

V-PERGOLA
في بيرجولا

TECHNICAL SHEET

Bioclimatic Pergola

Technical data: profiles, accessories and specifications

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Bioclimatic Pergola

A roof of aluminium louvres moved by motor and remote. The louvres tilt to adjust light and airflow and fold back on a scissor mechanism to open the roof; closed, they keep out sun and rain.

- Bioclimatic Pergola: precise detailing with zero visible silicone and no screws visible from the outside. The product is patent-protected.
- Rainwater drains from the louvres to the gutter, then down inside the columns
- Integrated LED lighting: white, warm white or RGB
- 120 Nm motor with multi-channel remote

Max. projection **8 m**	Max. front width **4 m**
Movement **Tilt, then fold back**	Motor **120 Nm, with remote**

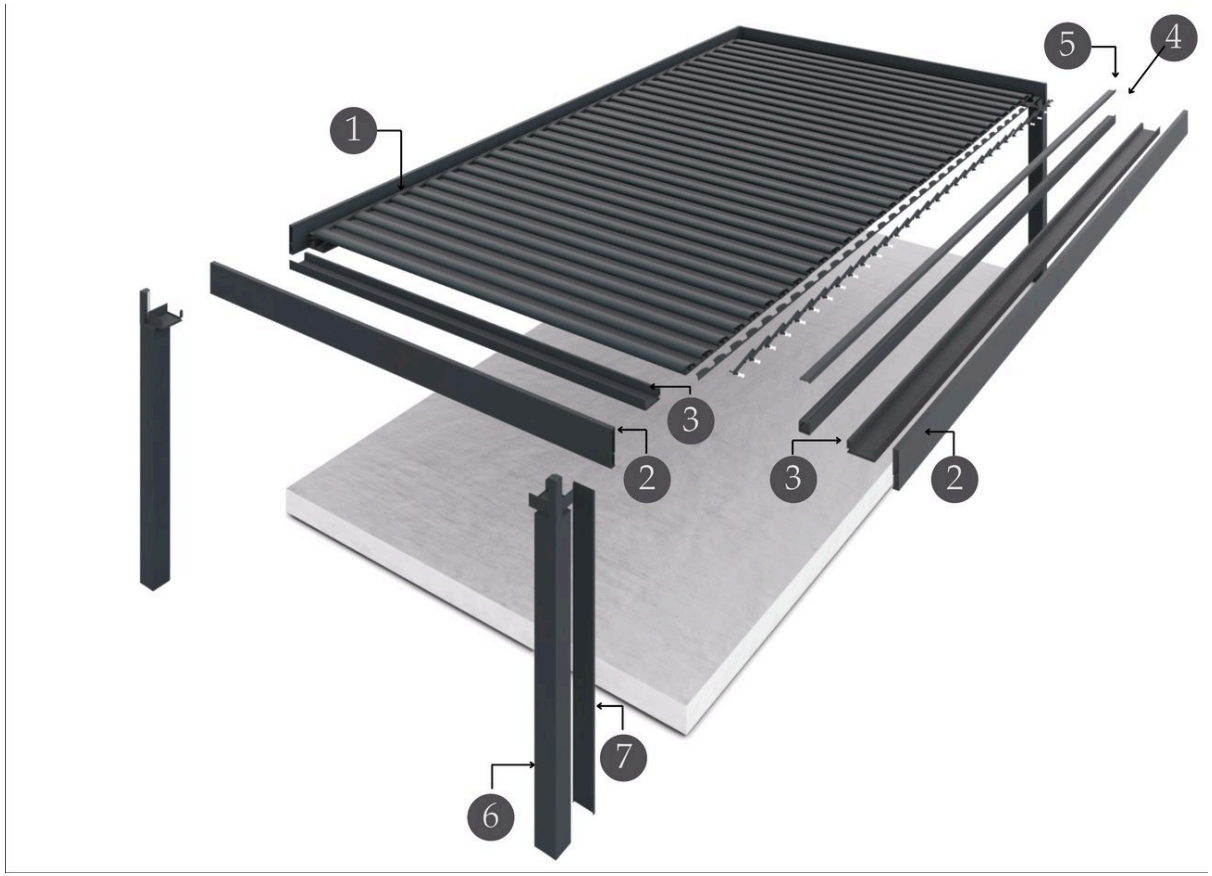
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Bioclimatic Pergola





Bioclimatic Pergola — How It Works



System components

1. **KD-14671 · Lamella**
2. **KD-4997 · Beam**
3. **KD-4998 · Gutter**
4. **KD-14712 · Rail**
5. **KD-14711 · Rail cover**
6. **KD-4995 · Column**
7. **KD-4996 · Column cover**

Max. projection

8 m

Max. front width

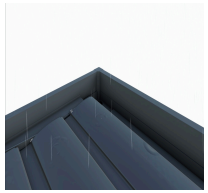
4 m

Movement

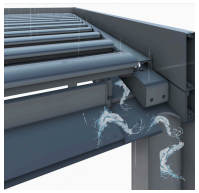
Tilts, then folds back (scissor mechanism)

Motor

120 Nm, multi-channel remote



1. Rain on the lamellas



2. Water runs to the gutter



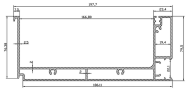
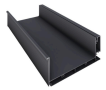
3. Outlets at the column base

Bioclimatic Pergola — Kendor Scissor-Type Bioclimatic System



- **Bioclimatic Pergola: precise detailing with zero visible silicone and no screws visible from the outside. The product is patent-protected.**
- The corner drainage piece drains rainwater and keeps the LED lighting continuous around the corners.
- Sealing through heavy-load profile geometry and high-performance gaskets.
- Uses: residential, restaurants, cafés, hotels, commercial projects.

Bioclimatic Pergola — System Profiles

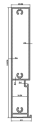



Kendor Gutter

Code **KD-4998**

3.9 kg/m

197.7 × 79.5 mm (base 186.11 · inner 166.80 · 76.38 · 23.4 · 19.4 · 22.1) · thk. 2.5 / 2 · lengths 5.00 – 5.50 – 6.00 – 6.50 – 7.00 – 7.50 – 8.00 m

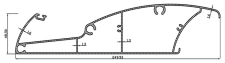
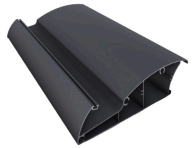



Kendor Beam

Code **KD-4997**

5.22 kg/m

249.50 × 43 mm (top width 39.90) · thk. 2.6 / 2.5 · inner channel 31.50 · lengths 5.00 – 5.50 – 6.00 – 6.50 – 7.00 – 7.50 – 8.00 m

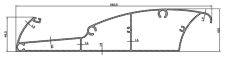
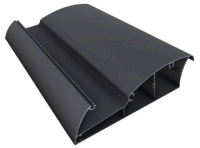



Kendor Lamella

Code **KD-14671**

3.3 kg/m

249.93 × 48.50 mm · thk. 1.6 / 1.3 · lengths 6.50 – 7.00 – 7.50 – 8.00 m

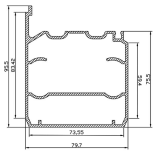
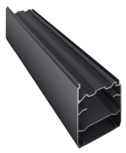



Kendor Gold Lamella

Code **KD-4999**

3.8 kg/m

283.5 × 60.1 mm (edge height 48.5) · thk. 1.9 / 1.6 · lengths 6.50 – 7.00 – 7.50 – 8.00 m

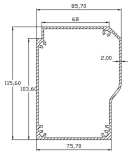



Kendor Rail

Code **KD-14712**

3.28 kg/m

79.7 × 95.5 mm (83.42 · 73.55 · 75.5 · 59.4) · lengths 5.00 – 7.00 – 8.00 m

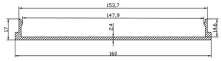



Kendor Motor Box (shafted)

Code **KD-4110**

2.31 kg/m

85.70 × 115.60 mm (68 · 103.60 · 75.70) · thk. 2.00 · lengths 80 cm — sold per piece

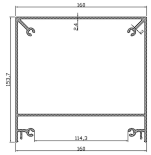



Kendor Column Cover

Code **KD-4996**

1.26 kg/m

160 × 17 mm (153.7 / 147.9 · 14.6) · thk. 2.4 · lengths 6.00 – 7.50 m

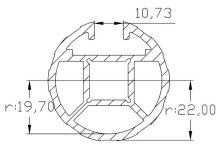



Kendor Column

Code **KD-4995**

5.17 kg/m

160 × 153.7 mm (opening 114.3) · thk. 2.4 · lengths 6.00 – 7.50 m



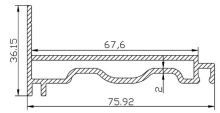


Kendor Motor Pipe

Code **KD-4115**

1.1 kg/m

R 22.00 outer / R 19.70 inner · channel 10.73 mm · lengths 5.00 – 6.00 m





Kendor Rail Cover

Code **KD-14711**

1.13 kg/m

75.92 × 36.15 mm (67.6) · thk. 2 · lengths 5.00 – 7.00 – 8.00 m

Bioclimatic Pergola — Accessories & Connectors



Kendor Scissors (Short)
Code **KD-003**



Kendor Scissors (Long)
Code **KD-002**



Kendor Lamella Laser
Code **KD-001**



Kendor Rail Set
Code **KD-014**



Kendor Motor Set
Code **KD-013**



Kendor Corner Cover Sheet
Code **KD-008**



Kendor T type Top Connection
Code **KD-007**



Column T-Type Top Connection Part with Water Drain
Code **KD-006**



Kendor Corner Laser
Code **KD-005**



Kendor Perforated Corner Laser
Code **KD-004**



Rail Seal Brush
Code **KD-015**



Kendor Wheel Set
Code **KD-012**



Kendor Water Collector
Code **KD-011**



Column Base Connection Part
Code **KD-010**



Kendor Cover for T Type Connection
Code **KD-009**



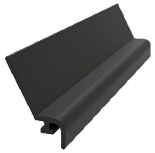
Gutter Gasket
Code **KD-019-2**



Column Gasket
Code **KD-019-1**



Kendor Lamella Seal
Code **KD-018**



Kendor Gutter Seal
Code **KD-017**



Kendor Beam Seal
Code **KD-016**

Bioclimatic Pergola — Motorization & Control



Somfy Multiple Controller

Code **RTS-1,5,16**



Somfy Rts 120 Nm Engine

Code **RTS-120**



Becker Multiple Controller

Code **ECR-541,545,5410**



Becker 120 Nm Engine

Code **BECK-120**



Cherubini Multiple Controller

Code **CHR-1,7,50**



Cherubini 120 Nm Engine

Code **CHR-120**

Bioclimatic Pergola — Lighting & Power



White Led

Code **KD-021**



Warm White Led

Code **KD-020**



24V Transformer (without fan)

Code **TR-12*24**



24V Transformer With Fan

Code **TR-12*24**



Diffuser Cover

Code **KD-023**



Rgb Led

Code **KD-022**

Bioclimatic Pergola — Fasteners & Drive Parts



M6x25 Fully Threaded Socket Head Screw

Code **KD-027**



M8x40 Fully Threaded Socket Head Screw

Code **KD-026**



Kendor M10 Short Stainless Steel Bolt

Code **KD-025**



Kendor Brass Bushing

Code **KD-024**



T10 Timing Belt

Code **KD-031**



M4x12 Pan Head Self - Drilling Screw

Code **KD-030**



Torx Countersunk Head Stainless Steel Screw M5.5x35 / M4.5x30

Code **KD-029**



5x30 Stainless Steel Trapezoidal Lead Screw

Code **KD-028**

Bioclimatic Pergola — KD-013 Motor Kit Contents



Bearing Seat

Pack **3**



Motor Gearbox Right and Left Covers

Pack **1**



Large Gear of the Motor Gearbox

Pack **1**



Small Gear of the Motor Gearbox

Pack **1**



M8x12 Stainless Steel Hex Head Bolt

Pack **2**



M8x10 Socket Head Cap Screw

Pack **8**



M8 Square Nut

Pack **2**



C45 Steel 14x11x200 DIN 6885 Parallel Key

Pack **2**



M12 Plain Washer

Pack **8**



M16 Plain Washer

Pack **2**



Nylon Insert Lock Nut

Pack **8**



Single Row Deep Groove Ball Bearing

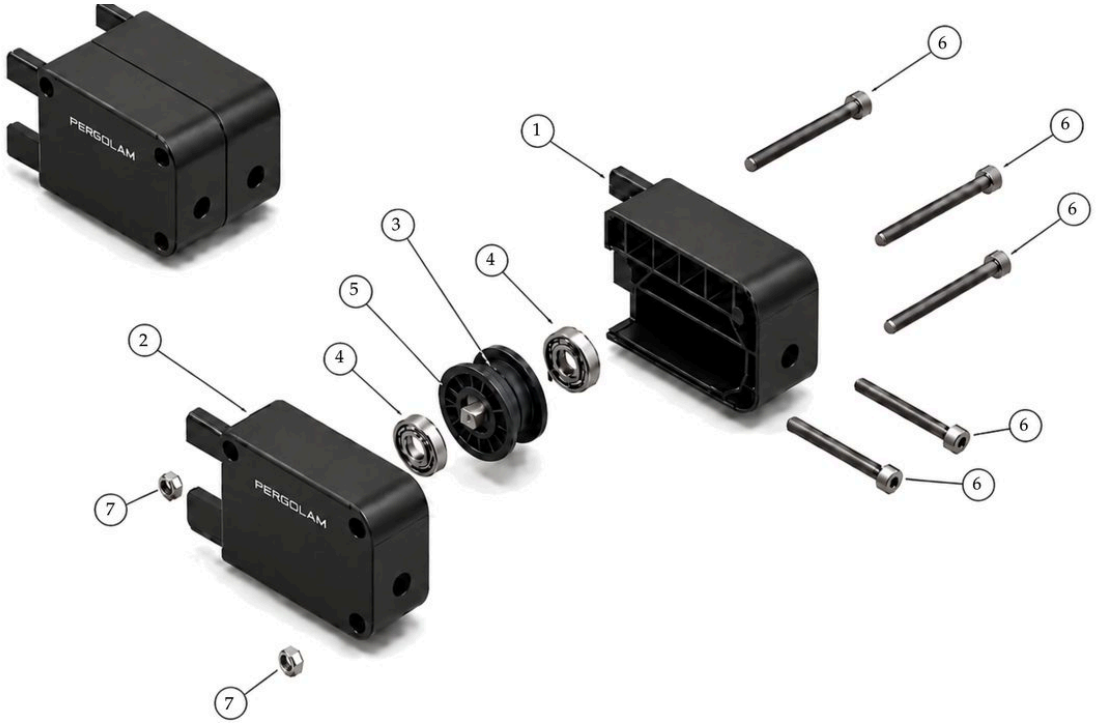
Pack **3**



M4x40 Pan Head Phillips Self-Drilling Screw

Pack **8**

Bioclimatic Pergola — KD-014 Rail Kit · Front Tensioner Set



Front mechanism – right 1
Qty 1

Front mechanism – left 2
Qty 1

Pulley 3
Qty 1

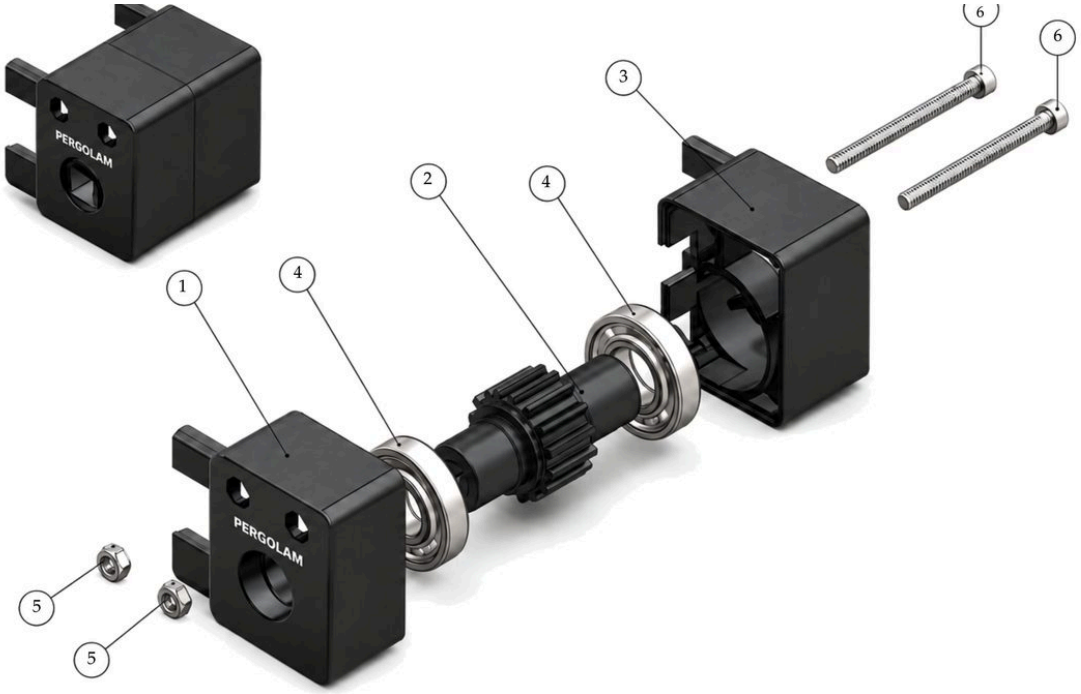
Bearing 6003 ZZ 4
Qty 2

Square nut M6 5
Qty 1

Allen bolt M6×70 6
Qty 5

Nut M6 7
Qty 3

Bioclimatic Pergola — KD-014 Rail Kit · Rear Cage Set



Rear mechanism – right 1
Qty 1

Toothed pulley 2
Qty 1

Rear mechanism – left 3
Qty 1

Bearing 6003 ZZ 4
Qty 2

Nut M6 5
Qty 2

Allen bolt M6×70 6
Qty 2

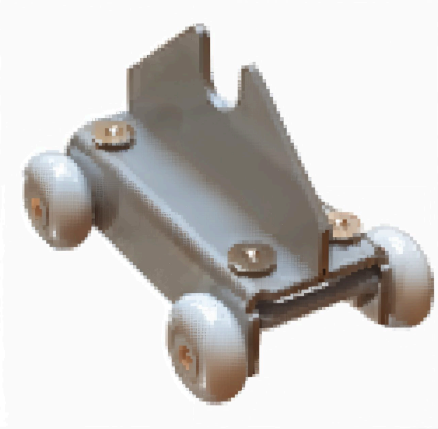
Bioclimatic Pergola — KD-014 Rail Kit Contents



Kendor Rail Stop Right Left

Code **KD-033**

Pack **1**

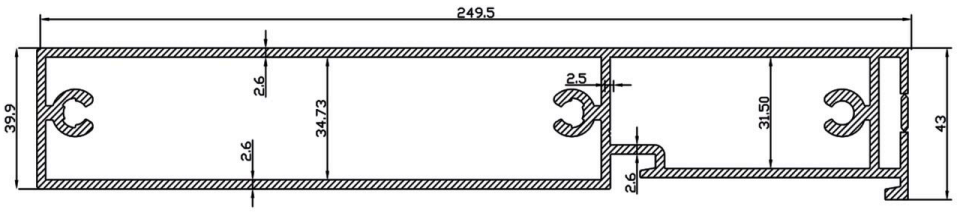


Kendor Rail Car

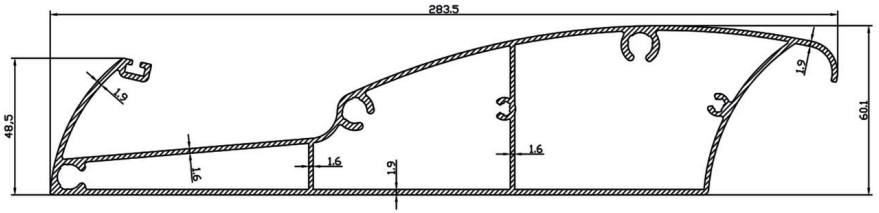
Code **KD-032**

Pack **2**

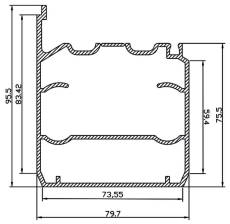
Bioclimatic Pergola — System Profile Locations · Sections



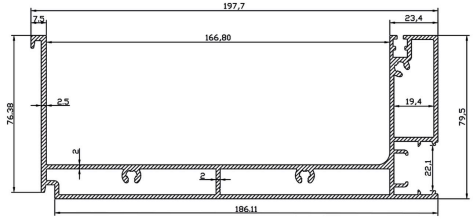
2. Beam · KD-4997



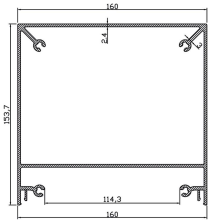
1. Lamella · KD-14671



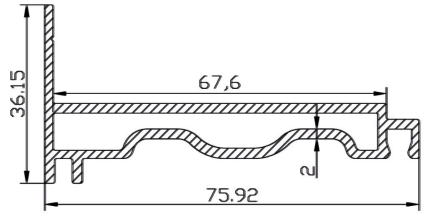
4. Rail · KD-14712



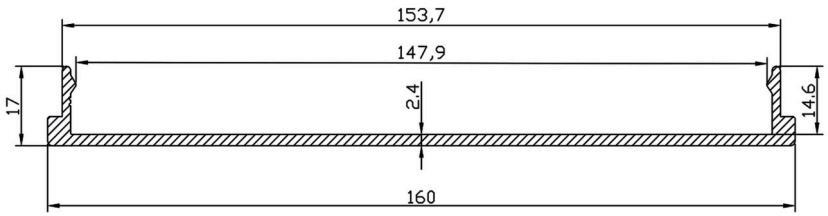
3. Side gutter · KD-4998



6. Column · KD-4995



5. Rail cover · KD-14711



7. Column cover · KD-4996

Bioclimatic Pergola — Max. System Dimensions



Max. front width

4 m

Max. projection

8 m

No. of lamellas and pre-set opening — lamella KD-14671

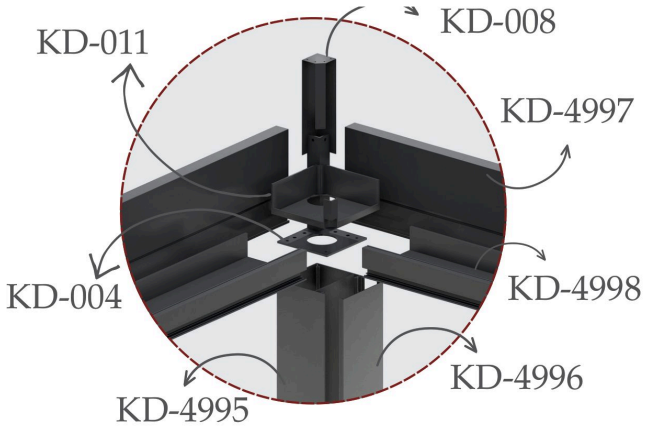
No. of lamellas	Opening (mm)
27	5,817
28	6,018
29	6,221
30	6,422
31	6,623
32	6,825
33	7,027
34	7,228
35	7,430
36	7,633
37	7,833
38	8,036

No. of lamellas	Opening (mm)
15	3,399
16	3,598
17	3,800
18	4,002
19	4,204
20	4,406
21	4,606
22	4,808
23	5,010
24	5,213
25	5,414
26	5,615

No. of lamellas	Opening (mm)
3	976
4	1,178
5	1,380
6	1,582
7	1,783
8	1,985
9	2,187
10	2,389
11	2,591
12	2,793
13	2,995
14	3,197

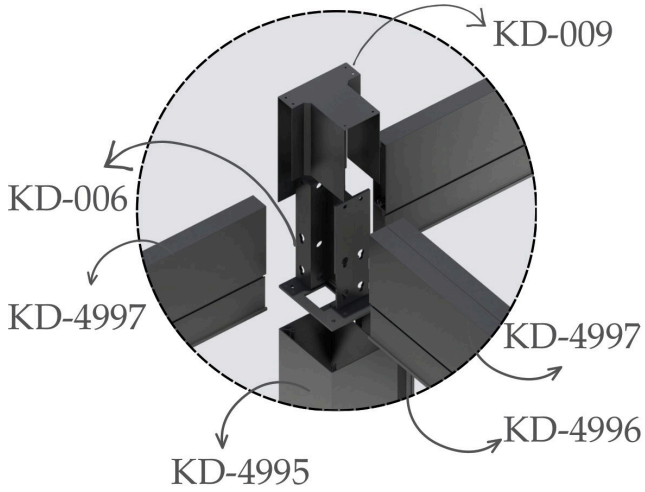
Bioclimatic Pergola — Corner Connection Systems



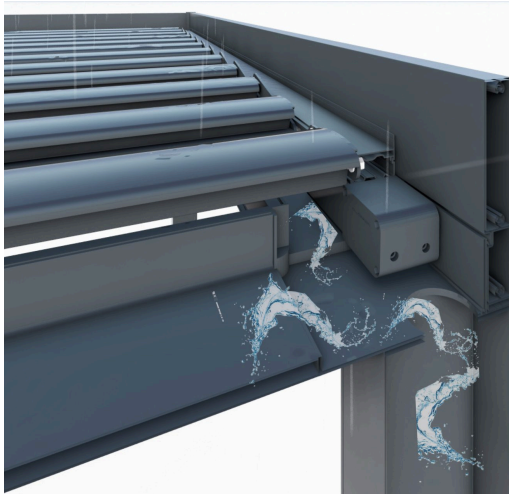




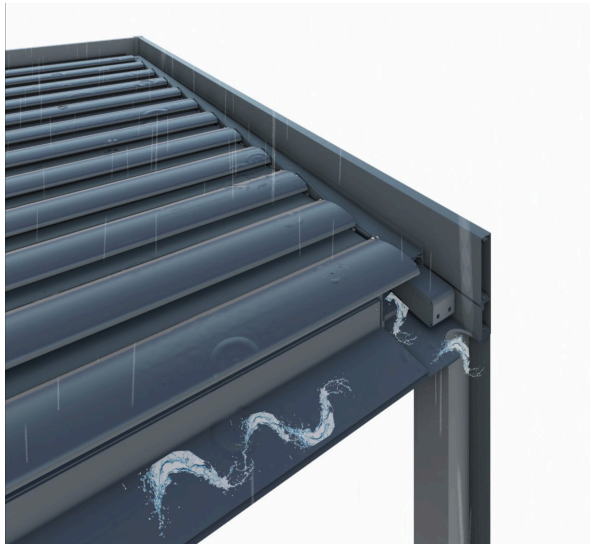




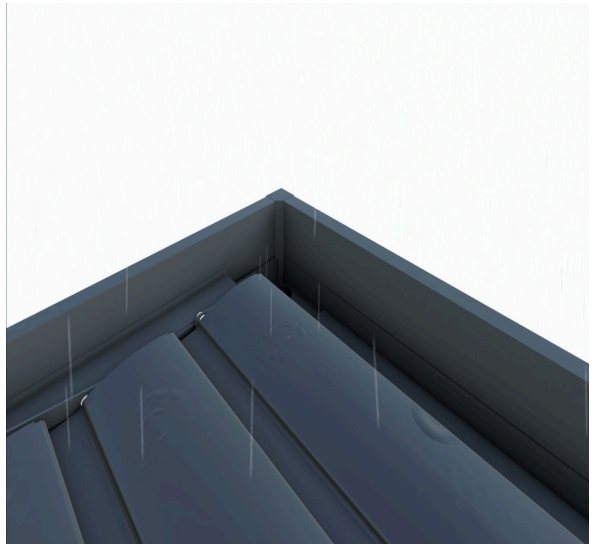
Bioclimatic Pergola — Rainwater Drainage System



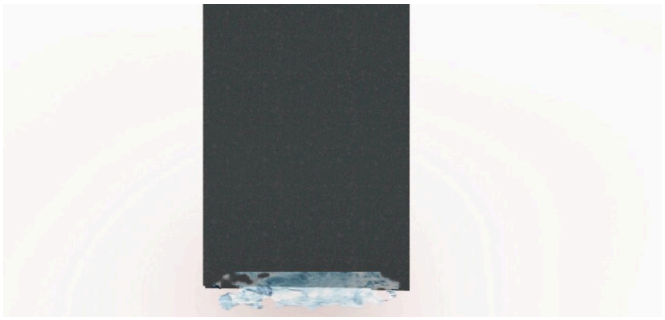
3. Water collects in the side gutter and flows to the column



2. Water runs along the lamellas to the side beams



1. Rain falls on the closed lamellas



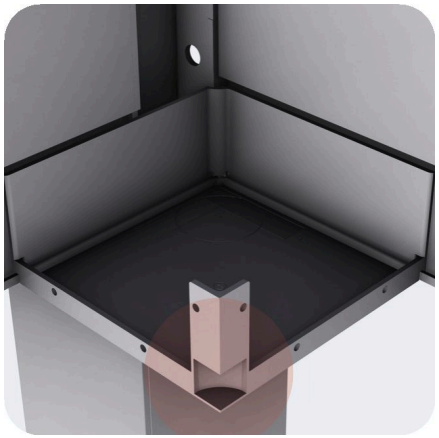
5. Drainage outlet at the column base



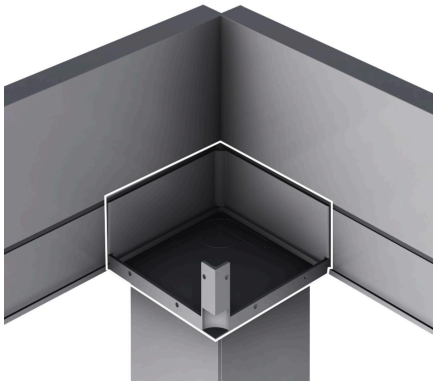
4. Water runs down inside the column

Bioclimatic Pergola — KD-011 Corner Water Basin · Specifications

- A dedicated solution for controlled, continuous drainage at the corner joints.
- Keeps the LED lighting continuous around the corners.



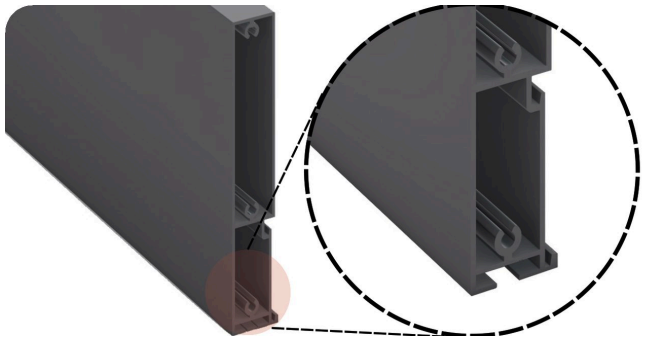




Bioclimatic Pergola — KD-4997 Beam · Specifications







- Heaters can be fixed to it with suitable fittings; cables are hidden inside the profile.
- Auxiliary lighting can be integrated in the same channel.

V-PERGOLA

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Let's start with your space

Send us a photo of the space, its dimensions and how you use it, and we will recommend the right system.

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