



All weather protection systems!

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AWNINGS.COM

SHADEONE® Twister-Sail

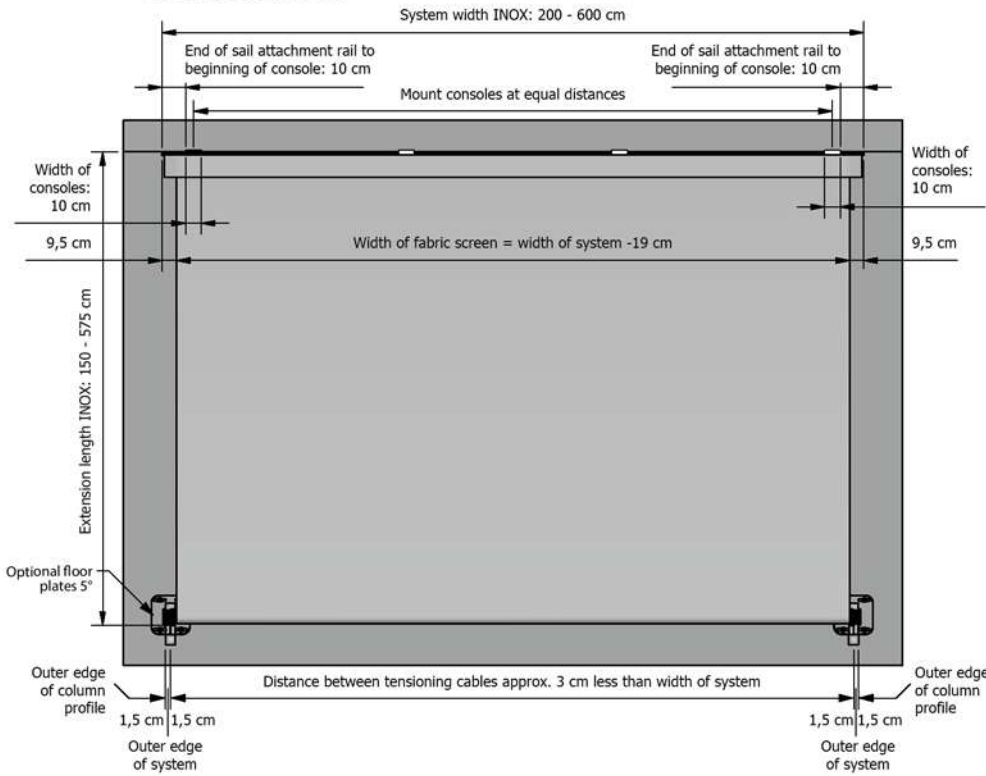
Technical data sheets and variations for installation

All information contained in this document was provided by the manufacturer of the components for this particular model. As a fabricator/distributor, Retractableawnings.com Inc. claims no liability with respect to these documents as we are not engineers and did not complete any of the information, engineering or calculations in this document.

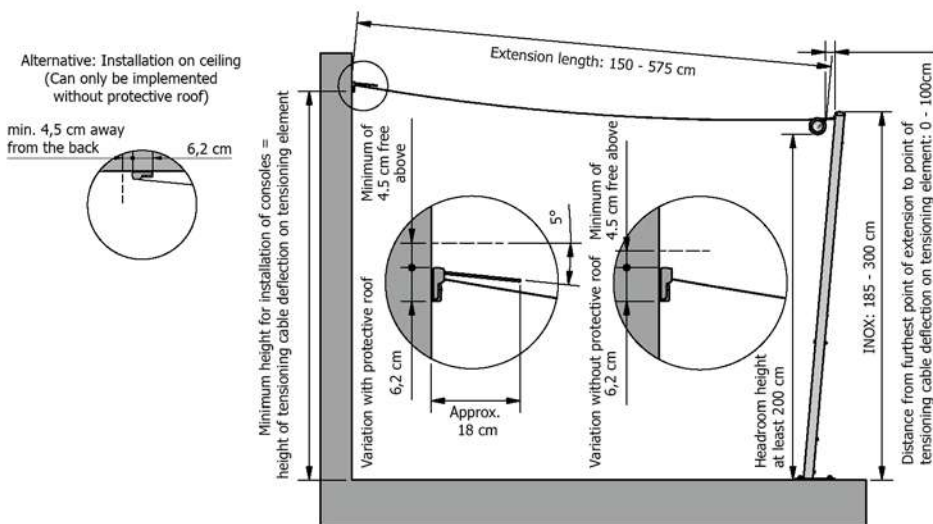
All measurements in this document are metric. To convert from metric (meters, centimeters and millimeters) to imperial (feet and inches) visit this website:
http://www.onlineconversion.com/length_common.htm



View from above:



Side view:



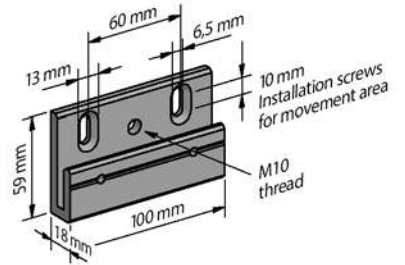
Important informations:

- A winter protection bag cannot be used for the variation with protective roof
- In cases where the distance between furthest extension point and point of tensioning cable deflection on tensioning element is greater than 100cm, please contact the manufacturer in order to discuss the headroom height, system moveability and the increased wear and tear on tensioning cable.

Twister-Sail:

- At gradients of 0 % to 40 % (0° to 22°)
- Water drains off automatically from a gradient of approx. 14 % (8°)

Measurements for wall consoles:



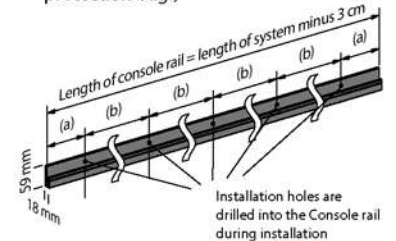
Number of wall consoles:

Number of consoles delivered as standard		
Width of system		Number of Consoles
From	To	
200 cm	- 230 cm	3 pcs.
231 cm	- 330 cm	4 pcs.
331 cm	- 430 cm	5 pcs.
431 cm	- 530 cm	6 pcs.
531 cm	- 600 cm	7 pcs.

Alternative to wall consoles:

Console rail

(N.B.: Not compatible with winter protection bag!)

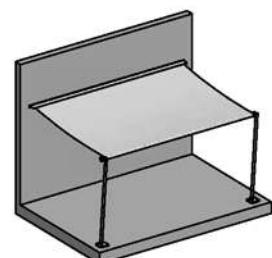


Please note:

- (a) The outer-most installation holes at either end should be closer than 20 cm to the edge of the system
- (b) The internal distances between the installation holes should be no greater than 100 cm

Example of installation:

(For more examples of installation, see page 18 onwards)

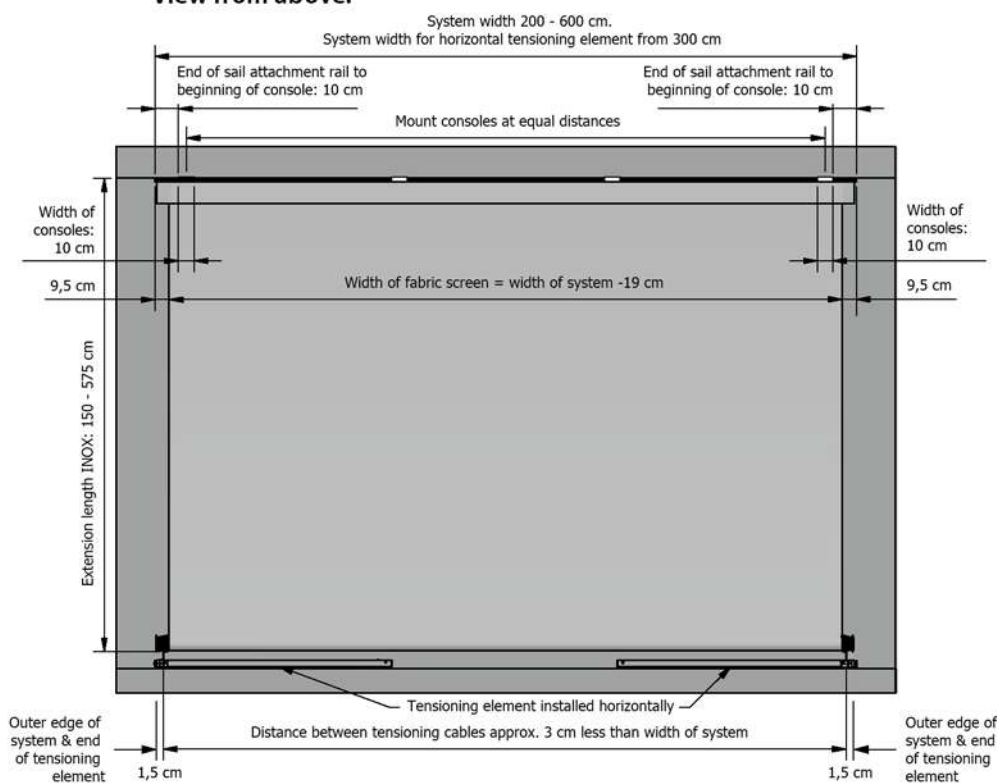




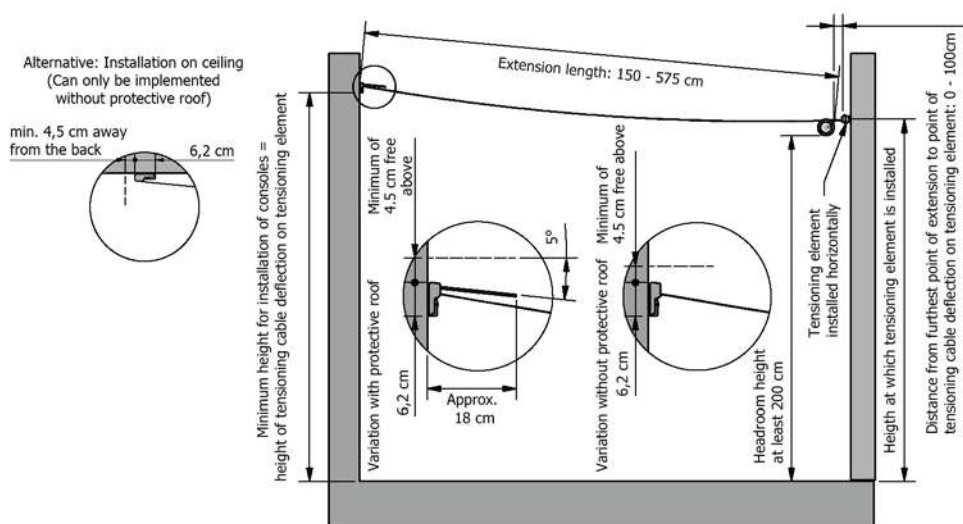
All measurements given in millimetres unless otherwise stated

MEASUREMENTS FOR SHADEONE® STRUCTURE

View from above:



Side view:



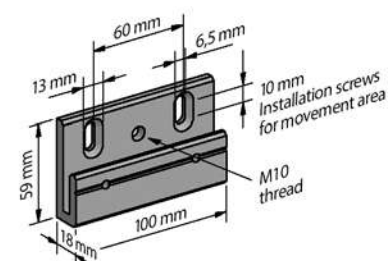
Important informations:

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Twister-Sail:

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- Water drains off automatically from a gradient of approx. 14 % (8°)

Measurements for wall consoles:



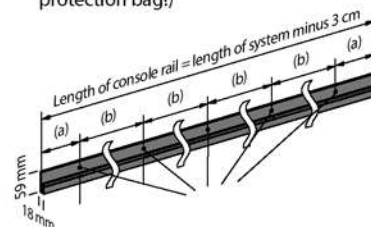
Number of wall consoles:

Number of consoles delivered as standard			Number of Consoles
From	To	Width of system	
200 cm	230 cm		3 pcs.
231 cm	330 cm		4 pcs.
331 cm	430 cm		5 pcs.
431 cm	530 cm		6 pcs.
531 cm	600 cm		7 pcs.

Alternative to wall consoles:

Console rail

(N.B.: Not compatible with winter protection bag!)

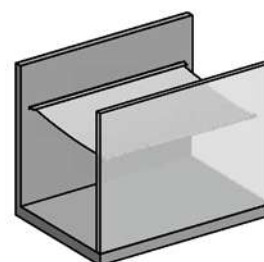


Please note:

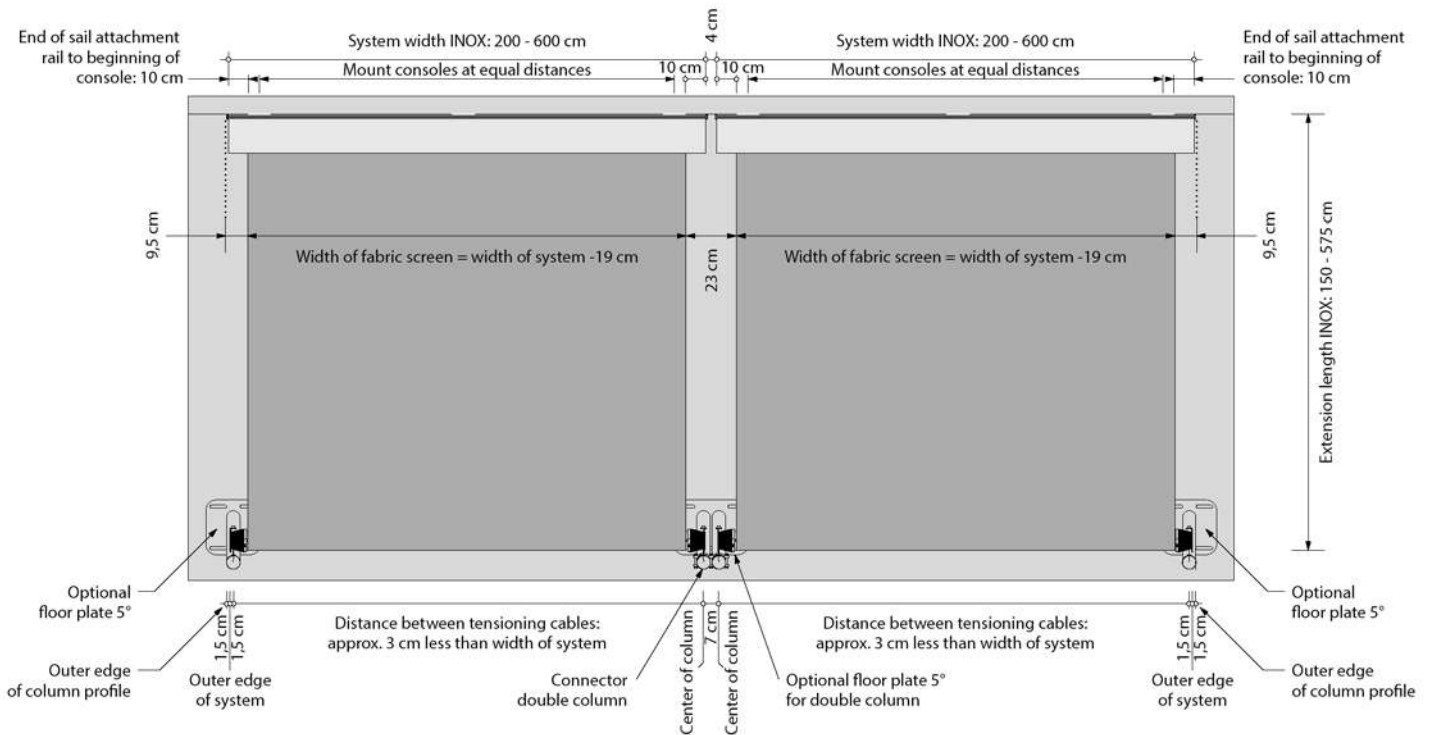
- The outer-most installation holes at either end should be closer than 20 cm to the edge of the system
- The internal distances between the installation holes should be no greater than 100 cm

Example of installation:

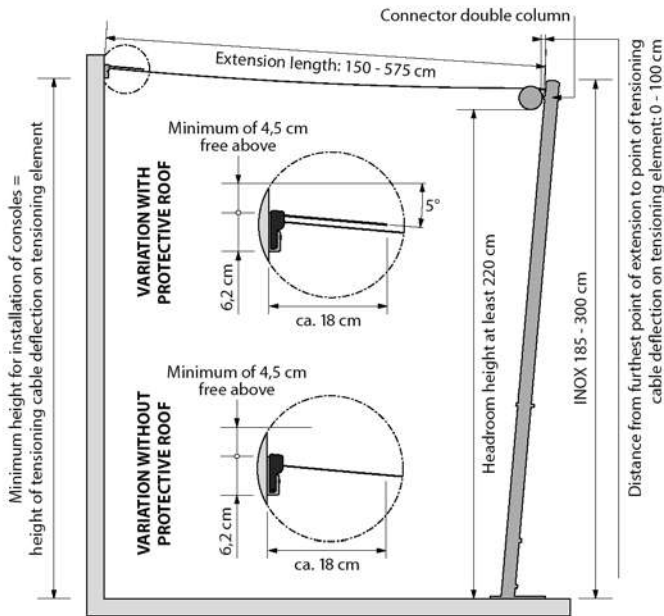
(For more examples of installation, see page 18 onwards)



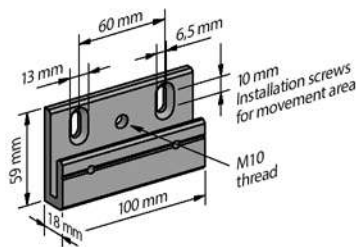
View from above:



Side view:



Measurements for wall consoles:



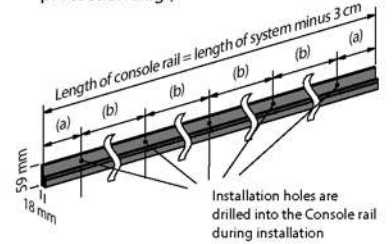
Number of wall consoles:

Number of consoles delivered as standard		
Width of system		Number of Consoles
From	To	
200 cm	- 230 cm	3 pcs.
231 cm	- 330 cm	4 pcs.
331 cm	- 430 cm	5 pcs.
431 cm	- 530 cm	6 pcs.
531 cm	- 600 cm	7 pcs.

Alternative to wall consoles:

Console rail

(N.B.: Not compatible with winter protection bag!)

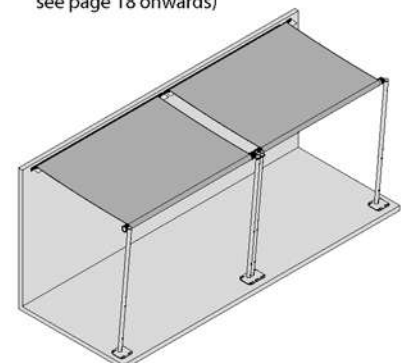


Please note:

- (a) The outer-most installation holes at either end should be closer than 20 cm to the edge of the system
- (b) The internal distances between the installation holes should be no greater than 100 cm

Example of installation:

(For more examples of installation, see page 18 onwards)



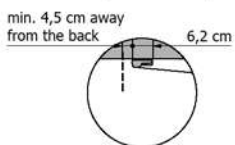
Important informations:

- A winter protection bag cannot be used for the variation with protective roof
- In cases where the distance between furthest extension point and point of tensioning cable deflection on tensioning element is greater than 100cm, please contact the manufacturer in order to discuss the headroom height, system moveability and the increased wear and tear on tensioning cable.

Twister-Sail:

- At gradients of 0 % to 40 % (0° to 22°)
- Water drains off automatically from a gradient of approx. 14 % (8°)

Alternative: Installation on ceiling
(Can only be implemented without protective roof)

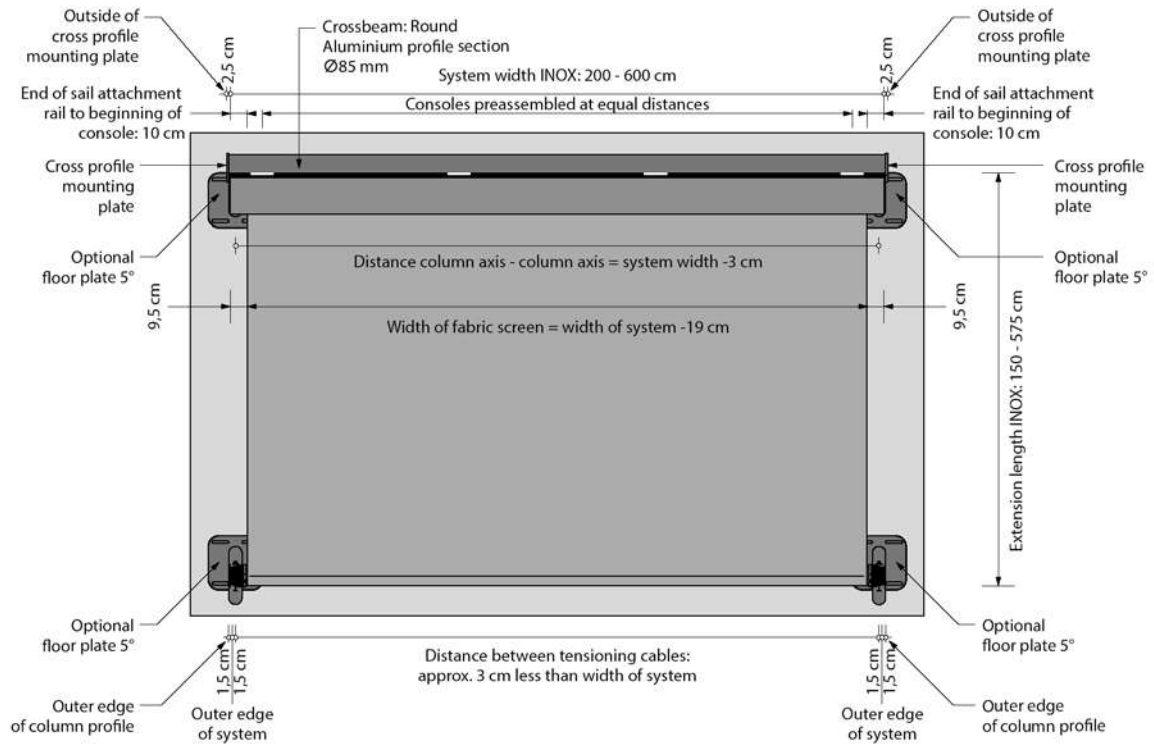




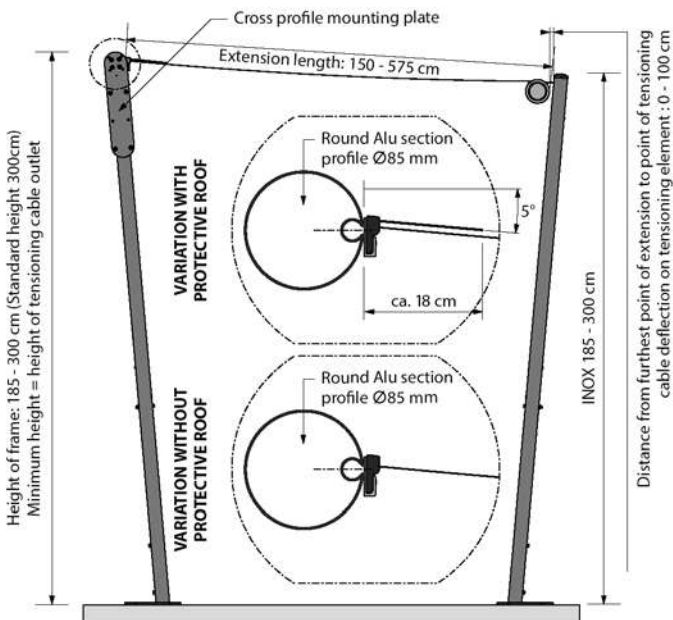
All measurements given in millimetres unless otherwise stated

MEASUREMENTS FOR MODULAR SYSTEM | SHADEONE® FRAME

View from above:



Side view:



Important informations:

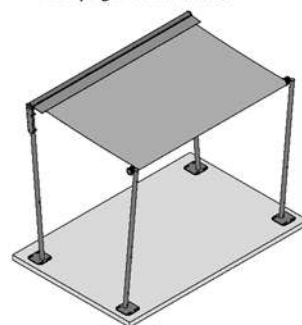
- A winter protection bag cannot be used for the variation with protective roof
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Twister-Sail:

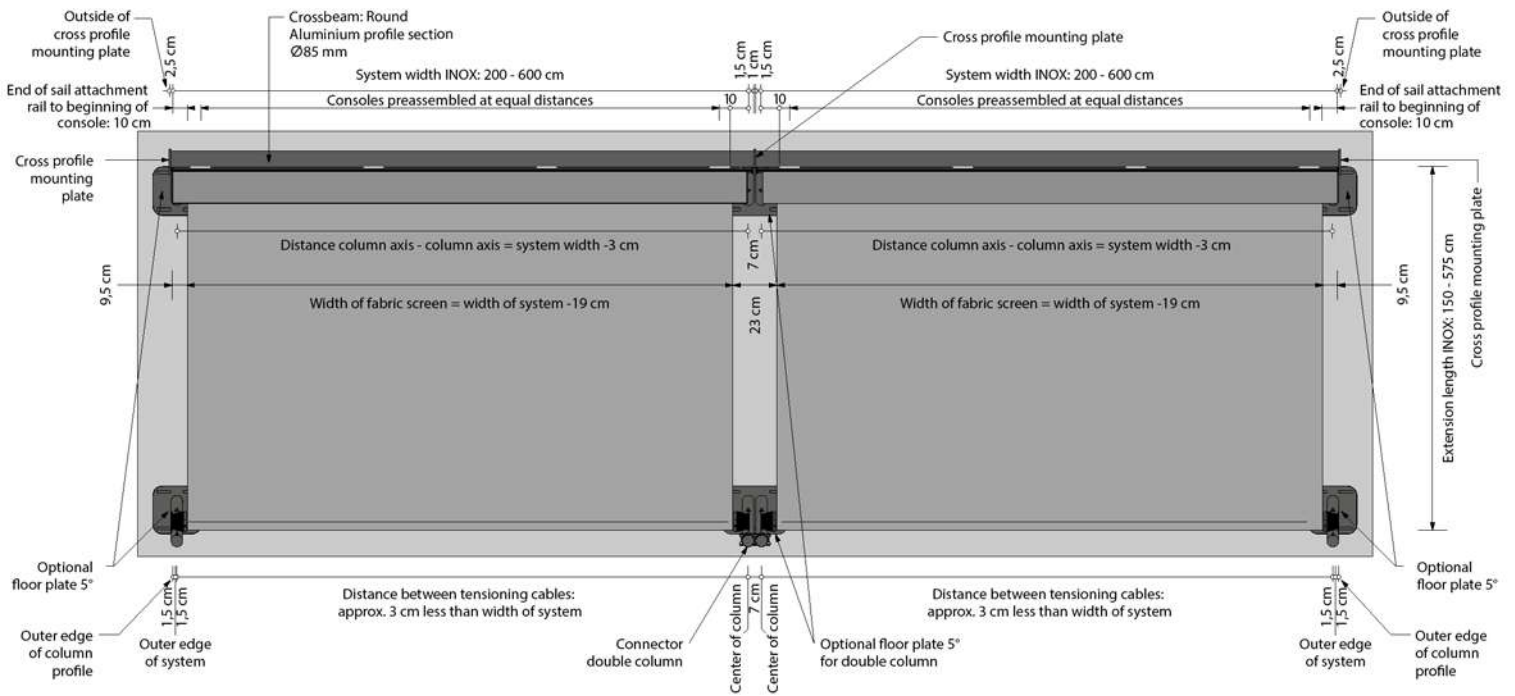
- At gradients of 0 % to 40 % (0° to 22°)
- Water drains off automatically from a gradient of approx. 14 % (8°)

Example of installation:

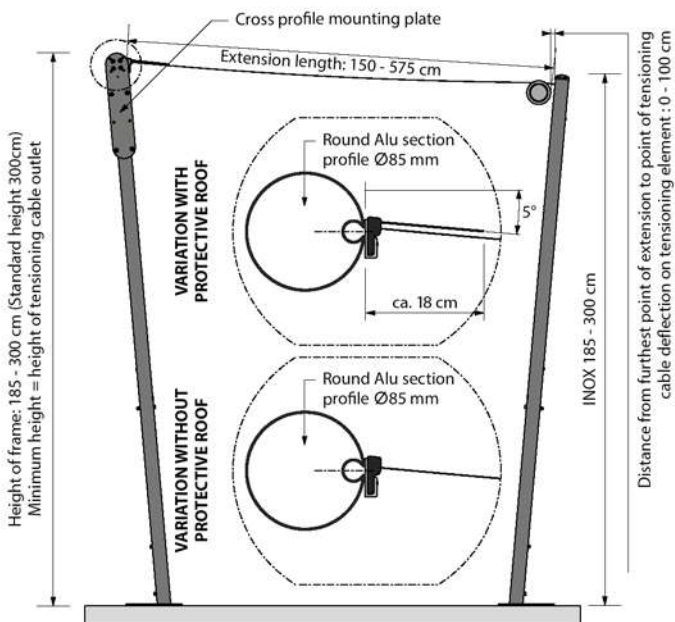
(For more examples of installation, see page 18 onwards)



View from above:



Side view:



Important informations:

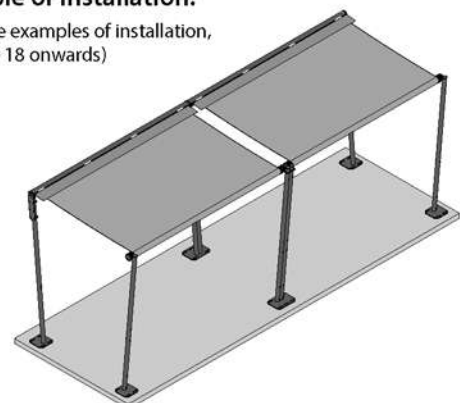
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- In cases where the distance between furthest extension point and point of tensioning cable deflection on tensioning element is greater than 100cm, please contact the manufacturer in order to discuss the headroom height, system moveability and the increased wear and tear on tensioning cable.

Twister-Sail:

- At gradients of 0 % to 40 % (0° to 22°)
- Water drains off automatically from a gradient of approx. 14 % (8°)

Example of installation:

(For more examples of installation, see page 18 onwards)

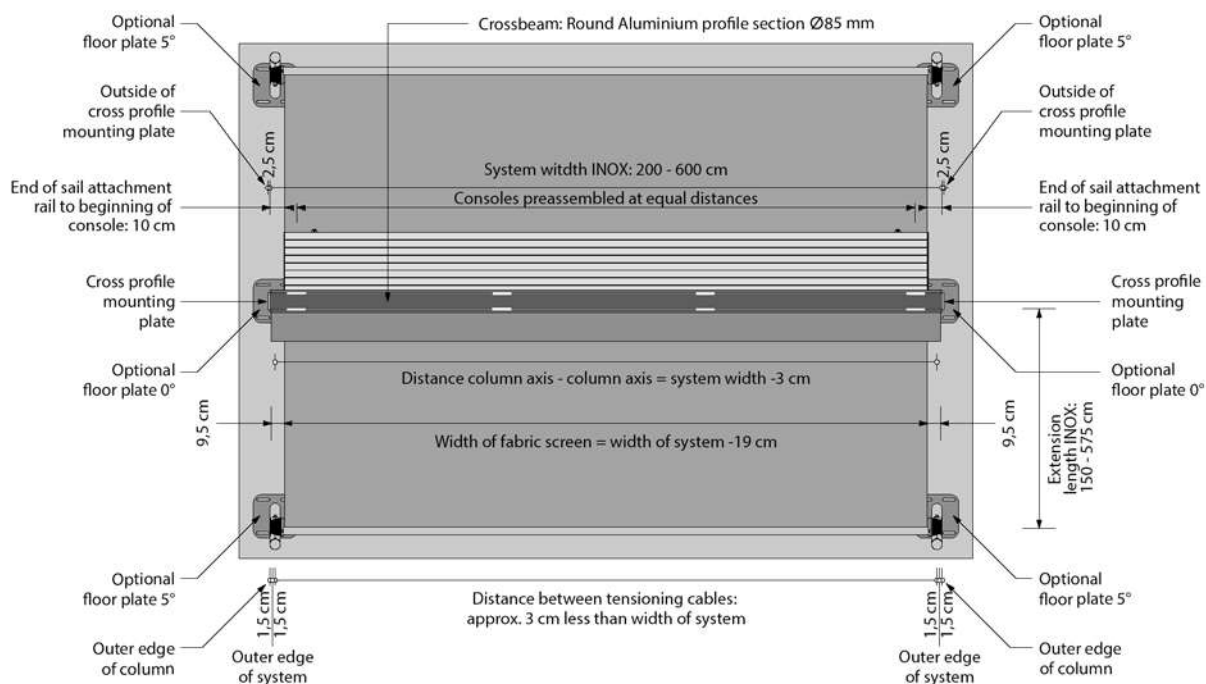




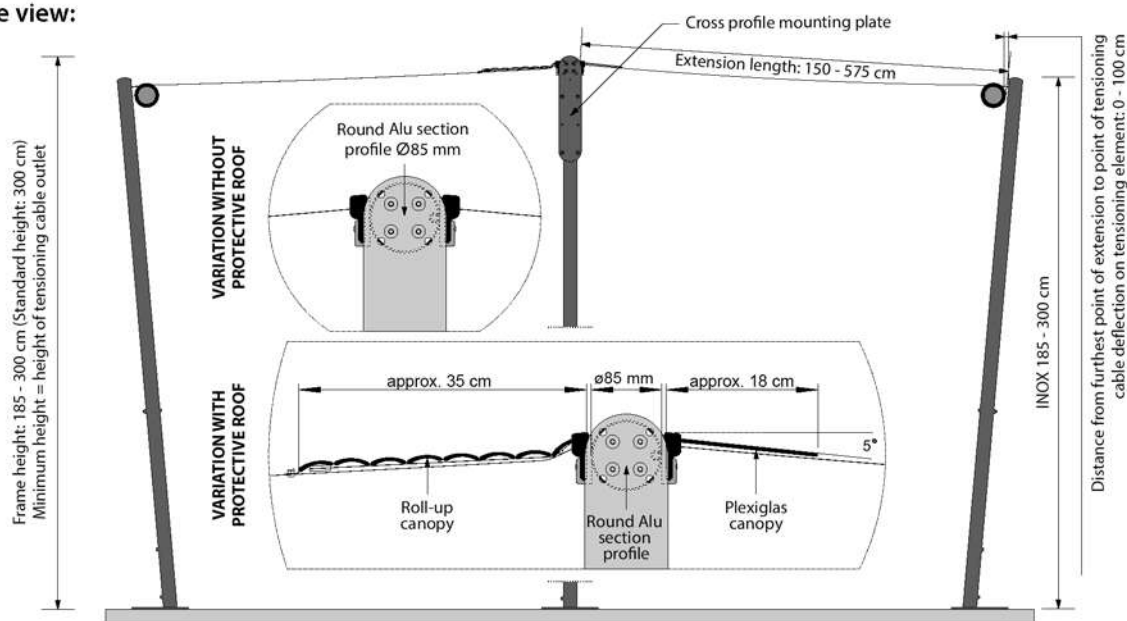
All measurements given in millimetres unless otherwise stated

MEASUREMENTS FOR MODULAR SYSTEM | SHADEONE® TWIN

View from above:



Side view:



Important informations:

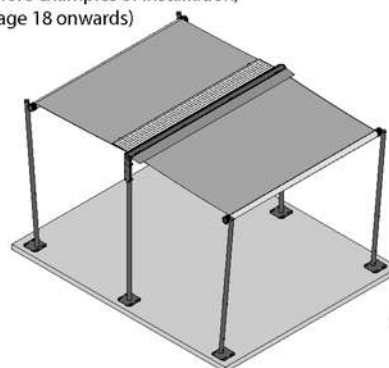
- A winter protection bag cannot be used for the variation with protective roof
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Twister-Sail:

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- Water drains off automatically from a gradient of approx. 14 % (8°)

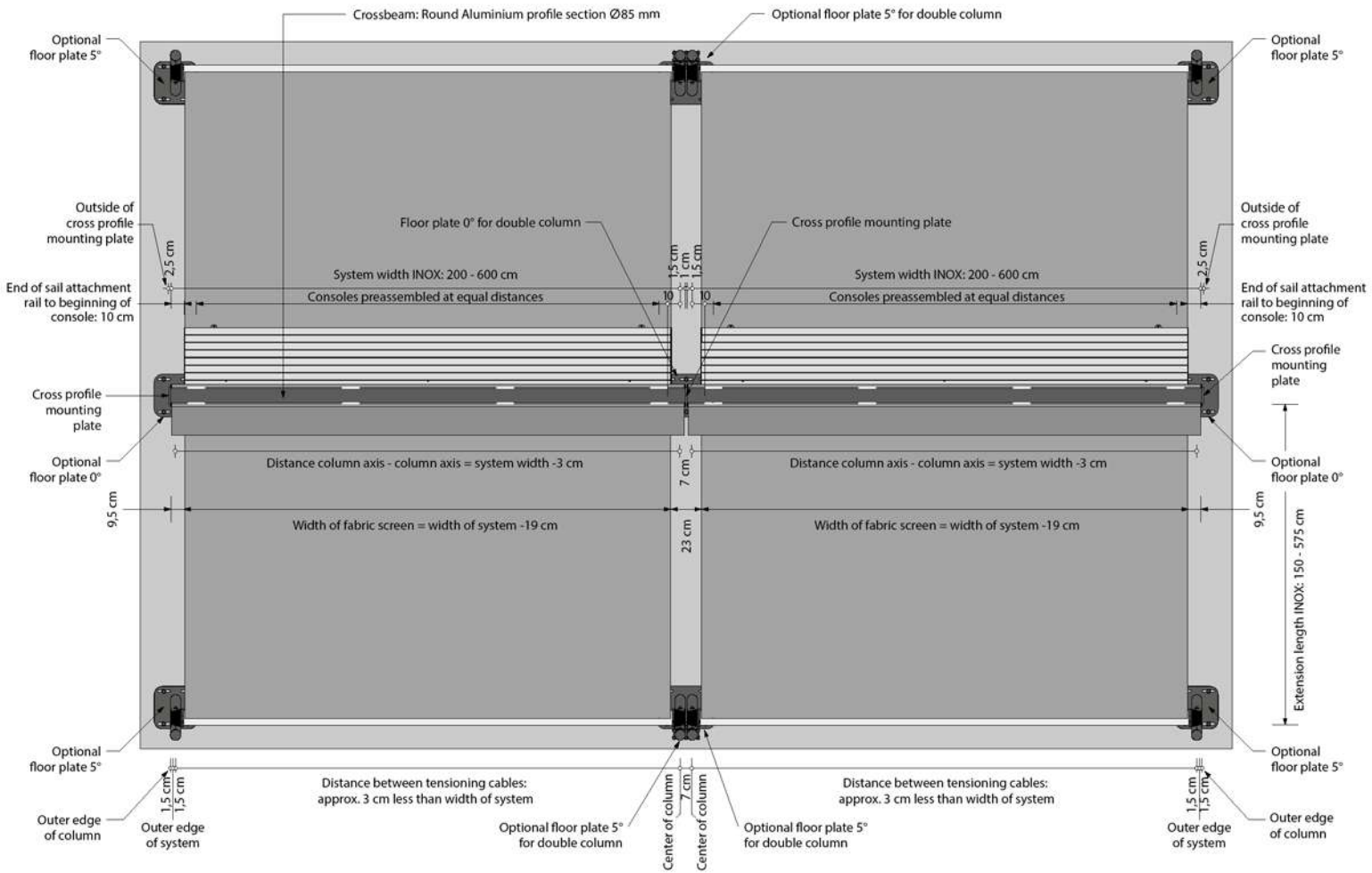
Example of installation:

(For more examples of installation, see page 18 onwards)

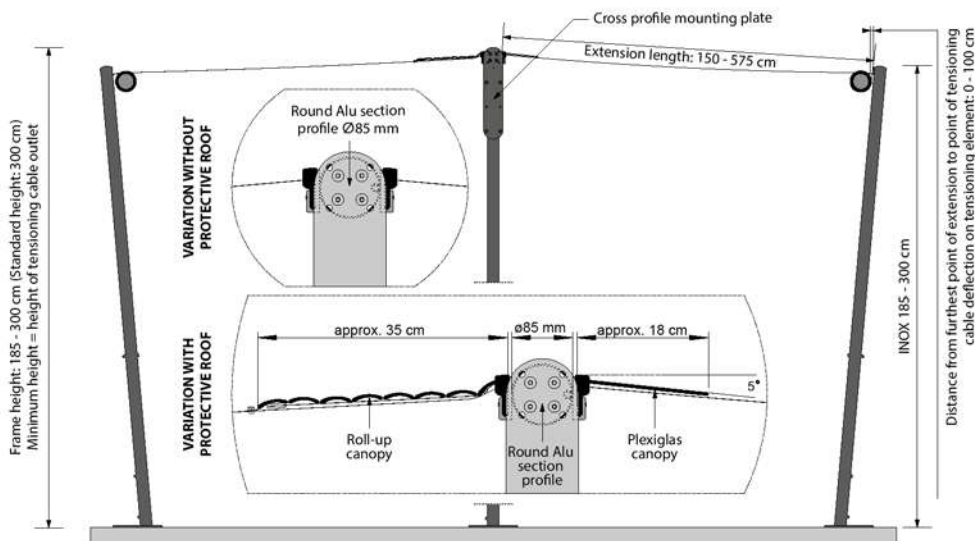


MEASUREMENTS FOR MODULAR SYSTEM | SHADEONE® MULTITWIN

View from above:



Side view:



Important informations:

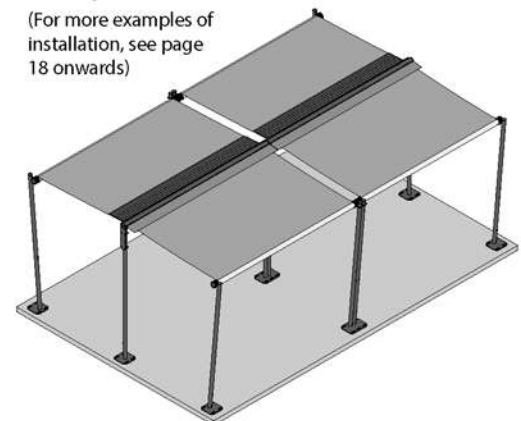
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Twister-Sail:

- At gradients of 0 % to 40 % (0° to 22°)
- Water drains off automatically from a gradient of approx. 14 % (8°)

Example of installation:

(For more examples of installation, see page 18 onwards)

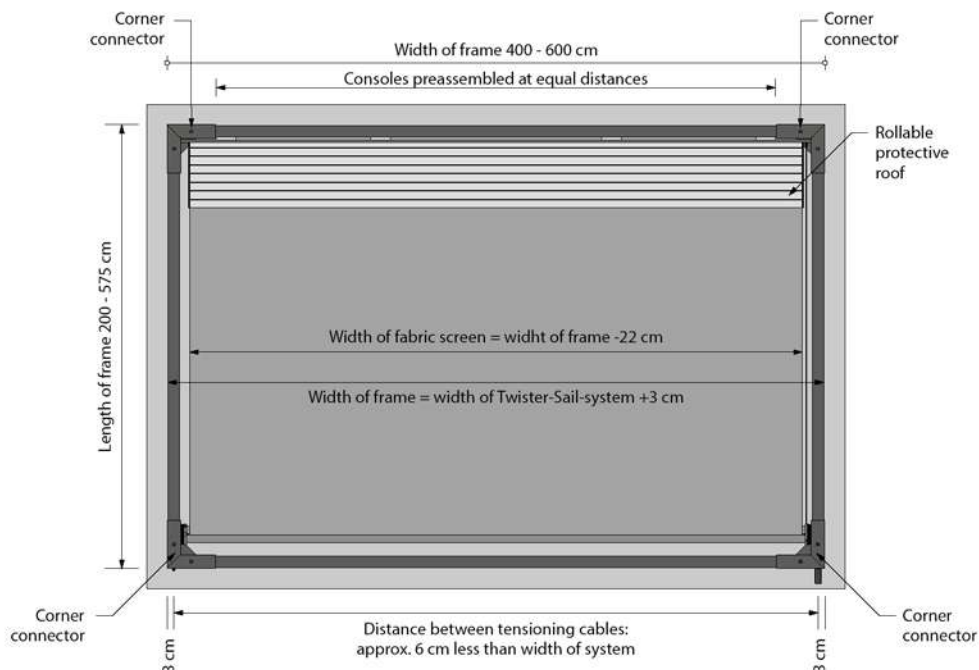




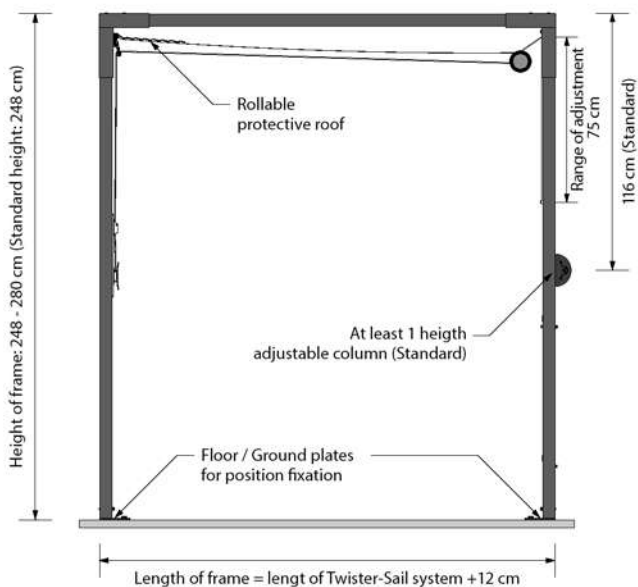
All measurements given in millimetres unless otherwise stated

MEASUREMENTS FOR SHADEONE® CUBE

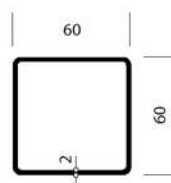
View from above:



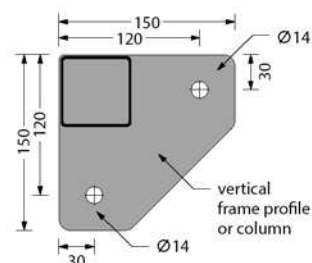
Side view:



Frame profile (Brushed stainless steel):

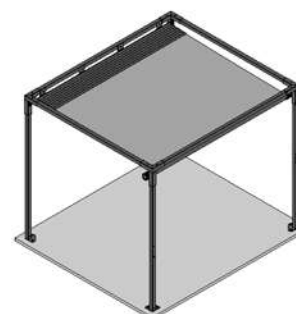


Ground fixation plate:



Example of installation:

(For more examples of installation, see page 18 onwards)



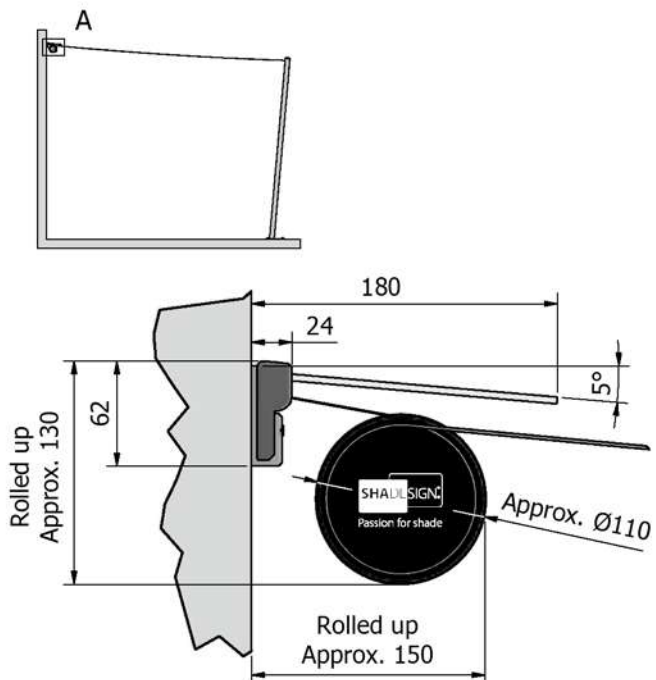
Important informations:

- The tensile forces occurring at the individual columns and ground fixation plates depend on the size of the system and wind load design and can be inquired by the manufacturer.
Example: for a CUBE-system with a width and extension of 6m x 5,75m and a wind load design for wind class 3 (=wind force 6 respectively wind velocity max. 49km/h), a minimum of 850N tensile force per column and ground fixation plate is to be expected!
- Each of the four columns / ground fixation plates must be properly connected to the ground. (Fixation of the column position + protection against wind abreaction).
- The type of connection must be selected to match the ground and the expected tensile load.

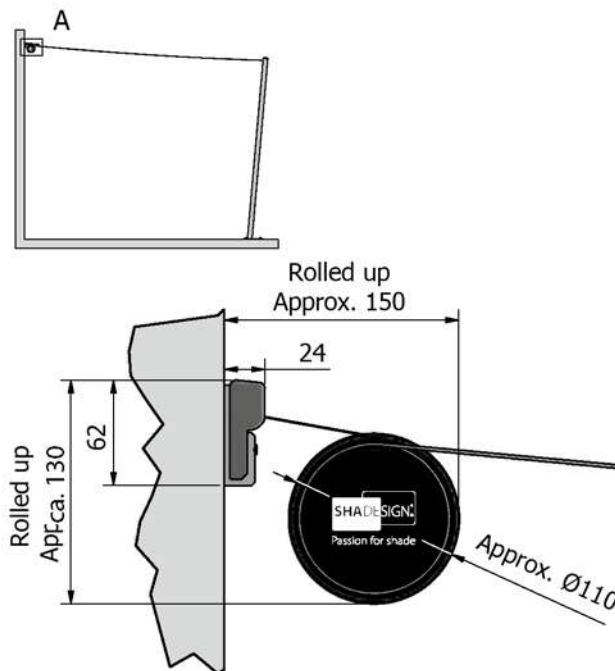
MEASUREMENTS FOR **SHADEONE®** WHEN ROLLED UP

Detailed perspective A:
wall installation with protective roof
(acrylic glass)

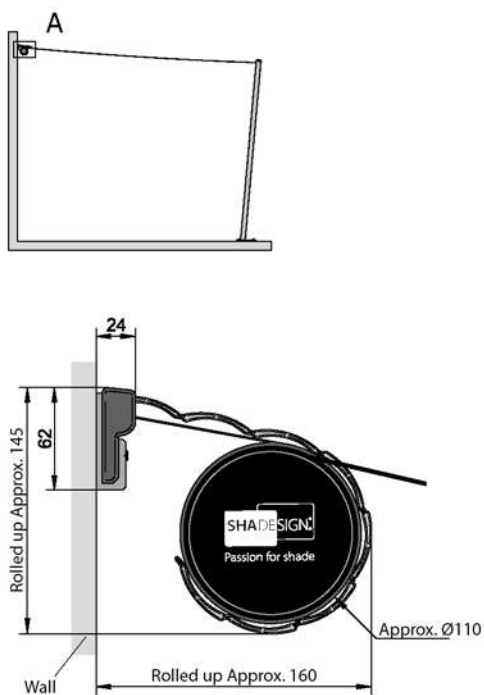
N.B.: A winter protection bag cannot be used for the variation with protective roof



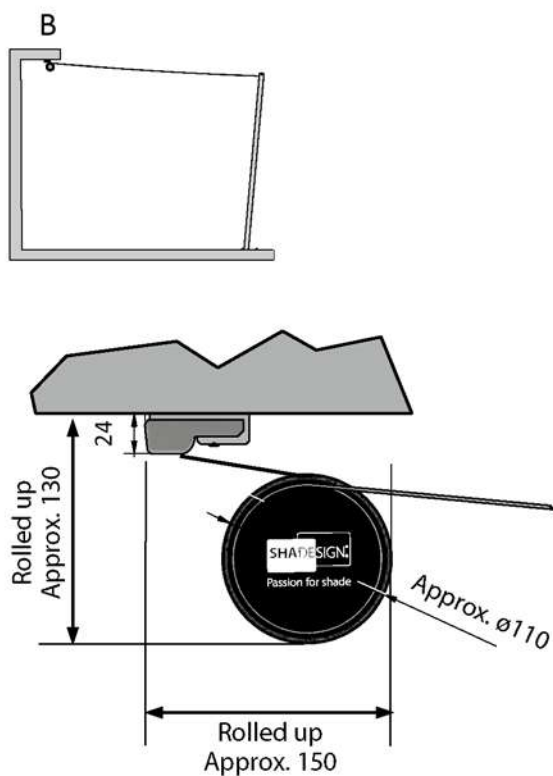
Detailed perspective A:
wall installation without protective roof



Detailed perspective A:
wann installation with rollable protective roof



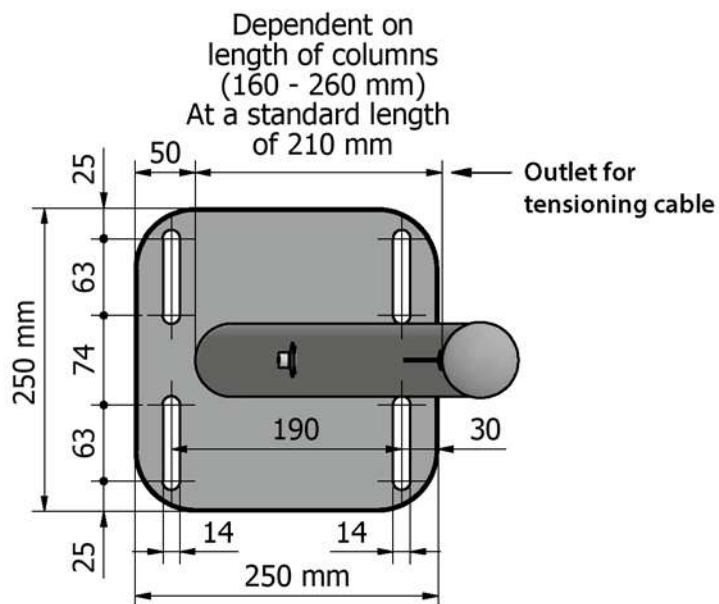
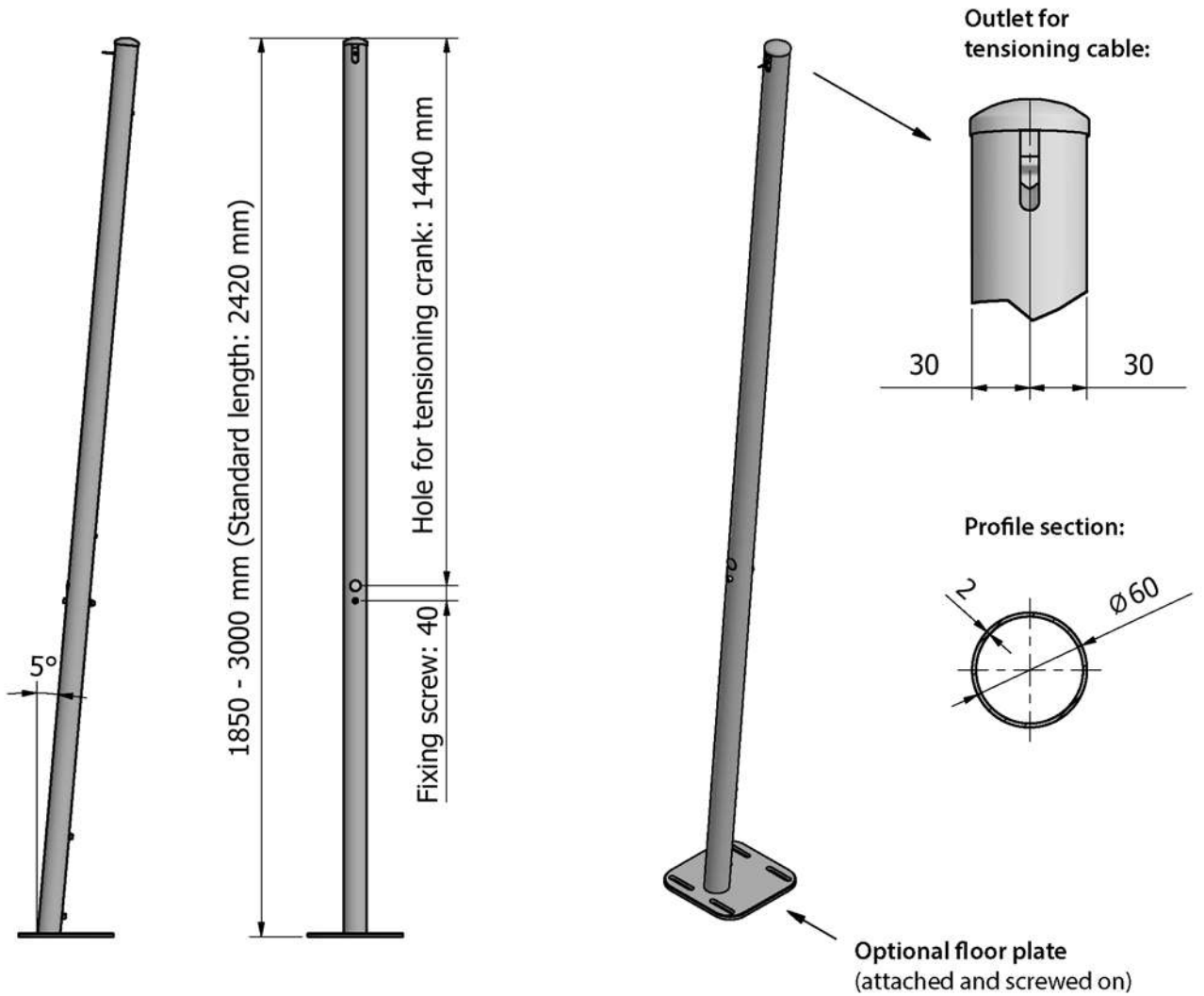
Detailed perspective B:
installation on ceiling without protective roof



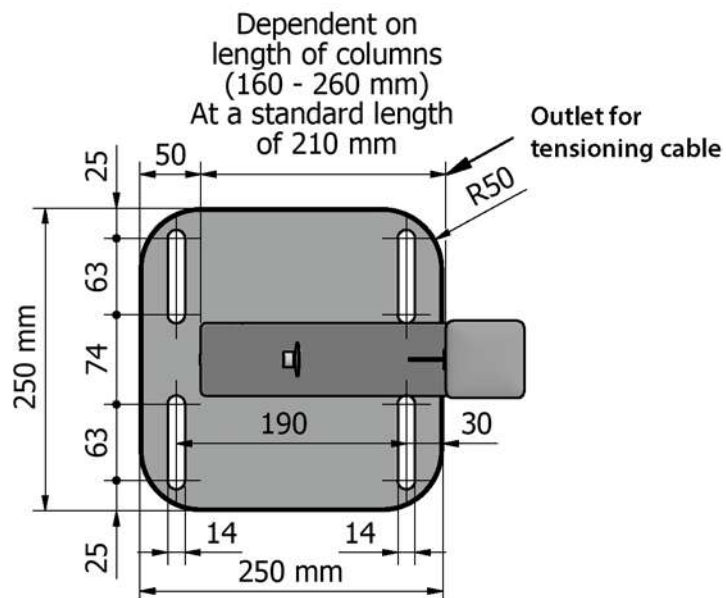
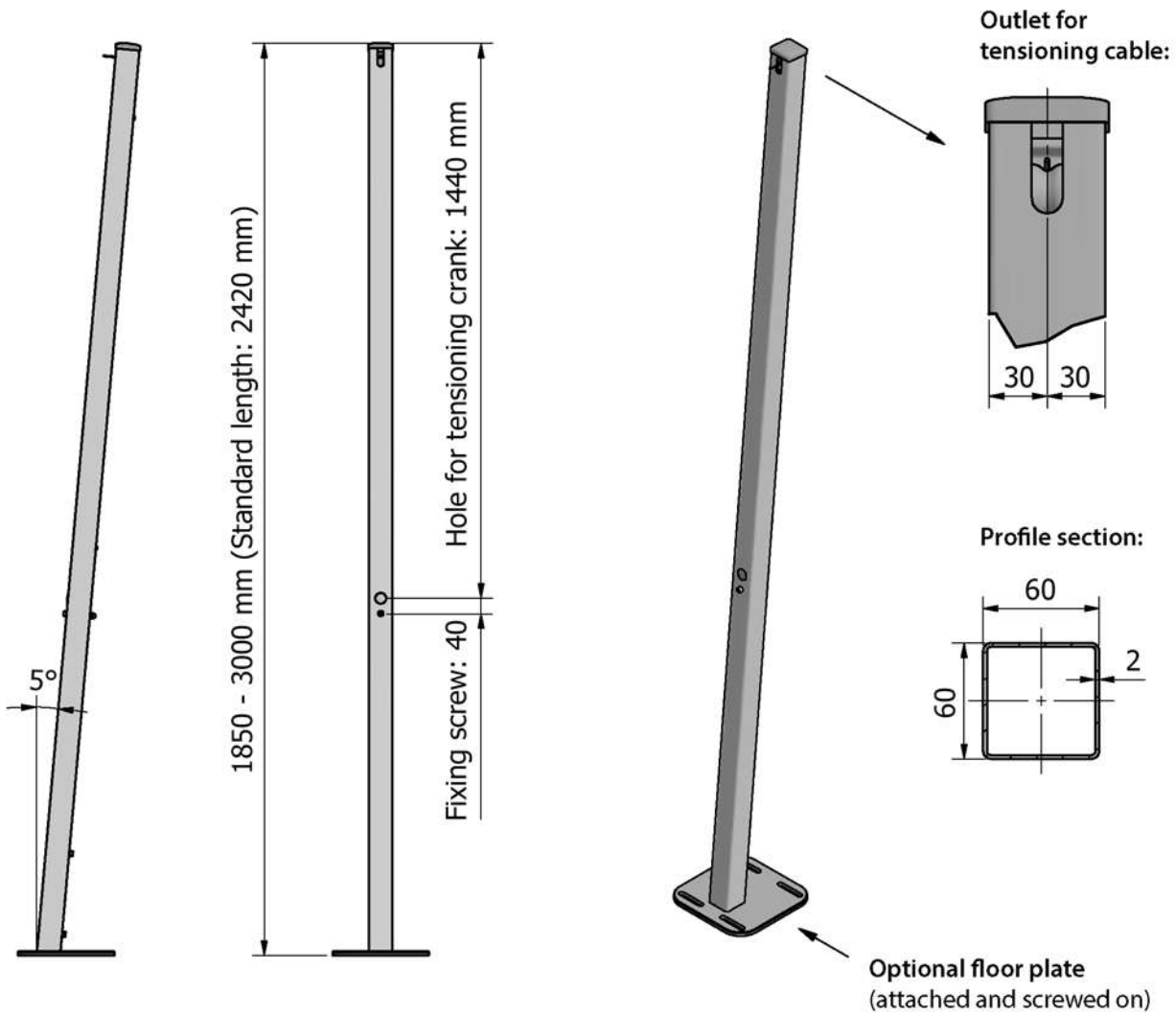


All measurements given in millimetres unless otherwise stated

MEASUREMENTS FOR SHADEONE® INOX WITH ROUND STAINLESS STEEL COLUMNS



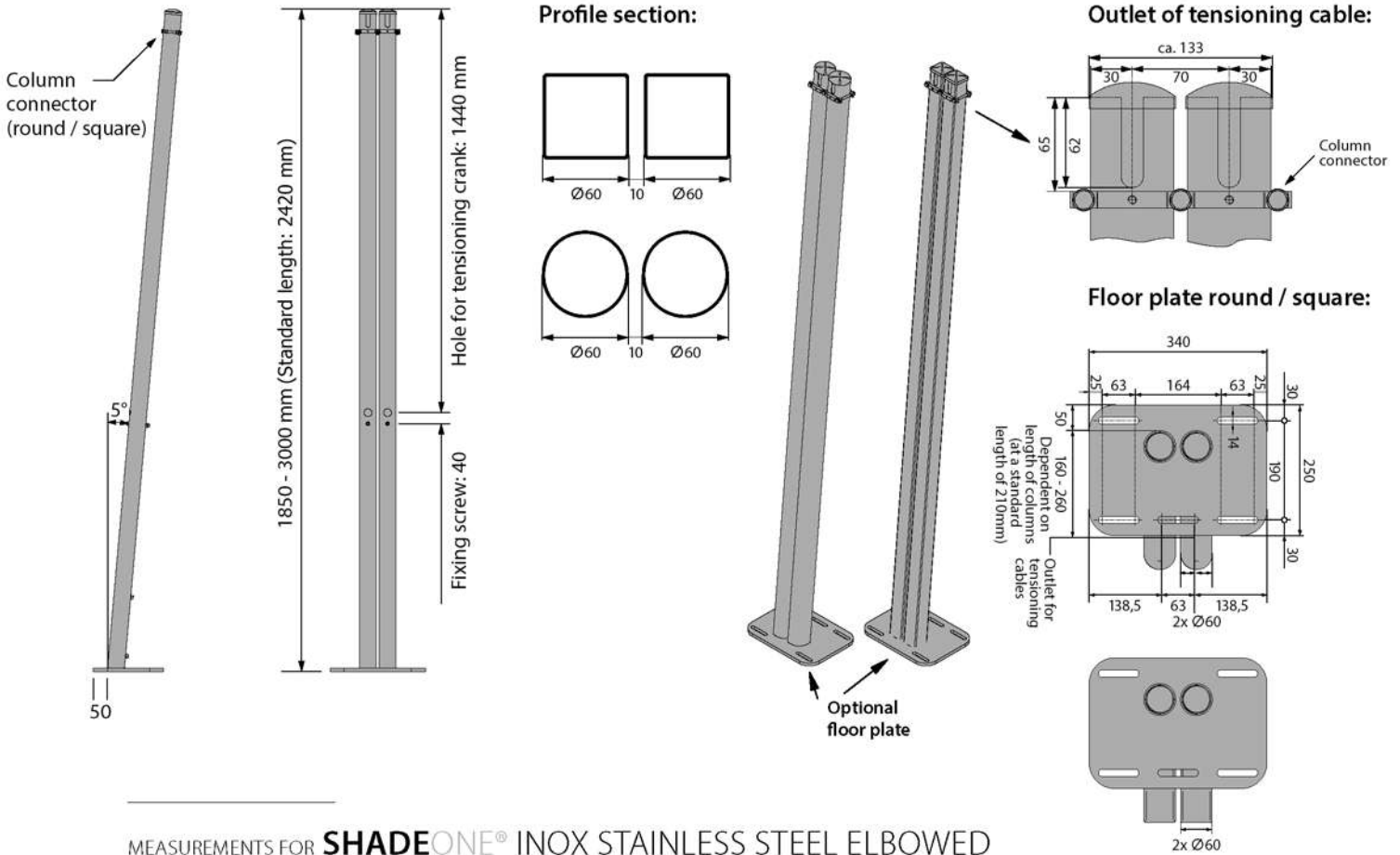
MEASUREMENTS FOR **SHADEONE® INOX**
WITH SQUARE STAINLESS STEEL COLUMNS



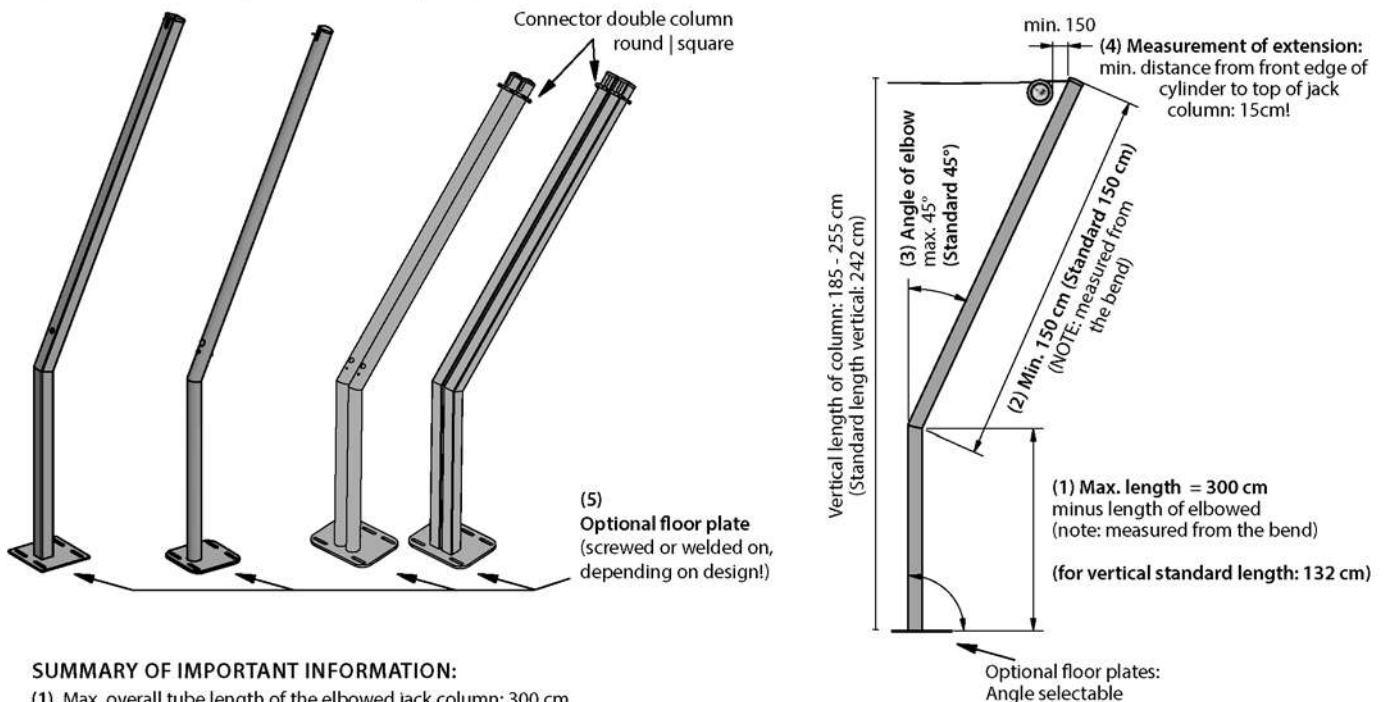


All measurements given in millimetres unless otherwise stated

MEASUREMENTS FOR SHADEONE® INOX WITH SQUARE STAINLESS STEEL COLUMNS (DOUBLE DESIGN) ROUND / SQUARE



MEASUREMENTS FOR SHADEONE® INOX STAINLESS STEEL ELBOWED (SINGLE ROUND OR SQUARE / DOUBLE SQUARE)

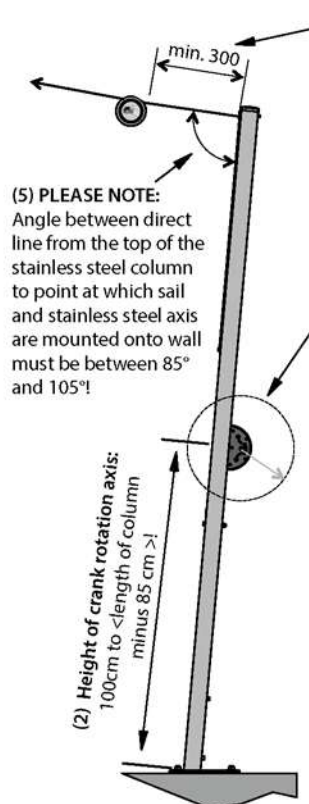
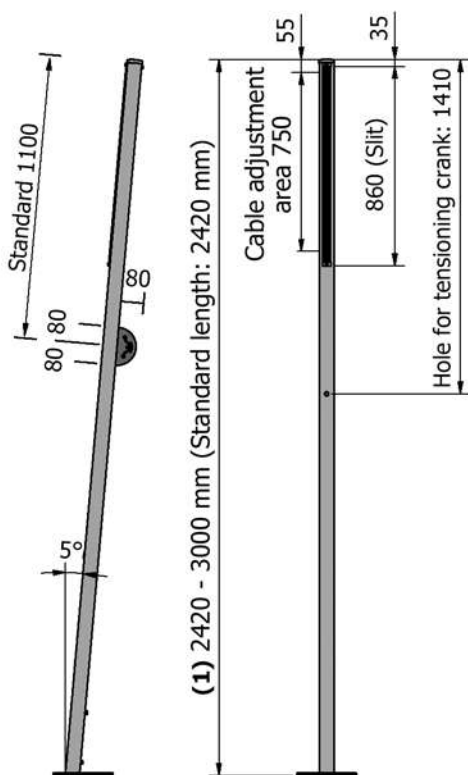
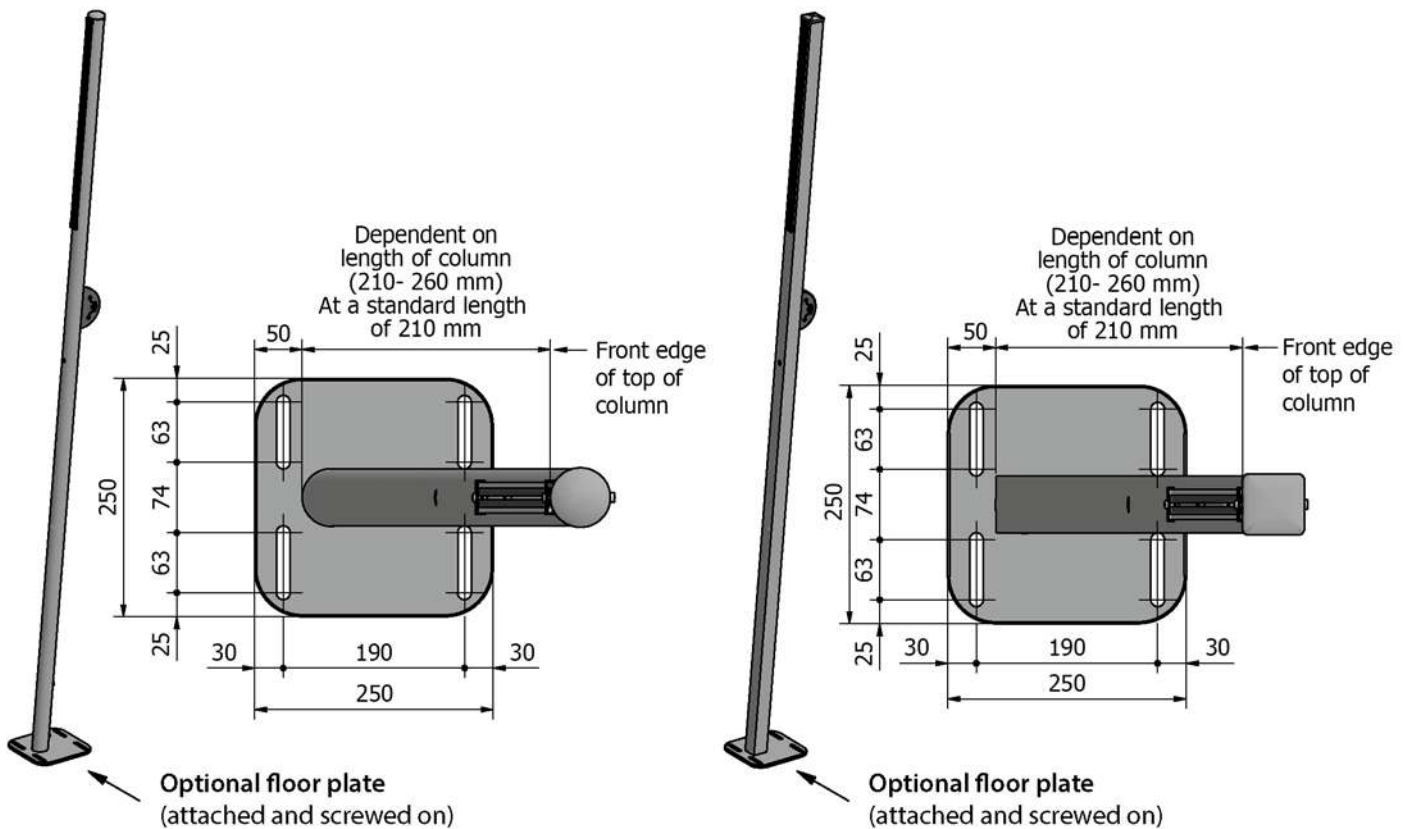


SUMMARY OF IMPORTANT INFORMATION:

- (1) Max. overall tube length of the elbowed jack column: 300 cm
- (2) Elbowed length must be no less than 150 cm from the top to the bend (Standard 150 cm)
- (3) The angle of the elbow bend must be between 0° and 45° (Standard 45°)
- (4) Measurement of extension: distance from front edge of cylinder to top of jack column: at least 15 cm!
- (5) Optional floor plates:

• Single column (round or square) & double column (round or square): if the angle between floor plate and jack column axis is 85°, the floor plate is screwed on; otherwise it is welded on

MEASUREMENTS FOR **SHADEONE®** INOX STAINLESS STEEL COLUMN
75 CM HEIGHT ADJUSTABLE (ROUND / SQUARE)



(4) PLEASE NOTE:
Positioning of height adjustable (and the second associated tension element): minimum distance from front edge of completely extended sail to tip of stainless steel column: min. 30 cm!

(3) PLEASE NOTE:
Crank rotation axis: a radius of 25cm around the crank rotation axis is needed in order to adjust the height. No objects should be placed in its way.

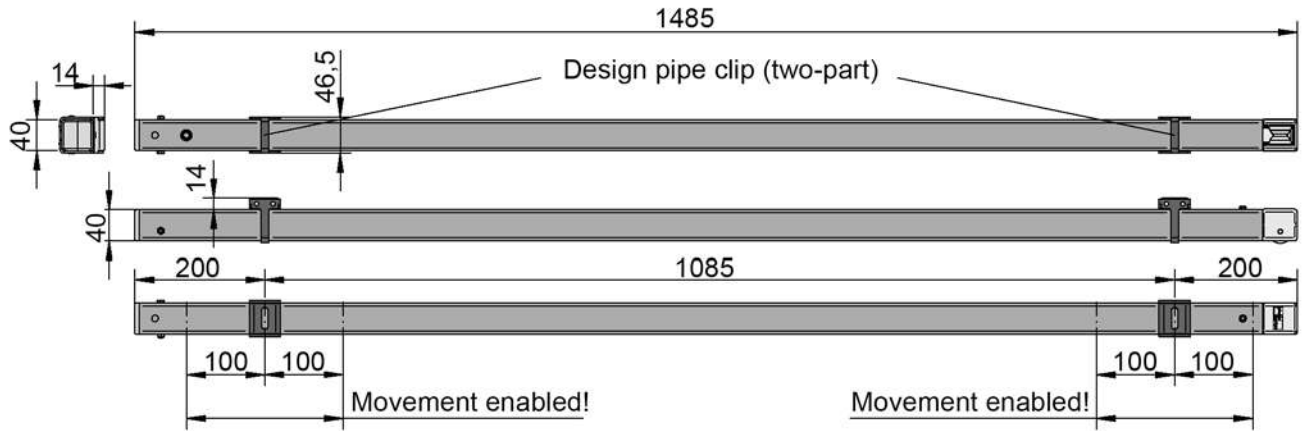
SUMMARY OF IMPORTANT INFORMATION:

- (1) Total length of jack column: min. 242 cm, max. 300 cm
- (2) Height of crank rotation axis: 100 cm to < length of column minus 85 cm >! (Example: with a jack column length of 300 cm, the crank rotation axis would be at a height of 100 to 215 cm. Standard: 110 cm distance from tip of stainless steel column)
- (3) Crank rotation axis: a radius of 25cm around the crank rotation axis is needed in order to adjust the height. No objects should be placed in its way (determine height of crank rotation axis accordingly!).
- (4) Positioning of stainless steel column: minimum distance from front edge of completely extended sail to tip of stainless steel column: min. 30cm!
- (5) Angle between direct line from the top of the stainless steel column to point at which sail and stainless steel axis are mounted onto wall must be between 85° and 105°! (Example: if stainless steel column is vertical, the maximum gradient of the sail can be 15°)



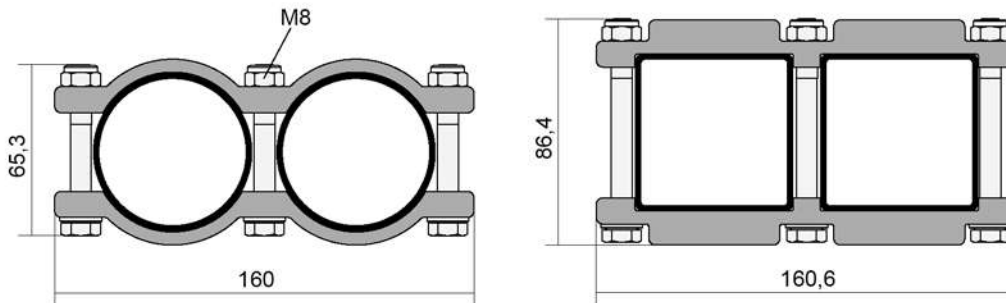
All measurements given in millimetres unless otherwise stated

MEASUREMENTS FOR **SHADEONE®** STRUCTURE TENSIONING ELEMENT INCLUDING 2 DESIGN PIPE CLIPS (TWO-PART)

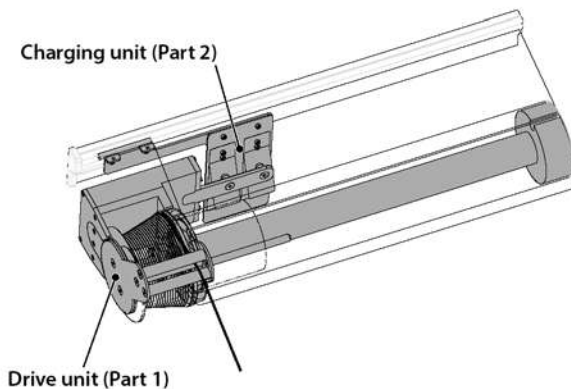


MEASUREMENTS DESIGN PIPE CLIP (TWO-PART) SEE INSTALLATION ACCESSORIES STRUCTURE ON PAGE 17

MEASUREMENTS FOR **SHADEONE®** COLUMN CONNECTOR FOR DOUBLE COLUMN (ROUND | SQUARE) MODULAR SYSTEM MULTI



SHADEONE® MOTOR DRIVE



DRIVE UNIT:

12 volt engine, charging electronics, battery pack, drive shaft, connection to charging unit

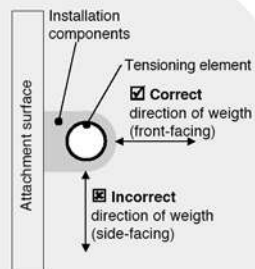
CHARGING UNIT:

Connected to sail connection rail, charging contact plate, plug for power supply AC/DC respectively solar panel

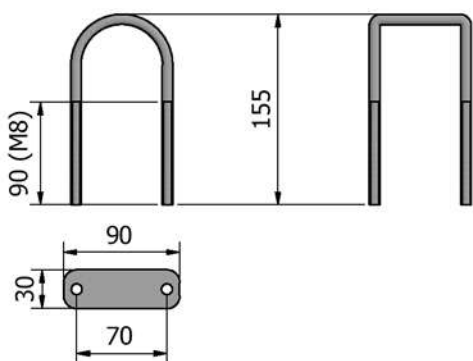
INSTALLATION ACCESSORIES FOR **SHADEONE® INOX**

Important information:

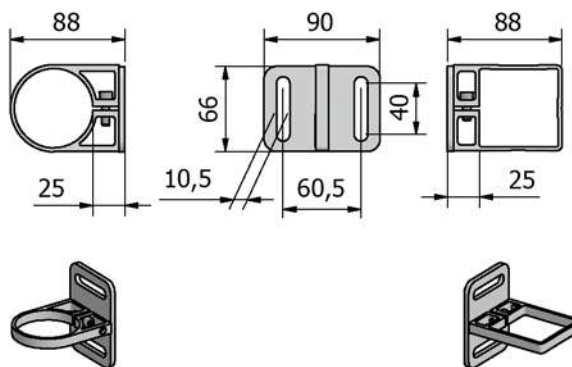
- Installation components should only carry weight in a front-facing direction (see diagram on the right)
- Minimum distance between two installation components on one tensioning element: 60 cm



SINGLE COLUMN | CLAMPING ELEMENTS:
COUNTER PLATES (A2) + U-BRACKETS (A2)

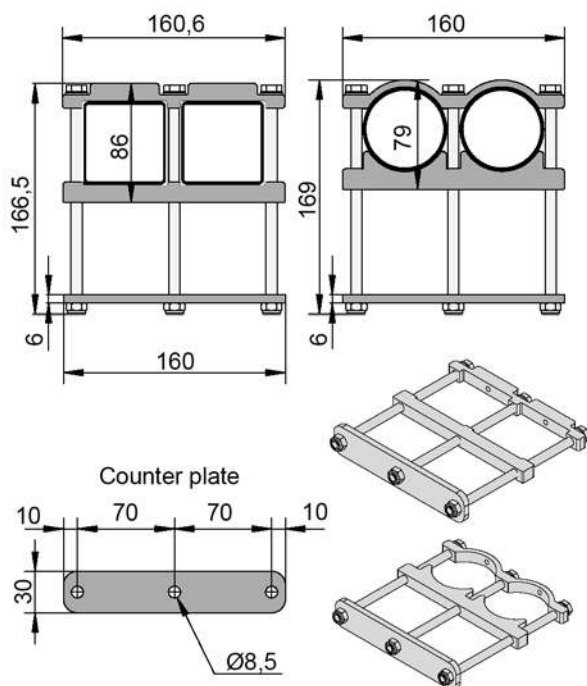


SINGLE COLUMN | SCREW-ON ELEMENTS:
DESIGN PIPE CLIP (A2)

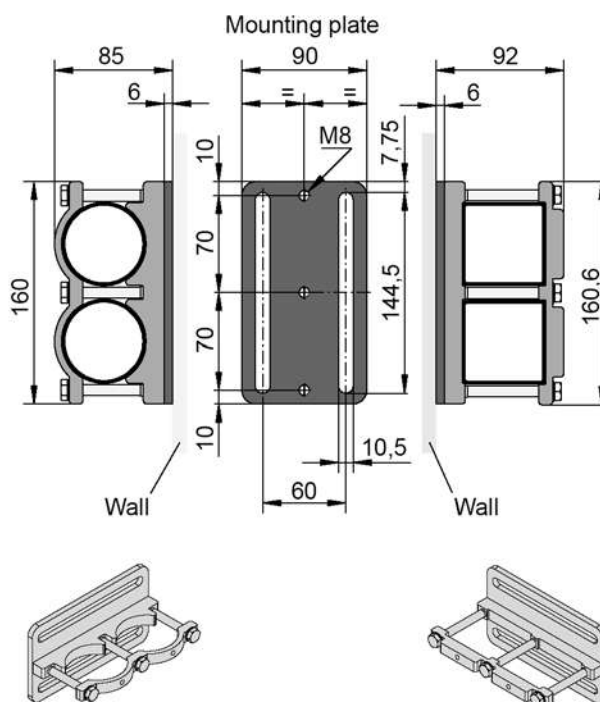


INTENDED TYPE OF MOUNTING SCREWS:
M10 - hex head screw + washer


DOUBLE COLUMN | CLAMPING ELEMENTS:
CLAMPING ELEMENTS (A2) + COUNTER PLATES (A2)



DOUBLE COLUMN | SCREW-ON ELEMENTS:
CLAMPING ELEMENTS (A2) + MOUNTING PLATE (A2)



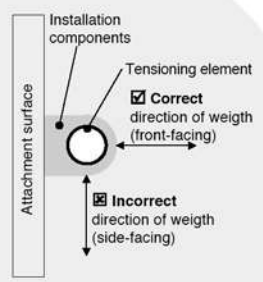
INTENDED TYPE OF MOUNTING SCREWS:
M10 - hex head screw + washer

 All measurements given in millimetres unless otherwise stated

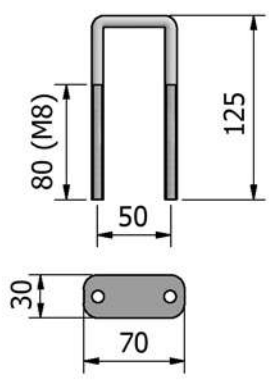
INSTALLATION ACCESSORIES FOR **SHADEONE®** STRUCTURE
(SPECIAL SOLUTIONS)

Important Information:

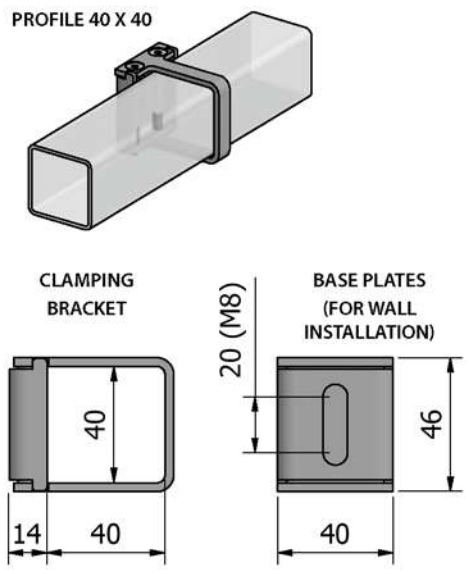
- Installation components should only carry weight in a front-facing direction (see diagram on the right)
- Minimum distance between two installation components on one tensioning element: 60 cm



COUNTER PLATES (A2) + U-BRACKETS (A2)

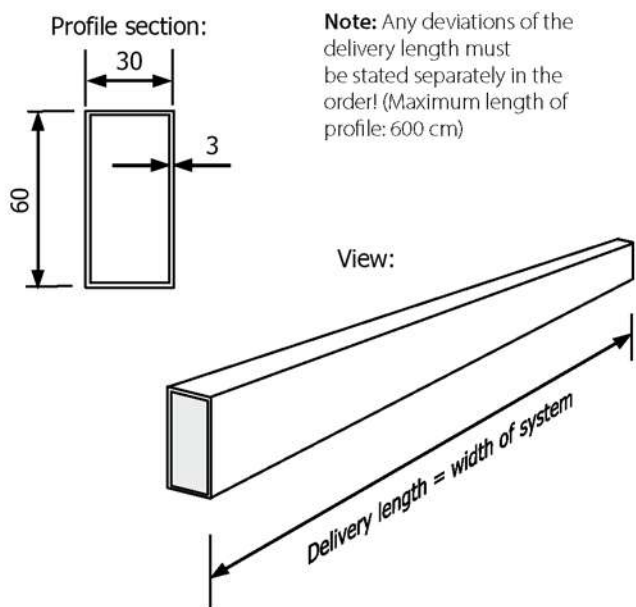


DESIGN PIPE CLIP (TWO-PART) (A2)

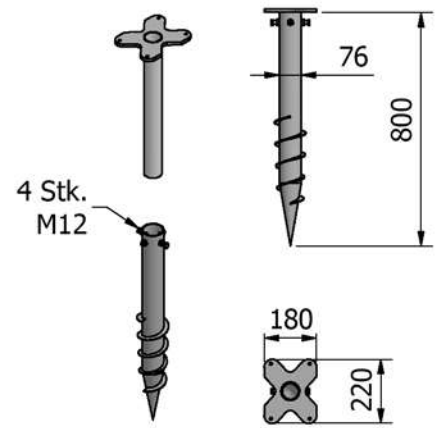


INTENDED TYPE OF MOUNTING SCREWS:
M8 - hex head screw + washer

UPGRADED INSULATION MOUNTING PROFILE (ALUMINIUM)



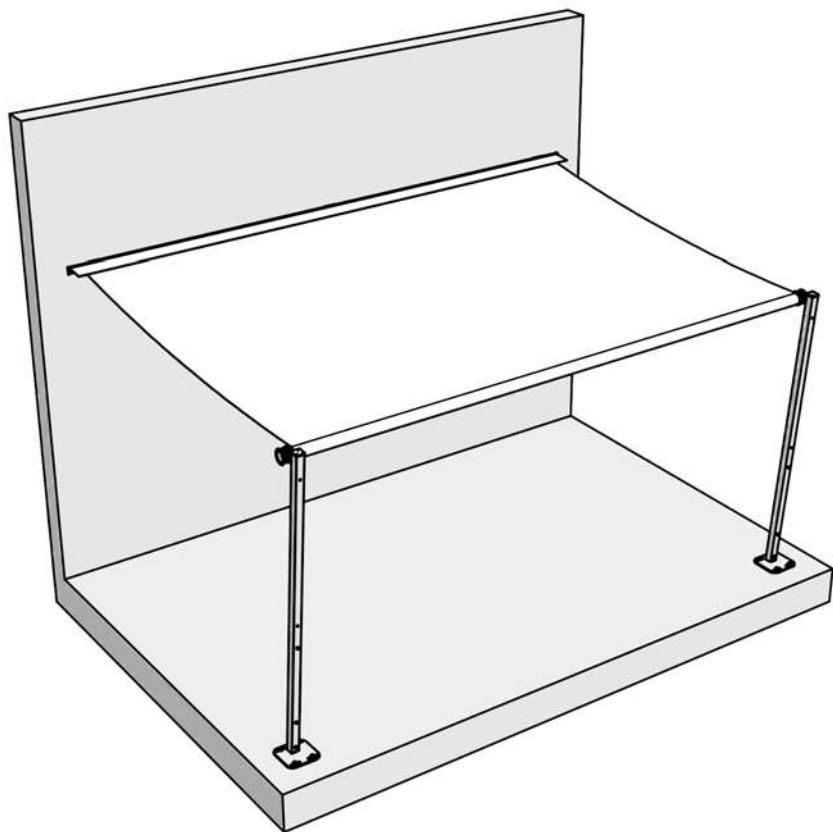
SCREW FOUNDATION (GALVANISED)
ADAPTER FOR FLOOR PLATE (GALVANISED)
25 X 25 CM – INOX



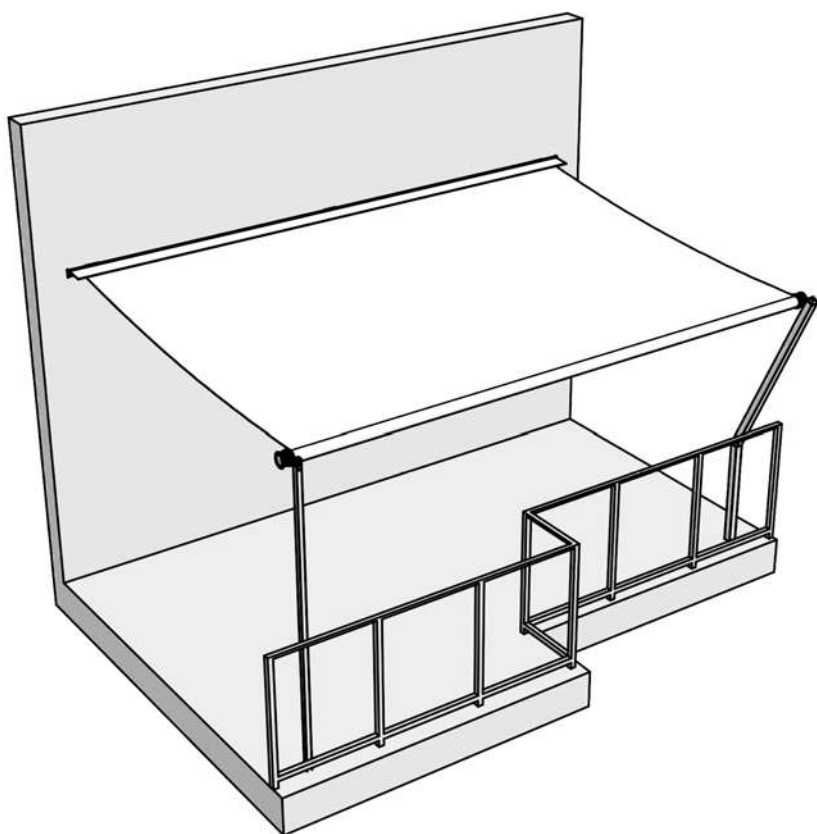
Note:

- Use screw foundations only for single columns and suitable ground (Otherwise there is a risk of foundation movement due to stress)
- Build a suitable concrete foundation in all other cases!

SHADEONE® VARIATIONS FOR INSTALLATION

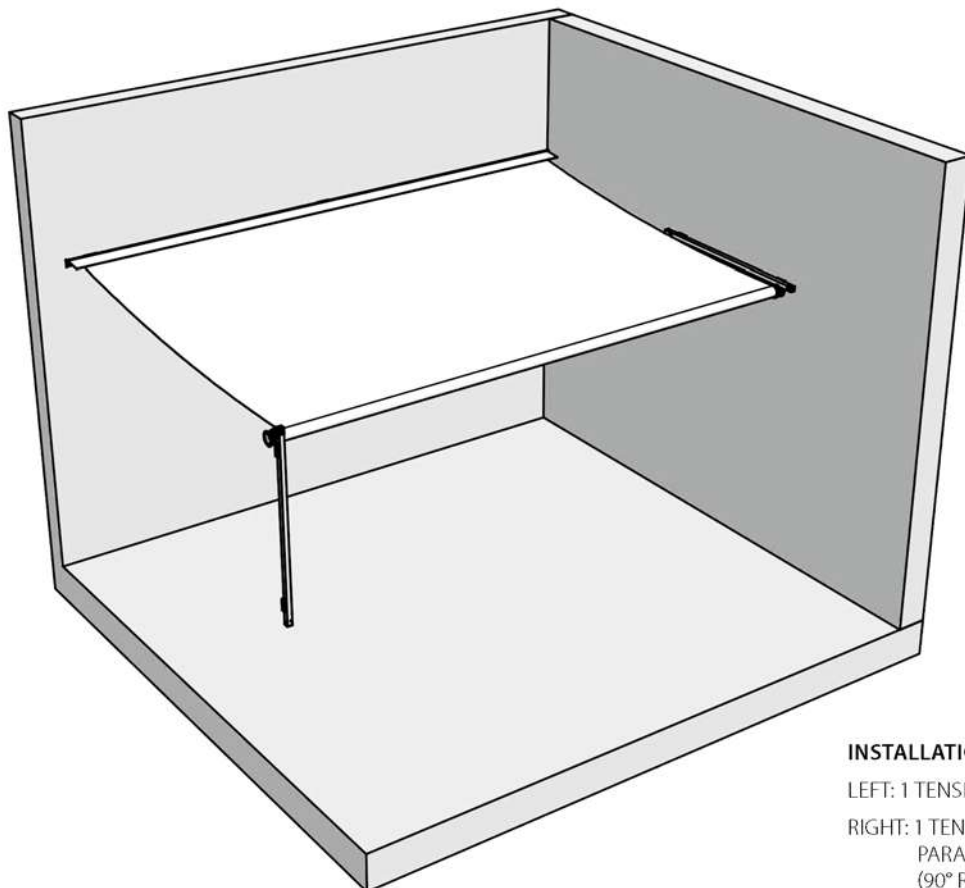


INSTALLATION WITH 2 COLUMNS
(INOX)



INSTALLATION ONTO RAILINGS
WITH 2 COLUMNS
LEFT: 1X STRAIGHT (INOX)
RIGHT: 1X ELBOWED (INOX)

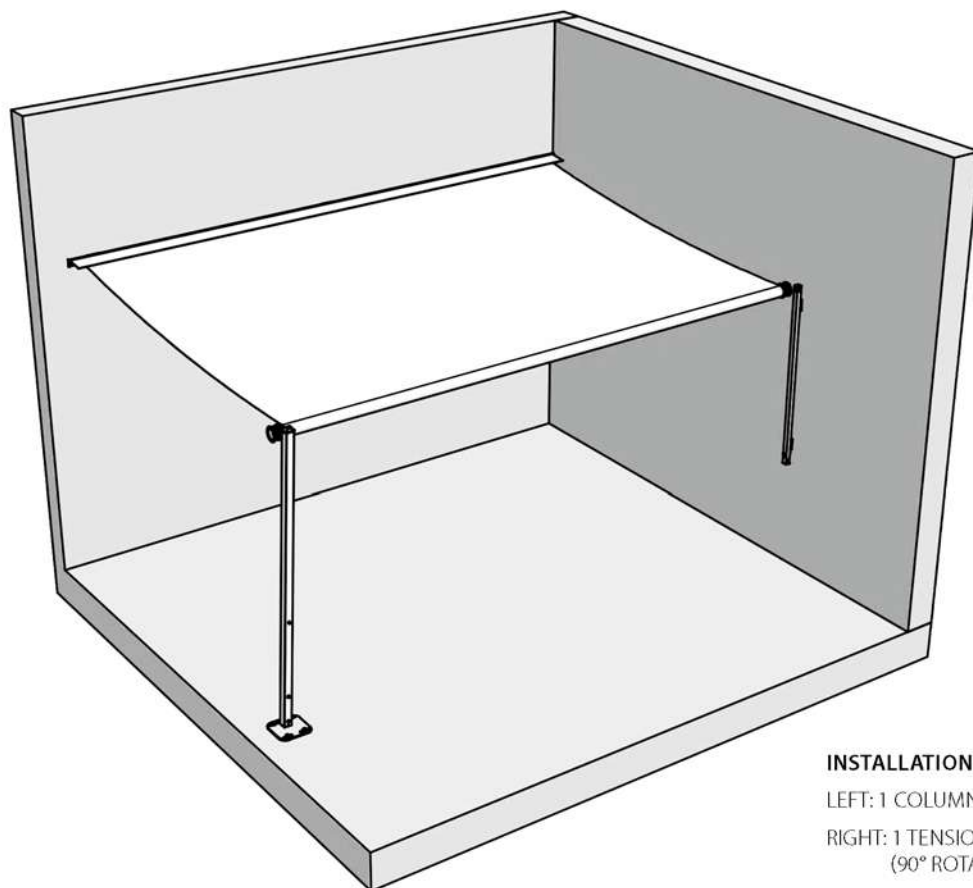
SHADEONE® VARIATIONS FOR INSTALLATION



INSTALLATION WITH:

LEFT: 1 TENSIONING ELEMENT STRUCTURE VERTICAL

RIGHT: 1 TENSIONING ELEMENT STRUCTURE
PARALLEL TO DIRECTION OF EXTENSION
(90° ROTATED PULLEY HEAD)

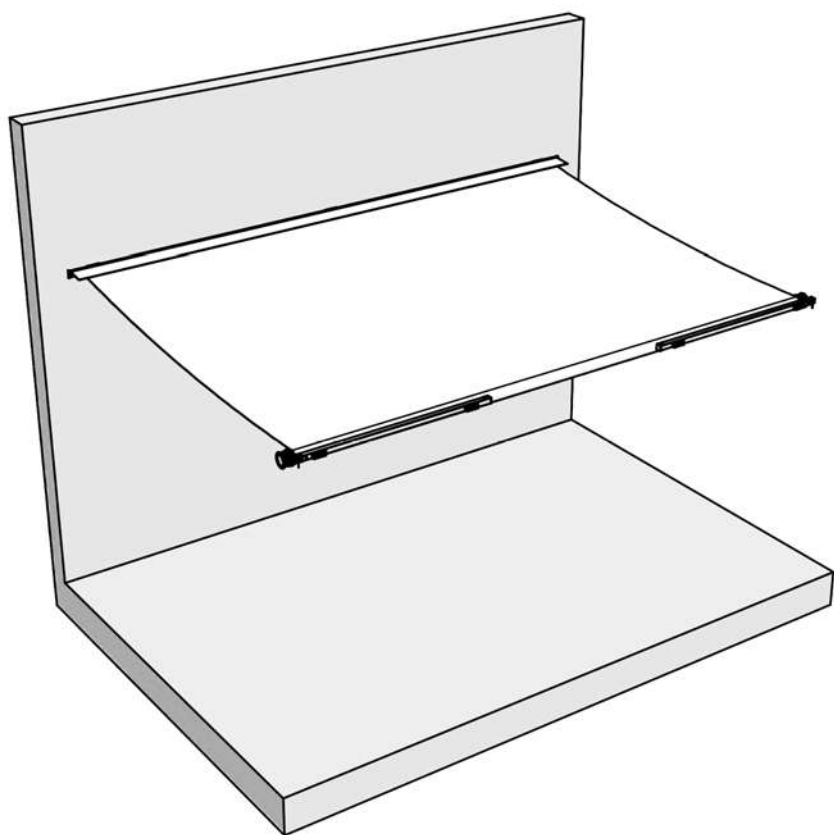


INSTALLATION WITH:

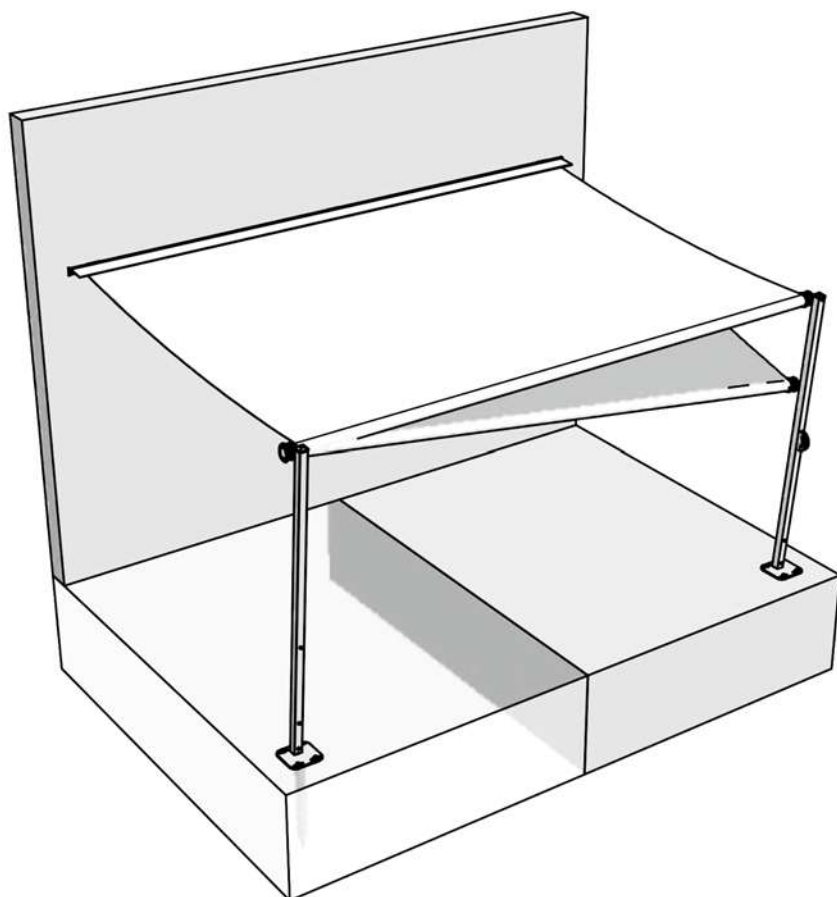
LEFT: 1 COLUMN (INOX)

RIGHT: 1 TENSIONING ELEMENT STRUCTURE VERTICAL
(90° ROTATED PULLEY HEAD)

SHADEONE® VARIATIONS FOR INSTALLATION

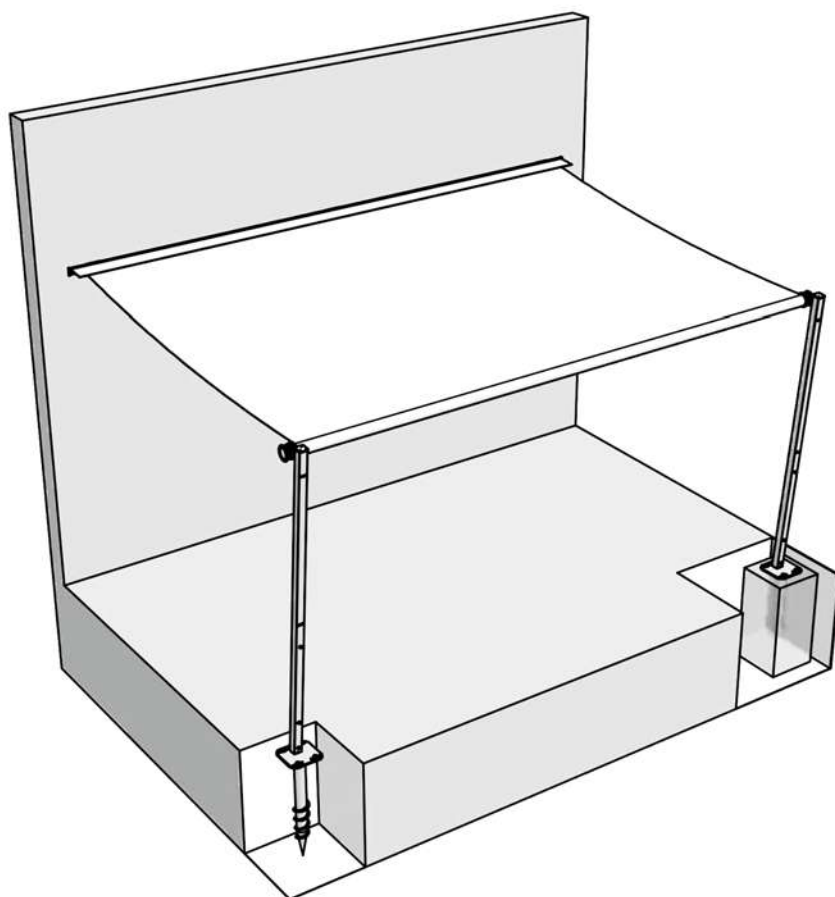


INSTALLATION WITH TWO TENSIONING
ELEMENTS STRUCTURE HORIZONTAL



INSTALLATION WITH:
LEFT: 1 COLUMN (INOX)
WITH SCREW FOUNDATION
RIGHT: 1 COLUMN (INOX)
WITH HEIGHT ADJUSTMENT

SHADEONE® VARIATIONS FOR INSTALLATION

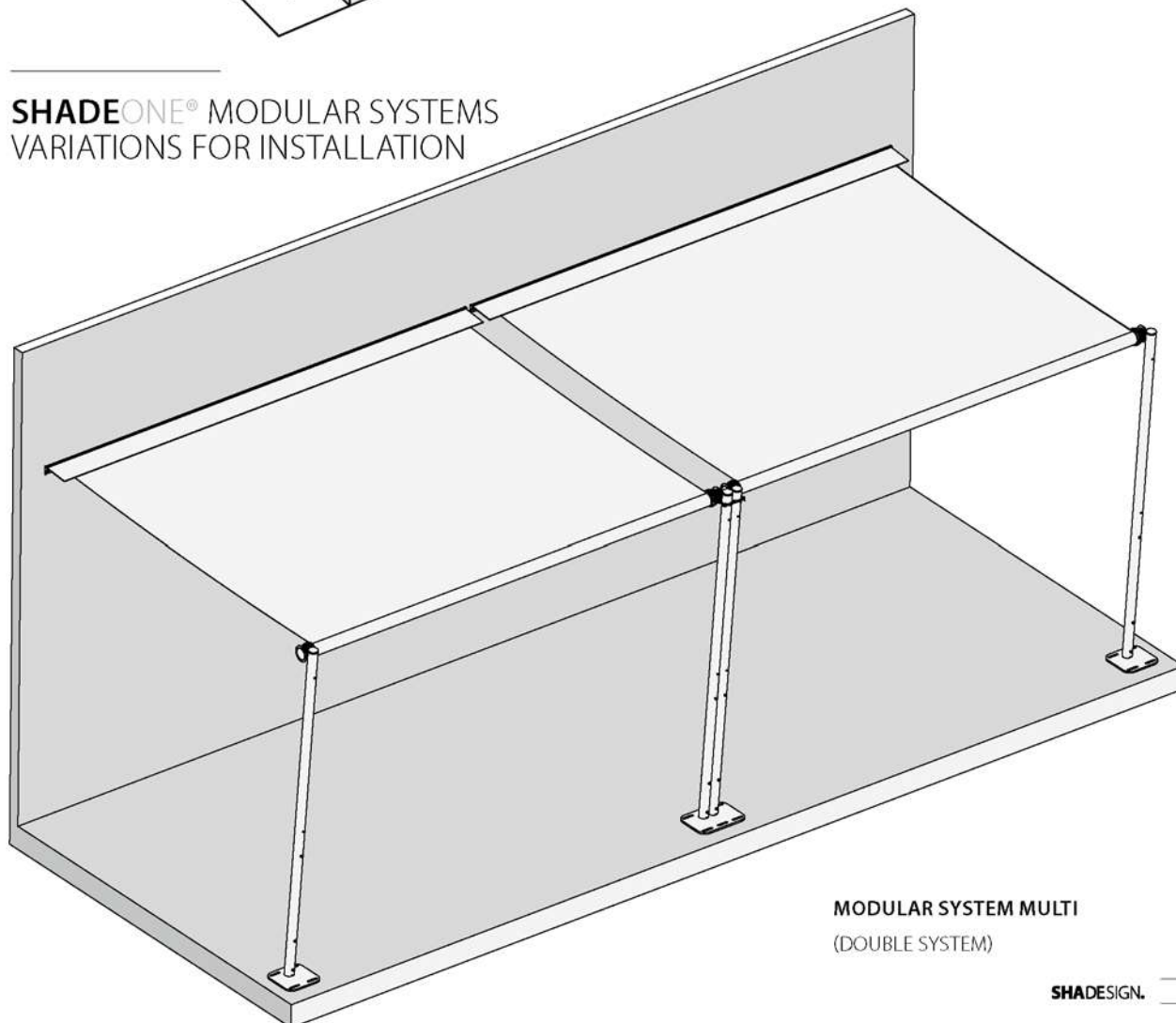


INSTALLATION WITH:

LEFT: 1 COLUMN (INOX) WITH SCREW FOUNDATION

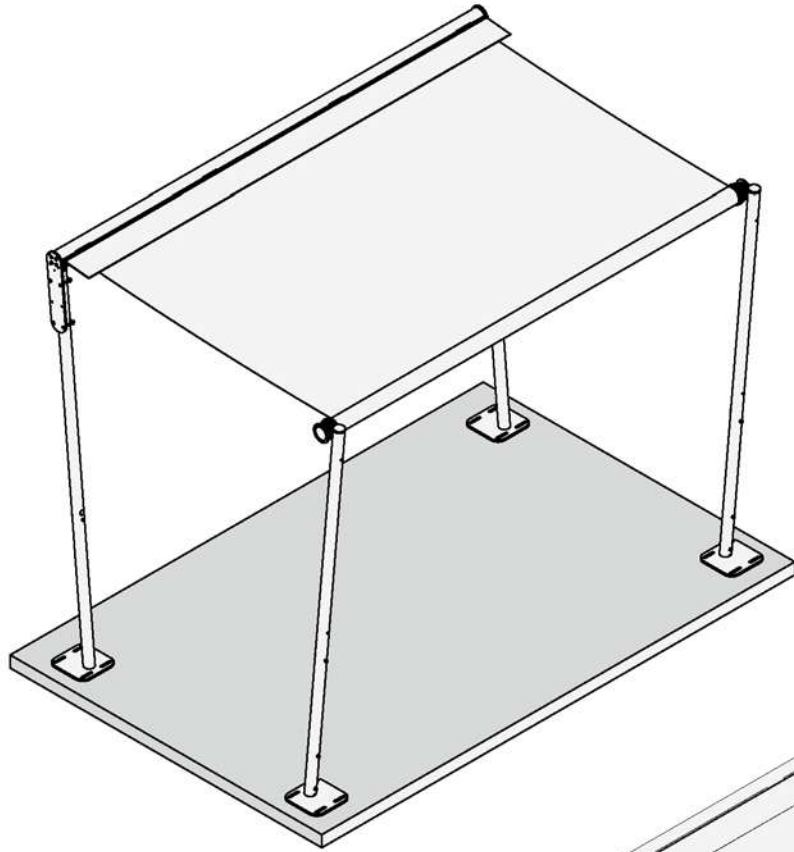
RIGHT: 1 COLUMN (INOX)
WITH CONCRETE FOUNDATION
[width x length x depth = min. 40x40x80 cm]

SHADEONE® MODULAR SYSTEMS VARIATIONS FOR INSTALLATION

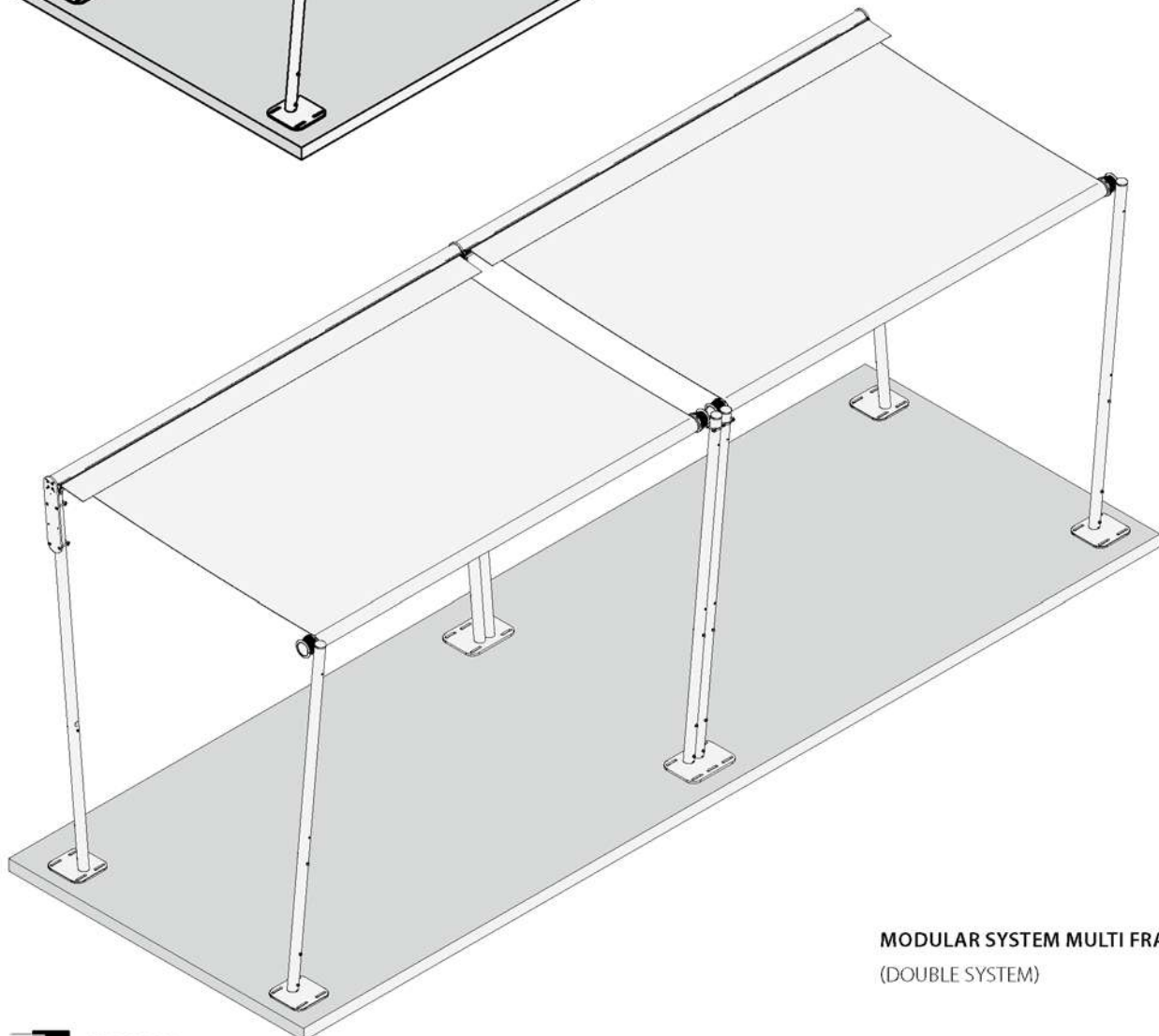


MODULAR SYSTEM MULTI
(DOUBLE SYSTEM)

SHADEONE® MODULAR SYSTEMS
VARIATIONS FOR INSTALLATION

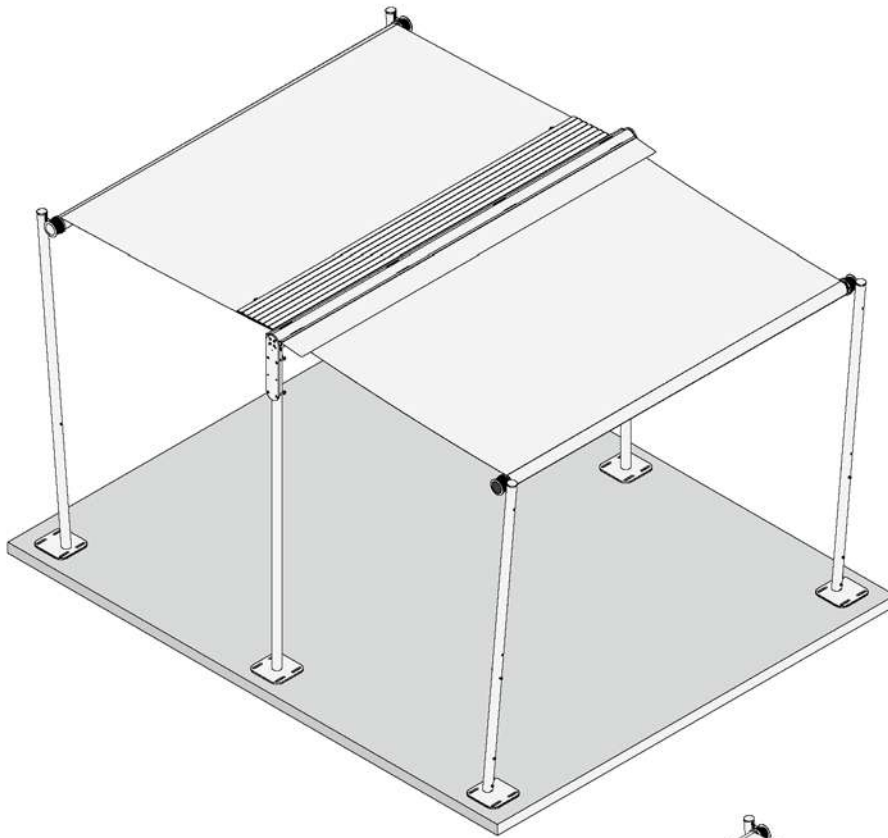


MODULAR SYSTEM FRAME



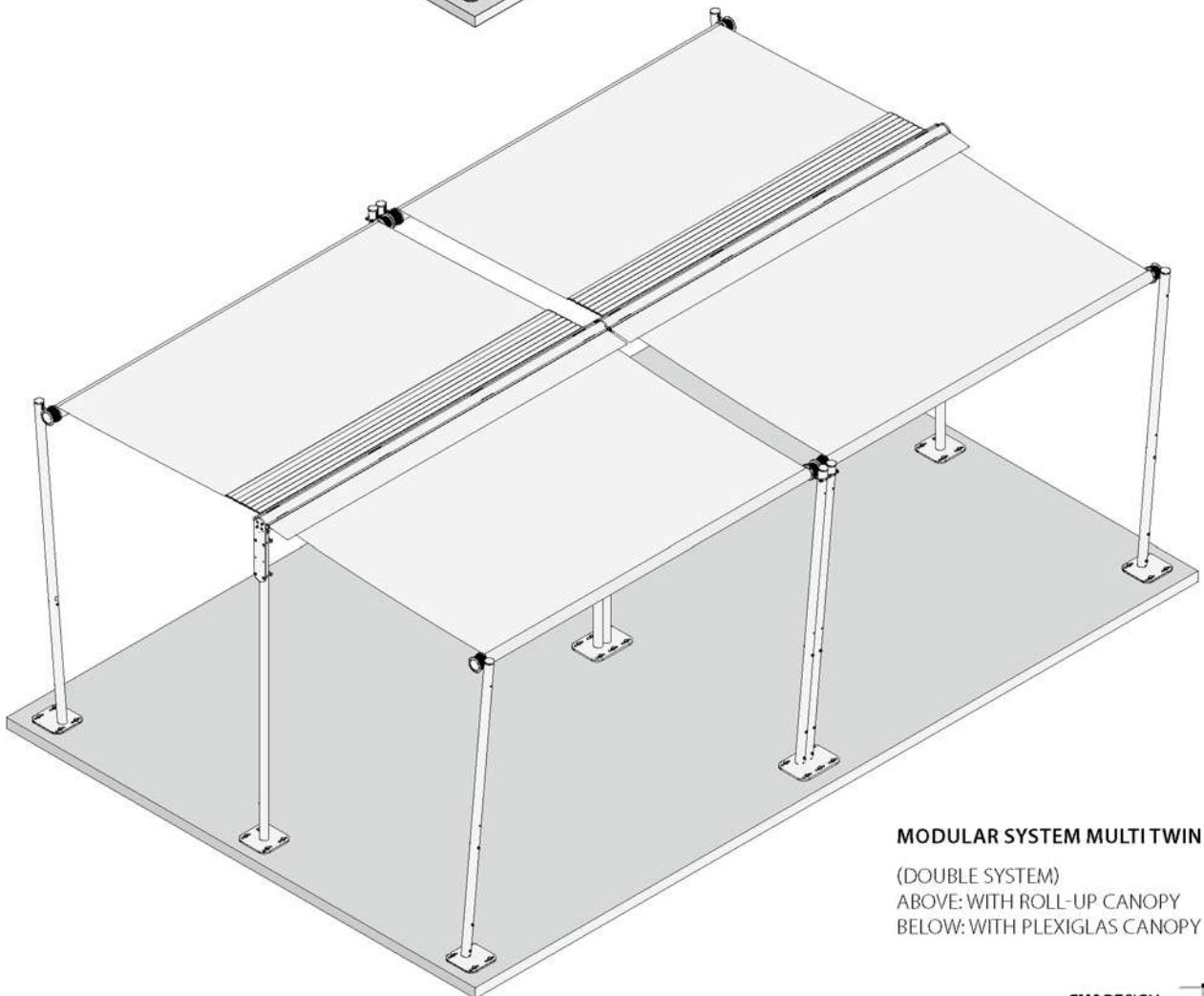
**MODULAR SYSTEM MULTI FRAME
(DOUBLE SYSTEM)**

SHADEONE® MODULAR SYSTEMS
VARIATIONS FOR INSTALLATION



MODULAR SYSTEM TWIN

ABOVE: WITH ROLL-UP CANOPY
BELOW: WITH PLEXIGLAS CANOPY



MODULAR SYSTEM MULTITWIN

(DOUBLE SYSTEM)
ABOVE: WITH ROLL-UP CANOPY
BELOW: WITH PLEXIGLAS CANOPY



All weather protection systems!

RETRACTABLE
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