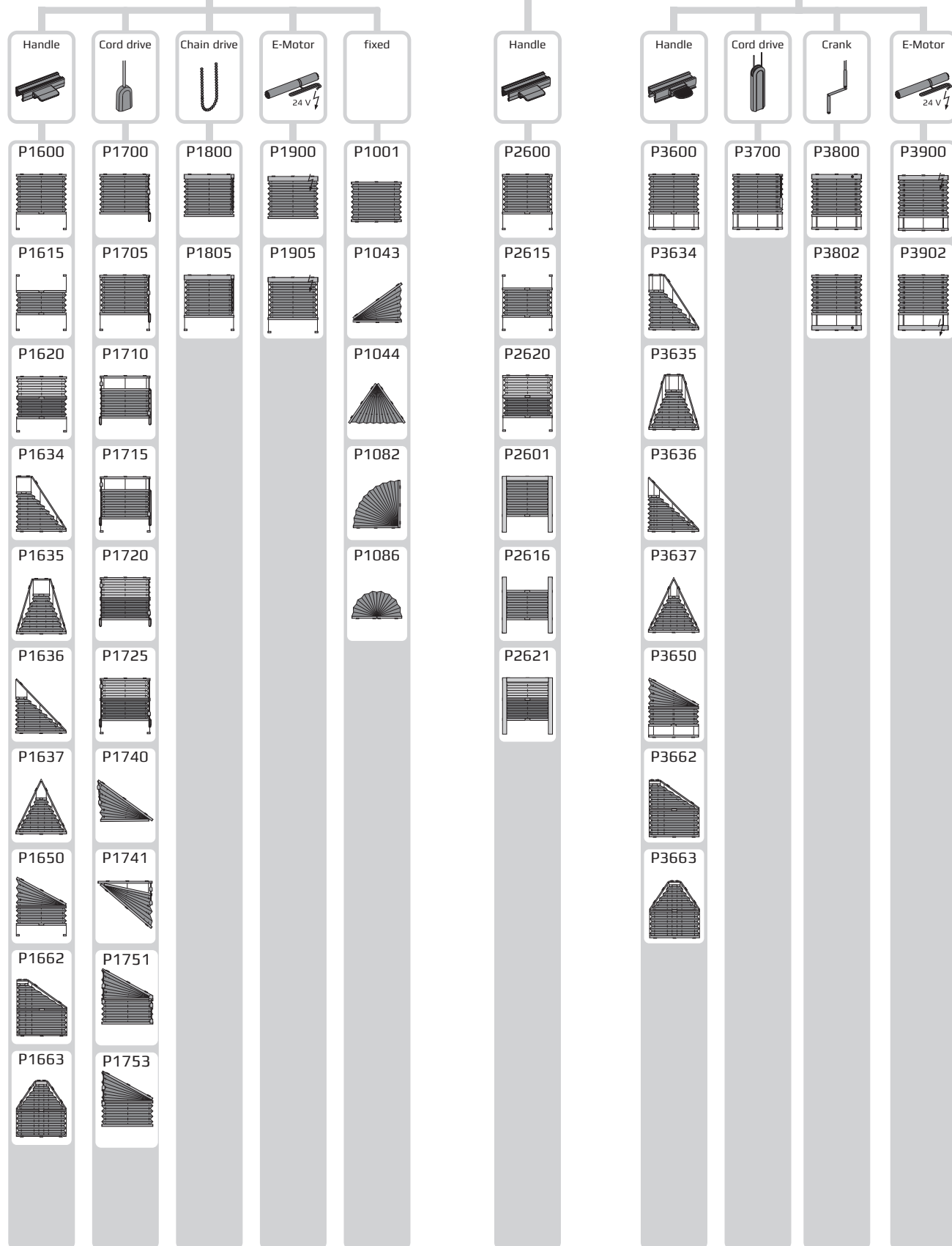
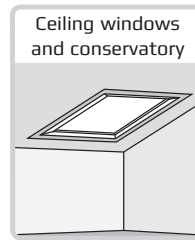
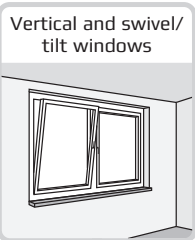


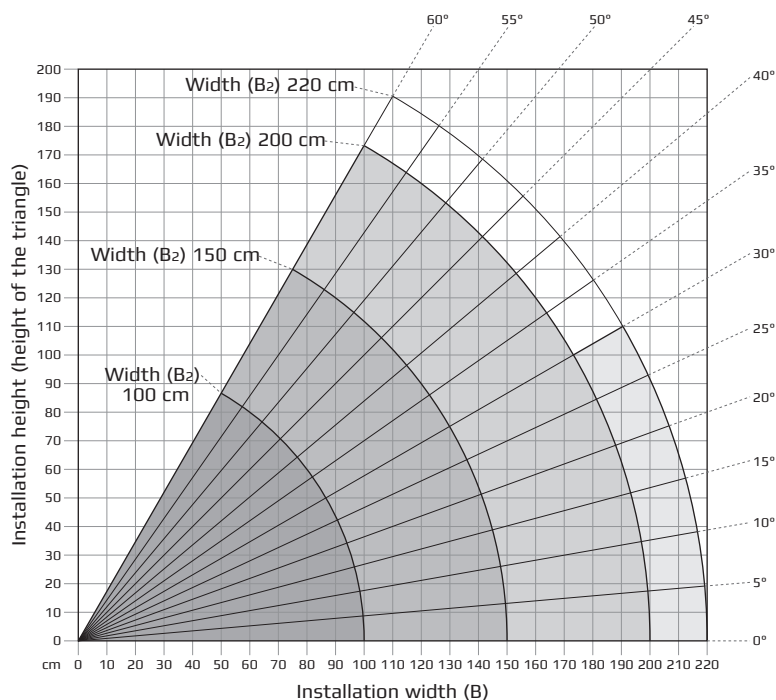
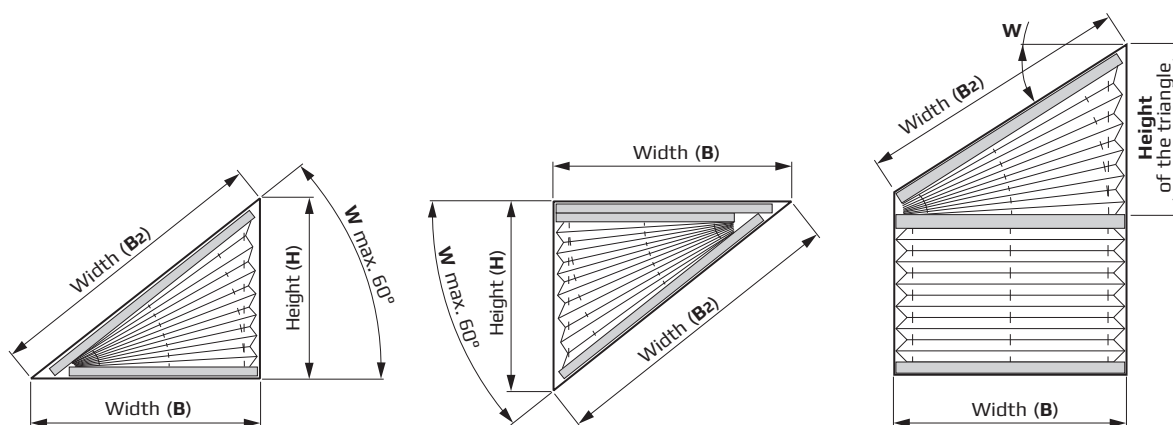
The logo consists of the word "BENTHIN" in a bold, sans-serif font, enclosed within a red oval border.

BENTHIN

**Pleated
Blinds**

**Data sheets
04/2013**





Notes- ventilation



Good ventilation is a must

For this both a **minimum distance to the glazing and louvres above and below** are required. In order to guarantee sufficient air circulation a **minimum distance of 100 mm** should be maintained between the pleating installation and the glass pane.

If the air circulation is insufficient, heat can accumulate and condensation water can occur.

Mounting directly on the glass pane:



In order to prevent **glass breakage** a **minimum distance to the glass pane** must be maintained!

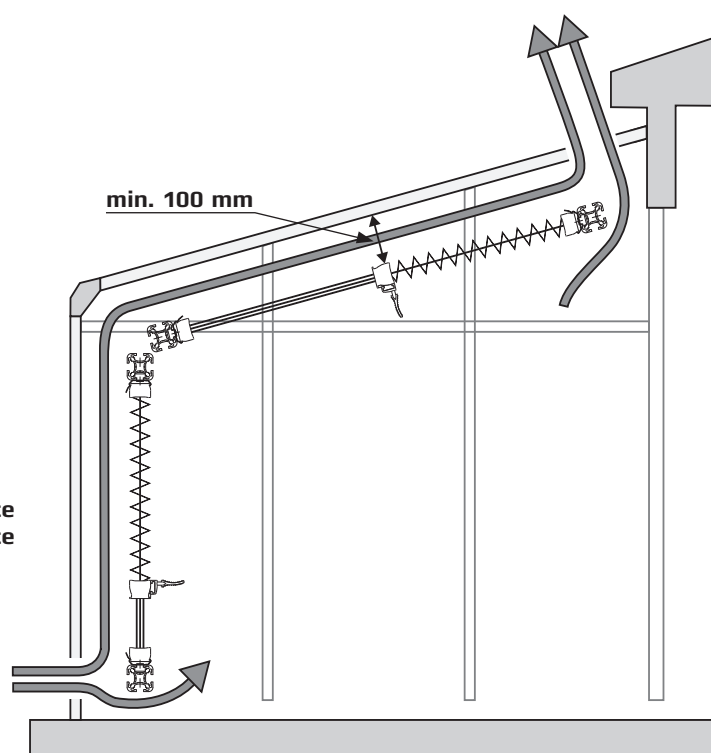
Recommendation:

Transparent materials **min. 3 mm back ventilation distance**

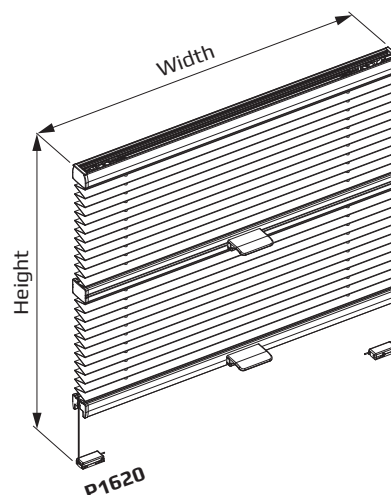
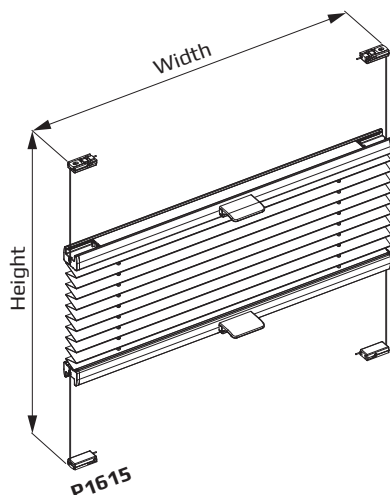
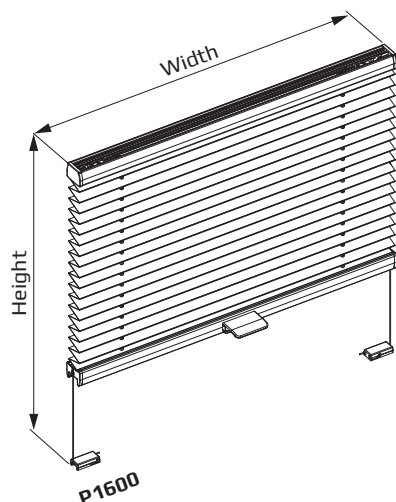
Opaque materials **min. 5 mm back ventilation distance**

(Special glasses might require more distance due to manufacturer's specifications).

We disclaim any warranty for material damage due to dripping water or insect excrements as well as glass breakage.



P1600 – Taut roof window installation with handle operation and hangings above.
P1615 – Variable taut roof window installation with handle operation and hangings.
P1620 – Taut roof window installation with handle operation and two hangings above.



Sizes/ Installation dimensions

- **Width:** min. 0.20 m
max. 1.20 m (installation height max. 2.20 m)
max. 1.50 m (installation height max. 1.60 m)
- **Height:** min. 0.20 m
max. 2.20 m (dependent on the material)
- **Surface:** max. 2.40 m²
- **Angle of inclination:** max. 15°

Operating mechanism

- Pleated fabric between two profile rails
- Fabric hangings can be stopped at any position
- Closed cord system taut over a patent-registered spring compressor
- Changes to the cord tensioning possible $\pm 5\text{-}10$ mm (dependent on the material)
- Cords made from polyester yarn, diameter of 0.8 mm
- Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic
- Locking function of the operation profile on tightening devices

Operation

- **Operating handle:** 1 operating handle in the middle up to 0.80 m installation width, 2 operating handles with more than 0.80 m installation width
- Optional: Operating rod (anodized aluminium rod E6/EV1) with plastic joint and end cap in black

Upper and lower rail Middle profile

- **Width:** 22 mm
- **Height:** 16 mm
- Aluminium extruded (Al Mg Si 0.5 F22)
- Hole punch (Ø6.0 mm) equipped with abrasion-resistant plastic cord eyes

Colours

- **Profile rail:** Technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015)
- Visible **plastic parts** adapted to the profile colours in grey, black, bronze, white or beige

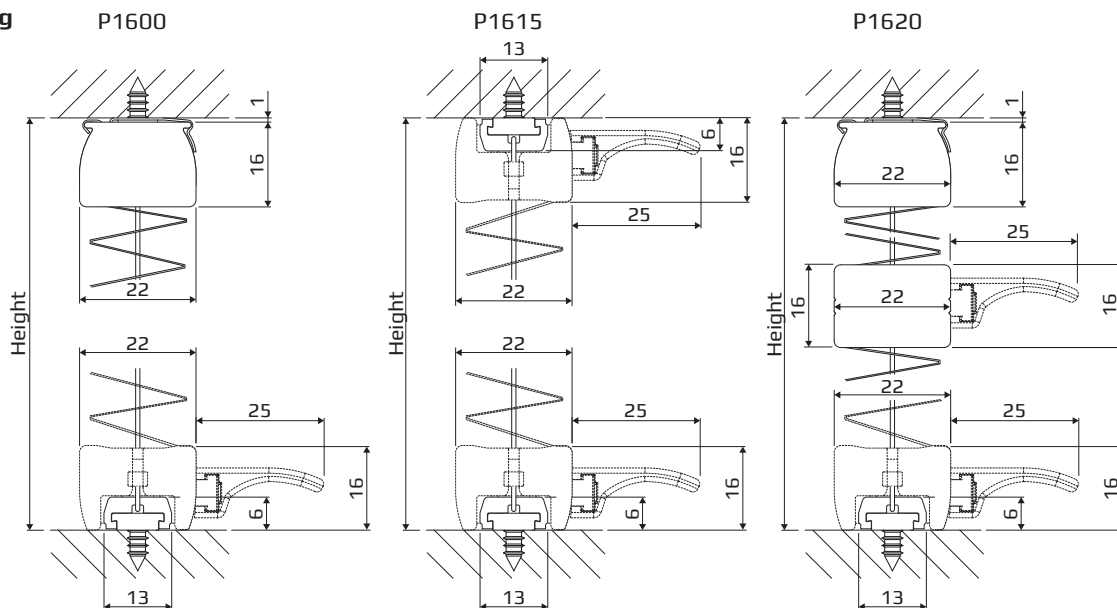
Hangings

- Pleated fabric hangings • 20 mm pleat width • visible drilled hole (Ø3.5 mm) for cord guide bracket
- Distance between the cords 0.28 or 0.35 m (dependent on the material)

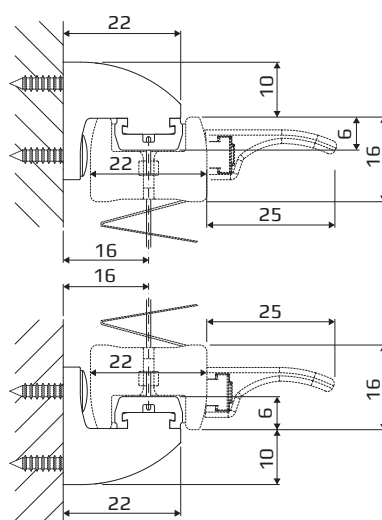
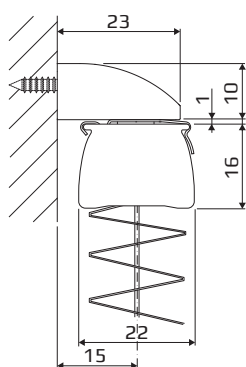
Mounting

- **Fixing of upper rail:** Flat fixing clip (V2A) with a light slit of less than 1 mm or plastic glazing bead holder with fixing clip (V2A) or on the fixing angle
- **Fixing of tightening devices:** Screw the small fixing plate directly on the frame (DIN 7982 Ø4,2 x 13 mm) or with the plastic glazing bead holder or with the fixing angle

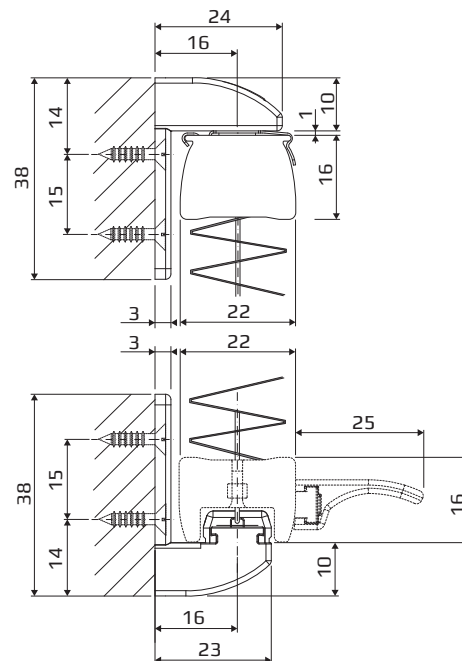
Fixing



Glazing bead holder



Fixing angle

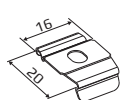


Package dimensions

Installation height	Package height (in mm)	P1600	P1615	P1620
0.50 m	37-41			
1.00 m	40-48			
1.50 m	44-55			
2.00 m	48-62			
2.20 m	49-65			

Accessories

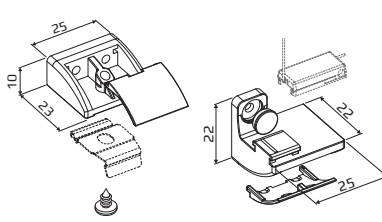
Ceiling clip



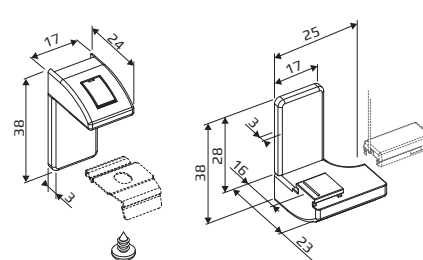
Tensioning shoe mount



Glazing bead holder

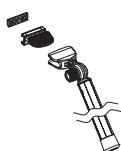


Fixing angle



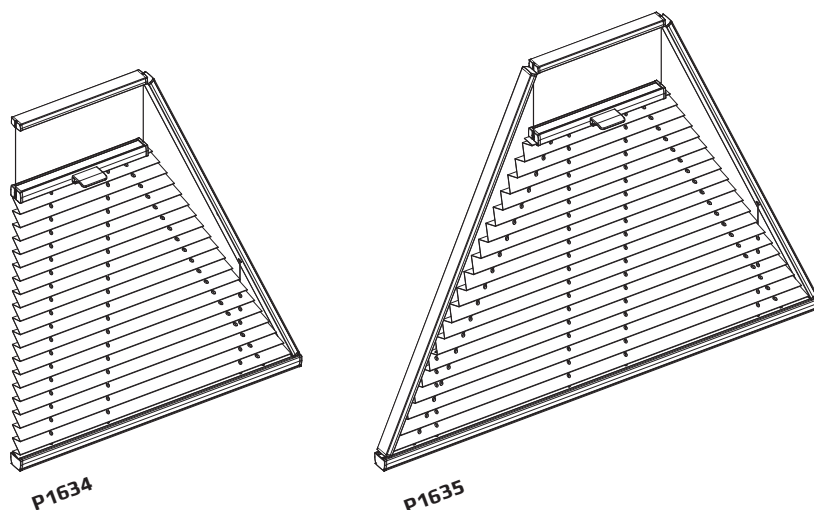
Operating rod

Rod (anodized) with joint universal, reaches up to the operating handle universal. Length: 1.00 m, 1.50 m or 2.00 m (Special length up to max. 3.00 m on request)



P1634 – Taut roof window installation with handle operation and slanted hangings on the one side.

P1635 – Taut roof window installation with handle operation and slanted hangings on both sides.



Sizes/ Installation dimensions

- **Width:** min. 0.20 m (Type P1634)
min. 0.30 m (Type P1635)
max. 1.50 m
- **Height:** min. 2.00 m
- **Width off-set:** min. 0.05 m
max. 1.20 m
- **Width W2:** min. 0.085 m (Type P1634)
- **Width W2:** min. 0.10 m (Type P1635)
- **Angle of inclination:** max. 15°

Operating mechanism

- Pleated fabric between two profile rails
- Fabric hangings can be stopped at any position
- Closed cord system taut over a spring compressor
- Elastic ceiling cord diameter 1.25 mm
- Cords made from polyester yarn, diameter of 0.8 mm
- Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic

Operation

- **Operating handle:** 1 operating handle in the middle up to 0.80m installation width **W2**, 2 operating handles with more than 0.80 m installation width **W2**
- Optional: Operating rod (anodized aluminium rod E6/EV1) with plastic joint and end cap in black

Middle profile/ Lower rail Upper rail Side profile

- **Width:** 22 mm
- **Height:** 16 mm
- **Width:** 20 mm
- **Height:** 13 mm
- Aluminium extruded (Al Mg Si 0.5 F22)
- Hole punch (Ø6.0 mm) equipped with abrasion-resistant plastic cord eyes

Colours

- **Profile rail:** Technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015)
- Visible **plastic parts** adapted to the profile colours in grey, black, bronze, white or beige

Hangings

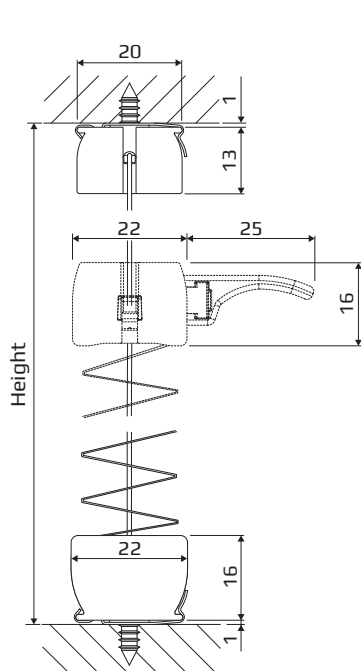
- Pleated fabric hangings • 20 mm pleat width • visible drilled hole (Ø3.5 mm) for cord guide bracket
- Distance between the cords 0.28 or 0.35 m (dependent on the material)

Mounting

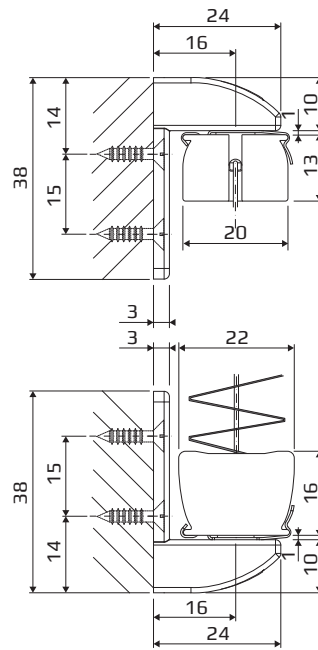
- **Fixing of upper, lower and side profiles:** Flat fixing clip (V2A) with a light slit of less than 1 mm or with fixing clip (V2A) on the fixing angle

Fixing

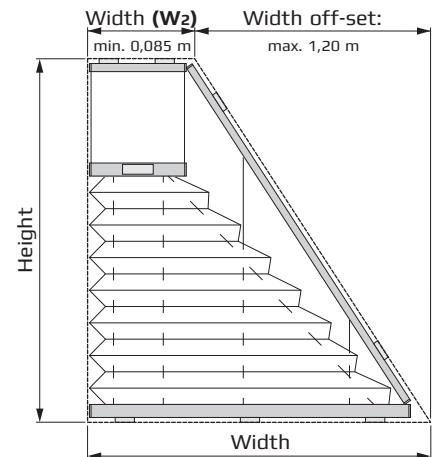
P1634 / P1635



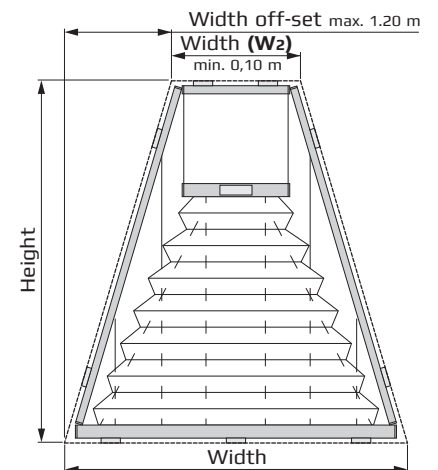
Fixing angle



P1634



P1635



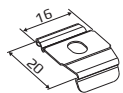
Package dimensions

Installation height Package height (in mm)

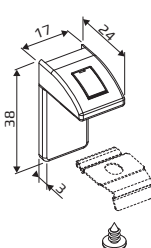
0.50 m	37-41	
1.00 m	40-48	
1.50 m	44-55	
2.00 m	48-62	

Accessories

Deckenclip

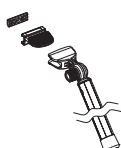


Fixing angle



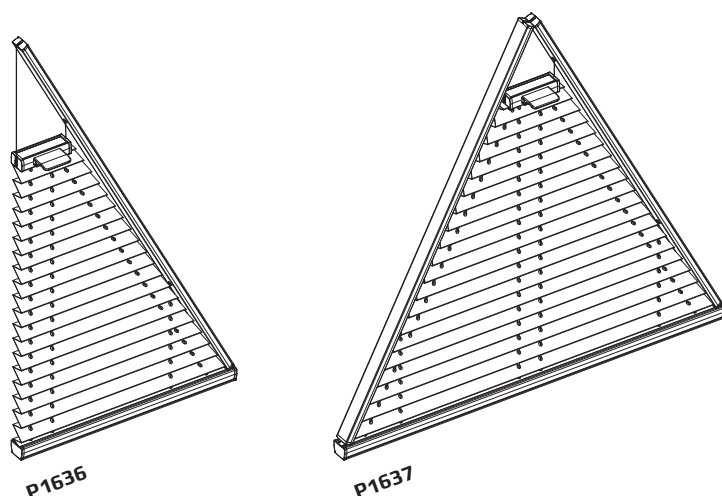
Operating rod

Rod (anodized) with joint universal, reaches up to the operating handle universal.
Length: 1.00 m, 1.50 m or 2.00 m (Special length up to max. 3.00 m on request)



P1636 – Taut triangle installation with handle operation (right-angled triangle).

P1637 – Taut triangle installation with handle operation (isosceles triangle).



Sizes/ Installation dimensions

- **Width:** min. 0.30 m
max. 1.20 m
- **Height:** min. 0.20 m
max. 2.00 m
- **Angle of inclination:** max. 15°

Operating mechanism

- Pleated fabric between two profile rails
- Fabric hangings can be stopped at any position
- Closed cord system taut over a spring compressor
- Cords made from polyester yarn, diameter of 0.8 mm
- Elastic ceiling cord diameter 1.25 mm
- Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic

Operation

- **Operating handle:** 1 operation handle in the middle
- Optional: Operating rod (anodized aluminium rod E6/EV1) with plastic joint and end cap in black

Middle profile/ Lower rail Side profile

- **Width:** 22 mm
- **Height:** 16 mm
- **Width:** 20 mm
- **Height:** 13 mm
- Aluminium extruded (Al Mg Si 0.5 F22)
- Hole punch (Ø6.0 mm) equipped with abrasion-resistant plastic cord eyes

Colours

- **Profile rail:** Technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015)
- Visible **plastic parts** adapted to the profile colours in grey, black, bronze, white or beige

Hangings

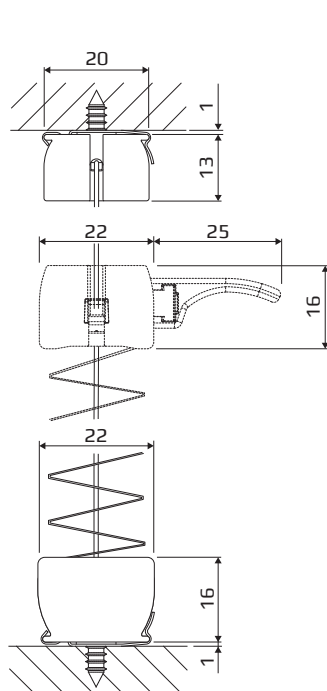
- Pleated fabric hangings • 20 mm pleat width • visible drilled hole (Ø3.5 mm) for cord guide bracket
- Distance between the cords 0.28 or 0.35 m (dependent on the material)

Mounting

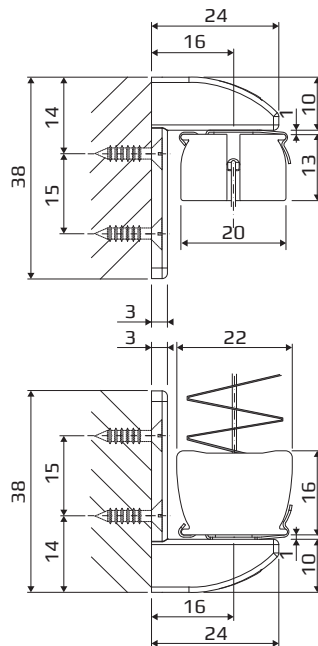
- **Fixing of upper, lower and side profiles:** Flat fixing clip (V2A) with a light slit of less than 1 mm or with fixing clip (V2A) on the fixing angle

Fixing

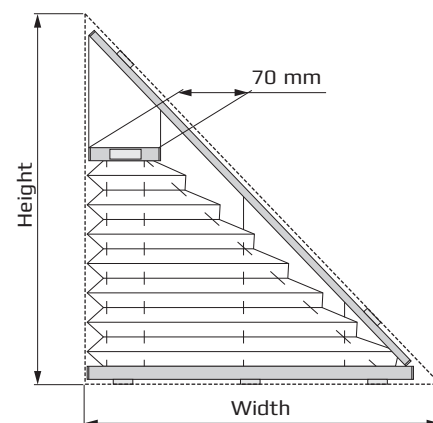
P1636 / P1637



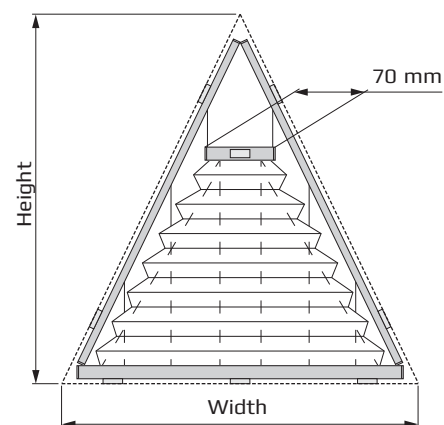
Fixing angle



P1636



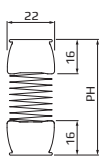
P1637



Package dimensions

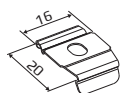
Installation height Package height (in mm)

0.50 m	37-41
1.00 m	40-48
1.50 m	44-55
2.00 m	48-62

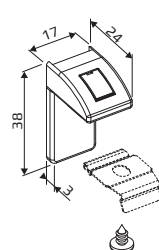


Accessories

Ceiling clip

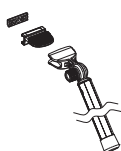


Fixing angle

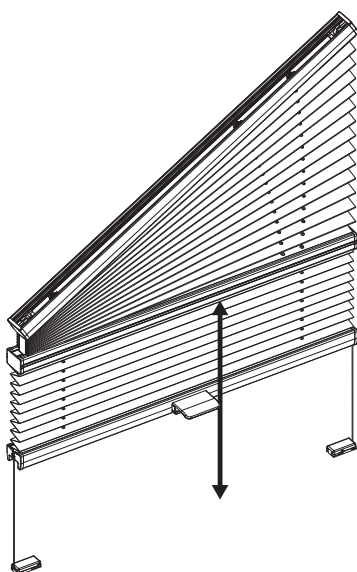


Operating rod

Rod (anodized) with joint universal, reaches up to the operating handle universal.
Length: 1.00 m, 1.50 m or 2.00 m (Special length up to max. 3.00 m on request)



P1650 – Taut slope installation with handle operation.


**Sizes/
Installation dimensions**

- **Width:** min. 0.30 m
max. 1.50 m (dependent on the angle)
- **Width W2** max. 2.00 m to 60° (dependent on the material)
max. 2.20 m to 30° (dependent on the material)
- **Height (HR or HL):** min. 0.20 m
max. 3.00 m
- **Height H2** min. 0.10 m
max. 1.50 m (installation width max. 1.50 m)
max. 2.20 m (installation width max. 1.20 m)
- **Angle of installation:** 5-60°
- **Angle of inclination:** max. 15°

Operating mechanism

- Pleated fabric between two profile rails
- Fabric hangings can be stopped at any position
- Closed cord system taut over a patent-registered spring compressor
- Cords made from polyester yarn, diameter of 0.8 mm
- Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic

Operation

- **Operating handle:** 1 operating handle in the middle up to 0.80 m installation width, 2 operating handles with more than 0.80 m installation width
- Optional: Operating rod (anodized aluminium rod E6/EV1) with plastic joint and end cap in black

**Upper and lower rail
Middle profile**

- **Width:** 22 mm
- **Height:** 16 mm
- Aluminium extruded (Al Mg Si 0.5 F22)
- Hole punch (Ø6.0 mm) equipped with abrasion-resistant plastic cord eyes

Colours

- **Profile rail:** Technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015)
- Visible **plastic parts** adapted to the profile colours in grey, black, bronze, white or beige

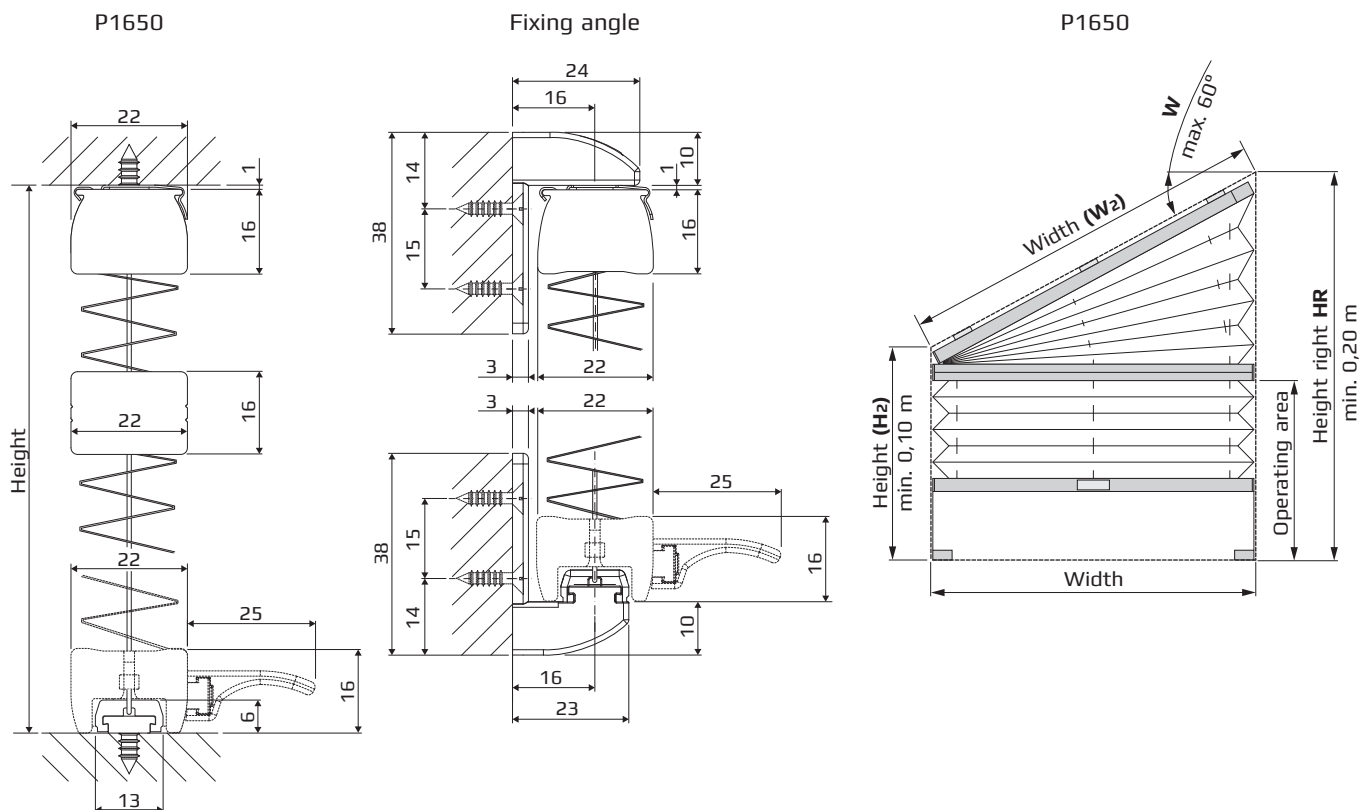
Hangings

- Pleated fabric hangings • 20 mm pleat width • visible drilled hole (Ø3.5 mm) for cord guide bracket
- Distance between the cords 0.28 or 0.35 m (dependent on the material)

Mounting

- **Fixing of upper rail:** Flat fixing clip (V2A) with a light slit of less than 1 mm or on the fixing angle with fixing clip (V2A)
- **Fixing of tightening devices:** Screw the small fixing plate directly on (DIN 7982 Ø4.2 x 13 mm) or with the fixing angle

Fixing



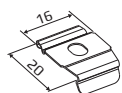
Package dimensions

installation height **H2** Package height (in mm)

0,50 m	37-41	
1,00 m	40-48	
1,50 m	44-55	
2,00 m	48-62	
2,20 m	49-65	

Accessories

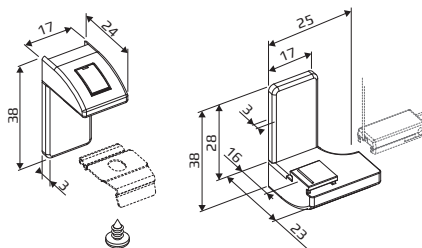
Ceiling clip



Tensioning shoe mount

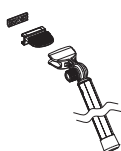


Fixing angle



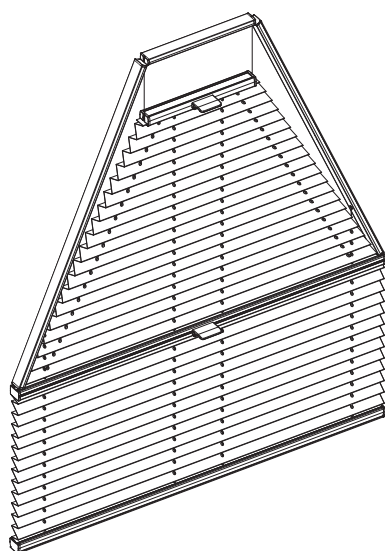
Operating rod

Rod (anodized) with joint universal, reaches up to the operating handle universal.
Length: 1.00 m, 1.50 m or 2.00 m (Special length up to max. 3.00 m on request)

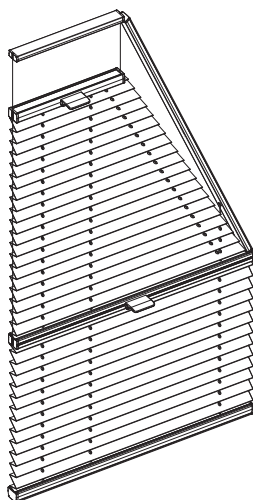


P1662 – Taut pentagon installation with handle operation.

P1663 – Taut hexagon installation with handle operation.



P1663



P1662

Sizes/ Installation dimensions

- **Width:**
 - min. 0.20 m (Type P1662)
 - min. 0.30 m (Type P1663)
 - max. 1.20 m (installation height max. 2.00 m)
 - max. 1.50 m (installation height max. 1.50 m)
- **Height (HR or HL):**
 - min. 0.20 m
 - max. 2.00 m
- **Height H2**
 - min. 0.10 m
 - max. 1.50 m (installation width max. 1.50 m)
 - max. 1.90 m (installation width max. 1.20 m)
- **Width off-set:**
 - min. 0.05 m
 - max. 1.20 m
- **Width W2:**
 - min. 0.085 m (Type P1662)
 - max. 1.45 m
- **Width W2:**
 - min. 0.10 m (Type 1663)
 - max. 1.40 m
- **Angle of inclination:** max. 15°

Operating mechanism

- Pleated fabric between two profile rails
- Fabric hangings can be stopped at any position
- Closed cord system taut over a spring compressor
- Cords made from polyester yarn, diameter of 0.8 mm
- Elastic ceiling cord diameter 1.25 mm
- Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic

Operation

- **Operating handle:** 1 operating handle in the middle up to 0.80 m installation width (2 operating handles with more than 0.80 m installation width)
- Optional: Operating rod (anodized aluminium rod E6/EV1) with plastic joint and end cap in black

Middle profile/ Lower rail Upper rail Side profile

- **Width:** 22 mm
- **Height:** 16 mm
- **Width:** 20 mm
- **Height:** 13 mm
- Aluminium extruded (Al Mg Si 0.5 F22)
- Hole punch (Ø6.0 mm) equipped with abrasion-resistant plastic cord eyes

Colours

- **Profile rail:** Technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015)
- Visible **plastic parts** adapted to the profile colours in grey, black, bronze, white or beige

Hangings

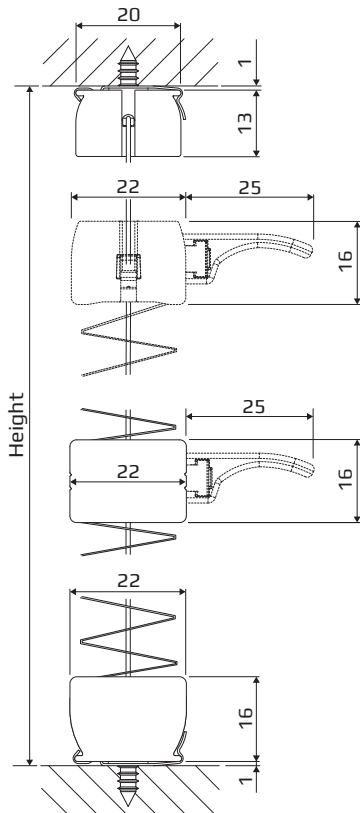
- Pleated fabric hangings • 20 mm pleat width • visible drilled hole (Ø3.5 mm) for cord guide bracket
- Distance between the cords 0.28 or 0.35 m (dependent on the material)

Mounting

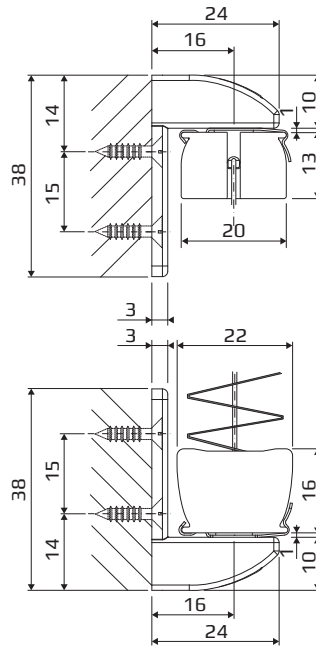
- **Fixing of upper, lower and side profiles:** Flat fixing clip (V2A) with a light slit of less than 1 mm or with fixing clip (V2A) on the fixing angle

Fixing

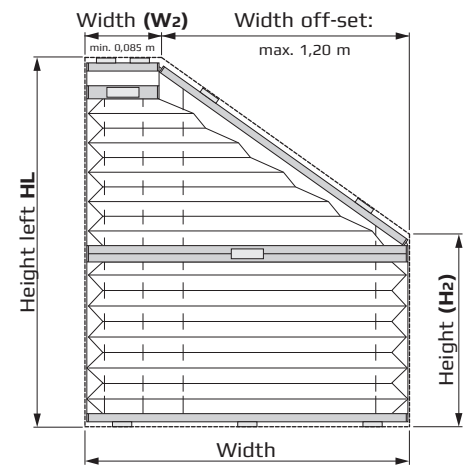
P1662 / P1663



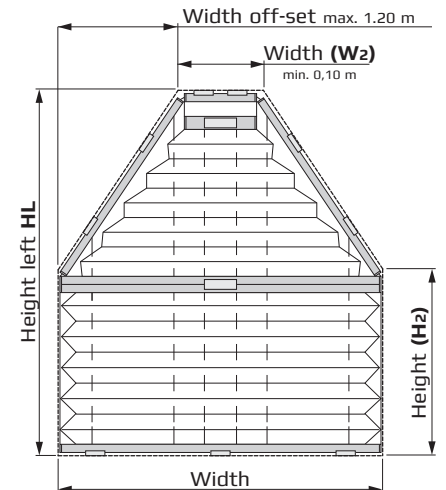
Fixing angle



P1662



P1663



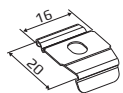
Package dimensions

Installation height Package height (in mm)

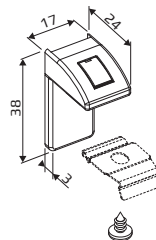
0.50 m	58-67	22
1.00 m	66-81	16
1.50 m	73-95	16
2.00 m	79-118	16

Accessories

Ceiling clip

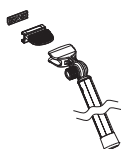


Fixing angle



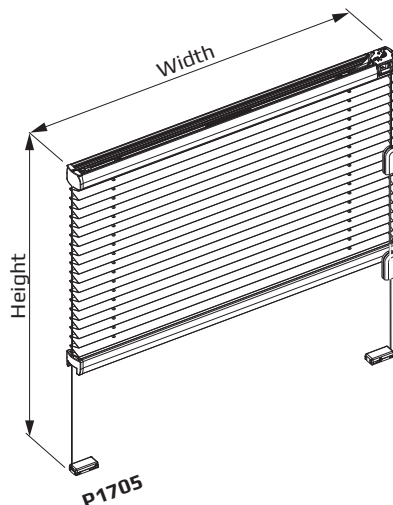
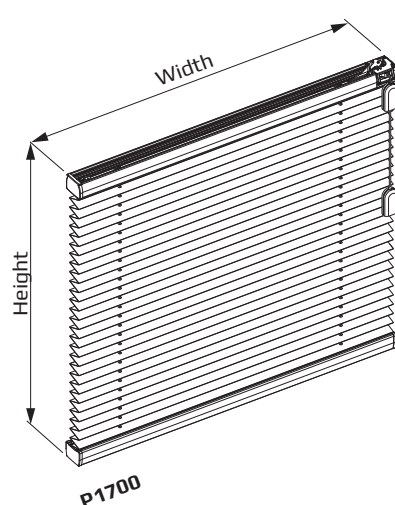
Operating rod

Rod (anodized) with joint, reaches up to the operating handle universal.
Length: 1.00 m, 1.50 m or 2.00 m (Special length up to max. 3.00 m on request)



P1700 – Free-hanging installation with pull-cord operation.

P1705 – Free-hanging installation with pull-cord operation including shuttle protection.



Sizes/ Installation dimensions

- **Width:** min. 0.30 m
max. 2.20 m (dependent on the material)
- **Height:** min. 0.20 m
max. 2.60 m
- **Surface:** max. 5.70 m²
- **Angle of inclination:** max. 15°

Operating mechanism

- Pleated fabric between two profile rails
- Fabric hangings can be stopped at any position by means of a cord brake
- Closed cord system
- Cords made from polyester yarn, diameter of 0.8 mm
- Pull cord made from polyester yarn, diameter of 2.2 mm
- Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic

Operation

- **Cord operation:** Integrated cord lock without castor
- **Operating side:** Left or right

Upper and lower rail

- **Width:** 22 mm
- **Height:** 16 mm
- Aluminium extruded (Al Mg Si 0.5 F22)
- Hole punch (Ø6.0 mm) equipped with abrasion-resistant plastic cord eyes

Colours

- **Profile rail:** Technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015)
- Visible **plastic parts** adapted to the profile colours in grey, black, bronze, white or beige

Hangings

- Pleated fabric hangings • 20 mm pleat width • visible drilled hole (Ø3.5 mm) for cord guide bracket
- Distance between the cords 0.40 or 0.60 m (dependent on the material)

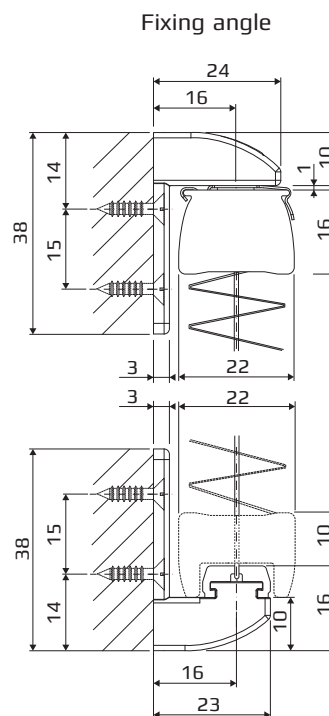
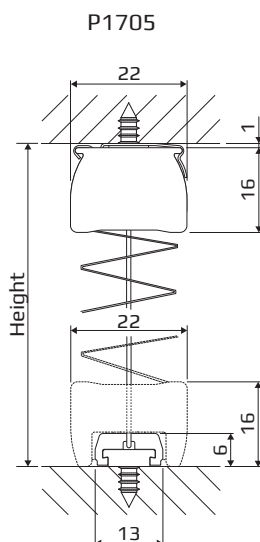
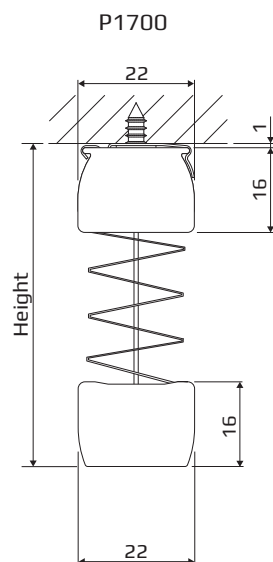
Mounting

- **Fixing of upper rail:** Flat fixing clip (V2A) with a light slit of less than 1 mm or plastic glazing bead holder with fixing clip (V2A) or on the fixing angle.
- **Fixing of tightening devices:** Screw the small fixing plate directly on the frame (DIN 7982 Ø4,2 x 13 mm) or with the plastic glazing bead holder or with the fixing angle

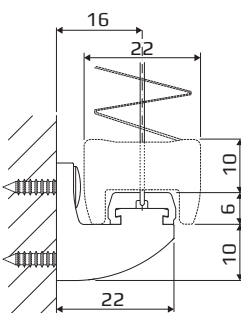
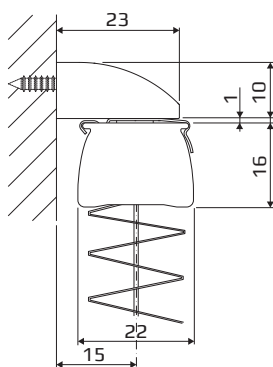
Shuttle protection: (Type P1705)

- Even if the window is tilted, the hangings run between two ropes (Ø1.2 mm polyester yarn with kevlar core, 16 cords) parallel to the casement
- The movable profile covers the tightening devices

Fixing



Glazing bead holder



Package dimensions

Installation height	Package height (in mm) P1700/1705
100	170
150	220
200	270
250	320
300	370
350	420
400	470
450	520
500	570
550	620
600	670
650	720
700	770
750	820
800	870
850	920
900	970
950	1020
1000	1070
1050	1120
1100	1170
1150	1220
1200	1270
1250	1320
1300	1370
1350	1420
1400	1470
1450	1520
1500	1570
1550	1620
1600	1670
1650	1720
1700	1770
1750	1820
1800	1870
1850	1920
1900	1970
1950	2020
2000	2070
2050	2120
2100	2170
2150	2220
2200	2270
2250	2320
2300	2370
2350	2420
2400	2470
2450	2520
2500	2570
2550	2620
2600	2670
2650	2720
2700	2770
2750	2820
2800	2870
2850	2920
2900	2970
2950	3020
3000	3070
3050	3120
3100	3170
3150	3220
3200	3270
3250	3320
3300	3370
3350	3420
3400	3470
3450	3520
3500	3570
3550	3620
3600	3670
3650	3720
3700	3770
3750	3820
3800	3870
3850	3920
3900	3970
3950	4020
4000	4070
4050	4120
4100	4170
4150	4220
4200	4270
4250	4320
4300	4370
4350	4420
4400	4470
4450	4520
4500	4570
4550	4620
4600	4670
4650	4720
4700	4770
4750	4820
4800	4870
4850	4920
4900	4970
4950	5020
5000	5070
5050	5120
5100	5170
5150	5220
5200	5270
5250	5320
5300	5370
5350	5420
5400	5470
5450	5520
5500	5570
5550	5620
5600	5670
5650	5720
5700	5770
5750	5820
5800	5870
5850	5920
5900	5970
5950	6020
6000	6070
6050	6120
6100	6170
6150	6220
6200	6270
6250	6320
6300	6370
6350	6420
6400	6470
6450	6520
6500	6570
6550	6620
6600	6670
6650	6720
6700	6770
6750	6820
6800	6870
6850	6920
6900	6970
6950	7020
7000	7070
7050	7120
7100	7170
7150	7220
7200	7270
7250	7320
7300	7370
7350	7420
7400	7470
7450	7520
7500	7570
7550	7620
7600	7670

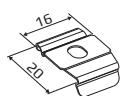
0.50 m
1.00 m
1.50 m
2.00 m
2.60 m

37-41
40-48
44-55
47-62
52-70

22
16
PH
16

Accessories

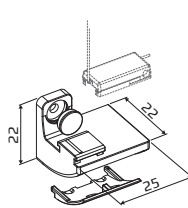
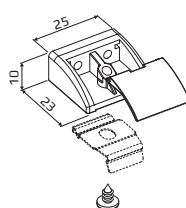
Ceiling clip



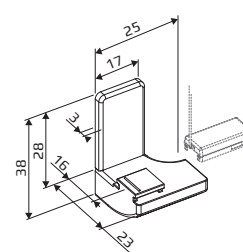
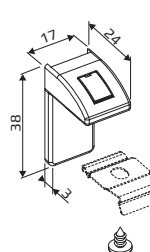
Tensioning shoe mount



Glazing bead holder

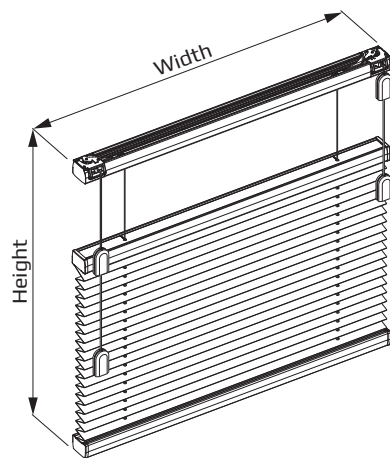


Fixing angle

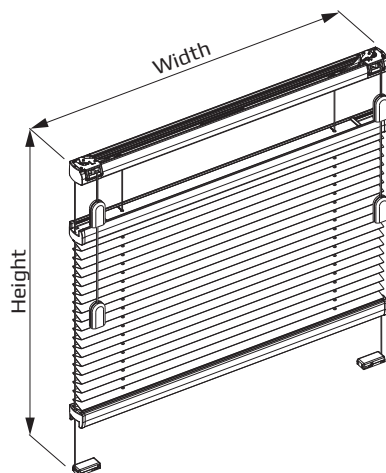


P1710 – Free-hanging installation with two pull-cord operating devices and changeable hangings.

P1715 – Free-hanging installation with two pull-cord operating devices and changeable hangings including shuttle protection.



P1710



P1715

Sizes/ Installation dimensions

- **Width:** min. 0.30 m
max. 2.20 m (dependent on the material)
- **Height:** min. 0.20 m
max. 2.60 m
- **Surface:** max. 5.70 m²
- **Angle of inclination:** max. 15°

Operating mechanism

- Pleated fabric between two profile rails
- Fabric hangings can be stopped at any position by means of a cord brake
- Closed cord system
- Cords made from polyester yarn, diameter of 0.8 mm
- Pull cord made from polyester yarn, diameter of 2.2 mm
- Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic

Operation

- **Cord operation:** Integrated cord lock without castor
- **Operating side:** Left and right

Upper and lower rail Middle profile

- **Width:** 22 mm
- **Height:** 16 mm
- Aluminium extruded (Al Mg Si 0.5 F22)
- Hole punch (Ø6.0 mm) equipped with abrasion-resistant plastic cord eyes

Colours

- **Profile rail:** Technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015)
- Visible **plastic parts** adapted to the profile colours in grey, black, bronze, white or beige

Hangings

- Pleated fabric hangings • 20 mm pleat width • visible drilled hole (Ø3.5 mm) for cord guide bracket
- Distance between the cords 0.40 or 0.60 m (dependent on the material)

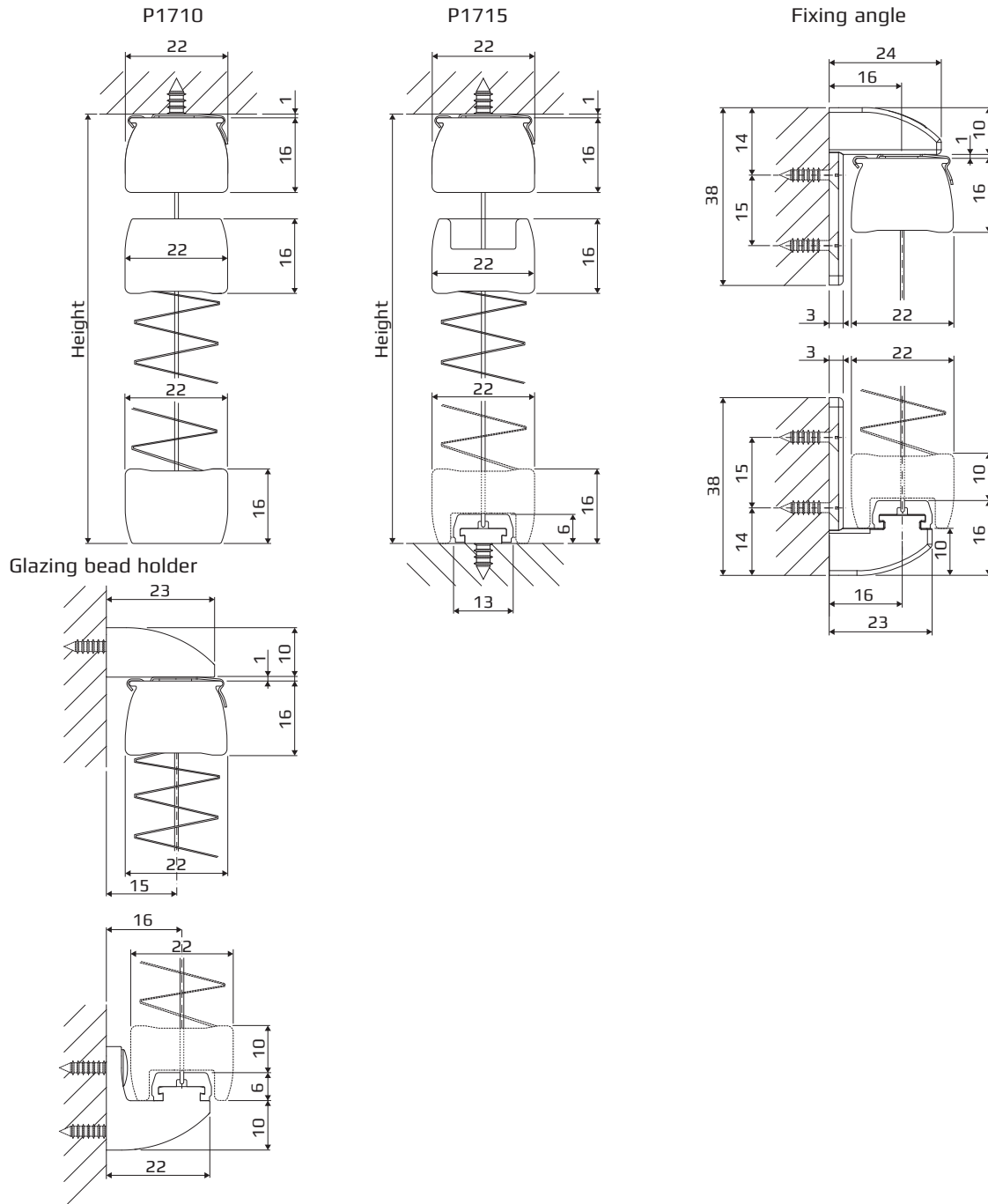
Mounting

- **Fixing of upper rail:** Flat fixing clip (V2A) with a light slit of less than 1 mm or plastic glazing bead holder with fixing clip (V2A) or on the fixing angle.
- **Fixing of tightening devices:** Screw the small fixing plate directly on the frame (DIN 7982 Ø4,2 x 13 mm) or with the plastic glazing bead holder or with the fixing angle

Shuttle protection: (Type P1715)

- Even if the window is tilted, the hangings run between two ropes (Ø1.2 mm polyester yarn with kevlar core, 16 cords) parallel to the casement
- The movable profile covers the tightening devices

Fixing



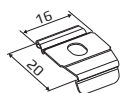
Package dimensions

Installation height Package height (in mm)
height P1710/1715

0.50 m	53-57	22
1.00 m	56-64	16
1.50 m	60-71	16
2.00 m	63-78	PH
2.60 m	68-86	16

Accessories

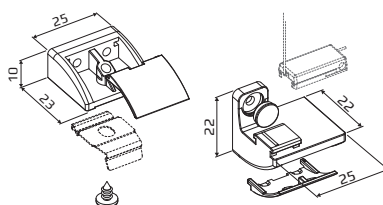
Ceiling clip



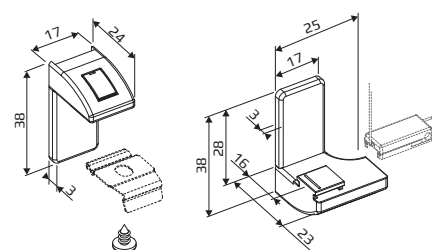
Tensioning shoe mount



Glazing bead holder

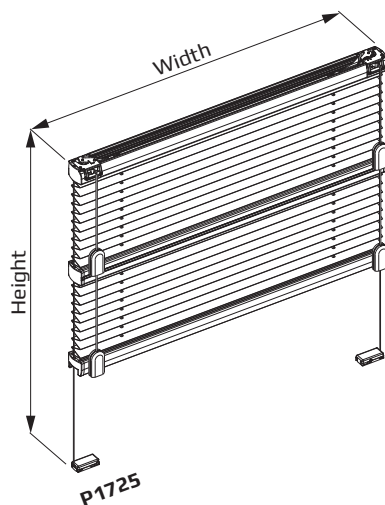
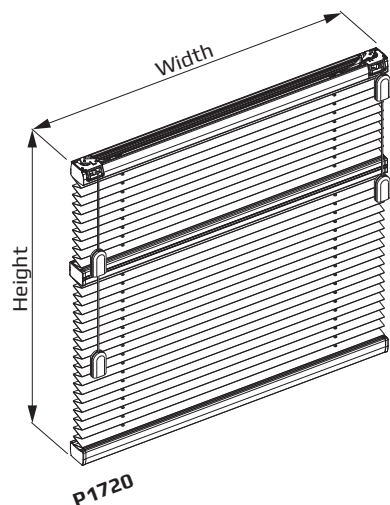


Fixing angle



P1720 – Free-hanging installation with two pull-cord operating devices and two hangings.

P1725 – Free-hanging installation with two pull-cord operating devices and two hangings including shuttle protection.



Sizes/ Installation dimensions

- **Width:** min. 0.30 m
max. 2.20 m (dependent on the material)
- **Height:** min. 0.20 m
max. 2.60 m
- **Surface:** max. 5.70 m²
- **Angle of inclination:** max. 15°

Operating mechanism

- Pleated fabric between two profile rails
- Fabric hangings can be stopped at any position by means of a cord brake
- Closed cord system
- Cords made from polyester yarn, diameter of 0.8 mm
- Pull cord made from polyester yarn, diameter of 2.2 mm
- Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic

Operation

- **Cord operation:** Integrated cord lock without castor
- **Operating side:** Left and right

Upper and lower rail Middle profile

- **Width:** 22 mm
- **Height:** 16 mm
- Aluminium extruded (Al Mg Si 0.5 F22)
- Hole punch (Ø6.0 mm) equipped with abrasion-resistant plastic cord eyes

Colours

- **Profile rail:** technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015)
- Visible **plastic parts** adapted to the profile colours in grey, black, bronze, white or beige

Hangings

- Pleated fabric hangings • **20 mm pleat width** • visible drilled hole (Ø3.5 mm) for cord guide bracket
- Distance between the cords 0.40 or 0.60 m (dependent on the material)

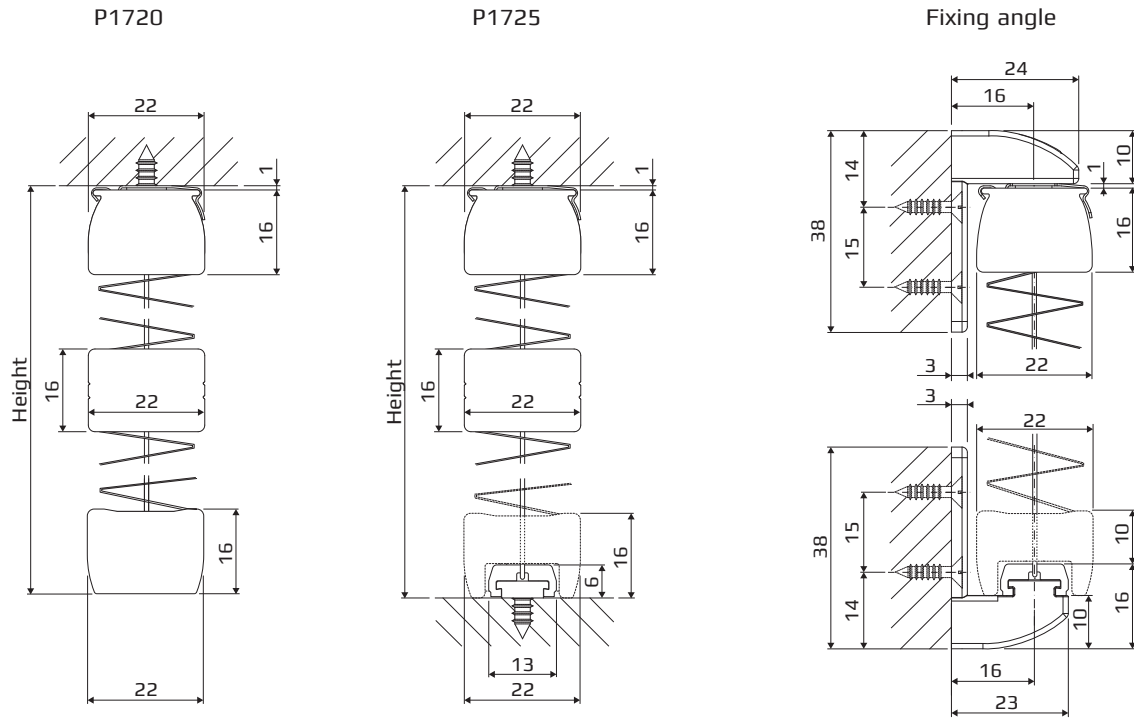
Mounting

- **Fixing of upper rail:** Flat fixing clip (V2A) with a light slit of less than 1 mm or with fixing clip (V2A) on the fixing angle.
- **Fixing of tightening devices:** Screw the small fixing plate directly on the frame (DIN 7982 Ø4,2 x 13 mm) or with the fixing angle

Shuttle protection: (Type P1725)

- Even if the window is tilted, the hangings run between two ropes (Ø1.2 mm polyester yarn with kevlar core, 16 cords) parallel to the casement
- The movable profile covers the tightening devices

Fixing



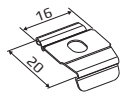
Package dimensions

Installation height Package height (in mm)
P1720/1725

0.50 m	58-67	
1.00 m	66-81	
1.50 m	73-95	
2.00 m	79-108	
2.20 m	83-114	

Accessories

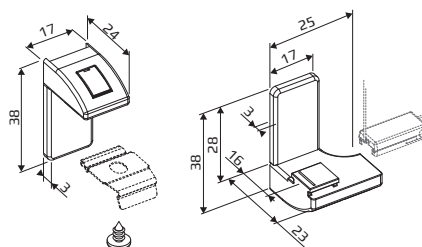
Ceiling clip



Tensioning shoe mount

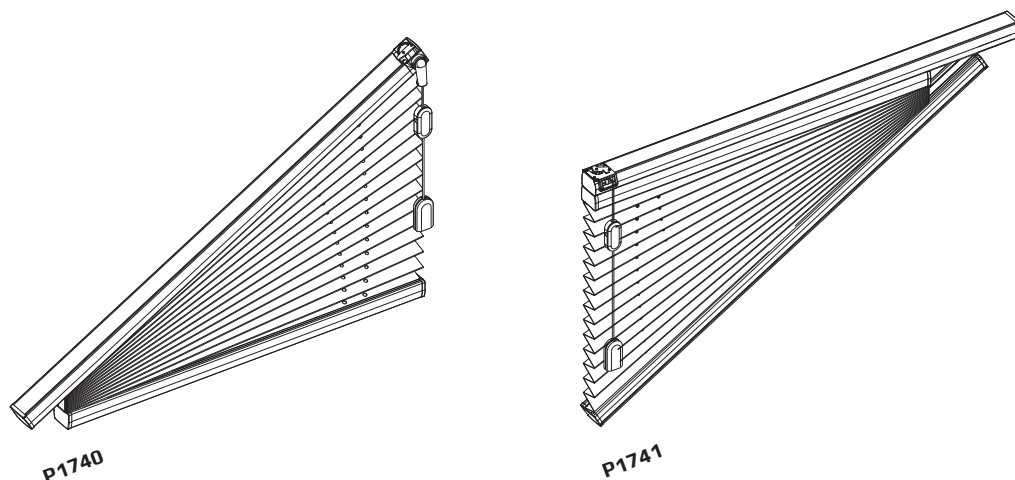


Fixing angle



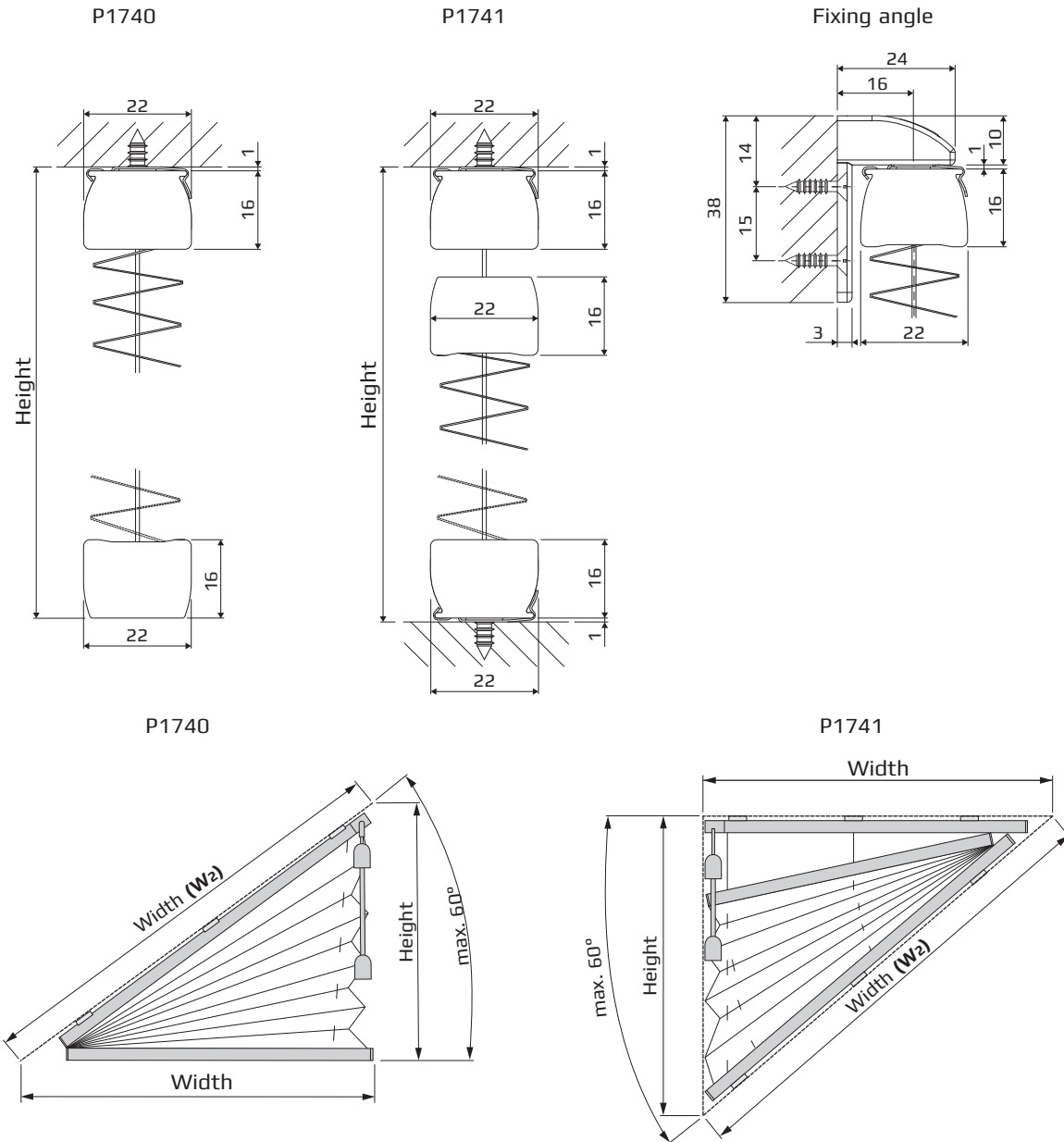
P1740 – Free-hanging triangle installation with pull-cord operation.

P1741 – Taut triangle installation with pull-cord operation.



Sizes/ Installation dimensions	• Width: min. 0.50 m max. dependent on W2 • Width W2 max. 2.00 m to 60° (dependent on the material) max. 2.20 m to 30° (dependent on the material) • Height: min. 0.10 m max. 1.70 m • Angle of installation: 5-60° • Angle of inclination: max. 15°
Operating mechanism	• Pleated fabric between two profile rails • Fabric hangings can be stopped at any position • Closed cord system taut over a spring compressor • Cords made from polyester yarn, diameter of 0.8 mm • Pull cord made from polyester yarn, diameter of 2.2 mm • Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic
Operation	• Cord operation: Integrated cord lock without castor • Operating side: Optionally left or right
Upper and lower rail Middle profile (Type P1741)	• Width: 22 mm • Height: 16 mm • Aluminium extruded (Al Mg Si 0.5 F22) • Hole punch (Ø6.0 mm) equipped with abrasion-resistant plastic cord eyes
Colours	• Profile rail: Technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015) • Visible plastic parts adapted to the profile colours in grey, black, bronze, white or beige
Hangings	• Pleated fabric hangings • 20 mm pleat width • visible drilled hole (Ø3.5 mm) for cord guide bracket • Distance between the cords 0.40 or 0.60 m (dependent on the material)
Mounting	• Fixing of the upper and lower rails (Type P1741): Flat fixing clip (V2A) with a light slit of less than 1 mm or with fixing clip (V2A) on the fixing angle • Fixing of the upper rail (Type P1740): Flat fixing clip (V2A) with a light slit of less than 1 mm or with fixing clip (V2A) on the fixing angle

Fixing



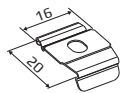
Package dimensions

Installation height Package height (in mm)
height P1740/1740

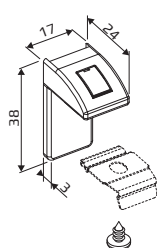
0.50 m	37-41	
1.00 m	40-48	
1.50 m	44-55	
2.00 m	48-62	

Accessories

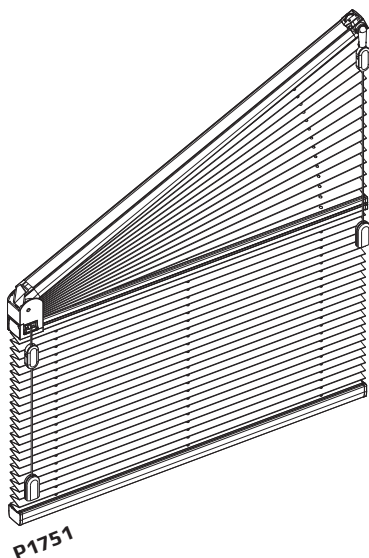
Ceiling clip



Fixing angle

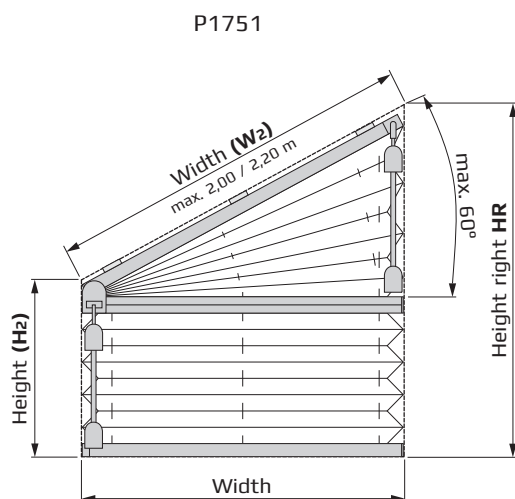
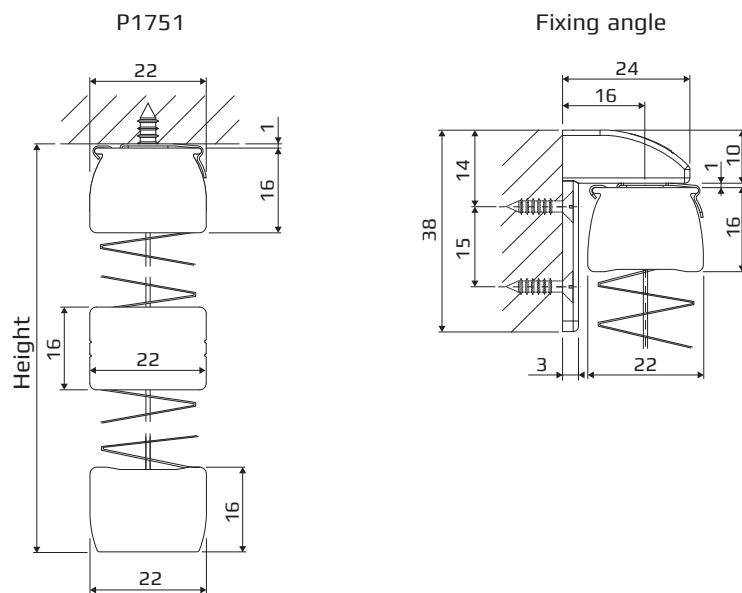


P1751 – Free-hanging slope installation with pull-cord operation above and below



Sizes/ Installation dimensions	• Width: min. 0.30 m max. dependent on W2 • Width W2 max. 2.00 m to 60° (dependent on the material) max. 2.20 m to 30° (dependent on the material) • Height (HR or HL): min. 0.20 m max. 3.00 m • Height H2 min. 0.10 m max. 2.60 m (installation width max. 2.20 m) • Angle of installation: 5-60°
Operating mechanism	• Pleated fabric between two profile rails • Fabric hangings can be stopped at any position • Cords made from polyester yarn, diameter of 0.8 mm • Pull cord made from polyester yarn, diameter of 2.2 mm • Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic
Operation	• Cord operation: Integrated cord lock without castor • Position: Above or below
Upper and lower rail Middle profile	• Width: 22 mm • Height: 16 mm • Aluminium extruded (Al Mg Si 0.5 F22) • Hole punch (Ø6.0 mm) equipped with abrasion-resistant plastic cord eyes
Colours	• Profile rail: Technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015) • Visible plastic parts adapted to the profile colours in grey, black, bronze, white or beige
Hangings	• Pleated fabric hangings • 20 mm pleat width • visible drilled hole (Ø3.5 mm) for cord guide bracket • Distance between the cords 0.40 or 0.60 m (dependent on the material)
Mounting	• Fixing of upper rail: Flat fixing clip (V2A) with a light slit of less than 1 mm or fixing angle with fixing clip (V2A)

Fixing



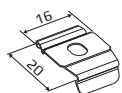
Package dimensions

Installation height Package height (in mm)
P1751

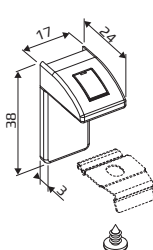
1,00 m	58-67	22
1,50 m	66-81	16
2,00 m	73-95	16
2,50 m	79-108	16
3,00 m	83-114	16

Accessories

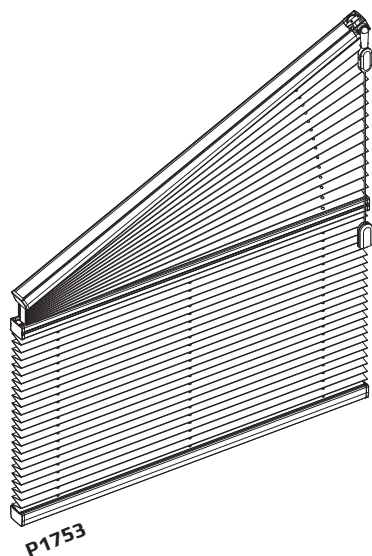
Ceiling clip



Fixing angle

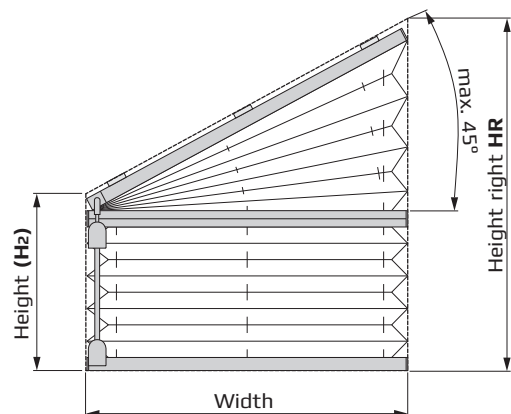
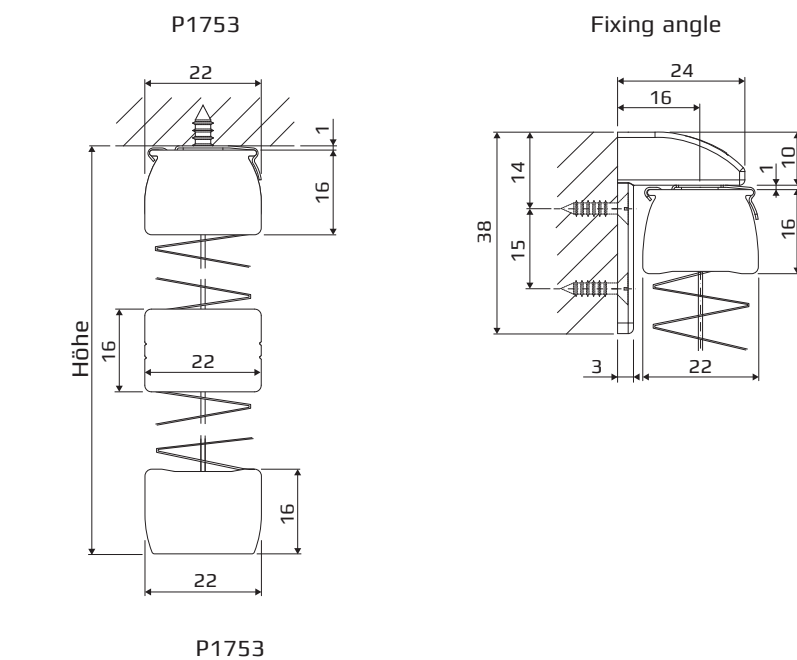


P1753 – Free-hanging slope installation with pull-cord operation above or below



Sizes/ Installation dimensions	• Width: min. 0.30 m max. 1.00 m • Height (HR or HL): min. 0.20 m max. 2.60 m • Height H2 min. 0.10 m • Angle of installation: 5-45°
Operating mechanism	• Pleated fabric between two profile rails • Fabric hangings can be stopped at any position • Cords made from polyester yarn, diameter of 0.8 mm • Pull cord made from polyester yarn, diameter of 2.2 mm • Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic
Operation	• Cord operation: Integrated cord lock without castor • Position: Above or below
Upper and lower rail Middle profile	• Width: 22 mm • Height: 16 mm • Aluminium extruded (Al Mg Si 0.5 F22) • Hole punch (Ø6.0 mm) equipped with abrasion-resistant plastic cord eyes
Colours	• Profile rail: Technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015) • Visible plastic parts adapted to the profile colours in grey, black, bronze, white or beige
Hangings	• Pleated fabric hangings • 20 mm pleat width • visible drilled hole (Ø3.5 mm) for cord guide bracket • Distance between the cords 0.40 or 0.60 m (dependent on the material)
Mounting	• Fixing of upper rail: Flat fixing clip (V2A) with a light slit of less than 1 mm or fixing angle with fixing clip (V2A)

Fixing



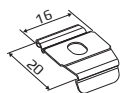
Package dimensions

Installation height Package height (in mm)
P1753

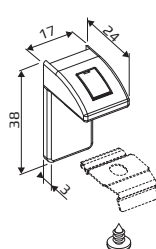
1,00 m	58-67	22	16
1,50 m	66-81	22	16
2,00 m	73-95	22	16
2,50 m	79-108	22	16
3,00 m	83-114	22	16

Accessories

Ceiling clip

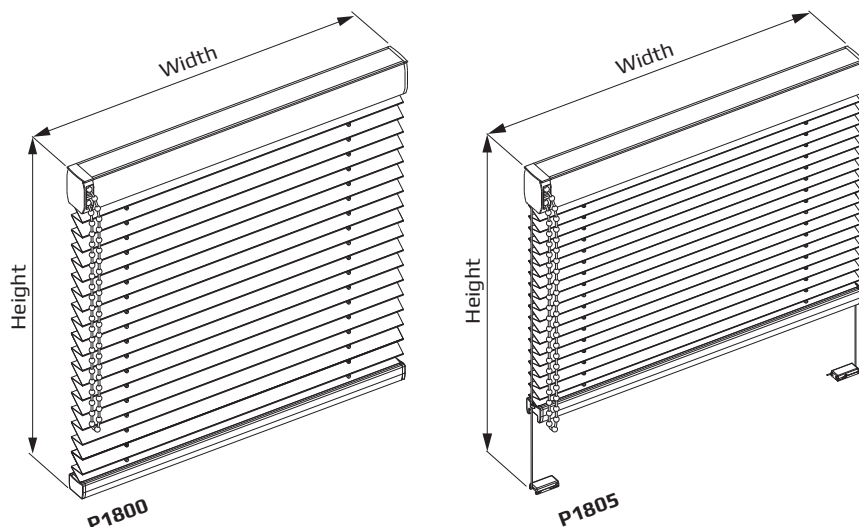


Fixing angle



P1800 – Free-hanging installation with chain hoist operation.

P1805 – Free-hanging installation with chain hoist operation including shuttle protection.



Sizes/ Installation dimensions

- **Width:** min. 0.40 m
max. 2.20 m (dependent on the material)
- **Height:** min. 0.20 m
max. 2.60 m
- **Surface:** max. 5.70 m²
- **Angle of inclination:** max. 15°

Operating mechanism

- Pleated fabric between two profile rails
- Fabric hangings can be stopped at any position by means of a chain hoist mechanism
- Closed cord system
- Cords made from polyester yarn, diameter of 1.2 mm
- Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic

Operation

- **Chain operation:** Plastic ball chain Ø4.5 x 6.0 mm on a polyester cord Ø1.4 mm
- **Operating side:** Left or right

Upper rail

- **Width:** 27 mm
- **Height:** 34.5 mm

Lower rail

- **Width:** 22 mm
- **Height:** 16 mm
- Aluminium extruded (Al Mg Si 0.5 F22)
- Hole punch (Ø6.0 mm) equipped with abrasion-resistant plastic cord eyes

Colours

- **Profile rail:** Technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015)
- Visible **plastic parts** adapted to the profile colours in grey, black, bronze, white or beige

Hangings

- Pleated fabric hangings • 20 mm pleat width • visible drilled hole (Ø3.5 mm) for cord guide bracket
- Distance between the cords 0.40 or 0.60 m (dependent on the material)

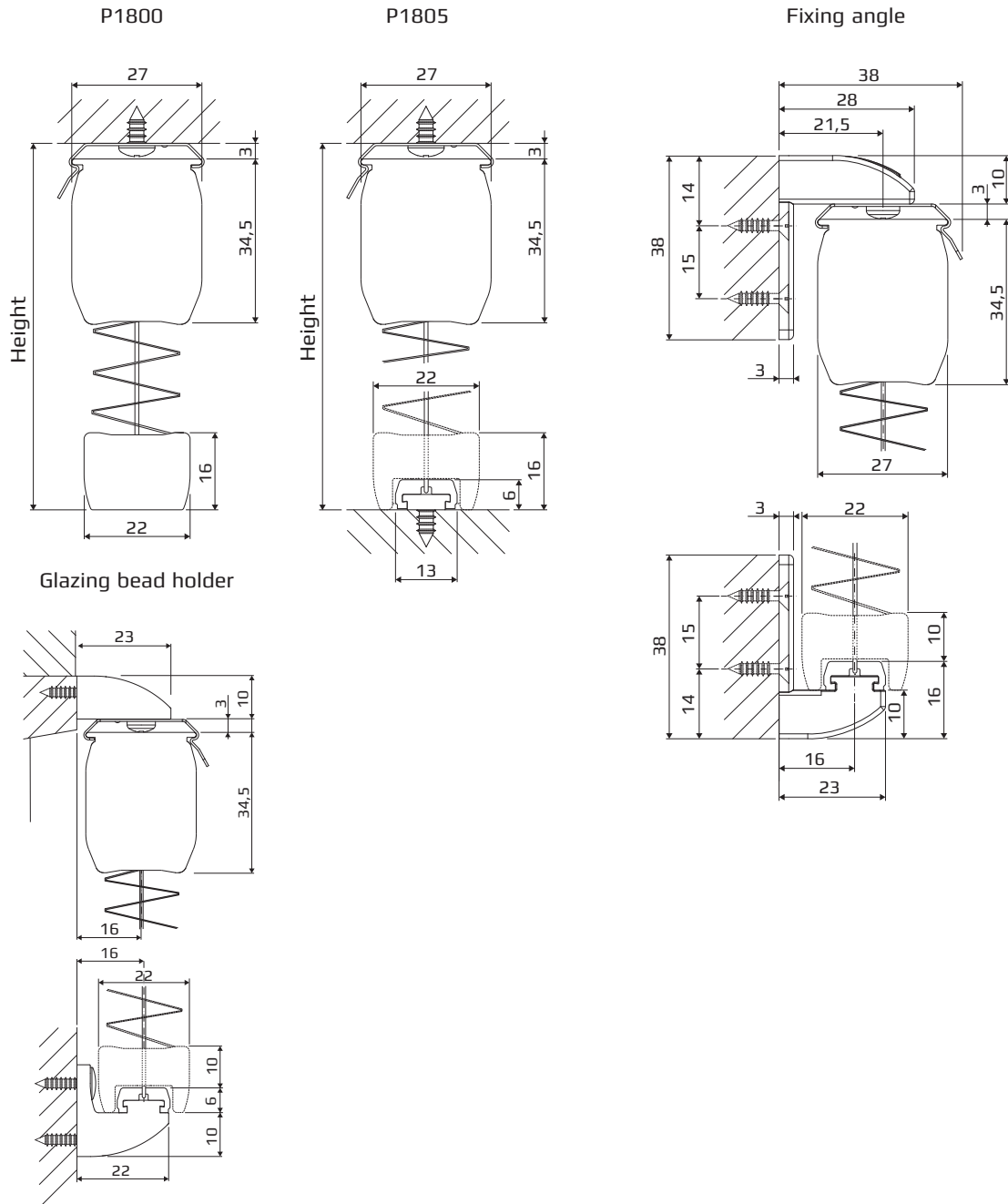
Mounting

- **Fixing of upper rail:** Fixing clip (V2A) or plastic glazing bead holder with fixing clip (V2A) or on the fixing angle.
- **Fixing of tightening devices:** Screw the small fixing plate directly on the frame (DIN 7982 Ø4,2 x 13 mm) or with the fixing angle.

Shuttle protection: (Type P1805)

- Even if the window is tilted, the hangings run between two ropes (Ø1.2 mm polyester yarn with kevlar core, 16 cords) parallel to the casement
- The movable profile covers the tightening devices

Fixing



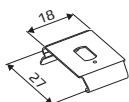
Package dimensions

Installation height Package height (in mm)
height P1800/1805

0.50 m	55-59	
1.00 m	59-66	
1.50 m	62-73	
2.00 m	66-80	
2.60 m	70-88	

Accessories

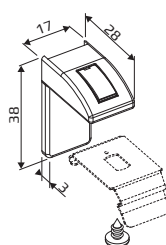
Ceiling clip



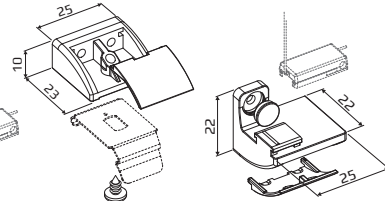
Tensioning shoe mount



Fixing angle

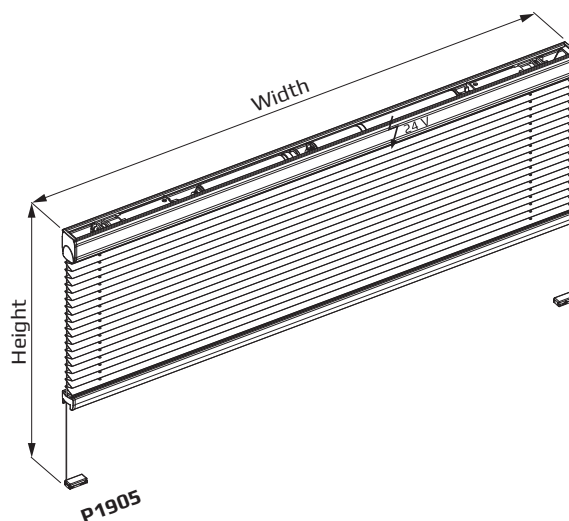
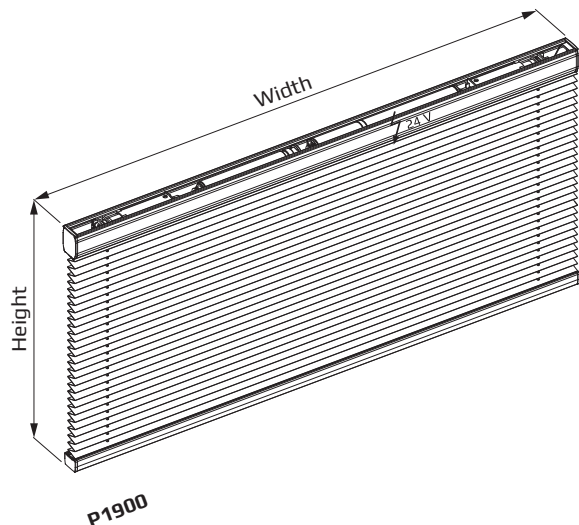


Glazing bead holder



P1900 – Free-hanging installation with engine operation.

P1905 – Free-hanging installation with engine operation including shuttle protection.



Sizes/ Installation dimensions

- **Width:** min. 0.70 m
max. 2.20 m (dependent on the material)
- **Height:** min. 0.20 m
max. 2.60 m
- **Surface:** max. 5.70 m²
- **Angle of inclination:** max. 15°

Operating mechanism

- Pleated fabric between two profile rails
- Fabric hangings can be stopped at any position by means of motor drive
- Closed cord system
- Cords made from polyester yarn, diameter of 1.2 mm
- Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic

Engine specifications

- **Standard engine / Stronger engine**
Central drive with integrated brake and minimal generation of noise. Travel limits of the machine by means of stopper/spindle blocking device. Measurement: Ø24 x 201 mm • Max. size for the hangings: 3 m² / 5 m²
- Voltage rating: 24 V DC • Connection: 2,5 m cable • rated torque: 0.4 Nm / 0.8 Nm
- Rated speed: 40 min⁻¹ / 30 min⁻¹ • Max. power consumption: 0.45 A / 0.6 A • power capacity: 11 W / 14 W
- Operating temperature: -10 to +60 °C • Type of protection: IP40.

Upper rail

- **Width:** 27 mm

Lower rail

- **Height:** 34.5 mm
- **Width:** 22 mm
- **Height:** 16 mm
- Aluminium extruded (Al Mg Si 0.5 F22)
- Hole punch (Ø6.0 mm) equipped with abrasion-resistant plastic cord eyes

Colours

- **Profile rail:** Technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015)
- Visible **plastic parts** adapted to the profile colours in grey, black, bronze, white or beige

Hangings

- Pleated fabric hangings • 20 mm pleat width • visible drilled hole (Ø3.5 mm) for cord guide bracket
- Distance between the cords 0.40 or 0.60 m (dependent on the material)

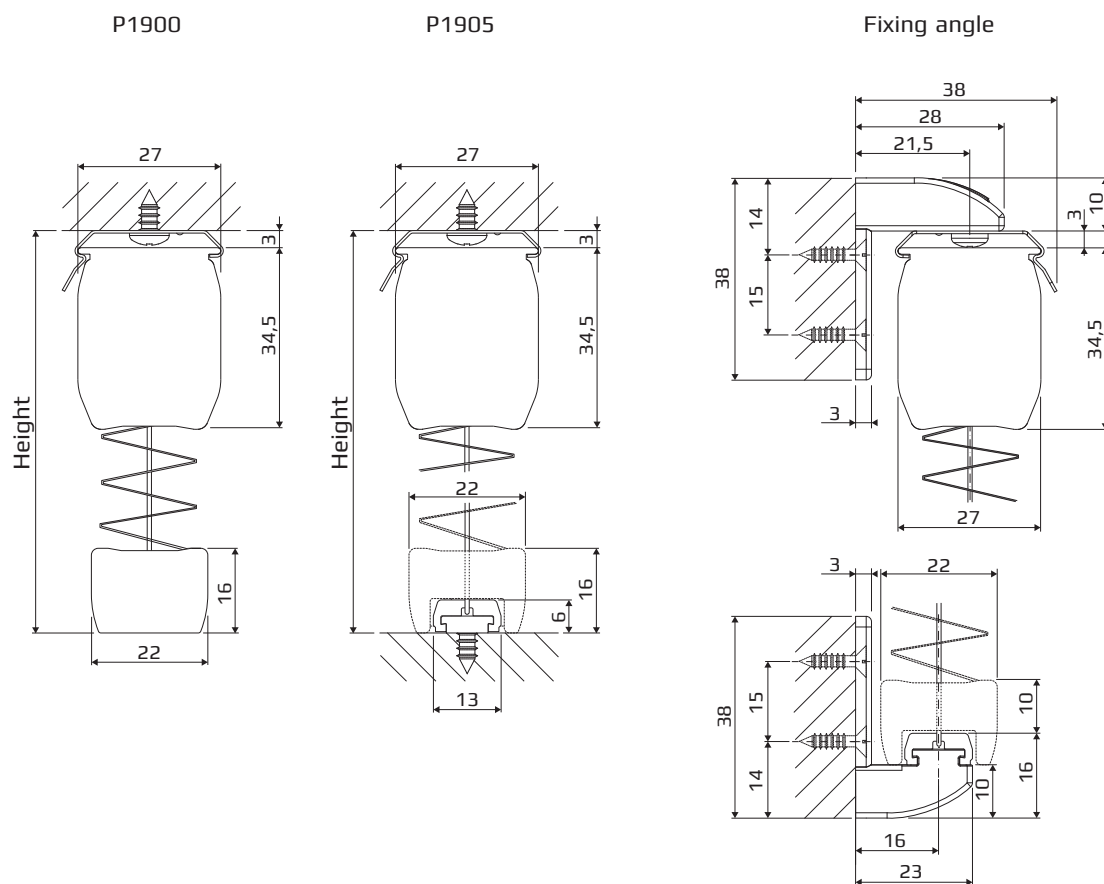
Mounting

- **Fixing of upper rail:** Flat fixing clip (V2A) with a light slit of less than 1 mm or with fixing clip (V2A) on the fixing angle
- **Fixing of tightening devices:** Screw the small fixing plate directly on the frame (DIN 7982 Ø4,2 x 13 mm) or with the fixing angle

Shuttle protection: (Type P1905)

- Even if the window is tilted, the hangings run between two ropes (Ø1.2 mm polyester yarn with kevlar core, 16 cords) parallel to the casement
- The movable profile covers the tightening devices

Fixing



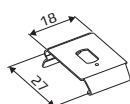
Package dimensions

Installation height Package height (in mm)
height P1900/1905

0.50 m	55-59	
1.00 m	59-66	
1.50 m	62-73	
2.00 m	66-80	
2.60 m	70-88	

Accessories

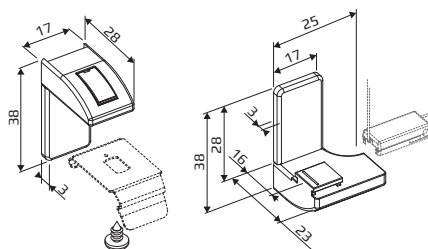
Ceiling clip



Tensioning shoe mount



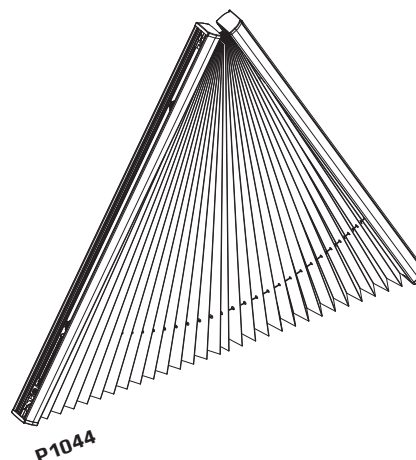
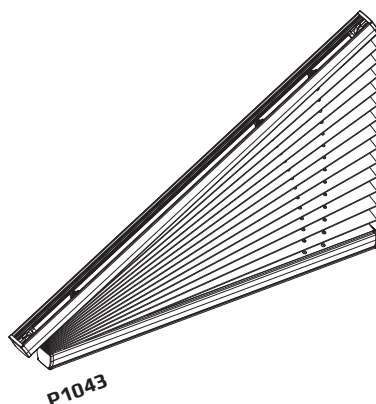
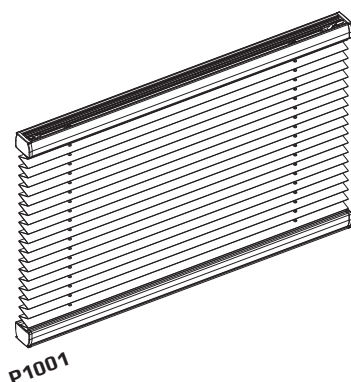
Fixing angle



P1001 – Fixed installation.

P1043 – Fixed triangular installation.

P1044 – Fixed triangular installation.



Sizes/ Installation dimensions

- **Width:**
 - min. 0.20 m
 - min. 0.40 m (Type P1043)
 - max. 1.50 m (dependent on the substance)
 - max. dependent on B2 (Type P1043)
- **Height:**
 - min. 0.20 m
 - max. 1.50 m
- **Angle of installation:** 5-60° (Type P1043)

Operating mechanism

- Pleated fabric between two profile rails
- Fixed fabric hangings
- Closed cord system taut over a spring compressor
- Cords made from polyester yarn, diameter of 0.8 mm
- Wire arch made from V2A, diameter of 2.5 mm (Type P1044)
- Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic

Operation

- **Fixed installation**

Upper and lower rail

- **Width:** 22 mm
- **Height:** 16 mm
- Aluminium extruded (Al Mg Si 0.5 F22)
- Hole punch (Ø6.0 mm) equipped with abrasion-resistant plastic cord eyes

Colours

- **Profile rail:** Technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015)
- Visible **plastic parts** adapted to the profile colours in grey, black, bronze, white or beige

Hangings

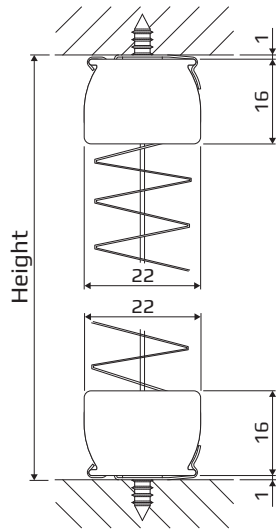
- Pleated fabric hangings • 20 mm pleat width • visible drilled hole (Ø3.5 mm) for cord guide bracket
- Distance between the cords 0.40 or 0.60 m (dependent on the material)

Mounting

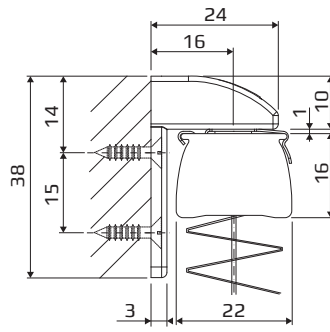
- **Fixing of upper, lower and side profiles:** Flat fixing clip (V2A) with a light slit of less than 1 mm or with fixing clip (V2A) on the fixing angle

Fixing

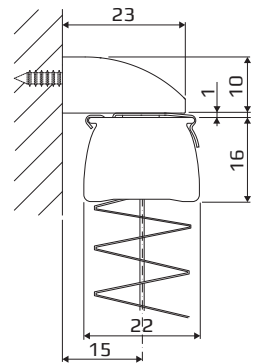
P1001 / P1043



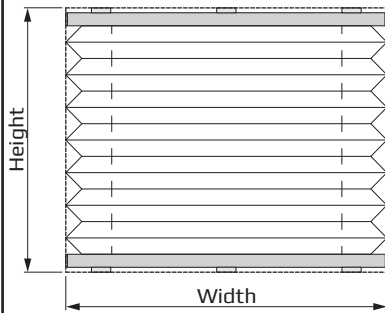
Fixing angle



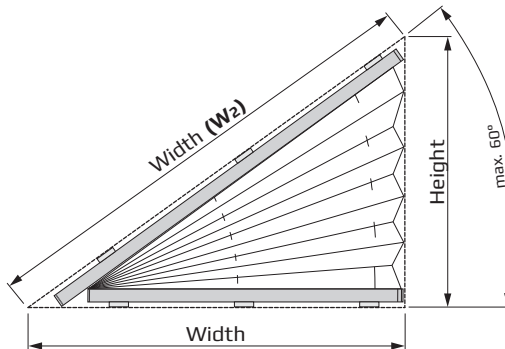
Glazing bead holder



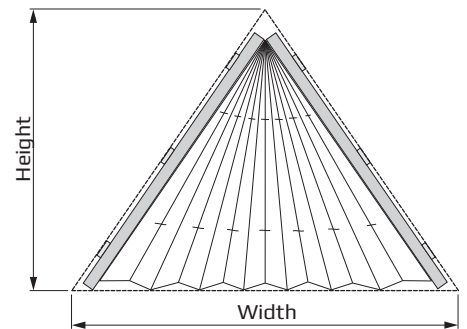
P1001



P1043

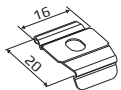


P1044

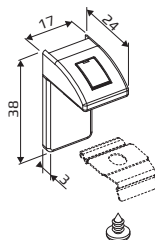


Accessories

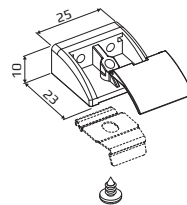
Ceiling clip



Fixing angle

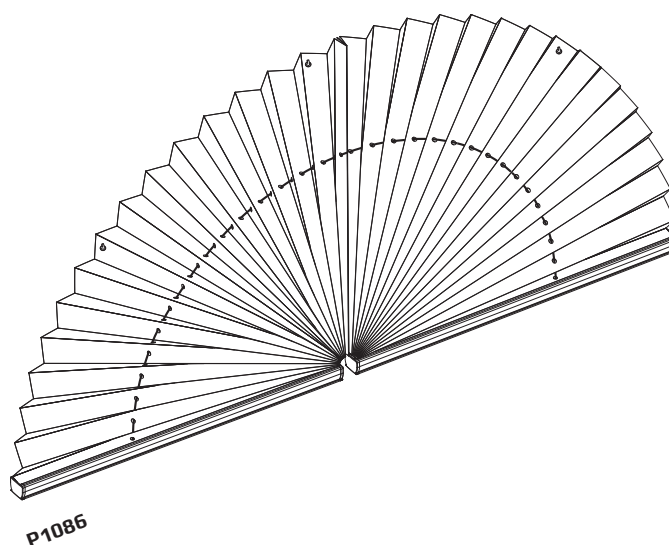
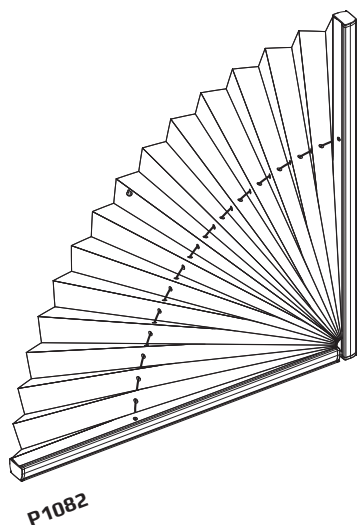


Glazing bead holder



P1082 – Fixed installation 90° (Quadrant).

P1086 – Fixed triangular installation 180° (Semicircle).



Sizes/ Installation dimensions

- **Width:** min. 0.20 m
max. 1.00 m (Type P1082)
max. 1.50 m (Type P1086)
- **Height:** min. 0.20 m
max. 1.00 m (Type P1082)
max. 0.75 m (Type P1086)

Operating mechanism

- Pleated fabric between two profile rails
- Fixed fabric hangings
- Wide arch made from V2A, diameter of 2.5 mm
- Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic

Operation

- **Fixed installation**

Upper and lower rail

- **Width:** 22 mm
- **Height:** 16 mm
- Aluminium extruded (Al Mg Si 0.5 F22)
- Hole punch (Ø6.0 mm) for wire arches

Colours

- **Profile rail:** Technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015)
- Visible **plastic parts** adapted to the profile colours in grey, black, bronze, white or beige

Hangings

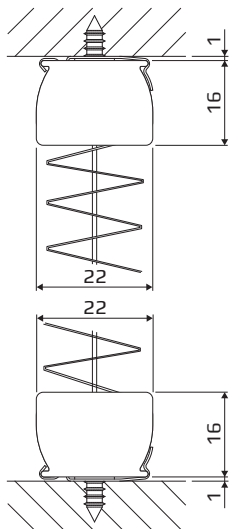
- Pleated fabric hangings • 20 mm pleat width • visible drilled hole (Ø3.5 mm) for cord guide bracket

Mounting

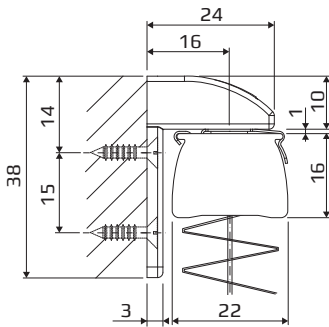
- **Fixing of upper, lower and side profiles:** Flat fixing clip (V2A) with a light slit of less than 1 mm or with fixing clip (V2A) on the fixing angle

Fixing

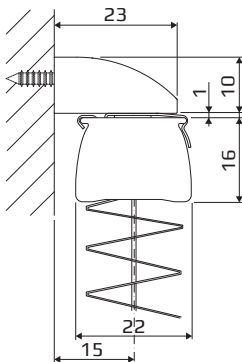
P1082 / P1086



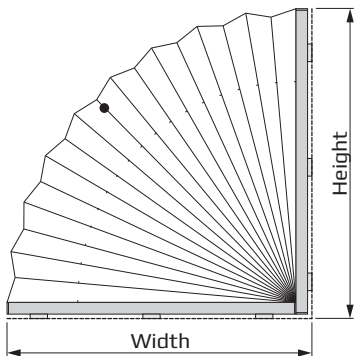
Fixing angle



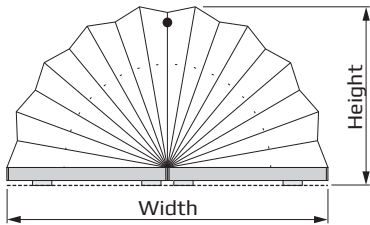
Glazing bead holder



P1082

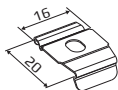


P1086



Accessories

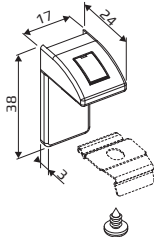
Ceiling clip



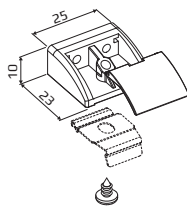
Hook



Fixing angle



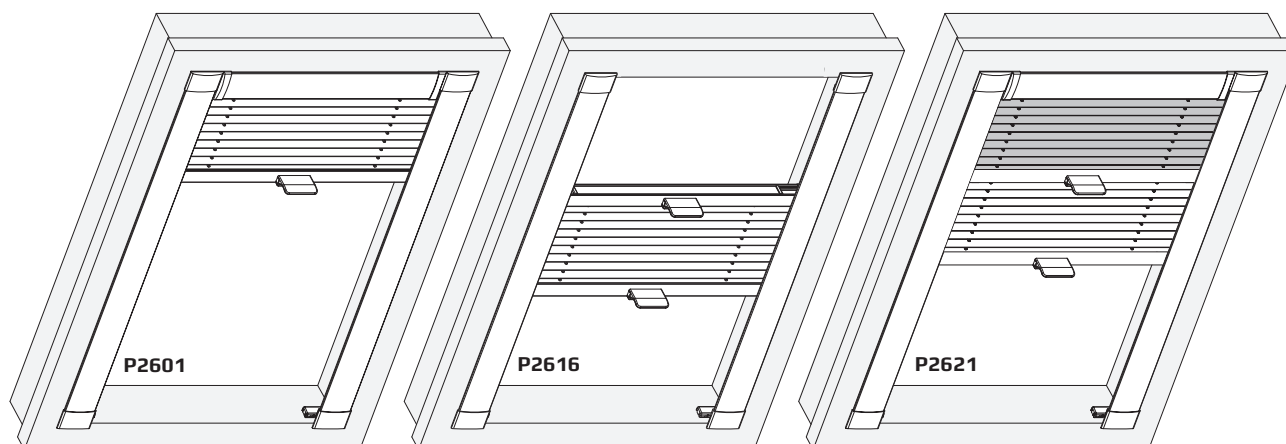
Glazing bead holder



P2601 – Taut roof window installation with handle operation and hangings above, two side cassettes and cassette profile above.

P2616 – Variable taut roof window installation with handle operation and hangings and two side cassettes.

P2621 – Taut installation with handle operation and two hangings above (day/night), two side cassettes and cassette profile above.



Sizes/ Installation dimensions

- **Width:** min. 0.20 m
max. 1.50 m
- **Height:** min. 0.20 m
max. 1.50 m
- **Surface:** max. 2.25 m²
- **Angle of inclination:** max. 60°
- **Frame depth:** min. 38 mm (3 mm back ventilation)
min. 40 mm (5 mm back ventilation)

Operating mechanism

- Pleated fabric between two profile rails
- Fabric hangings can be stopped at any position
- Closed cord system taut over a patent-registered spring compressor
- Changes to the cord tensioning possible $\pm 5\text{-}10$ mm (dependent on the material)
- Cords made from polyester yarn, diameter of 0.8 mm
- Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic
- Locking function of the operation profile on tightening devices

Operation

- **Operating handle:** 1 operating handle in the middle up to 0.80 m installation width, 2 operating handles with more than 0.80 m installation width
- Optional: Operating rod (anodized aluminium rod E6/EV1) with plastic joint and end cap in black

Upper and lower rail Middle profile Cassette front

- **Width:** 22 mm
- **Height:** 16 mm
- **Width:** 38 mm
- **Depth:** 39 mm
- Aluminium extruded (Al Mg Si 0.5 F22)
- Hole punch (Ø6.0 mm) equipped with abrasion-resistant plastic cord eyes

Colours

- **Profile rail:** Technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015)
- Visible **plastic parts** adapted to the profile colours in grey, black, bronze, white or beige

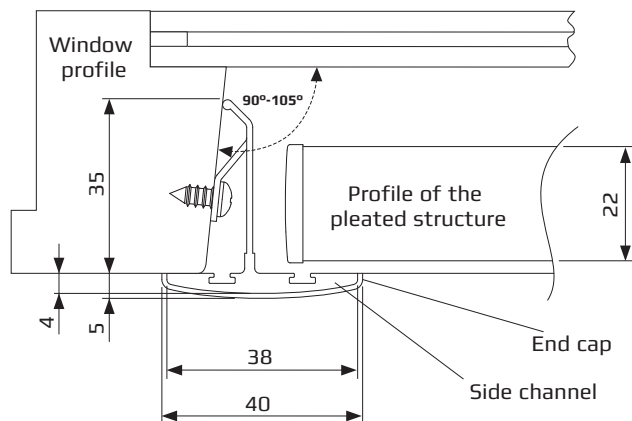
Hangings

- Pleated fabric hangings • 20 mm pleat width • visible drilled hole (Ø3.5 mm) for cord guide bracket
- Distance between the cords 0.28 or 0.35 m (dependent on the material)

Mounting

- Screw cassette front directly on (DIN 7981 Ø3.9 x 16 mm)
- **Fixing of upper rail:** Fixing clip (V2A)
- **Fixing of tightening devices:** Putting onto the entry points of the side cassettes
- The movable profile covers the tightening devices

Fixing



Package dimensions

Installation height Package height (in mm)

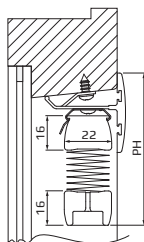
P2601

P2616

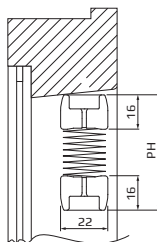
P2621

0.50 m
1.00 m
1.50 m

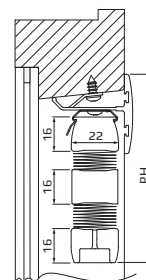
57-61
60-68
64-72



37-41
41-48
44-55

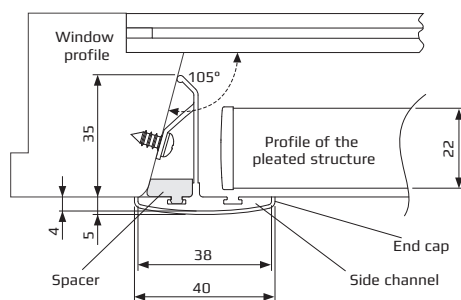
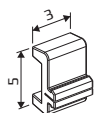


78-87
86-101
93-115



Accessories

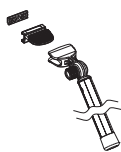
Spacer 105° for Velux GGU



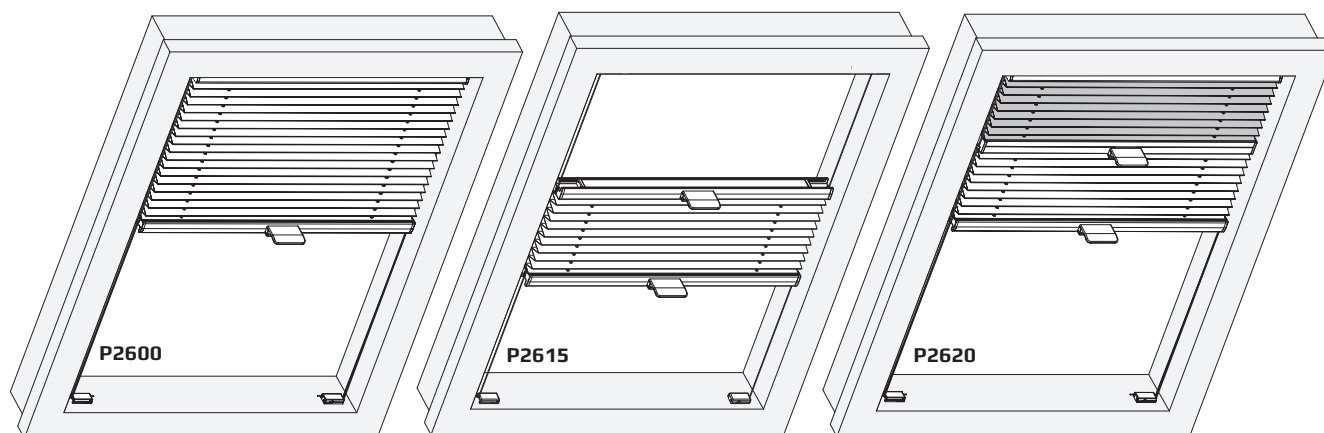
Operating rod

Rod (anodized) with joint, reaches up to the operating handle universal.

Length: 1.00 m, 1.50 m or 2.00 m (Special length up to max. 3.00 m on request)



- P2600** – Taut roof window installation with handle operation and hangings above.
P2615 – Variable taut roof window installation with handle operation and hangings.
P2620 – Taut installation with handle operation and two hangings above (day/night).



Sizes/ Installation dimensions

- **Width:** min. 0.20 m
max. 1.50 m
- **Height:** min. 0.20 m
max. 1.50 m
- **Surface:** max. 2.25 m²
- **Angle of inclination:** max. 60°
- **Frame depth:** min. 25 mm (3 mm back ventilation)
min. 27 mm (5 mm back ventilation)

Operating mechanism

- Pleated fabric between two profile rails
- Fabric hangings can be stopped at any position
- Closed cord system taut over a patent-registered spring compressor
- Changes to the cord tensioning possible $\pm 5\text{-}10$ mm (dependent on the material)
- Cords made of polyester yarn, diameter from 0.8 mm and 1.2 mm polyester yarn with kevlar core, 16 threads
- Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic
- Locking function of the operation profile on tightening devices

Operation

- **Operating handle:** 1 operating handle in the middle up to 0.80 m installation width, 2 operating handles with more than 0.80 m installation width
- Optional: Operating rod (anodized aluminium rod E6/EV1) with plastic joint and end cap in black

Upper and lower rail Middle profile

- **Width:** 22 mm
- **Height:** 16 mm
- Aluminium extruded (Al Mg Si 0.5 F22)
- Hole punch (Ø6.0 mm) equipped with abrasion-resistant plastic cord eyes

Colours

- **Profile rail:** Technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015)
- Visible **plastic parts** adapted to the profile colours in grey, black, bronze, white or beige

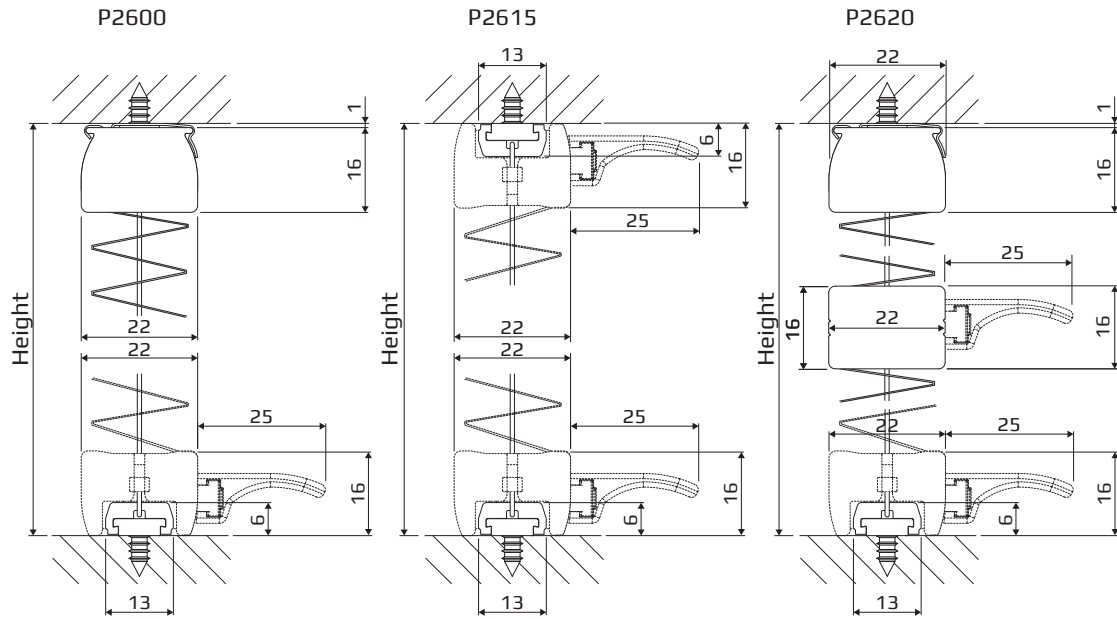
Hangings

- Pleated fabric hangings • 20 mm pleat width • visible drilled hole (Ø3.5 mm) for cord guide bracket
- Distance between the cords 0.28 or 0.35 m (dependent on the material)

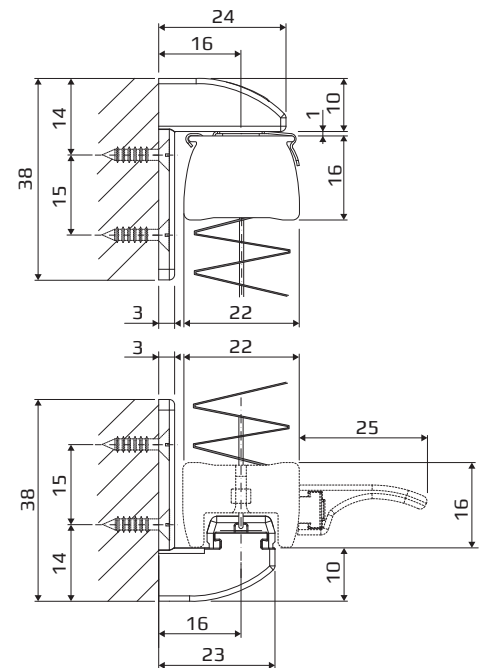
Mounting

- **Fixing of upper rail:** Flat fixing clip (V2A) with a light slit of less than 1 mm
- **Fixing of tightening devices:** Screw the small fixing plate directly on (DIN 7982 Ø4.2 x 13 mm)

Fixing



Fixing angle

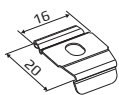


Package dimensions

Installation height	Package height (in mm)	P2600	P2615	P2620
0,50 m	37-41	37-41	58-67	
1,00 m	40-48	40-48	66-81	
1,50 m	44-55	44-55	73-95	

Accessories

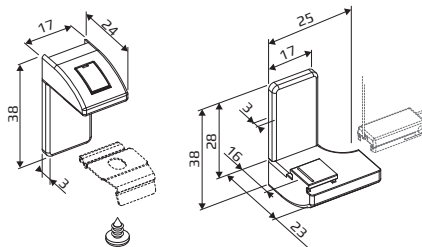
Ceiling clip



Tensioning shoe mount

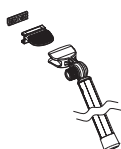


Fixing angle

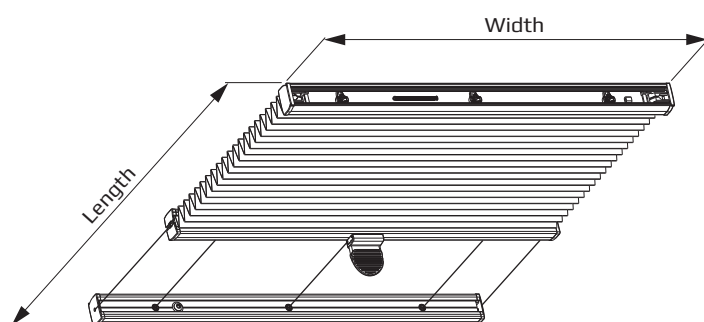


Operating rod

Rod (anodized) with joint, reaches up to the operating handle universal.
Length: 1.00 m, 1.50 m or 2.00 m (Special length up to max. 3.00 m on request)

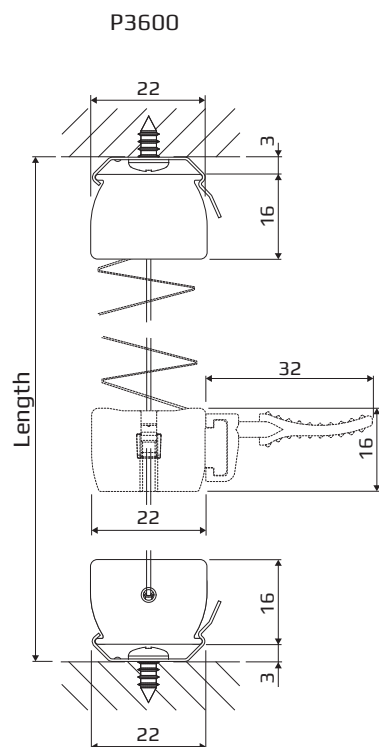


P3600 – Taut installation with handle operation and wire stretcher.



Sizes/ Installation dimensions	• Width: min. 0.30 m max. 1.50 m (dependent on the material) • Length: min. 0.20 m max. 4.00 m • Angle of inclination: 45°-90°
Operating mechanism	• Pleated fabric between two profile rails • Fabric hangings can be stopped at any position • Closed cord system taut over a patent-registered spring compressor • Cords made from polyester yarn, diameter of 0.8 mm • Tension wire: Material 1.4401 (Ø0.81 mm), covered in synthetic material on Ø1.00 mm in white, grey or black • Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic
Operation	• Operating handle: 1 operation handle in the middle • Optional: Operating rod (anodized aluminium rod E6/EV1) with plastic joint and end cap in black
Upper and lower rail Middle profile	• Width: 22 mm • Height: 16 mm • Aluminium extruded (Al Mg Si 0.5 F22) • Hole punch (Ø6.0 mm) equipped with abrasion-resistant plastic cord eyes
Colours	• Profile rail: Technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015) • Visible plastic parts adapted to the profile colours in grey, black, bronze, white or beige
Hangings	• Pleated fabric hangings • 20 mm pleat width • visible drilled hole (Ø3.5 mm) for cord guide bracket • Distance between the cords 0.28 or 0.35 m (dependent on the material)
Mounting	• Fixing of upper and lower profiles: Fixing clip (V2A)
Wire stretch	• The wire stretch can be changed by means of an adjusting screw

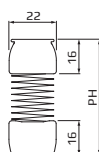
Fixing



Package dimensions

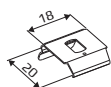
Installation height Package height (in mm)

0.50 m	37-41
1.00 m	40-48
1.50 m	44-55
2.00 m	48-62
2.50 m	51-68
3.00 m	55-75
3.50 m	58-82
4.00 m	62-88



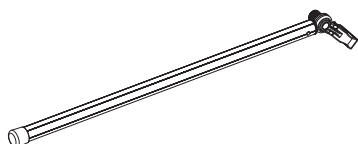
Accessories

Special ceiling clip



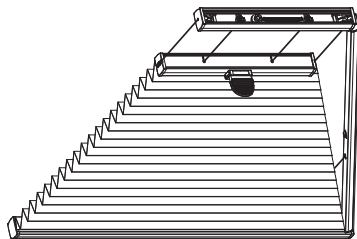
Operating rod

Rod (anodized) with joint, reaches up to the operating handle.
Length: 1.00 m, 1.50 m or 2.00 m (Special length up to max. 3.00 m on request)

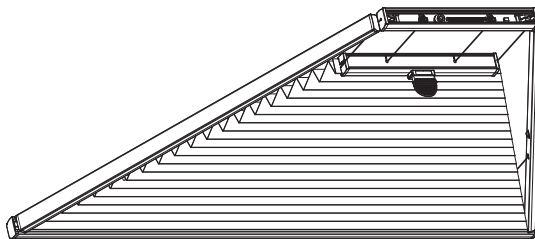


P3634 – Taut installation with handle operation, wire stretch and slanted hangings on the one side.

P3635 – Taut installation with handle operation, wire stretch and slanted hangings on both sides.



P3634



P3635

Sizes/ Installation dimensions

- **Width:** min. 0.30 m
max. 1.50 m
- **Width W2:** min. 0.085 m (Type P3634)
- **Width W2:** min. 0.10 m (Type P3635)
- **Length:** min. 0.20 m
max. 2.00 m
- **Width off-set:** min. 0.05 m
max. 1.20 m
- **Angle of inclination:** max. 45°-90°

Operating mechanism

- Pleated fabric between two profile rails
- Fabric hangings can be stopped at any position
- Closed cord system taut over a patent-registered spring compressor
- Cords made from polyester yarn, diameter of 0.8 mm
- Tension wire: Material 1.4401 (Ø0.81 mm), covered in synthetic material on Ø1.00 mm in white, grey or black
- Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic

Operation

- **Operating handle:** 1 operation handle in the middle
- Optional: Operating rod (anodized aluminium rod E6/EV1) with plastic joint and end cap in black

Upper and lower rail

Middle profile

Side profile

- **Width:** 22 mm
- **Height:** 16 mm
- **Width:** 20 mm
- **Height:** 13 mm
- Aluminium extruded (Al Mg Si 0.5 F22)
- Hole punch (Ø6.0 mm) equipped with abrasion-resistant plastic cord eyes

Colours

- **Profile rail:** Technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015)
- Visible **plastic parts** adapted to the profile colours in grey, black, bronze, white or beige

Hangings

- Pleated fabric hangings • 20 mm pleat width • visible drilled hole (Ø3.5 mm) for cord guide bracket
- Distance between the cords 0.28 or 0.35 m (dependent on the material)

Mounting

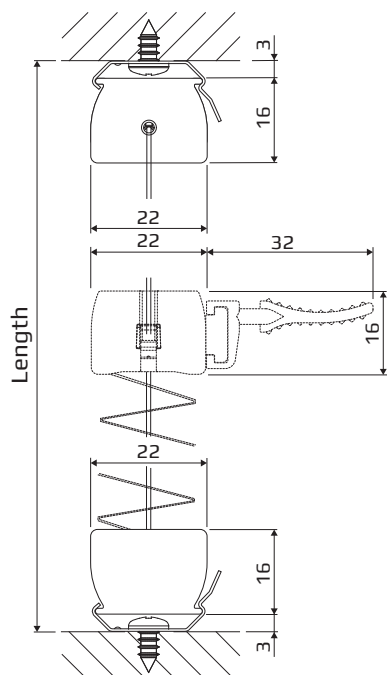
- **Fixing of upper, lower and side profiles:** Fixing clip (V2A)

Wire stretch

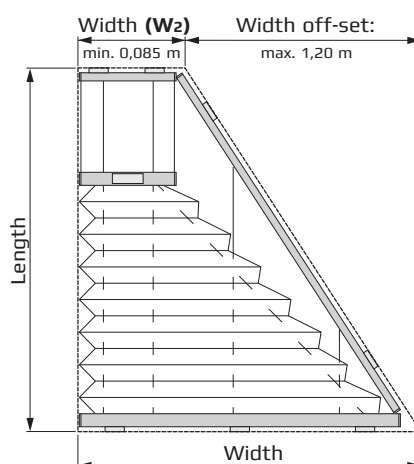
- The wire stretch can be changed by means of an adjusting screw

Fixing

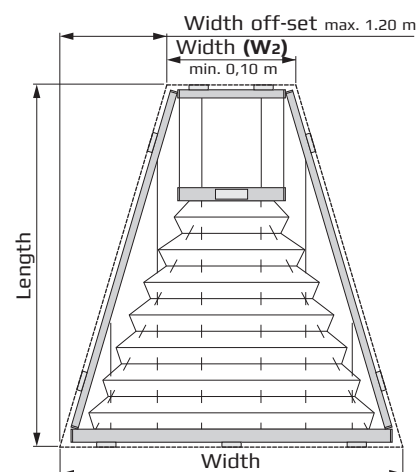
P3634 / P3635



P3634



P3635



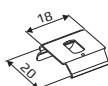
Package dimensions

Installation height Package height (in mm)
height

0.50 m	37-41	
1.00 m	40-48	
1.50 m	44-55	
2.00 m	48-62	

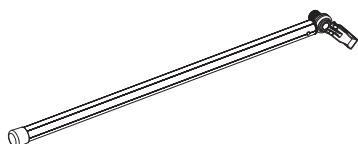
Accessories

Special ceiling clip



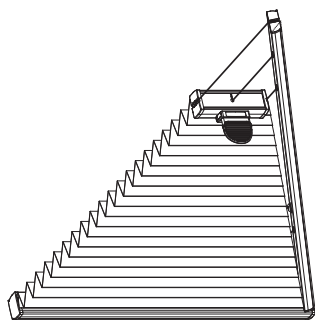
Operating rod

Rod (anodized) with joint, reaches up to the operating handle.
Length: 1.00 m, 1.50 m or 2.00 m (Special length up to max. 3.00 m on request)

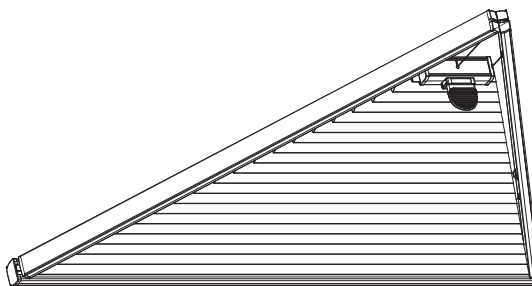


P3636 – Taut triangle installation with handle operation and wire stretch (right-angled triangle).

P3637 – Taut triangle installation with handle operation and wire stretch (isosceles triangle).



P3636



P3637

Sizes/ Installation dimensions

- **Width:** min. 0.30 m
max. 1.20 m (Type P3636)
max. 1.50 m (Type P3637)
- **Length:** min. 0.20 m
max. 2.00 m
- **Angle of inclination:** max. 45°-90°

Operating mechanism

- Pleated fabric between two profile rails
- Fabric hangings can be stopped at any position
- Closed cord system taut over a patent-registered spring compressor
- Cords made from polyester yarn, diameter of 0.8 mm
- Tension wire: Material 1.4401 (Ø0.81 mm), covered in synthetic material on Ø1.00 mm in white, grey or black
- Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic

Operation

- **Operating handle:** 1 operation handle in the middle
- Optional: Operating rod (anodized aluminium rod E6/EV1) with plastic joint and end cap in black

lower rail/ Middle profile Side profile

- **Width:** 22 mm
- **Height:** 16 mm
- **Width:** 20 mm
- **Height:** 13 mm
- Aluminium extruded (Al Mg Si 0.5 F22)
- Hole punch (Ø6.0 mm) equipped with abrasion-resistant plastic cord eyes

Colours

- **Profile rail:** Technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015)
- Visible **plastic parts** adapted to the profile colours in grey, black, bronze, white or beige

Hangings

- Pleated fabric hangings • 20 mm pleat width • visible drilled hole (Ø3.5 mm) for cord guide bracket
- Distance between the cords 0.28 or 0.35 m (dependent on the material)

Mounting

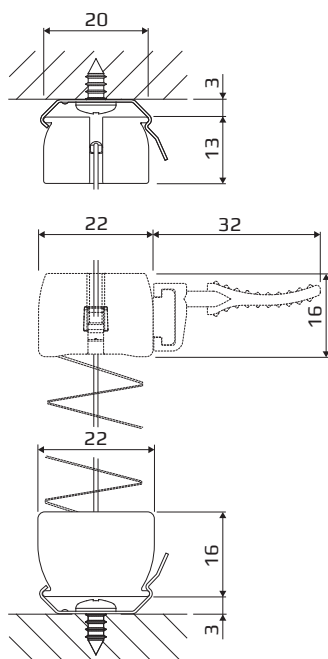
- **Fixing of upper, lower and side profiles:** Fixing clip (V2A)

Wire stretch

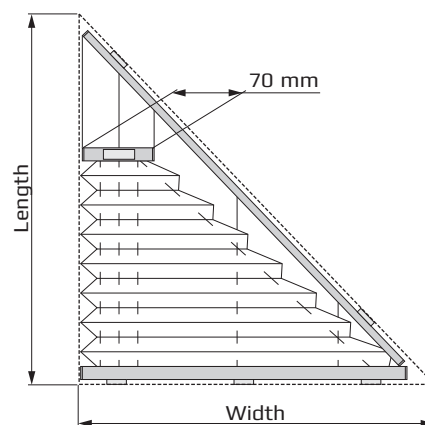
- The wire stretch can be changed by means of an adjusting screw

Fixing

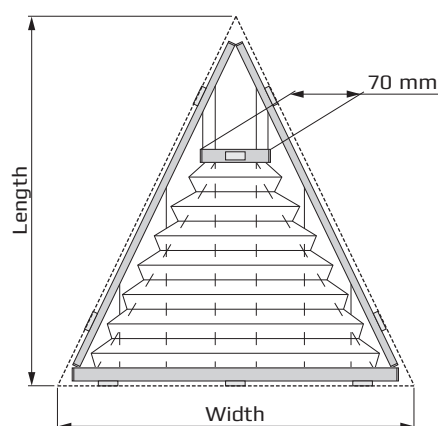
P3636 / P3637



P3636



P3637



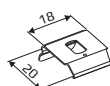
Package dimensions

Installation height Package height (in mm)

0.50 m	37-41	
1.00 m	40-48	
1.50 m	44-55	
2.00 m	48-62	

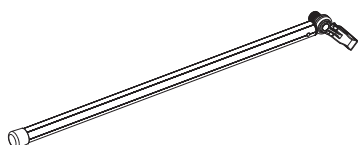
Accessories

Special ceiling clip

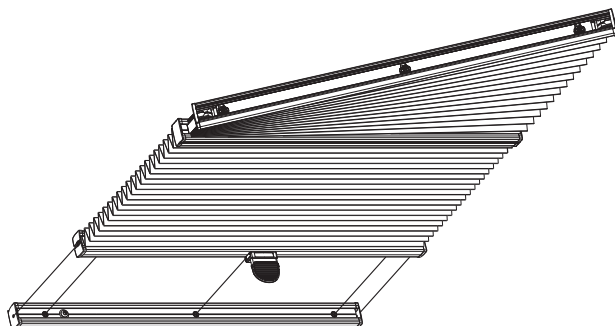


Operating rod

Rod (anodized) with joint, reaches up to the operating handle.
Length: 1.00 m, 1.50 m or 2.00 m (Special length up to max. 3.00 m on request)



P3650 – Taut slope installation with handle operation and wire stretch.


**Sizes/
Installation dimensions**

- **Width:** min. 0.30 m
max. 1.50 m
- **Width W2:** min. 2.00 m to 60° (dependent on the substance)
- **Width W2:** max. 2.20 m up to 30° (dependent on the substance)
- **Length:** min. 0.20 m
max. 3.00 m
- **Length L2:** min. 0.10 m
max. 2.90 m
- **Angle of installation:** max. 5°-60°
- **Angle of inclination:** max. 45°-90°

Operating mechanism

- Pleated fabric between two profile rails
- Fabric hangings can be stopped at any position
- Closed cord system taut over a patent-registered spring compressor
- Cords made from polyester yarn, diameter of 0.8 mm
- Tension wire: Material 1.4401 (Ø0.81 mm), covered in synthetic material on Ø1.00 mm in white, grey or black
- Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic

Operation

- **Operating handle:** 1 operation handle in the middle
- Optional: Operating rod (anodized aluminium rod E6/EV1) with plastic joint and end cap in black

**Upper and lower rail
Middle profile**

- **Width:** 22 mm
- **Height:** 16 mm
- Aluminium extruded (Al Mg Si 0.5 F22)
- Hole punch (Ø6.0 mm) equipped with abrasion-resistant plastic cord eyes

Colours

- **Profile rail:** Technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015)
- Visible **plastic parts** adapted to the profile colours in grey, black, bronze, white or beige

Hangings

- Pleated fabric hangings • 20 mm pleat width • visible drilled hole (Ø3.5 mm) for cord guide bracket
- Distance between the cords 0.28 or 0.35 m (dependent on the material)

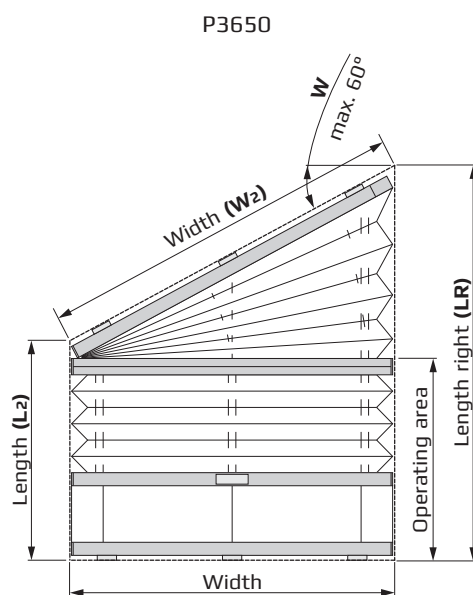
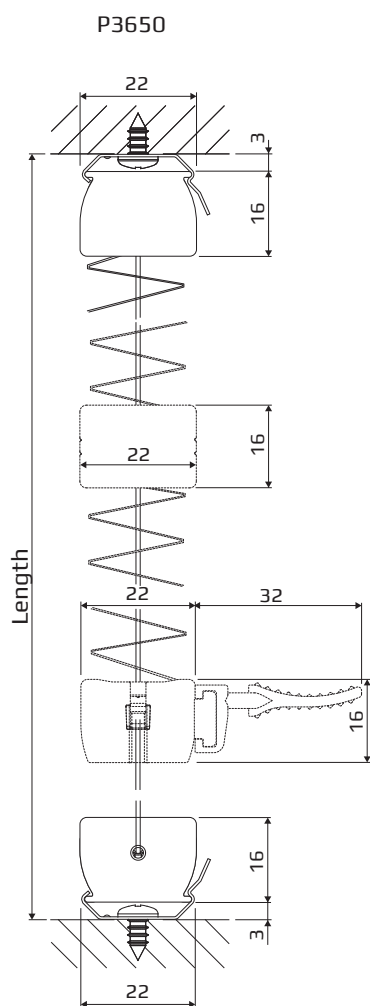
Mounting

- **Fixing of upper and lower profiles:** Fixing clip (V2A)

Wire stretch

- The wire stretch can be changed by means of an adjusting screw

Fixing



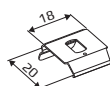
Paketmaße

Installation height L_2 Package height (in mm)

0,50 m	38-42	
1,00 m	42-49	
1,50 m	45-56	
2,00 m	49-63	
2,50 m	53-70	
2,90 m	57-77	

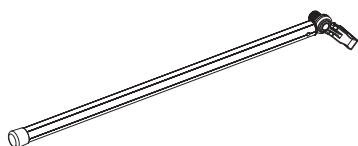
Accessories

Special ceiling clip



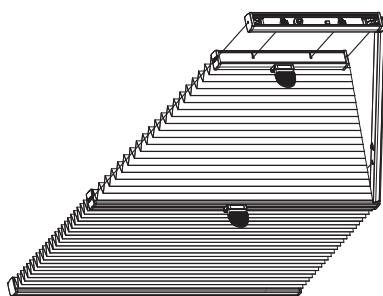
Operating rod

Rod (anodized) with joint, reaches up to the operating handle.
Length: 1.00 m, 1.50 m or 2.00 m (Special length up to max. 3.00 m on request)

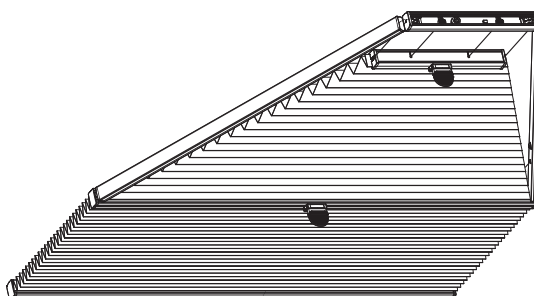


P3662 – Taut pentagon installation with handle operation and wire stretch.

P3663 – Taut hexagon installation with handle operation and wire stretch (isosceles triangle).



P3662



P3663

Sizes/ Installation dimensions

- **Width:** min. 0.20 m (Type P3632)
min. 0.30 m (Type P3633)
max. 1.20 m (installation length max. 2.00 m)
max. 1.50 m (installation length max. 1.50 m)
- **Length:** min. 0.20 m
max. 2.00 m
- **Length 2:** min. 0.10 m
max. 1.90 m
- **Width off-set:** min. 0.05 m
max. 1.20 m
- **Width W2:** min. 0.085 m
(Type P3662) max. 1.45 m
- **Width W2:** min. 0.10 m
(Type P3663) max. 1.40 m
- **Angle of inclination:** max. 45°-90°

Operating mechanism

- Pleated fabric between two profile rails
- Fabric hangings can be stopped at any position
- Closed cord system taut over spring compressors
- Cords made from polyester yarn, diameter of 0.8 mm
- Elastic ceiling cord diameter 1.25 mm
- Tension wire: Material 1.4401 (Ø0.81 mm), covered in synthetic material on Ø1.00 mm in white, grey or black
- Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic

Operation

- **Operating handle:** 1 operation handle in the middle
- Optional: Operating rod (anodized aluminium rod E6/EV1) with plastic joint and end cap in black

Upper and lower rail Middle profile Side profile

- **Width:** 22 mm
- **Height:** 16 mm
- **Width:** 20 mm
- **Height:** 13 mm
- Aluminium extruded (Al Mg Si 0.5 F22)
- Hole punch (Ø6.0 mm) equipped with abrasion-resistant plastic cord eyes

Colours

- **Profile rail:** Technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015)
- Visible **plastic parts** adapted to the profile colours in grey, black, bronze, white or beige

Hangings

- Pleated fabric hangings • 20 mm pleat width • visible drilled hole (Ø3.5 mm) for cord guide bracket
- Distance between the cords 0.28 or 0.35 m (dependent on the material)

Mounting

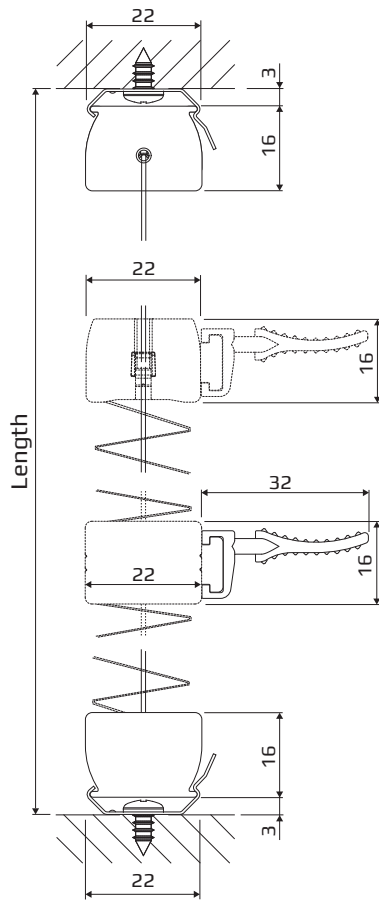
- **Fixing of upper, lower and side profiles:** Fixing clip (V2A)

Wire stretch

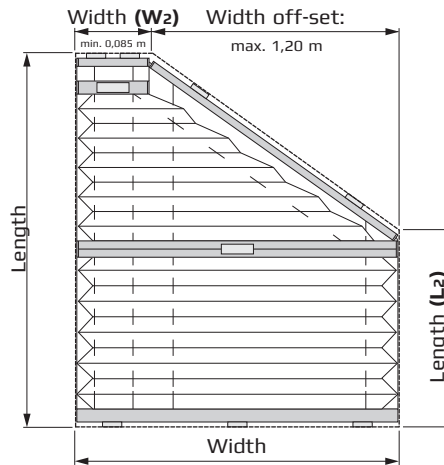
- The wire stretch can be changed by means of an adjusting screw

Fixing

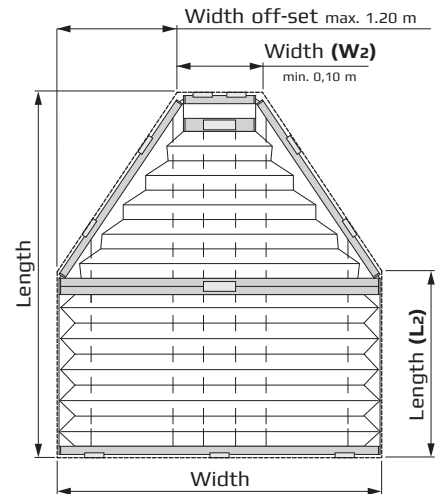
P3662 / P3663



P3662



P3663



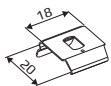
Package dimensions

Installation height Package height (in mm)

0.50 m	58-67	22	16	PH
1.00 m	66-81	22	16	PH
1.50 m	73-95	22	16	PH
2.00 m	79-108	22	16	PH

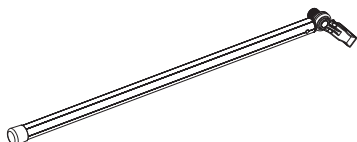
Accessories

Special ceiling clip

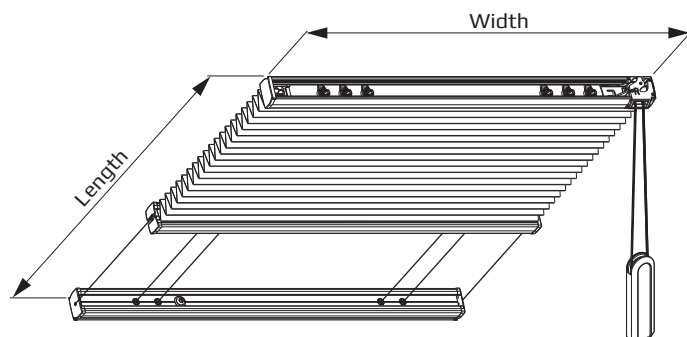


Operating rod

Rod (anodized) with joint, reaches up to the operating handle.
Length: 1.00 m, 1.50 m or 2.00 m (Special length up to max. 3.00 m on request)



P3700 – Taut installation with handle operation and wire stretcher.


**Sizes/
Installation dimensions**

- **Width:** min. 0.30 m
max. 1.50 m (dependent on the material)
- **Length:** min. 0.20 m
max. 4.00 m
- **Angle of inclination:** 45°-90°

Operating mechanism

- Pleated fabric between two profile rails
- Fabric hangings can be stopped at any position
- Closed cord system taut over a patent-registered spring compressor
- Cords made from polyester yarn, diameter of 1.2 mm
- Tension wire: Material 1.4401 (Ø0.81 mm), covered in synthetic material on Ø1.00 mm in white, grey or black
- Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic

Operation

- **Cord operation:** Integrated cord lock without locking function
- **Operating side:** Left or right

**Upper and lower rail
Middle profile**

- **Width:** 22 mm
- **Height:** 16 mm
- Aluminium extruded (Al Mg Si 0.5 F22)
- Hole punch (Ø6.0 mm) equipped with abrasion-resistant plastic cord eyes

Colours

- **Profile rail:** Technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015)
- Visible **plastic parts** adapted to the profile colours in grey, black, bronze, white or beige

Hangings

- Pleated fabric hangings • 20 mm pleat width • visible drilled hole (Ø3.5 mm) for cord guide bracket
- Distance between the cords 0.28 or 0.35 m (dependent on the material)

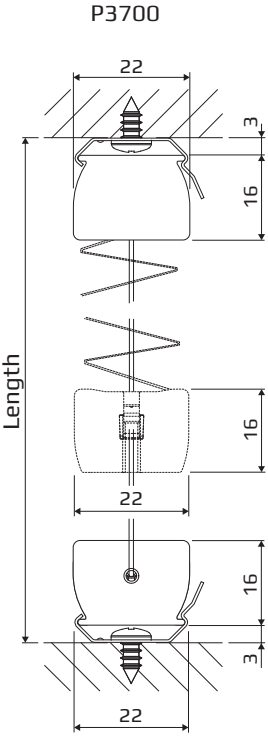
Mounting

- **Fixing of upper and lower profiles:** Fixing clip (V2A)

Wire stretch

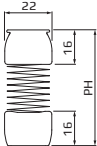
- The wire stretch can be changed by means of an adjusting screw

Fixing



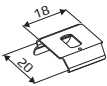
Package dimensions

Installation height	Package height (in mm)
0.50 m	37-41
1.00 m	40-48
1.50 m	44-55
2.00 m	48-62
2.50 m	51-68
3.00 m	55-75
3.50 m	58-82
4.00 m	62-88



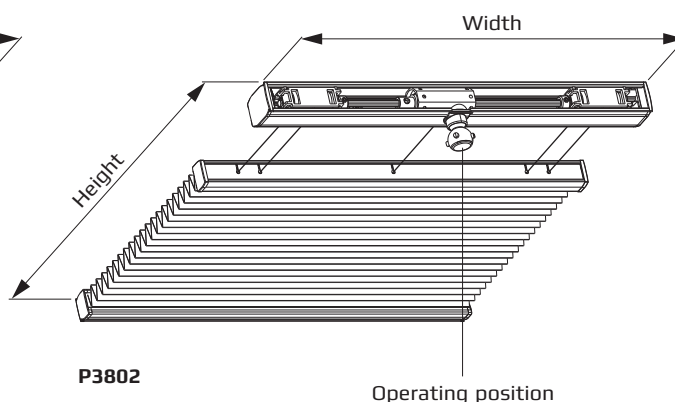
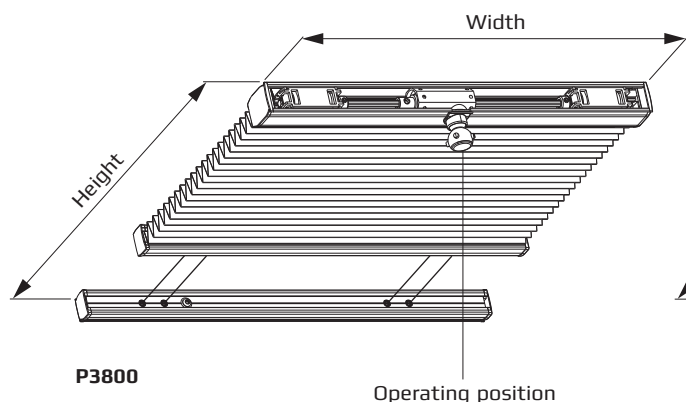
Accessories

Special ceiling clip



P3800 – Taut installation with crank operation and wire stretch (package on operation side).

P3802 – Taut installation with crank operation and wire stretch (package opposite operation side).



Sizes/ Installation dimensions

- **Width:** min. 0.25 m
max. 1.50 m (dependent on the material)
- **Length:** min. 0.20 m
max. 4.00 m
- **Angle of inclination:** 45°-90°

Operating mechanism

- Pleated fabric between two profile rails
- Fabric hangings can be stopped at any position
- Crank mechanism: 1.2:1 Gear ratio, friction clutch with 2-2.5 Nm operation
- Cords made from polyester yarn, diameter of 1.2 mm
- Tension wire: Material 1.4401 (Ø0.81 mm), covered in synthetic material on Ø1.00 mm in white, grey or black
- Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic

Operation

- **Crank operation:** Removable crank for ceiling installations with crank operation, Länge 1.00 m, 1.50 m, 2.00 m or 3.00 m
- **Optional:** Removable engine rod including a rechargeable battery and a charger Länge 1.00 m, 1.50 m, 2.00 m or 3.00 m)
- **Operating side:** Left, middle or right

Upper rail

- **Width:** 27 mm
- **Height:** 34.5 mm

Middle profile/ Lower rail

- **Width:** 22 mm
- **Height:** 16 mm
- Aluminium extruded (Al Mg Si 0.5 F22)
- Hole punch (Ø6.0 mm) equipped with abrasion-resistant plastic cord eyes

Colours

- **Profile rail:** Technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015)
- Visible **plastic parts** adapted to the profile colours in grey, black, bronze, white or beige
- **Crank rod** technically anodized in accordance with E6/EV1 in grey
- **Mount for crank rod:** in grey and white

Hangings

- Pleated fabric hangings • 20 mm pleat width • visible drilled hole (Ø3.5 mm) for cord guide bracket
- Distance between the cords 0.28 or 0.35 m (dependent on the material)

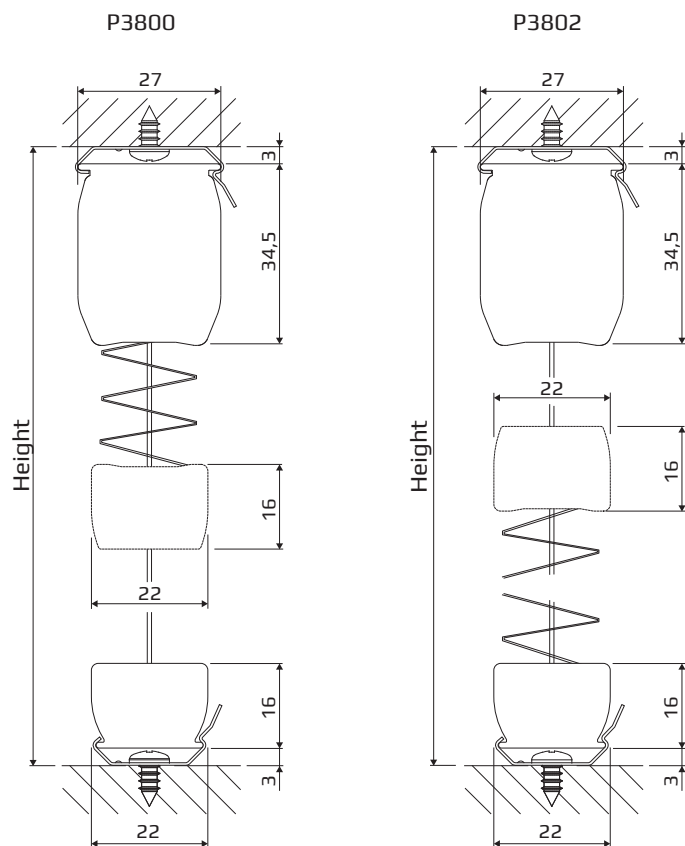
Mounting

- **Fixing of upper and lower profiles:** Fixing clip (V2A)

Wire stretch

- The wire stretch can be changed by means of an adjusting screw

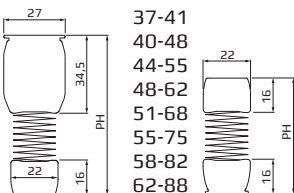
Fixing



Package dimensions

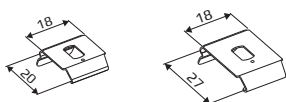
Installation height Package height (in mm)
P3800 P3802

0.50 m	55-59	37-41
1.00 m	59-66	40-48
1.50 m	62-73	44-55
2.00 m	66-80	48-62
2.50 m	70-87	51-68
3.00 m	73-94	55-75
3.50 m	77-97	58-82
4.00 m	80-107	62-88



Accessories

Special ceiling clip



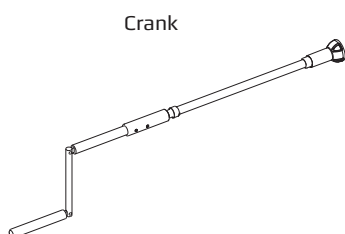
Crank accessories

Crank for ceiling installations with crank operation

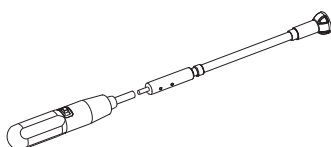
Length: 1.00 m, 1.50 m, 2.00 m or 3.00m

Electric crank for ceiling installations with crank operation including a rechargeable battery and a charger

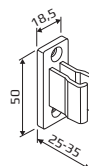
Length: 1.00 m, 1.50 m, 2.00 m or 3.00m



Engine rod

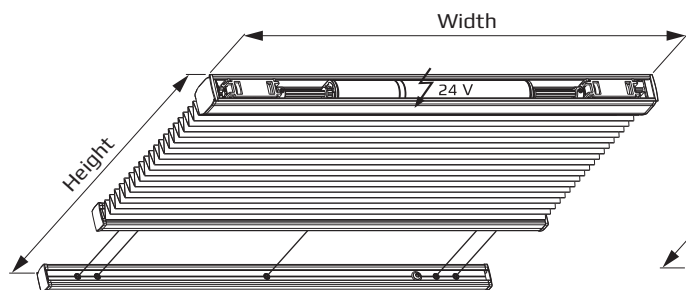


Mount for crank

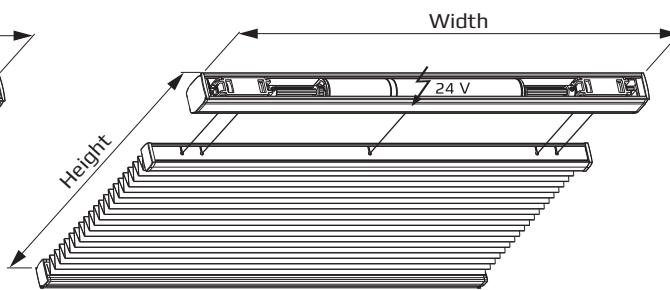


P3900 – Taut installation with crank operation and wire stretch (package on operation side).

P3902 – Taut installation with crank operation and wire stretch (package opposite operation side).



P3900



P3902

Sizes/ Installation dimensions

- **Width:** min. 0.40 m
max. 1.50 m (dependent on the material)
- **Length:** min. 0.20 m
max. 4.00 m
- **Angle of inclination:** max. 45°-90°

Operating mechanism

- Pleated fabric between two profile rails
- Fabric hangings can be stopped at any position by means of motor drive
- Winding up the cord system CTS 25 cord winder
- Cords made from polyester yarn, diameter of 1.2 mm
- Tensions wire: Material 1.4401 (Ø0.81 mm), covered in synthetic material on Ø1.00 mm in white, grey or black
- Plastic parts made from high quality, UV resistant, temperature resistant and abrasion-resistant plastic

Engine specifications

- **Standard engine / Stronger engine**
Central drive with integrated brake and minimal generation of noise. Travel limits of the machine by means of stopper/spindle blocking device. Measurement: Ø24 x 201 mm • Max. size for the hangings: 3 m² / 5 m²
• Voltage rating: 24 V DC • Connection: 2.5 m cable • rated torque: 0.4 Nm / 0.8 Nm
• Rated speed: 40 min⁻¹ / 30 min⁻¹ • Max. power consumption: 0.45 A / 0.6 A • power capacity: 11 W / 14 W
• Operating temperature: -10 to +60 °C • Type of protection: IP40.

Upper rail

- **Width:** 27 mm
- **Height:** 34.5 mm

Middle profile/ Lower rail

- **Width:** 22 mm
- **Height:** 16 mm
- Aluminium extruded (Al Mg Si 0.5 F22)
- Hole punch (Ø6.0 mm) equipped with abrasion-resistant plastic cord eyes

Colours

- **Profile rail:** Technically anodized in accordance with E6/EV1 in silver, black and bronze or powder-coated in white (RAL 9016) and beige (RAL 1015)
- Visible **plastic parts** adapted to the profile colours in grey, black, bronze, white or beige

Hangings

- Pleated fabric hangings • 20 mm pleat width • visible drilled hole (Ø3.5 mm) for cord guide bracket
- Distance between the cords 0.28 or 0.35 m (dependent on the material)

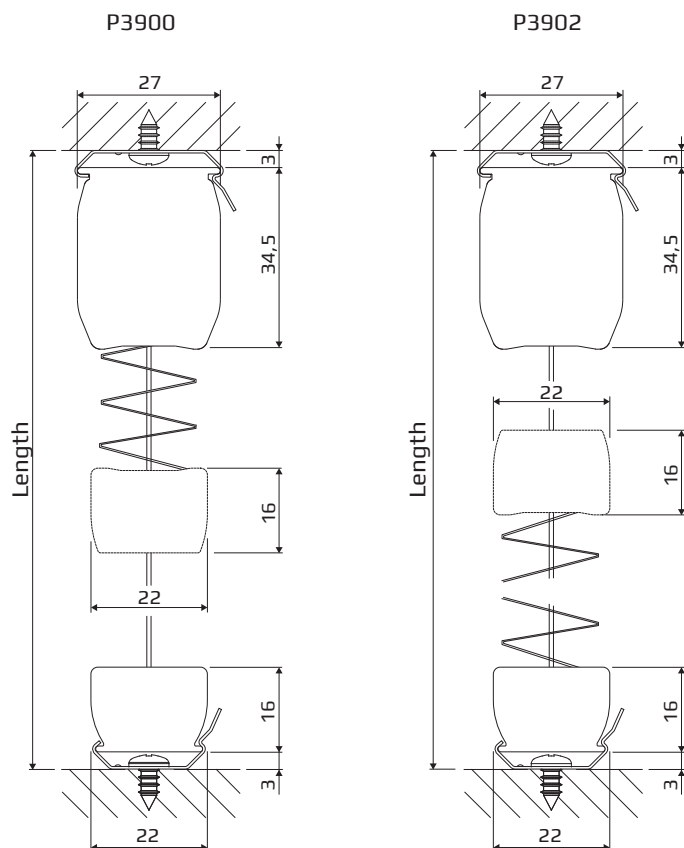
Mounting

- **Fixing of upper and lower profiles:** Fixing clip (V2A)

Wire stretch

- The wire stretch can be changed by means of an adjusting screw

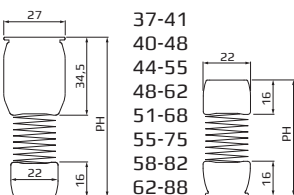
Fixing



Package dimensions

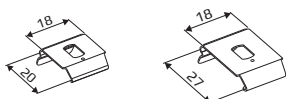
Installation height Package height (in mm)
P3900 P3902

0.50 m	55-59	37-41
1.00 m	59-66	40-48
1.50 m	62-73	44-55
2.00 m	66-80	48-62
2.50 m	70-87	51-68
3.00 m	73-94	55-75
3.50 m	77-97	58-82
4.00 m	80-107	62-88



Accessories

Special ceiling clip





Benthin GmbH
Osterstader Str. 16
D-27572 Bremerhaven
T +49 471 79 84 0
F +49 471 79 84 111
info@benthin.com

Benthin
Pondwood House
Pondwood Close
Moulton Park Ind. Estate
Northampton NN3 6RT
T +44 1604 490580
F +44 1604 648446
info-uk@benthin.com

Benthin Systèmes E.U.R.L
27, Avenue de Montboulon
FR-77165 St. Soupplets
T +33 1 60 61 56 56
F +33 1 60 01 57 11
info@benthin.fr

www.benthin.com