

Technical Data
Duostore
DS315

HAROL

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Harol reserves the right to make alterations of the product without prior notice.

1. GENERAL

The Harol DS315 is a freestanding sun protection to shade the terraces of catering establishments or private houses. The Duostore is made of a frame on which, at both sides, a Harol foldaway awning of the 3 tubes-type is fixed. The frame can be placed free or fixed on the terrace. The construction of the awnings is characterised by a supporting profile on which supports, arms and fabric roll are mounted. The side guards and the cover profile form an aesthetic unit.

2. THE AWNINGS

2.1. THE PROFILES

2.1.1. THE SUPPORT PROFILE

- Material: a square, welded steel tube, produced from Zendimir zinc-plated strip.
- Surface treatment: coating.
- Colour: standard white (RAL 9016) or brown (RAL 8019B). Other Haral and Ral-colours at extra cost.
- Dimensions: Square 40 x 40 mm.
- Thickness: 2 mm.

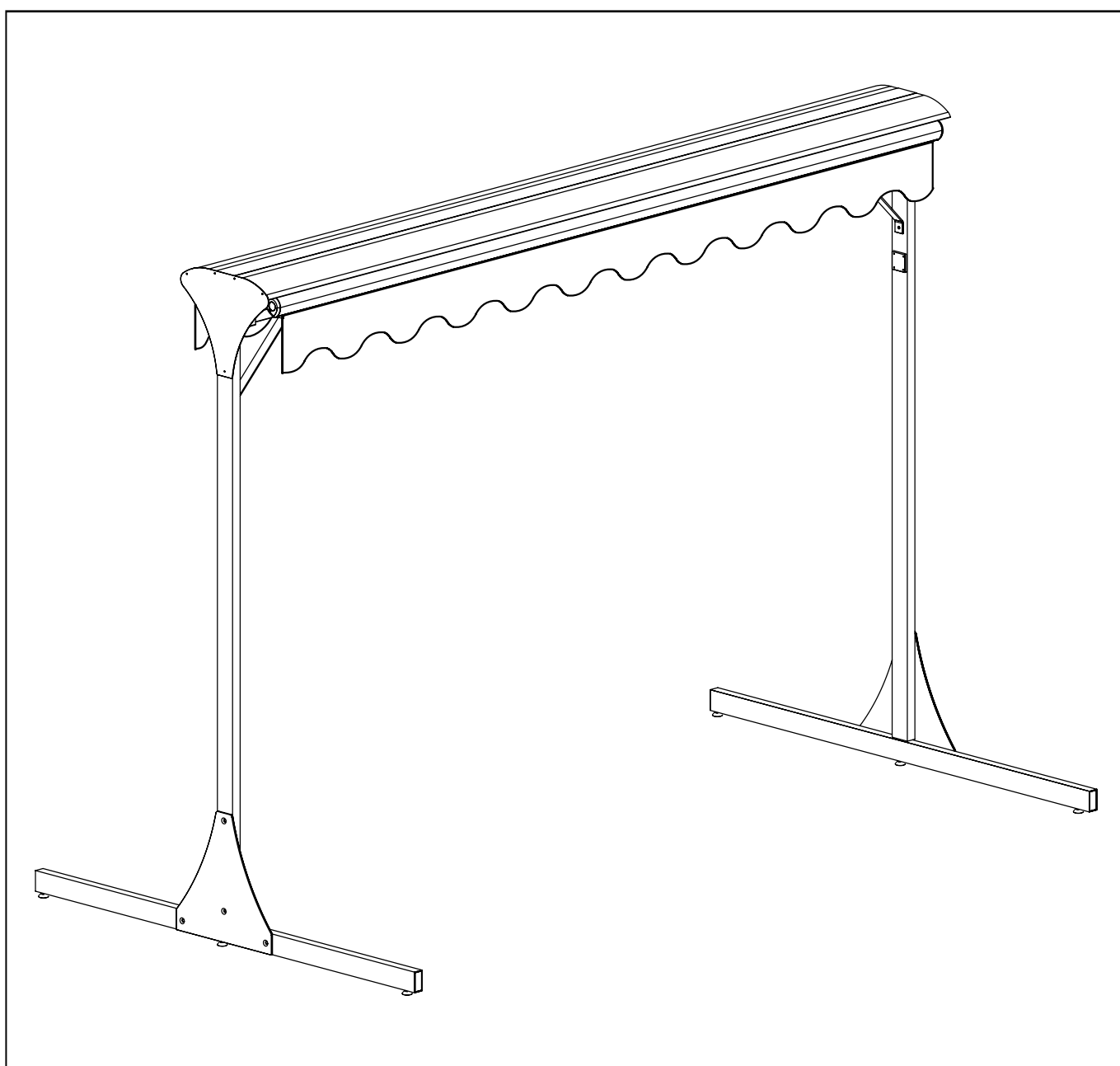


fig. 1 : DS315

2.1.2. The fabric roll

- Material: Zendimir zinc-plated round tube.
- Provided with a groove for attaching the fabric by a canvas rod.
- Diameter: 78mm.
- Thickness: 1mm.

2.1.3. The Clip On - Clip Off profile

- Material: consists of extruded PVC clips.
- Function: attaching the fabric in the fabric slot without the use of screws, so that the fabric can be removed from the front instead of sliding it sideways.
- Advantage: quick and easy fabric changing.

(See fig. 3)

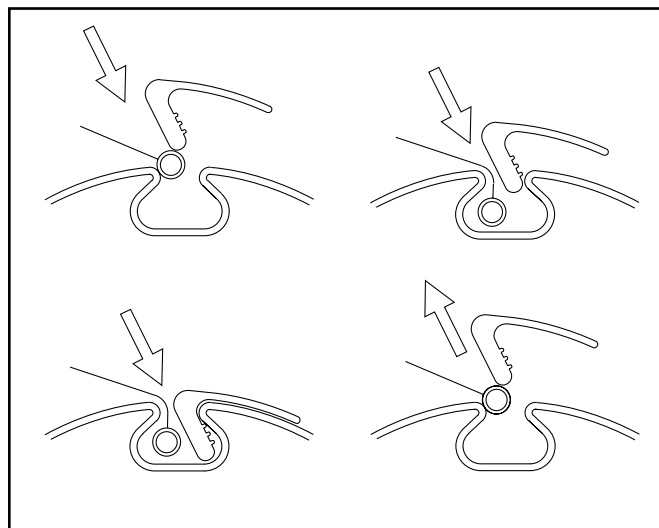


fig. 3 : Clip on - clip off profile

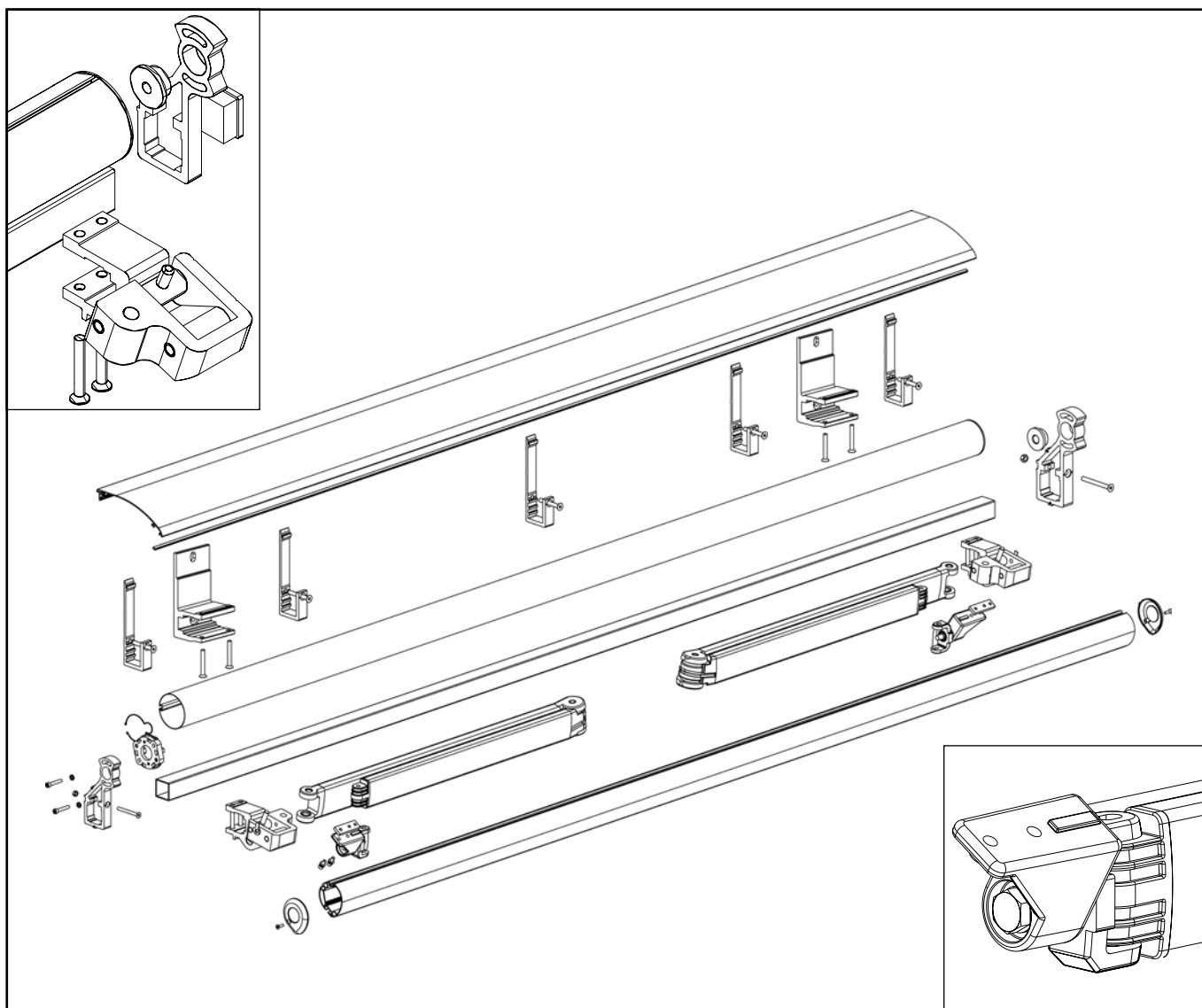


fig. 2 : Exploded view of an awning

2.1.4. THE EXTENSION POLE

- Low extension pole, provided with grooves for attachment of the fabric, the arms and a flounce.
- Material: extruded aluminium.
- Surface treatment: powdercoating.
- Colour: Standard in the selected frame colour (see colour chart). Ral-colours at extra cost.
- At the ends finished with aluminium covers.
- As a standard: round extension pole
 - ▶ does not cover the arms completely
 - ▶ therefore: valance type 2 is provided as a standard
- As an option: high extension pole
 - ▶ covers the arms completely
 - ▶ therefore: as standard no valance

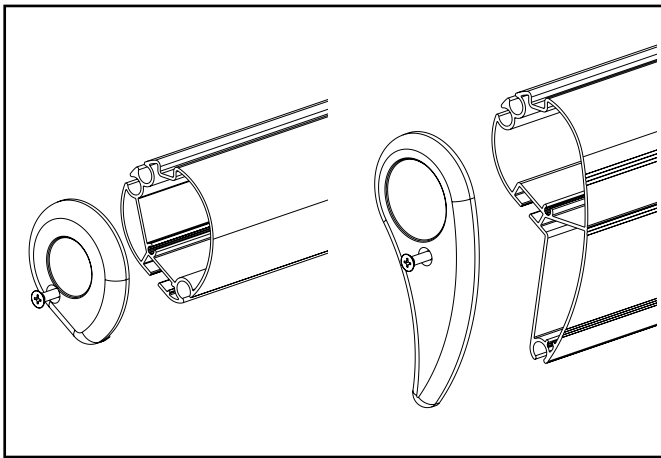


fig. 4 : The extension poles

2.1.5. THE COVER PROFILE

- Material: extruded aluminium.
- Surface treatment: powdercoating.
- Colour: standard white (RAL9016) or brown (RAL8019B). Other Haral and Ral-colours at extra cost.
- Function: protection of the fabric.
- The cover profile is clipst onto the cover supports.
- A profile, in the colour of the cover profile covers up the opening between the 2 cover profiles. (See fig. 5)

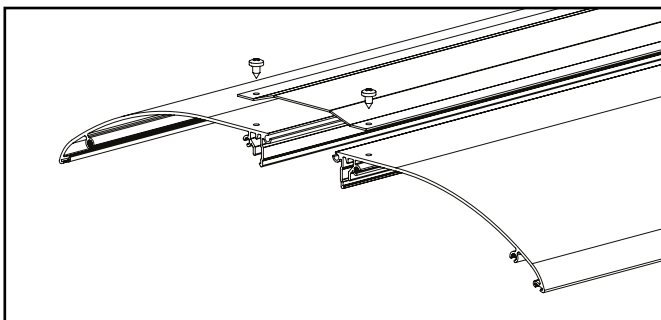


fig. 5 : The cover profile

2.2. THE OTHER COMPONENTS

2.2.1. THE FOLDING ARMS

The 2 folding arms form an essential part of the awning. In each arm, two springs ensure the tension. The power of both springs is transferred via a wedge to two zinc-plated steel cables.

The arms hinge on durable slide bearings of sintered bronze, provided with a PTFE-sliding layer.

- The arm profiles:
 - ▶ Material: extruded aluminium.
 - ▶ Surface treatment: powdercoating.
 - ▶ Colour: standard in the colour of the awnings.
- The springs and the steel cables:
 - ▶ Material: high quality spring steel which has been zinc-plated beforehand.
 - ▶ The diameter of the cables is always in relation to the forces applied to them.
- The hinges:
 - ▶ Material: high pressure cast aluminium alloy.
- Available with the following drops: 1500 - 2000 - 2500 - 3000 mm.

2.2.2. THE ANGULAR DISPLACEMENT

- The arms are directly fitted to the angular displacement.
- This angular displacement, mounted on the support profile, makes possible the adjustment of the angle of the sun screening.
- The range of adjustment is between 10° and 45°.
- The system operates without stages, in a simple manner, and in one turning movement.

2.2.3. EXTENSION POLE ADJUSTMENT

After the setting of the angle of drop, the extension pole is positioned by the extension pole regulation. The system is simple to operate with one turning over movement.

2.2.4. THE FASTENING PROFILES

- Provided with fastening holes.
- Material: extruded aluminium.
- Surface treatment: powdercoating.
- Colour: same colour as the awnings.
- Width: 100 mm.
- The number of supports supplied is always 3 (per awning). (see fig. 6)

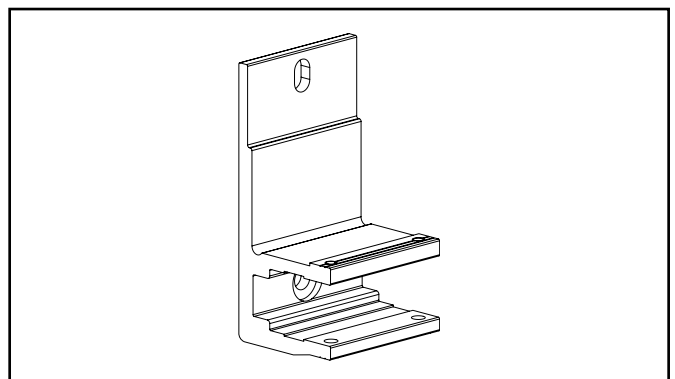


fig. 6 : The fastening profile

2.2.5. The bearing supports

- Material: extruded aluminium provided with a nylon bush.
- Surface treatment: powdercoating.
- Colour: same colour as the awnings.

2.2.6. Fabric roll support

- Consist of two components, this resulting the assembly and disassembly of the support always being possible with an assembled system.
- Material: aluminium.
- Surface treatment:
 - ▶ The support: powdercoated in the same colour of the awnings.
 - ▶ The shell-formed part: Rilsan, grey
- Standard available from 5 m width and placed at the position of the double seam.
- Function: supports the fabric roll.

2.2.7. Side guards

- Material: aluminium
- Surface treatment: powdercoating.
- Colour: same colour as the awnings.

(For more information about the awnings, please consult the technical data of the PR210-220-230).

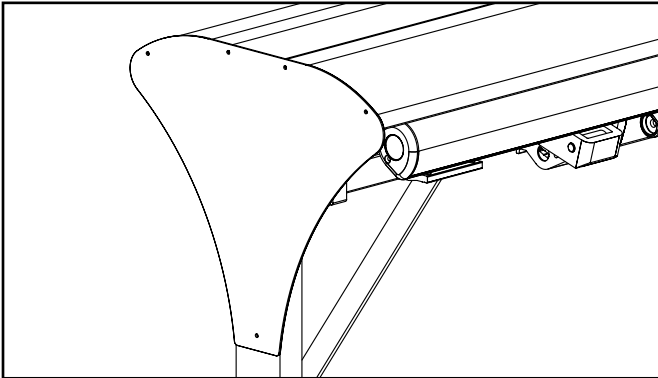


fig. 7 : The side guard

3. THE FRAME

3.1. WELDED MIDDLE PIECE, CORNER BRACKET, VERTICAL POLES AND SHORE

- The welded middle piece or beam, on which the awnings are mounted, and the vertical pole are connected by means of the corner bracket. A shore strengthens this construction.
- Material: electrolytically zincked steel.
- Surface treatment: powdercoating.
- Colour: According to RAL colour range.

3.2. THE SUPPORTS

- Three types:
 - ▶ Standard:
 - Horizontal support provided with adjustable footrests, and finished with a finishing sheet. To be placed separately on the terrace floor.
 - ▶ Option:
 - Central screwed support for fixation on the terrace floor.
 - Central support to concrete. (See fig. 9)

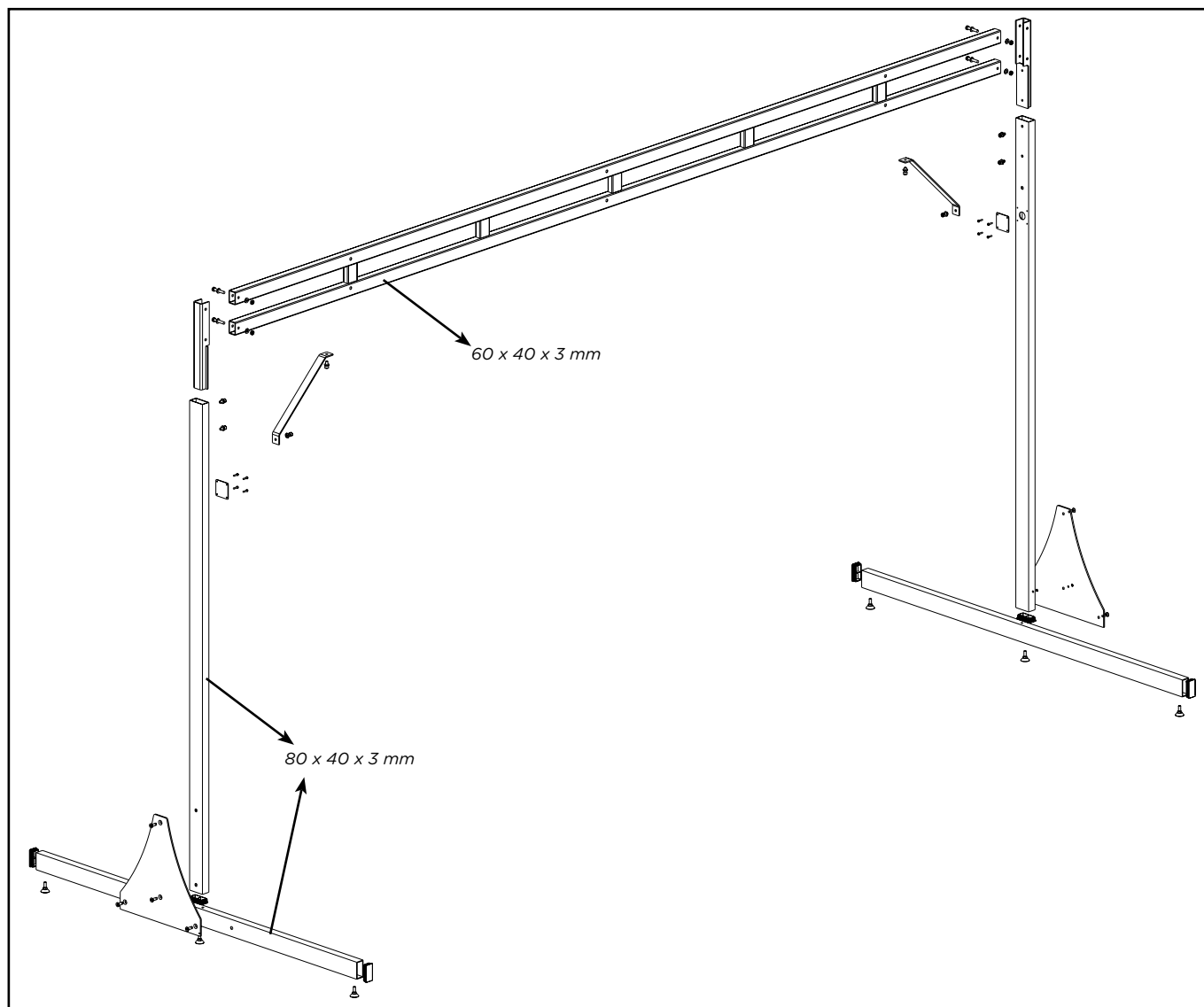


fig. 8 : Exploded view frame

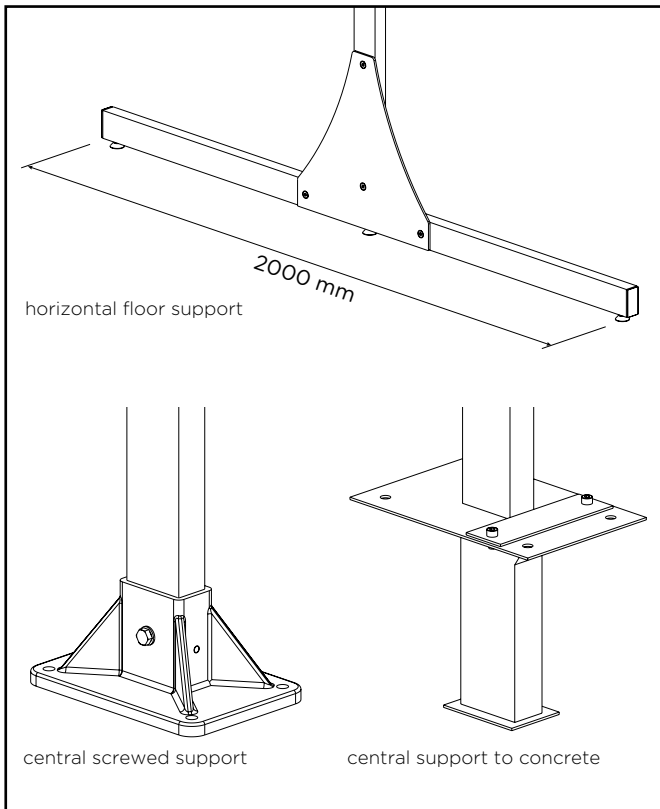


fig. 9 : Floor supports

4. FASTENING MATERIALS

All fastening materials are of rust-free steel and synthetic protection covers cover the visible screws of the consoles.

5. MEASURINGS

Total width: (see fig. 10)

- This is the finished width, including the vertical poles.
- 3 standard widths: 3600 mm, 4800 mm and 6000 mm (measure including the vertical poles).

Drop: (see fig. 11)

- Measured from the back of the cover profile to the front of the extension pole.
- The awning may never run out horizontally, but is to be adjusted to an angle to be chosen (between 10° and 45°)
- Take account of sufficient run-out height.
- 4 possible drops: 2 x 1500 mm, 2 x 2000 mm, 2 x 2500 mm, 2 x 3000 mm (measured back cover profile to front extension pole).

Height: ca. 2600 mm (= total height of the DS315).
(See fig. 11)

Remark: In-between sizes are not possible.

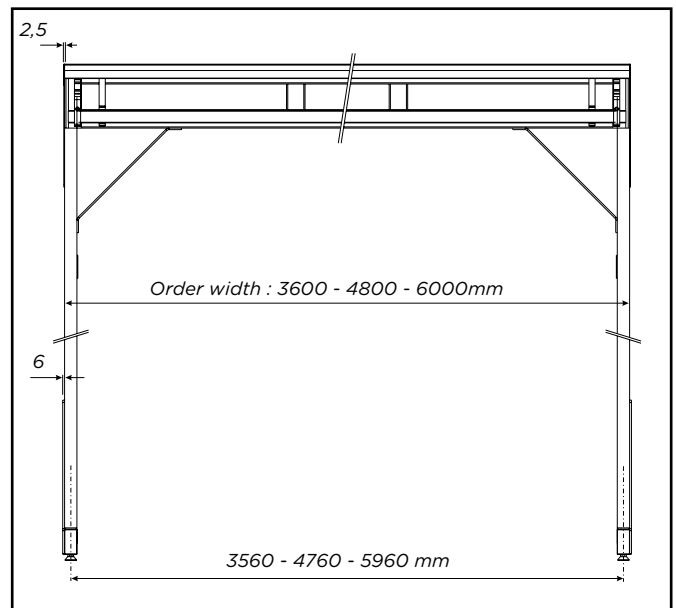


fig. 10a : Measuring, frame with horizontal floor supports

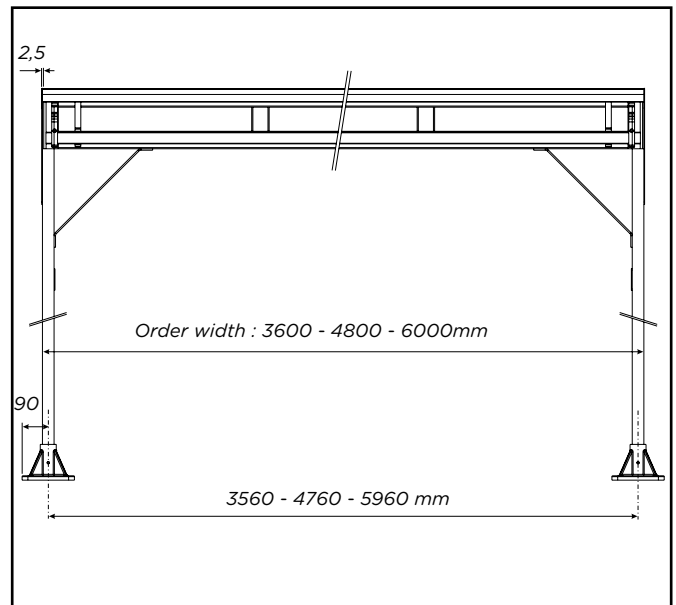


fig. 10b : Measuring, frame with central screwed supports

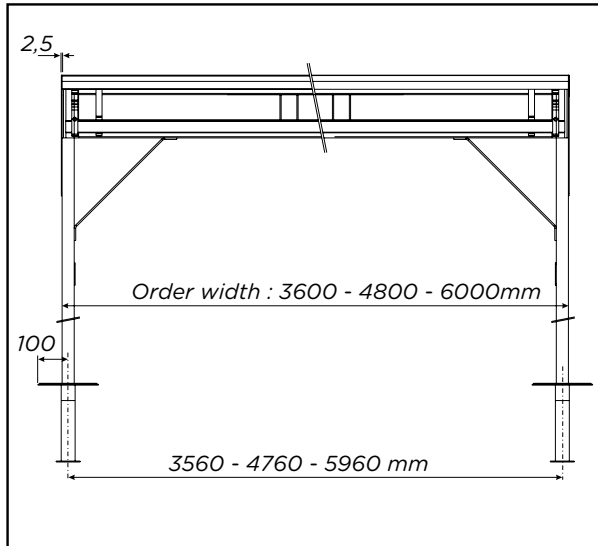


fig. 10c : Measuring, frame with central supports to concrete

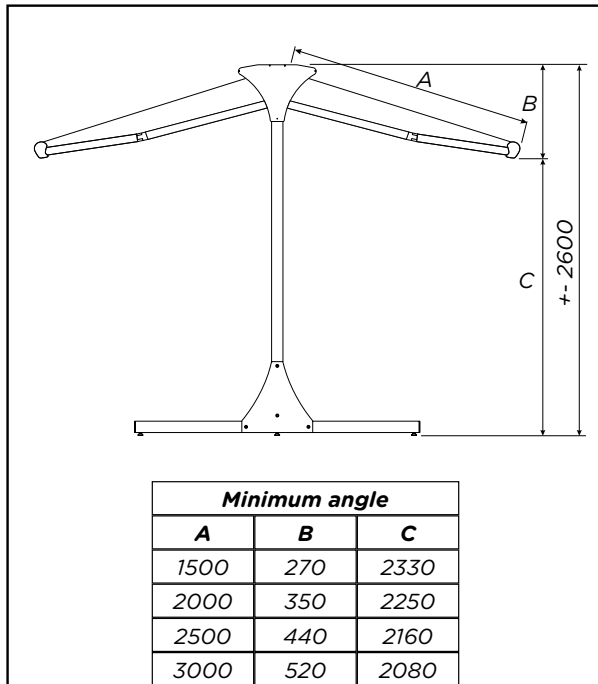


fig. 11 : Measures

6. OPERATION

- Choice between 2 operating types:
- Crank handle operation with eye (standard)
- Electric operation (option).

6.1. ELECTRIC OPERATION

- An electrical asynchronous motor is built in left or right into the fabric roller.
- The standard motor is the Sunea IO motor, without push buttons and controlled with an IO transmitter.
 - ▶ IO transmitter.
 - ▶ 5m electric cable.
- Option:
 - ▶ without IO wall transmitter.
 - ▶ electric cable 10m instead of 5m.
 - ▶ other types of motors : Orea WT - CSI.
- Operating side at choice left or right (better place both motors across each other = ease of connection)
- As option:
 - ▶ Socket with plug (connection of extension lead).
 - ▶ Socket with plug (connection of electrical appliances).
- For more possibilities and automation: see the Harol domotics map.

Prod. Type	MOTOR TYPE	OPTION	SURCHARGE	CABLE LENGTH		
				3M	5M	10M
DS315	Sunea IO	Standard	-	-	S	X
	CSI	A1004	Minus price	S	X	X**

Only right

S: Standard X: Option

** : Without surface mounted switch

6.2. CRANK HANDLE

- As standard:
 - ▶ Worm wheel mechanism with eye and link bar with toggle.
 - ▶ Selfbreaking.
 - ▶ Transmission capacity 7/1.
 - ▶ Without end limiter.
 - ▶ One laying hook, as standard 1600 mm length.
 - ▶ Operation at choice left or right (better place both operations across each other = ease of operation).
 - ▶ The crank handle is always supplied-coated grey.
- As option:
 - ▶ Longer laying hooks (at extra cost).

7. FABRICS

Choice between two qualities.

7.1. ACRYL FABRIC

- Composition: Acryl fibre coloured in the mass.
- Colour: Patterns and colours chosen from the standard collection (Europe and Top Collection).
- Weight: $\pm 290 - 300 \text{ gr/m}^2$.
- Thickness: $\pm 0,5 \text{ mm}$.
- Confection: patterned in vertical rows of 1200 mm, side hems of 50 mm width, double step stitch, and polyester thread.
- The fabrics are treated for rot and mould, and have waterproof and dirt-repelling qualities.

8. ACCESSORIES

8.1. FLOUNCES

- As standard, flounce type 2 is delivered.
- Three other forms at option.
- The flounces have a standard height of 250 mm.

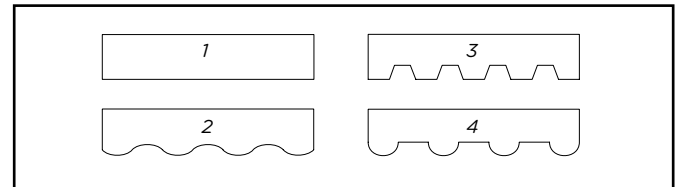


fig. 12 : Flounce forms

8.2. VARIO FLOUNCE

- At option
- This is a vertically rollable flounce
- An extension pole provided with a space for insertion of an axle and a fabric replaces the standard extension pole
- Always with laying hook of 1200 mm
- Wormgear with eye at the same side as the operating side of the awning. (The wormgear is also possible at the other side).
- Maximum width 7000 mm for acrylic fabric
- Maximum unrolled height 1500 mm for acrylic
- The fabric of the Vario flounce has an open seam for the insertion of a weighting strip
- This valance is only available for simple awnings. (Not for coupled awnings)
- A valance is always mounted on the extension pole, in case of a Vario flounce:
 - ▶ Standard type 2 - waveform
 - ▶ Choice between other types
 - ▶ Standard height 250 mm
- Soltis Air is not recommended ($B_{\text{max}} = 4800 \text{ mm}$, $H_{\text{max}} = 2000 \text{ mm}$)

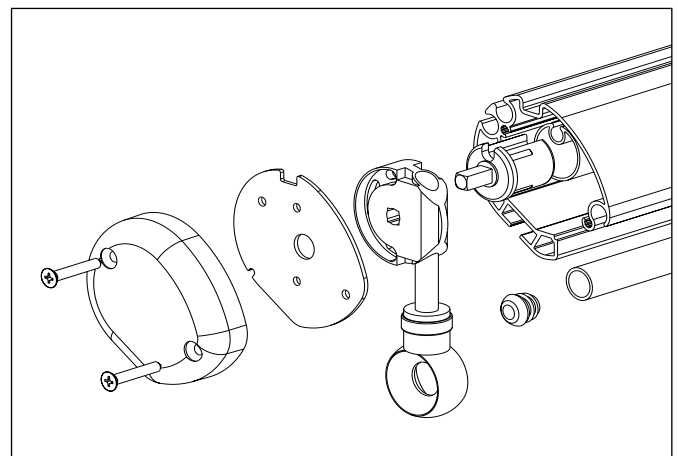


Fig. 13 : Vario flounce

8.3. LETTERING

- Fabric or flounce can be provided with lettering (option).
- The flounce height with lettering is 300 mm as standard.
- As standard ten diverse letter types are available.
- Special letter types and logos or drawings can be provided on request and at extra cost.

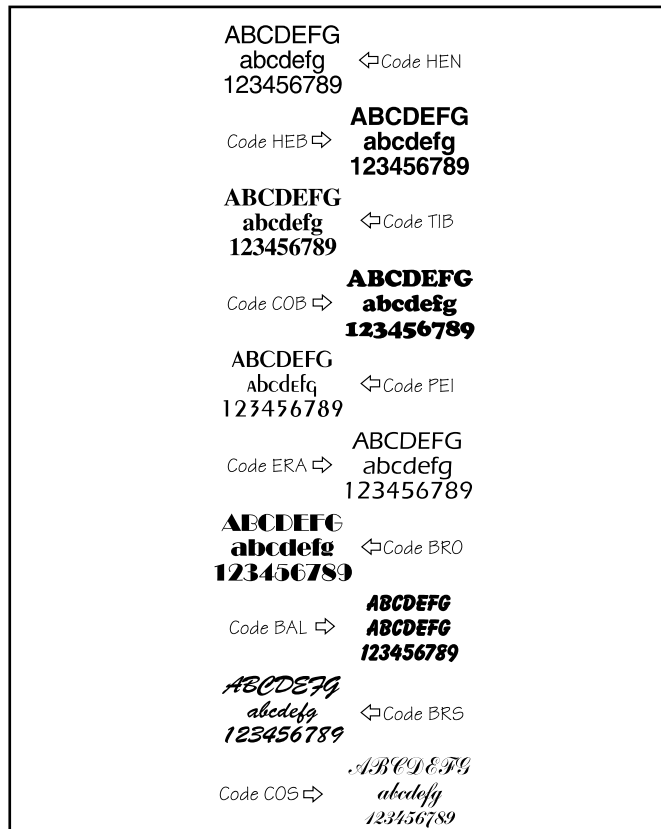


fig. 14 : Letter types

9. DELIVERY

- All fastening material and accessories are included, except the floor supports.
- The awnings and the frames are separately and fully packed in strong cardboard and/or plastic foil.

10. USE AND MAINTENANCE

Suitable use and maintenance greatly increase the life of the awning.

- Do not use the awning as a rain or wind waning.
- Regular maintenance prevents unnecessary wear.
- Cleaning the awnings and the frame: soft water instead of aggressive substances (affection of the coatings and protective layers).
- Cleaning the fabric:
 - ▶ Normal stains: dry with a bit stiff brush.
 - ▶ Stubborn stains: with tepid water without aggressive substances and brush. Then rinse the awning thoroughly with copious amounts of clean water.
 - ▶ Let the awning dry fully before rolling it up (even after an unforeseen rain shower).

11. ORDER FORM

Click on the button below:

[Order form DS315](#)

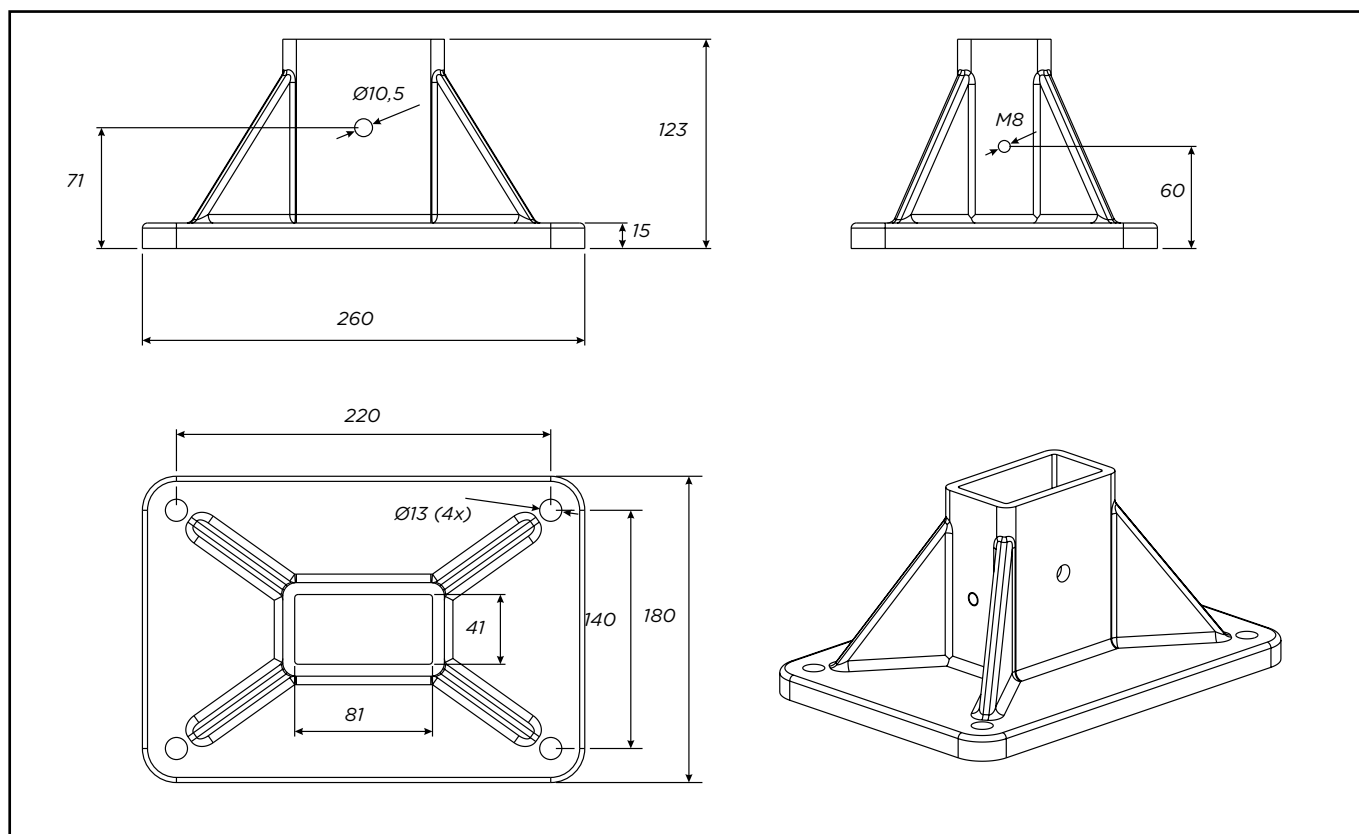


fig. 13 : Central screwed support

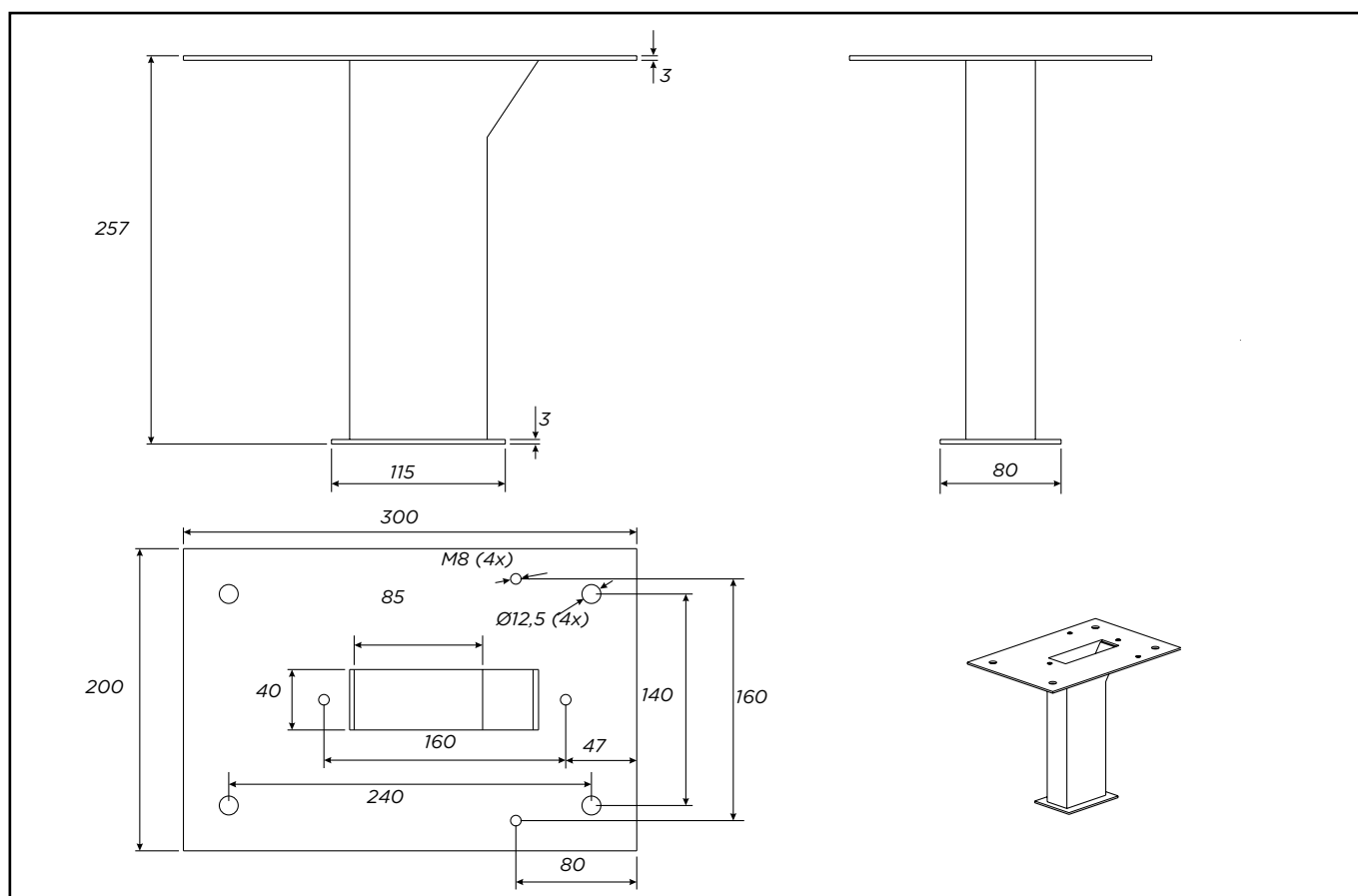


fig. 14 : Central support to concrete