important information on French casement windows

In case of French casement windows, the centre gasket level is to be run over the vent.

Text for tender

arimeo classic T for timber windows

Decentral window rebate vent for timber windows with exclusively automatic flow rate control through control flaps and installation in the upper fixed frame regardless of window hardware. Concealed installation in the window rebate. Milling of window rebate required. Mounting of the vent with 3 screws.

Vent is invisible when the window is closed. There are no elements that need to be operated and no visible vent elements attached additionally.

The following certificates issued by notified testing bodies must be presented:

- air permeability including air flow rate characteristic curve according to DIN EN 13141-1
- watertightness according to DIN EN 12208 in association with DIN EN 1027
- sound reduction value R_w according to EN ISO 10140-2, assessed according to EN ISO 717-1

product to offer: arimeo classic T

quantity: _____ unit: _____ unit price: _____ total price: _____

Exemplary evidence of ventilation characteristics from ift Rosenheim

ift-Nachweis



Number 17-000216-PR04 (NW 05-E02-02-en-01)

Owner Innoperform GmbH
Alte Dorfstr. 18-24
02694 Malschwitz
Germany

Product **Window rebate vent– react to wind pressure changes**

Designation Version 1: arimeo CT SINGLE
Version 2: arimeo CT SINGLE acoustic
Version 3: arimeo CT DOUBLE
Version 4: arimeo CT DOUBLE acoustic
Version 5: arimeo CT DOUBLE 68
build in a tilt and turn window IV90

Details Manufacturer Innoperform GmbH; Rebate vent: arimeo CT; Material rebate vent: ASA; Material window: soft wood laminated (FI);
Overall dimensions (W x H) 1,230 mm x 1,480 mm

Special features

Result
Ventilation characteristics according to ift-Guideline LU-01/1.2007-06¹⁾

	2-10 Pa		Air flow in m³/h at a pressure difference of							
	K	n	2 Pa	3 Pa	4 Pa	5 Pa	6 Pa	7 Pa	8 Pa	10 Pa
	arimeo CT SINGLE	1,53	0,56	2,25	2,83	3,32	3,77	4,17	4,55	4,90
arimeo CT SINGLE acoustic	1,04	0,59	1,56	1,98	2,34	2,67	2,97	3,25	3,51	4,01
arimeo CT DOUBLE	3,28	0,54	4,77	5,94	6,94	7,83	8,65	9,40	10,10	11,40
arimeo CT DOUBLE acoustic	1,65	0,56	2,44	3,06	3,60	4,08	4,51	4,82	5,30	6,01
arimeo CT DOUBLE 68	3,18	0,52	4,56	5,64	6,55	7,36	8,09	8,77	9,40	10,58

¹⁾ The results presented are calculated average values of the air permeability test of positive/negative pressures in the range of 2-10 Pa.

ift Rosenheim
06.12.2017



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Building Component Testing

Identity-Check 

www.ift-rosenheim.de/ift-geprueft
ID: 007-F158F

Basis *)
ift-Guideline LU-01/1.2007-06
*) and corresponding national versions
e.g. DIN EN
Test report: 17-000216-PR04 PB
10-E02-02-de-01

Representation



Validity
There is no time limit.
When using this document the up-to-dateness of above basis and the conformity of the product have to be observed.
This test / evaluation does not allow any statement to be made on any further characteristics regarding performance and quality of the construction presented, in particular the effects of weathering and ageing were not taken into account.

Notes on publication
The ift-Guidance Sheet "Conditions and Guidance for the Use of ift Test Documents" applies.

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Testing and Calibration – EN ISO/IEC 17025
Inspection – EN ISO/IEC 17020
Product Certification – EN ISO/IEC 17065
Certification of Management Systems – EN ISO/IEC 17021




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