

# **SOLUTIONS** FOR AGRICULTURAL AND INDUSTRIAL BUILDINGS



**MEAVARIO UND MEALON – CUSTOMISED AND EFFICIENT SOLUTIONS**

FRAME WINDOWS AND FRAME DOORS FOR BARNS AND HALLS







# EASIEST HANDLING: CUSTOM-FIT WINDOWS AND DOORS

## MEAVARIO casing system – Made to measure windows and doors

MEAVARIO products are manufactured exactly to the required dimensions and are ready for installation upon delivery to the site. With various design versions for masonry, in-situ concrete, prefabricated and steel construction, the system fits all possible construction requirements and guarantees optimum installation security. With dimensions up to 250 cm x 150 cm and wall thicknesses to 60 cm and a large variety of models (window in the reveal or flush to the inside), MEAVARIO can be used in any area of agricultural and industrial construction.

Light, heat and air quality have a great effect on the abilities of humans and animals. This knowledge plays a large role in the construction of agricultural and industrial facilities.

MEA installation components offer a wide variety of application options and easy handling during construction – from garages to warehouses, from outbuildings to industrial halls or barns for pigs or poultry. In addition, due to the changes in international energy policy, incentives are granted to agricultural and forestry enterprises – e.g. for insulation in stall barns.

## MEALON Individual – Ideal for modernisation

MEALON Individual windows and doors are produced precisely to requested specifications. Size, design, opening type, glazing – no window system has ever been so adaptable. This makes the system particularly attractive for renovation.

### MEAVARIO and MEALON

- ✓ MEAVARIO windows (Page 4 to 9)
- ✓ MEAVARIO doors (Page 10 to 13)
- ✓ MEALON casing system (Page 14)

Frame window  
MEAVARIO



Frame door  
MEAVARIO

# MEAVARIO

## TIME- AND COSTSAVING

MEAVARIO stands out thanks to its simple and uncomplicated handling: the casing, including the window, is manufactured to the planned dimensions and ready for installation upon delivery. Because of its low weight, using a crane for positioning is not necessary. With MEAVARIO window casing, the reveal has an attractive appearance and does not require further finishing. The smooth, pure white material provides a light appearance and is resistant and easy to clean.

### MEAVARIO always fits

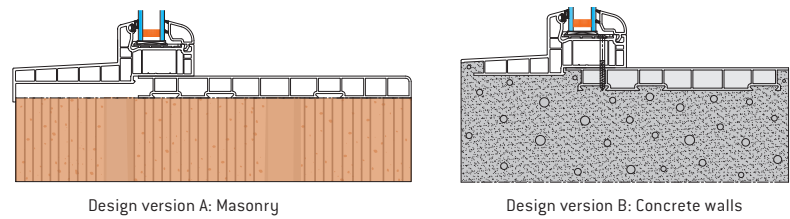
The MEAVARIO casing is available in design versions for masonry, in-situ concrete and prefabricated parts. In this way, the product range is suitable for every type of construction and guarantees the highest degree of installation reliability. The available window types for various purposes emphasize the universal character of the MEAVARIO range.



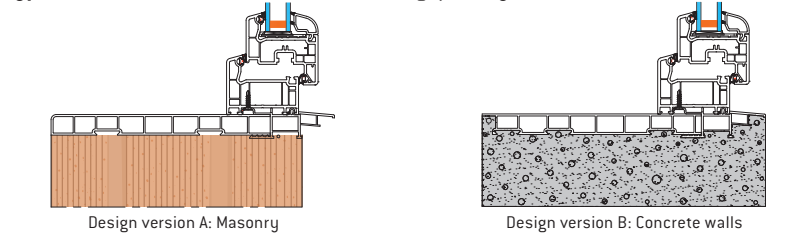
**MEAVARIO window types**

Due to the wide range of different application-specific basic types, the frame types can be customized for any wall construction and any respectively desired installation situation.

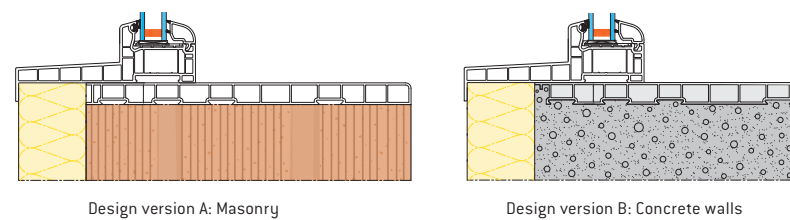
**Type 1: Window sill toward the inside (e.g. pig barn, industrial hall)**



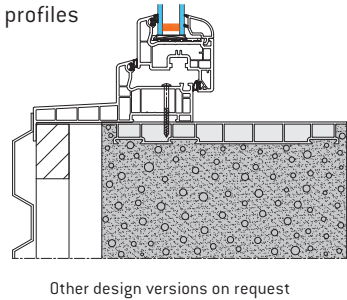
**Type 2: Window sill toward the outside (e.g. poultry barn)**



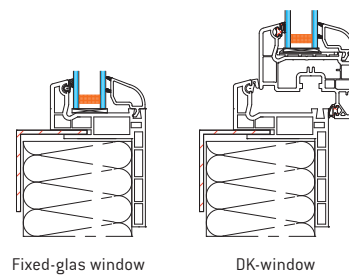
**Type 3: Insulation up to a maximum of 120 mm**



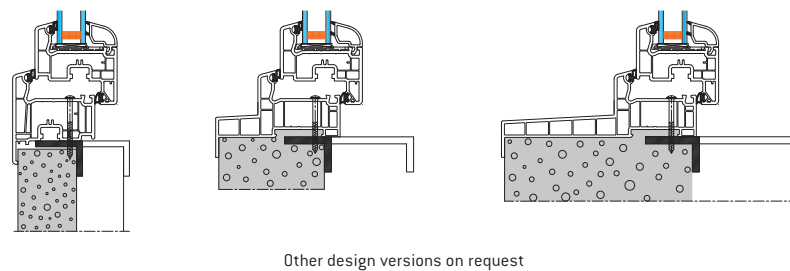
**Type 4: Window casing for trapezoidal profiles**



**Type 5: Clamp frames (sandwich)**



**Type 6: Clamp frame**



# MEVARIO OPENING VARIATIONS

Among the large variety of different opening solutions, all manual and all established motor-driven opening possibilities are adjustable to the MEVARIO system.

## Fixed-glass window

- ✓ windows with the largest possible glass surface for maximum lighting efficiency
- ✓ available with multi-chambered frame, divided horizontally or vertically
- ✓ starting from a width of 150 cm with centre mullion
- ✓ Color white

### Maximum dimensions (W x H):

Single casement: 180 cm x 150 cm  
Divided vertically: 250 cm x 150 cm  
Divided horizontally: 150 cm x 250 cm

## Tilting window, single casement

- ✓ with multi-chambered frame, plastic tilting lever fittings, three opening settings, locks right and left
- ✓ starting from a width of 130 cm with centre mullion
- ✓ single handed tilting windows are used with a window size of 125 cm x 125 cm.

### Maximum dimensions (W x H):

120 cm x 120 cm

## Tilt and turn window, single casement

- ✓ with multi-chambered frame
- ✓ with concealed Roto NT fitting, right-sided or left-sided hinging (DIN R or DIN L)
- ✓ Color white

### Maximum dimensions (W x H):

150 cm x 150 cm



Fixed-glass window



Tilting window,  
single casement



Tilt and turn window,  
single casement

### Glazing possibilities for all opening variations:

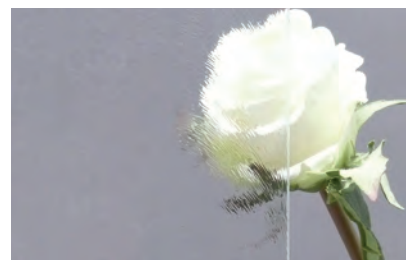
- ✓ Clear glass for maximum lighting efficiency
- ✓ Ornamental glass 504 (other ornamental glass types on request)
- ✓ 24 mm insulating glass  $U_g = 1,1 \text{ W/(m}^2\text{K)}$
- ✓ Glass thicknesses up to 36 mm available



Ornamental no. 504



Ornamental no. 178



Chinchilla

### Turn or tilt and turn window, double casement

- ✓ with multi-chambered frame, sash or mullion, can be divided asymmetrically
- ✓ with concealed Roto NT fitting
- ✓ Color white

### Tilt window, double casement, divided horizontally or vertically

- ✓ centre division with impost (can be divided asymmetrically with fixed glass section)
- ✓ three opening settings, locks right and left
- ✓ Color white

### Maximum dimensions (W x H):

250 cm x 150 cm

### Maximum dimensions (W x H):

vertical: 250 cm x 130 cm  
horizontal: 130 cm x 240 cm

### Maximum glass casement dimensions (W x H):

120 cm x 120 cm



Turn or tilt and turn window, double casement



Tilt window, double casement, divided horizontally or vertically

# MEAVARIO ACCESSORIES

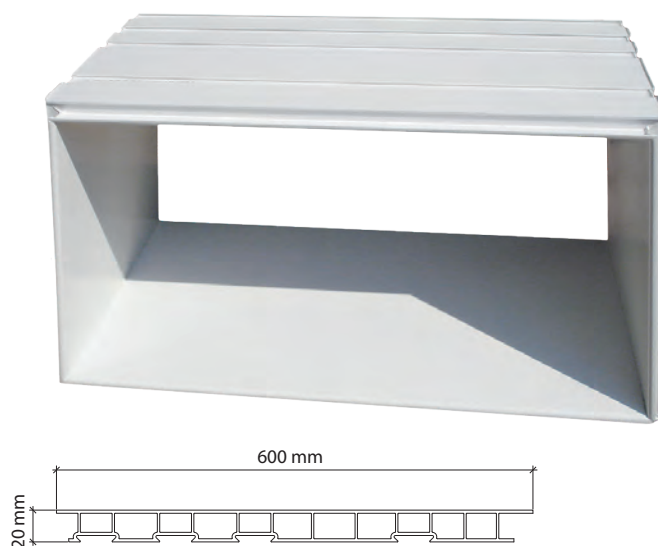
## MEAVARIO block out frames

- ✓ for ventilation flaps and ventilation systems
- ✓ can be installed after initial construction
- ✓ wall thicknesses: up to 60 cm

## Maximum dimensions (W x H):

250 cm x 150 cm

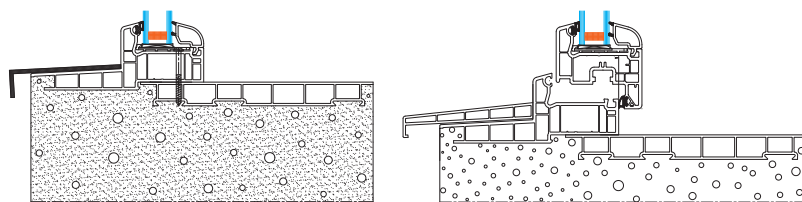
## MEAVARIO block out frames





**MEAVARIO window accessories**

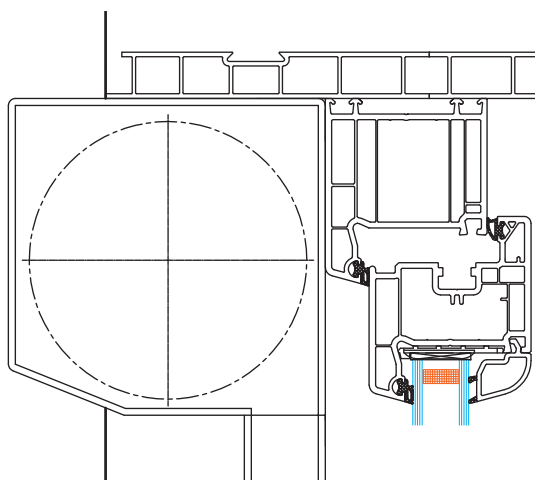
With customised dimensions and a wide variety of designs, MEAVARIO casement windows can be used anywhere – as well as the accessories. That applies for all MEAVARIO custom-made solutions.

**Drip edges**

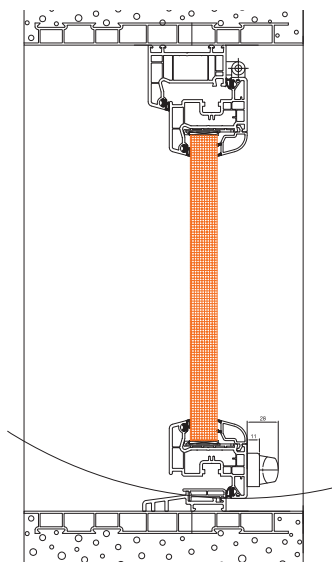
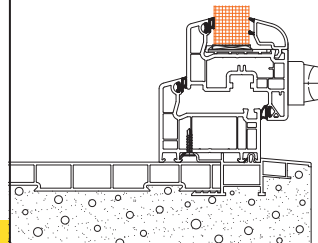
Design version A

Design version B

Drip edges improve water run-off, e.g. at window sills. They are mounted on the underside of the protruding component. Precipitation drips off without leaving dirt behind on the wall or the underside of the surface!

**Roller shutter boxes**

Roller shutters can be retrofitted to all window variations

**Standard valve solution****Valve solution with adapter profile**

# MEAVARIO DOORS: THE ALL-ROUNDERS

The MEA door range is a perfect completion to our frame and reveal window systems. For subsequent installation in concrete or masonry we offer the MEAVARIO plastic doors type "A" which match the MEALON products. The MEAVARIO plastic door frames type "B" can be set in concrete and thereby simplify the installation and complete the MEALUXIT offer for new construction.

Three door hinges ROTO 3D

Available fully paneled or with glass insert (clear or ornamental glass)

Up to 82 mm  
profile thickness

Door width  
105 mm

Door hinge either left or right  
(DIN L or DIN R)

Frame door:  
no form removal,  
no finish work  
required

Optional: pullpull  
handle set without  
profile cylinder

5- to 7-chamber  
hollow profiles

Robust, solid threshold

Reveal door design „A“

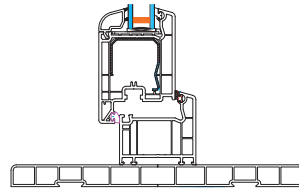
Frame door design „B“

### MEAVARIO framed door types

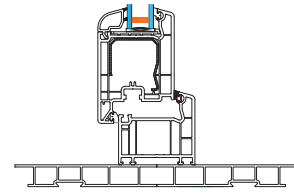
A variety of application-specific, basic framed door types enables the supply of customised frame solutions for any type of wall-construction and fits in all required build-in situations.

The corner and clamp frame doors are available for wall thicknesses from 3 cm to 30 cm. These framed doors are particularly suitable for walls built in timber-frame construction method and sandwich construction method.

#### Frame door

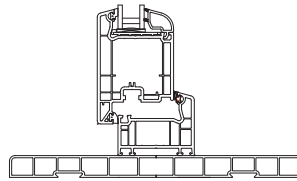


Design version A: Masonry

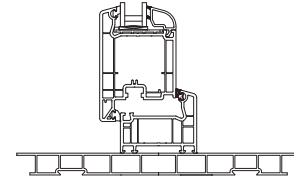


Design version B: Concrete walls

#### Escape door

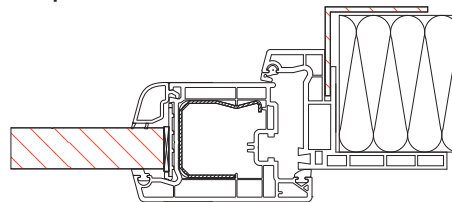


Design version A: Masonry

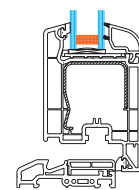


Design version B: Concrete walls

#### Clamp frame door

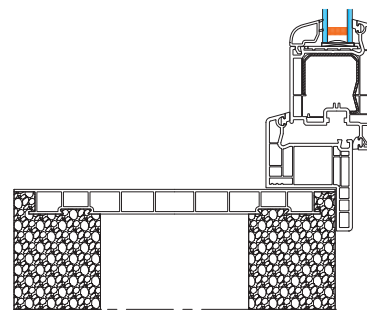


Design version A



Detail Design version A: Threshold bottom

#### Corner frame door





# MEAVARIO

## DOOR VARIATIONS AND ACCESSORIES

### Frame door

- ✓ surrounding frame
- ✓ cover frame on sides and top, threshold at bottom
- ✓ opens inward or outward
- ✓ with handles on both sides or door pull and handle
- ✓ for masonry (design version A) or concrete walls (design version B)
- ✓ aluminium corrugated plate available as an option
- ✓ right-sided or left-sided hinging (DIN R or DIN L)

**Wall thicknesses:** maximum 60 cm

**Glass insert:** Clear glass or ornamental glass 504, Insert size 1/3, 1/2 or 3/4

### Escape door

- ✓ surrounding frame, opens outward
- ✓ with grip recess on inner side
- ✓ with and without glass insert
- ✓ can only be opened from the inside

**Wall thicknesses:** maximum 60 cm

**Glass insert:** Clear glass or ornamental glass 504, Insert size 1/3, 1/2 or 3/4

### Corner frame door

- ✓ 3 sided angle cover frame at the sides and top, threshold at bottom (can be driven on) for placement at the wall or recess opening for later installation
- ✓ opens outward (180 degrees)
- ✓ ISO fill, 24 mm

### Clearance dimension (W x H) calculation:

wall opening measure minus 12.5 cm in width and 8.5 cm in height



Frame door



Escape door



Corner  
frame door

#### Clamp frame door

- ✓ 3 sided corner-cover frame at the sides and top, threshold at bottom (can be driven on) for placement at the wall or recess opening for later installation
- ✓ opens outward (180 degrees)
- ✓ design version F2 without profile cylinder
- ✓ ISO fill, 24 mm
- ✓ Delivered with opposing clamp bracket, fitted to given wall thickness

#### Clearance dimension (W x H) calculation:

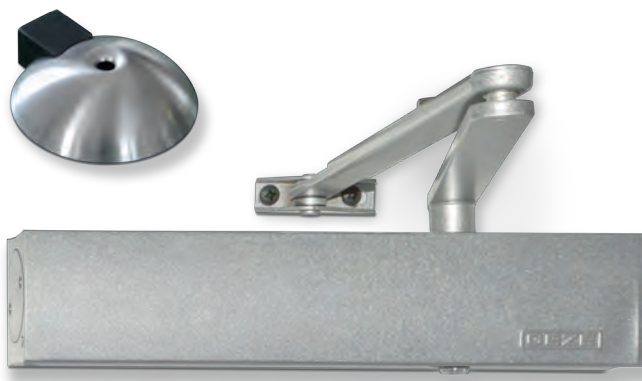
wall opening measure minus 12.5 cm in width and 8.5 cm in height



Clamp frame door

#### MEAVARIO door-accessories

Decorative ornamental glazing, electric door openers or monitoring contacts: Our door portfolio is complemented by a wide range of accessories – offering you the exact solution needed for your agricultural- or industrial building.



#### Accessories for plastic doors

- ✓ Overhead door closer
- ✓ Floor stopper
- ✓ Electric door opener
- ✓ Handle sets
- ✓ Profile cylinders standard
- ✓ Profile cylinders with rotary knob on one side

Further accessories on request

# MEALON

## THE ALL-ROUNDER FOR MODERNISING AND RENOVATING

MEALON is the all-rounder for barn and hall construction. The PVC window is highly recommended for renovation and modernisation purposes as well as for new buildings with formworked openings. MEALON tilt windows are predestined for unheated rooms such as stables or industrial halls.

The premium version is perfectly suitable for high-end thermal insulation purposes. For these special cases we offer MEALON Individual. The window can be adapted precisely to existing openings and is also available in special sizes from 30 cm x 40 cm to 150 cm x 150 cm.

Unplastizised (rigid) PVC frame,  
thermal-insulating, weatherresistant,  
color white (similar RAL 9010)



Thermal insulation properties  
to  $U_g = 0,6 \text{ W/(m}^2\text{K)}$



Through various additional  
profiles individually  
expandable and adaptable  
to existing openings



In standard- and special  
sizes available

MEALON Premium window



### MEA services

Whatever project you are planning, our contacts at MEA Bausysteme are always nearby to assist you. Our expert sales team can provide you with comprehensive advice on building and also offer training for planners, builders and building materials suppliers. Our extensive network of materials suppliers always has our products on stock and are ready to deliver at short notice.

Just give us a call and we will be happy to discuss your options with you.

You can find your own individual contact online on our contact page at:

**[www.mea-group.com](http://www.mea-group.com)**





**BUILDING SUCCESS**

MEA Bausysteme GmbH / Sudetenstraße 1 / 86551 Aichach  
[www.mea-group.com](http://www.mea-group.com)