

CADIZ

Article number: 065872

SHUTTERS

SUN PROTECTION

HAROL

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TECHNICAL SPECIFICATIONS CADIZ CASSETTE AWNING

1. GENERAL

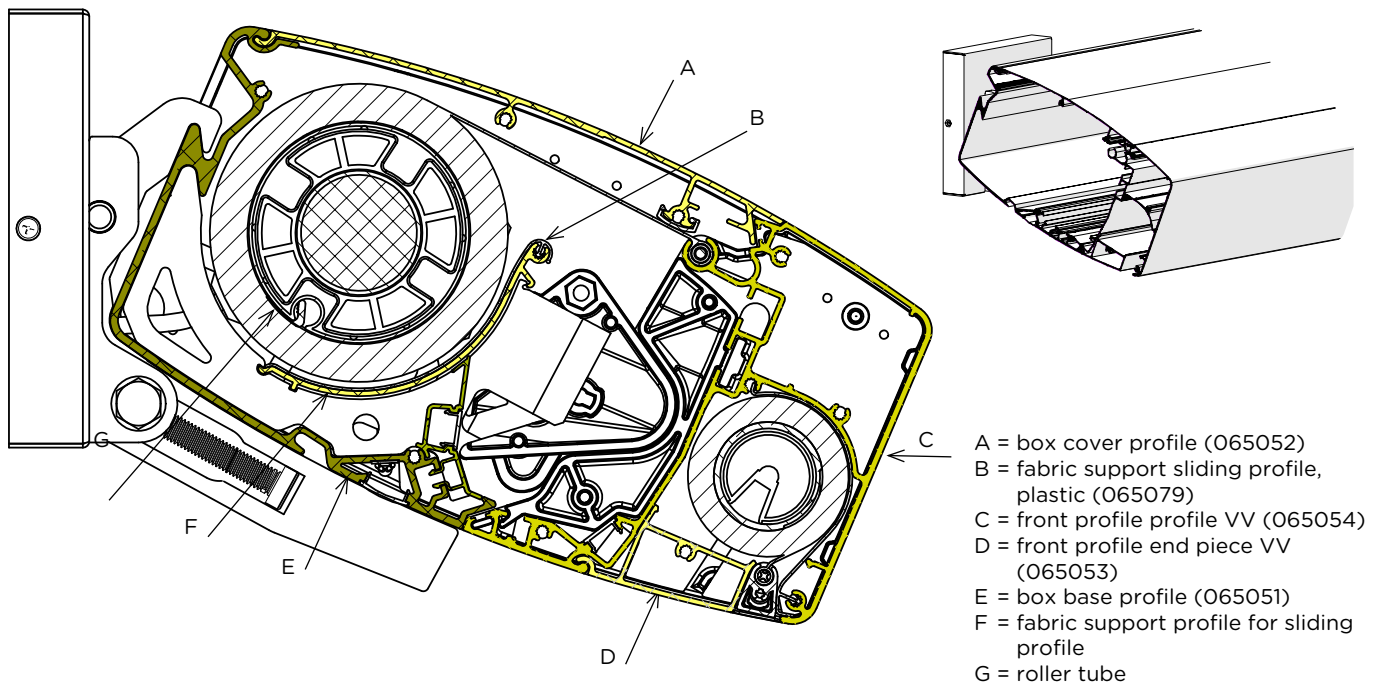
CADIZ is a cassette folding-arm awning:

- The awning is entirely enclosed
- The essential components are protected from damage due to external influences

Its construction is characterised by:

- Its housing, constructed completely of aluminium, to which the arms and consoles are attached
- Support provided by an aluminium fabric roll support profile that runs over the entire width of the fabric roll and the fabric
- Colour of the aluminium components and profiles: chosen profile colour as standard.
(see colour chart).

2. THE PROFILES



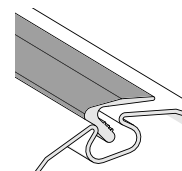
2.1. Roller tube (G)

- Material: round, welded tube made of Sendzimir-galvanised steel strip
- Function: extends and retracts the fabric
- Fitted with a groove to attach the fabric
- Diameter: Ø85 x 1 mm



2.2. Clip On - Clip Off profile

- Material: extruded PVC clip profile
- Function: screw-free attachment of the fabric to the roller tube

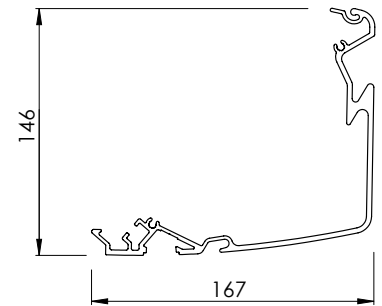


TECHNICAL SPECIFICATIONS CADIZ CASSETTE AWNING

- Facilitates quick and easy fitting and removal of the fabric

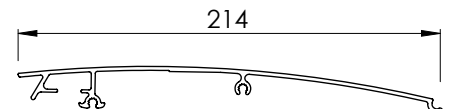
2.3. Box base profile (E)

- Material: powder-coated extruded aluminium
- Function:
 - Visually closes off the underside of the awning
 - Load-bearing base profile to which the other components are attached
- Fitted with:
 - A suspension groove for hooking onto the wall consoles
 - An attachment groove for attaching arm consoles and intermediate supports



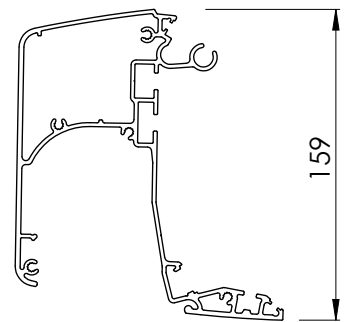
2.4. Box cover profile (A)

- Material: powder-coated extruded aluminium
- Function: covers the fabric along its entire width
- Fitted on the inside with a hard PVC profile:
 - improved guidance of the fabric
 - extends the service life of the fabric
- Attached with hinges to the bottom profile
- Mounted into the side consoles, along both sides, using screws



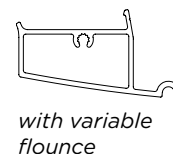
2.5. Front profile (C/D)

- Material: powder-coated extruded aluminium
- Function: seals the front of the screen
- Fitted with:
 - On the top side, a groove to attach the fabric
 - A groove for a rubber seal
 - A groove for the drainage of rainwater that has seeped into the cassette
- Finished with aluminium caps at the ends:
 - Coated in the same colour as the front profile
 - Equipped with a plastic gutter for the drainage of any rainwater

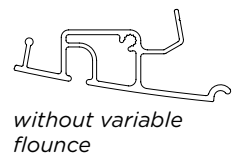


2.6. Front profile end piece (D)

- Material: powder-coated extruded aluminium
- Function: seals the front of the screen
- Two types:
 - Without a variable flounce (standard)
 - With a variable flounce (optional)



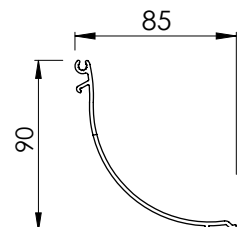
with variable flounce



without variable flounce

2.7. Fabric roll support profile (F)

- Material: powder-coated extruded aluminium
- Function:
 - Support of the fabric over its entire width
 - Protection of the fabric on the front side
- Fitted on the inside with a hard PVC profile:
 - Improved guidance of the fabric
 - Extends the service life of the fabric
- Is attached to the bottom profile using intermediate supports

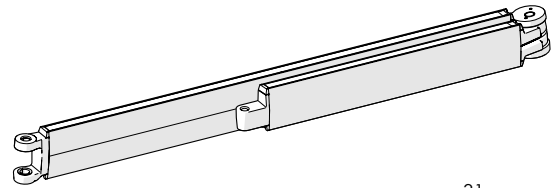


3. OTHER COMPONENTS

3.1. Folding arms

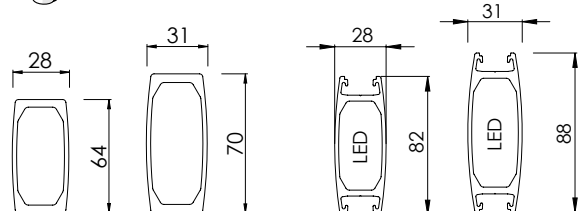
Connect the box and the front profile

- Can be supplied in the following extensions: 1500, 2000, 2500, 3000, 3500, and 4000 mm
- Two arms are fitted up to a width of 6000 mm; three arms are fitted from 6001 mm to 7000 mm
- Available with integrated LED lighting (optional)



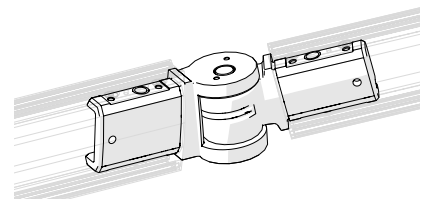
3.2. Arm profiles:

- Material: powder-coated extruded aluminium



3.3 Hinges

- Material: cast aluminium alloy
- Hinges on plain bearings made of sintered bronze with a PTFE lubricating layer
- The components bearing the heaviest loads are heat-treated

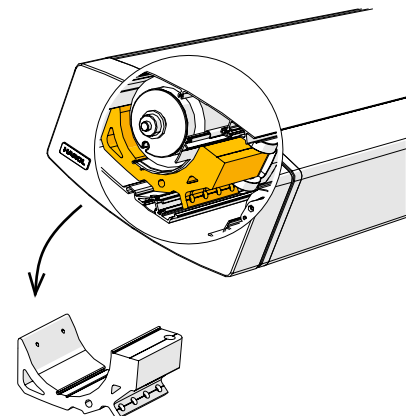


3.4 Springs and steel wire

- Material: made of pre-galvanised high-quality steel
- The diameter of the steel wire depends on the forces it will be exposed to
- The force of both springs is distributed across two steel wires:
 - Halves the forces
 - Notable increase in lifespan

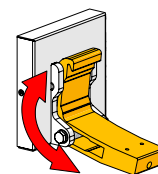
3.5. Arm attachment

- Material: extruded aluminium
- Function: connects the folding arm to the box



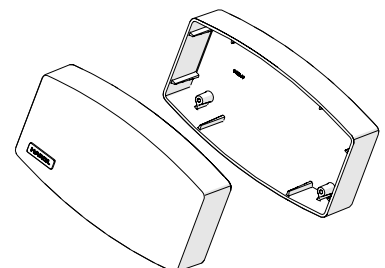
3.6. Angle adjustment system

- Function: facilitates configuration of the awning angle
- Is integrated into the wall console:
 - Easy angle adjustment
 - The awning will tilt as a whole
 - No further adjustment of the front profile required
- The angle is set between 5° and 40°
- Guarantees secure fastening to counter wind pushing up the arms and to prevent the arms from sagging



3.7. Cover cap

- Material: powder-coated cast aluminium.
- Function:
 - Seals the awning on the sides
 - Suspension of the controls and the bearings
- Attached on both sides to the cap profiles



TECHNICAL SPECIFICATIONS CADIZ CASSETTE AWNING

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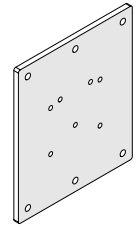
Reinforced backplate wall console: (option A1654)

For mounting on a ceiling, under a balcony, etc.

Material: cast aluminium (thermally treated), powder-coating finish.

Width: 300 mm and fitted with 6 mounting holes for M12.

Thickness : 12mm



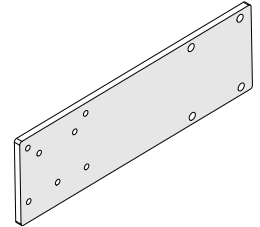
Side plate wall console: (option A2746)

Side plates are recommended when an awning needs to be mounted close to a corner or at the end of a wall. The wide side plate ensures that we can still anchor on a solid surface e.g. the internal wall.

Material: cast aluminium (thermally treated), powder-coating finish.

Width: 520 mm and fitted with 4 mounting holes for M12.

Thickness : 12mm

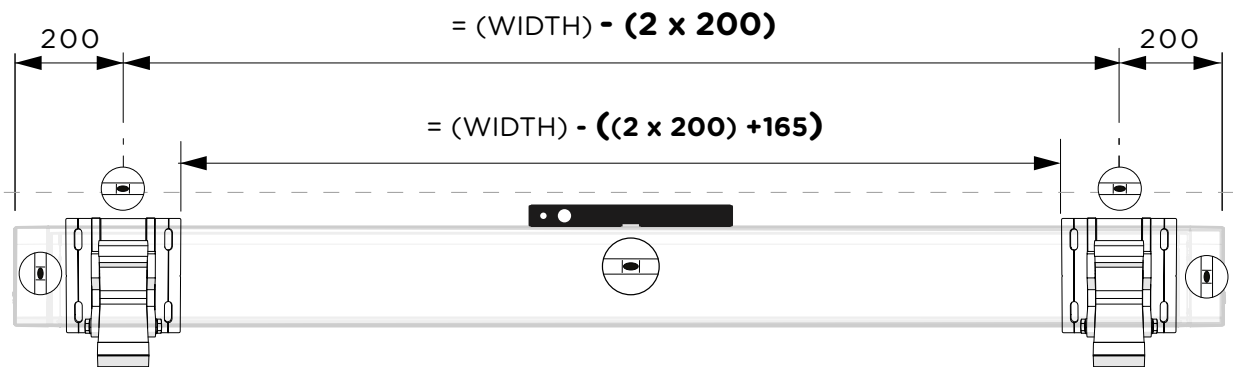


Position of the wall consoles

Awning width	Number of consoles
2000 - 4500 mm	2
4501 - 7000 mm	3

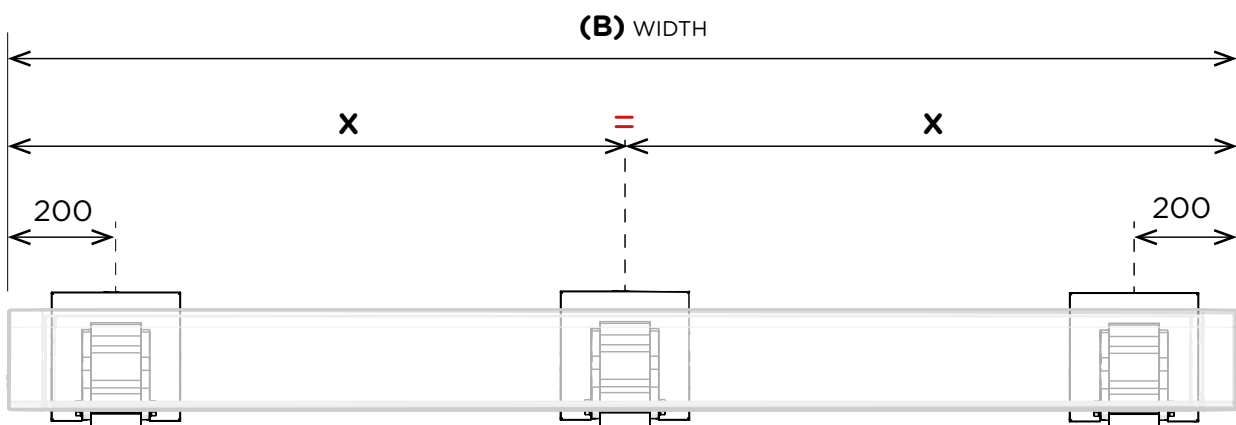
WIDTH

0 mm - 4500 mm



WIDTH

4501 mm - 6000 mm

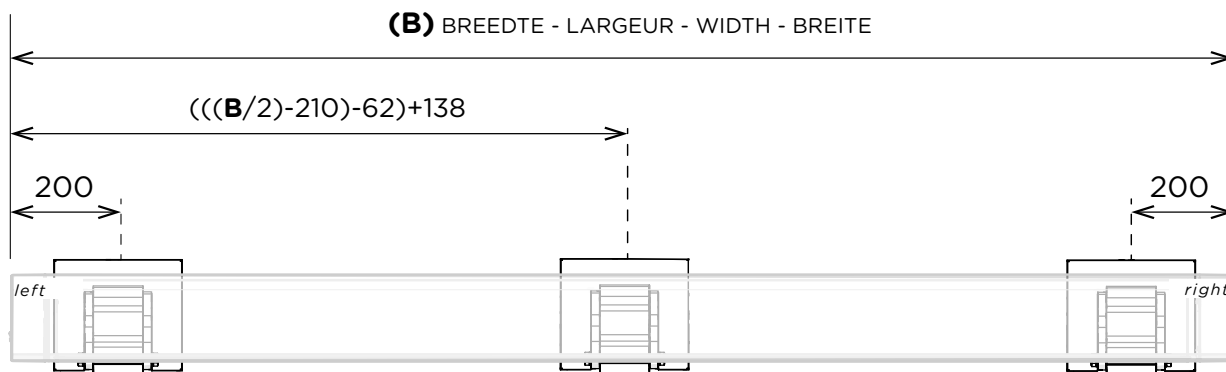


TECHNICAL SPECIFICATIONS CADIZ CASSETTE AWNING

WIDTH

6001 mm - 7000 mm

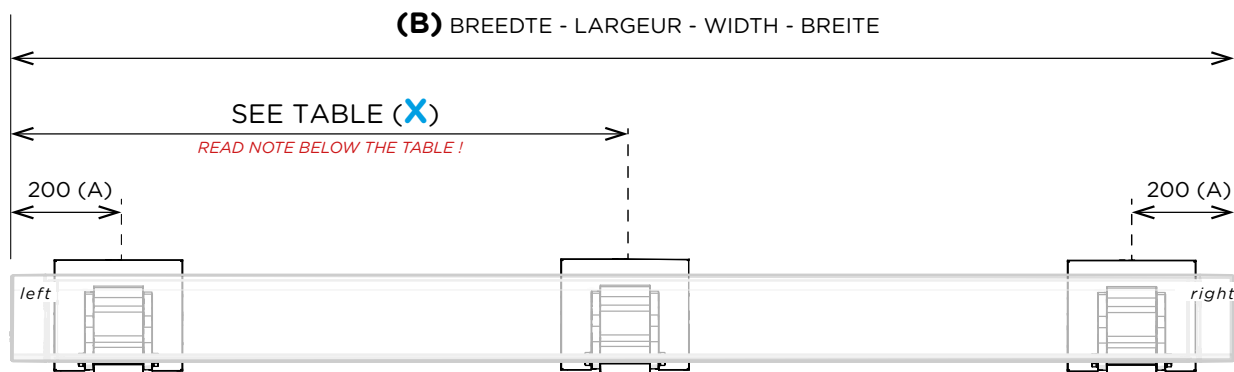
SLOPE 1500 - 2000 - 2500



The formula applies to a left-middle arm.

If a right-middle arm is desired, the value of the formula needs to be measured from the right (out)side.

SLOPE 3000 - 3500 - 4000



SLOPE /mm	3000		3500		4000	
	A	X	A	X	A	X
WIDTH /mm						
6050	200	2641	200	2148	200	
6100	200	2691	200	2173	200	
6150	200	2716	200	2198	200	
6200	200	2766	200	2223	200	
6250	200	2816	200	2248	200	
6300	200	2866	200	2273	200	
6350	200	2916	200	2298	200	
6400	200	2966	200	2323	200	
6450	200	3016	200	2348	200	
6500	200	3066	200	2373	200	
6550	200	3116	200	2398	200	
6600	200	3166	200	2423	200	
6650	200	3191	200	2448	200	
6700	200	3216	200	2473	200	
6750	200	3241	200	2498	200	2373
6800	190	3266	190	2523	190	2398
6850	190	3291	190	2548	190	2423
6900	190	3316	190	2573	190	2448
6950	190	3341	190	2598	190	2473
7000	190	3366	190	2623	190	2498

► The values X of the table apply to a left-middle arm (The control side of the screen is on the left).

► If a right-middle arm is desired, the value X of the table needs to be measured from the right (out)side. (The control side of the screen is on the left)

► Attention: Customer can determine and order his middle arm himself via the option :

- A1651 => Left folding arm as third arm, in the middle.

- A1652 => Right folding arm as third arm, in the middle.

TECHNICAL SPECIFICATIONS CADIZ CASSETTE AWNING

4. MINIMUM AND MAXIMUM SIZES

WIDTH

Maximum

- 6 m in 1 section with 2 arms
- 7 m in 1 section with 3 arms
- 12m in 2 sections with 4 arms

Minimum

- Depends on the chosen projection
- Awnings with 2 arms ► projection + 610 mm
- Awnings with 3 arms ► (projection x 1,5) + 800mm

PROJECTION

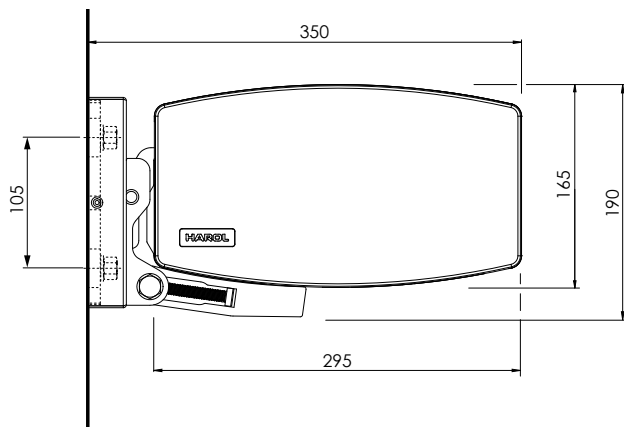
- Maximum: 4m
- Minimum: 1,5m

There is a chance that the fabric will hit the arms when opening and closing the screen especially at 3.5 and 4m extension. The fabric will only be fully tensioned at full opening.

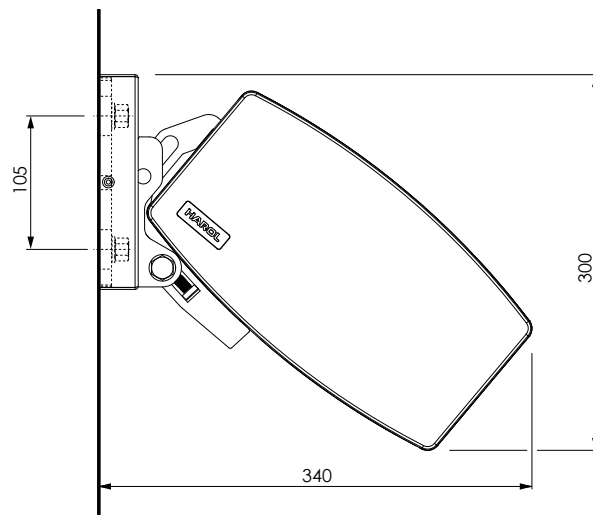
It is possible to link 2 awnings.

TYPE 1

MINIMUM angle (5°)

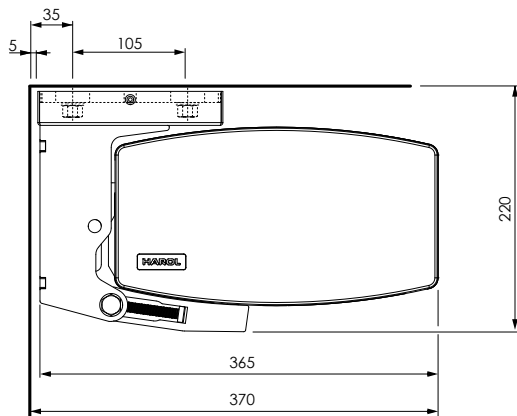


MAXIMUM angle (40°)

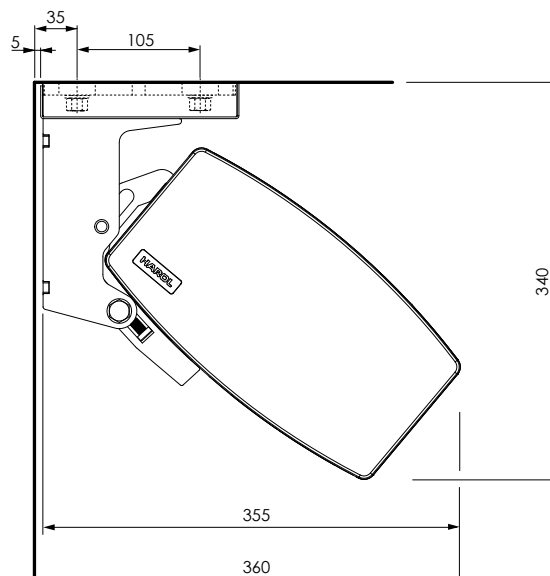


TYPE 2

MINIMUM angle (0°)



MAXIMUM angle (40°)



TECHNICAL SPECIFICATIONS CADIZ CASSETTE AWNING

5. WEIGHT

- The approximate weight :
 - with varivoltant ± 30 kg per metre (width)
 - without varivoltant $\pm 27,5$ kg per metre (width)

6. OPERATION

Electrical operation

The standard motor is Sunea IO, without buttons and operated using an IO transmitter.

- IO transmitter.
 - Cable length: 5 m.
- Optional:
- Without IO wall transmitter.
 - Cable length: 10 m instead of 5 m.
 - Other motor types: Orea WT - CSI - CSI IO.

Prod. Type	MOTOR TYPE	OPTIONAL	Surcharge	CABLE LENGTHS		
				3M	5M	10M
CADIZ	Sunea IO	A1281	-	-	S	X
	Orea WT	A2619	Minus price	S	X	X**
	CSI	A1004	Surcharge	S (2,5m)	X	X** only right
	CSI IO ***	A1611	Surcharge	S	X	X** right / left

S: standard X: option

** : Without surface-mounted switch

***: Max. width off the awning : 6m.

For group controls and automation: see the Harol home automation catalogue.

Note:

- The top and bottom position of the motor is configured at the factory.
- Manual operation is not possible

7. FABRICS

Acrylic:

- Composition: Mass-dyed acrylic fibre
- Colour: Patterned and single colours according to collection catalogue
- Weight: $\pm$ 290-300 g/m²
- Thickness: $\pm$ 0.5 mm
- Stitching:
 - 1200 mm vertical strips
 - 50 mm side seams
 - For a 4000 mm projection side seams 100 mm
 - Double step stitch with polyester thread
- Treated against rot; mould and dirt-resistant

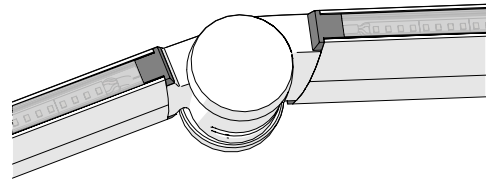
Wide width canvas:

- Infinity with a max. roll width of 3200 mm
- **Colour: uni-colours only**
- **Fabric confectioning:**
 - 1 horizontal strip
 - no side hems
 - always “Closed-edges” confectioning

TECHNICAL SPECIFICATIONS CADIZ CASSETTE AWNING

8. LED

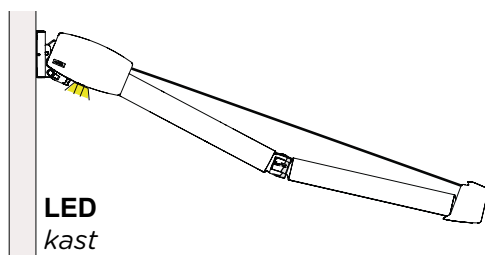
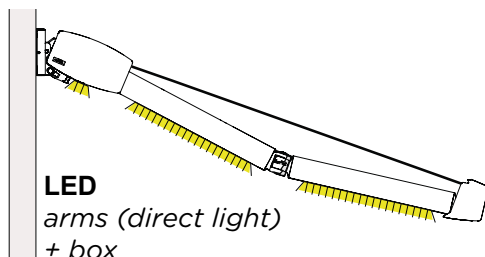
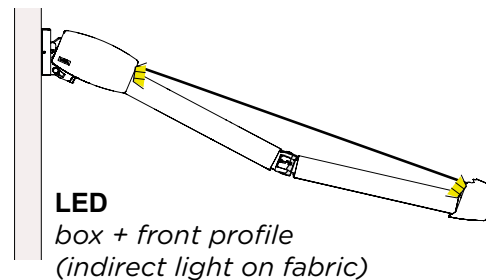
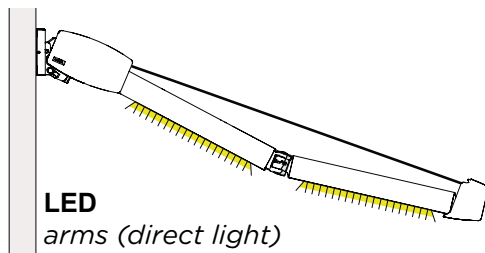
- Optional
- The lighting consists of an LED profile, an LED strip, a power supply (230 V AC - 24 V DC) and a receiver, if applicable
- The LED strip is applied to the arm profiles
- The power supply and IO receiver (if applicable) are placed on the board, behind the side cover
- A certain section can be lit less intensely at either end of the arm profiles, depending on the cut length of the LED strip
- The LED strip works on 24 V, 9.6 W/m
- The lighting is intended as mood lighting; the LED colour is warm white (600 Lumen/metre - 3000 (K) Kelvin)



Operation

- There are 2 options for operating the LED lighting::
 - 1. Dimmable IO controls**
The lighting cannot be operated using Smoove IO controls
 - 2. Without receiver**
A power cable is provided that can be connected to a switch button.
- The remote control is not included in the LED lighting.
- 3-metre power cable.

Possible positions



TECHNICAL SPECIFICATIONS CADIZ CASSETTE AWNING

9. MEASUREMENT AND INSTALLATION

9.1. Guidelines for correct measurement

- Width:

- Measured between the outside edges of consoles (including side caps)
- The fabric is always narrower than the width of the awning

- Extension:

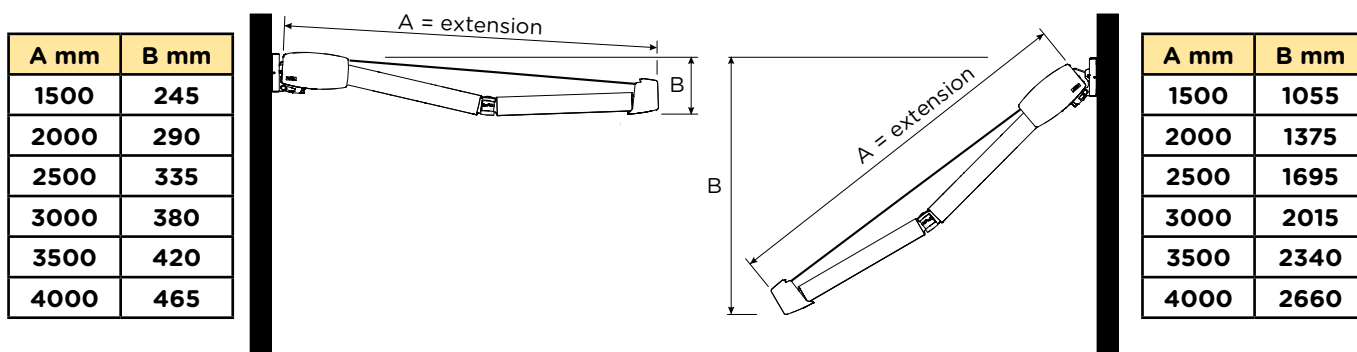
- Measured from the rear of the box to the front of the front profile
- An installed awning will always reach a little further (from the wall) than the specified extension

For optimal sun protection, the awning must extend sufficiently to the left and right beyond the window.

9.2. Installation

Take the quality of the supporting surface into account:

- For poor-quality walls, aerated concrete walls, soft or hollow stones:
 - use suitable fasteners
 - install extra wall consoles
- The screen must be installed at an adequate height (minimum 2500 mm)
- The angle must be set at a minimum of 10° and a maximum 40°:
 - Remember to leave adequate passage height.



9.3. wind resistance class and FORCES ON SCREWS

- This folding arm awning has been tested for use up to max. wind resistance class 2, with correct mounting (materials).

TECHNICAL SPECIFICATIONS CADIZ CASSETTE AWNING

With wind resistance class 2, the following forces occur on screws:

CADIZ (Acryl) with standard extension pole

Tensile strength at each upper fixing point, per standard wallbracket [N].

U \ B	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
1500	705	776	846	917	988	1058	1129	1199	1270	1340	1411	1482	1552	1623	1693	1764	1255	1302	1349	1396
2000			1284	1392	1500	1607	1715	1823	1930	2038	2146	2253	2361	2469	2576	2684	1910	1982	2053	2125
2500					2103	2255	2406	2558	2709	2861	3012	3164	3315	3467	3618	3770	2683	2784	2885	2986
3000							3203	3405	3607	3809	4011	4213	4415	4617	4819	5021	3574	3709	3844	3979
3500									4623	4883	5142	5401	5661	5920	6180	6439	4584	4757	4930	5103
4000											6405	6729	7052	7375	7699	8022				6359

CADIZ (Acryl) with variovolant

Tensile strength at each upper fixing point, per standard wallbracket [N].

U \ B	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
1500	838	923	1008	1094	1179	1264	1349	1435	1520	1605	1691	1776	1861	1946	2032	2117	1500	1557	1614	1671
2000			1500	1627	1755	1882	2009	2137	2264	2391	2518	2646	2773	2900	3027	3155	2237	2322	2406	2491
2500					2422	2598	2774	2950	3126	3302	3478	3654	3830	4006	4182	4358	3092	3209	3326	3444
3000							3644	3876	4107	4339	4570	4802	5033	5265	5496	5728	4065	4219	4374	4528
3500									5207	5501	5794	6088	6382	6676	6969	7263	5156	5352	5548	5744
4000											7151	7513	7876	8239	8601	8964				7092

CADIZ (Acryl) with ceiling console with variovolant

Tensile strength at each upper fixing point, per standard wallbracket [N].

U \ B	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
1500	1149	1263	1377	1492	1606	1720	1834	1948	2062	2176	2290	2405	2519	2633	2747	2861	2019	2095	2171	2247
2000			1914	2073	2233	2393	2553	2712	2872	3032	3192	3351	3511	3671	3831	3991	2820	2927	3034	3140
2500					2960	3173	3386	3598	3811	4024	4237	4449	4662	4875	5088	5300	3751	3893	4034	4176
3000							4333	4606	4879	5152	5425	5698	5971	6244	6517	6790	4810	4992	5174	5356
3500									6076	6416	6757	7098	7438	7779	8120	8460	5997	6224	6451	6679
4000											8233	8648	9064	9480	9895	10311				8145

CADIZ (Acryl) with ceiling console

Tensile strength at each upper fixing point, per standard wallbracket [N].

U \ B	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
1500	938	1028	1119	1210	1301	1392	1482	1573	1664	1755	1846	1937	2027	2118	2209	2300	1629	1689	1750	1810
2000			1597	1728	1859	1990	2121	2252	2383	2514	2645	2777	2908	3039	3170	3301	2341	2429	2516	2603
2500					2516	2695	2874	3053	3231	3410	3589	3768	3946	4125	4304	4483	3182	3302	3421	3540
3000							3741	3975	4208	4442	4676	4909	5143	5377	5611	5844	4152	4308	4464	4620
3500									5314	5610	5906	6202	6498	6794	7090	7386	5251	5448	5645	5843
4000											7280	7646	8012	8377	8743	9108				7209

CADIZ (Acryl) with backplate

Tensile strength at each upper fixing point, per standard wallbracket [N].

U \ B	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
1500	235	259	283	307	331	355	379	403	427	451	475	499	523	547	571	595	421	437	453	469
2000			413	448	483	518	554	589	624	659	694	729	764	800	835	870	616	640	663	687
2500					660	708	756	804	852	900	949	997	1045	1093	1141	1189	843	875	907	939
3000							987	1050	1112	1175	1238	1301	1363	1426	1489	1552	1101	1142	1184	1226
3500									1404	1483	1562	1641	1721	1800	1879	1958	1390	1443	1495	1548
4000											1921	2019	2116	2214	2311	2409				1905

10. LINKED AWNINGS

10.1. Linking with a universal joint

- The two sections are connected together at the roller tube using two stainless steel coupling discs.
- The front profile, cap, and the supporting pole are joined together to form continuous profiles using connectors.
- The fabric used is two separate sheets and is always mounted on both sections of the awning.
- $W \text{ min (per awning section) = extension + 560 mm}$

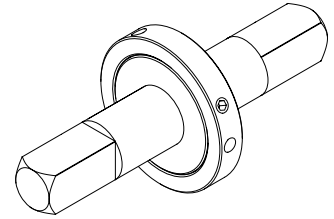


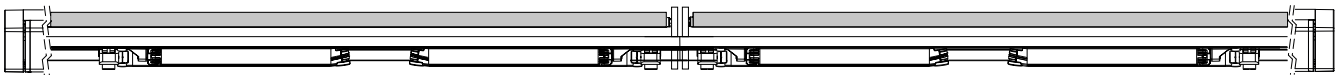
Fig. 19: Coupling discs

10.2. Linking with universal joint and fabric gap cover

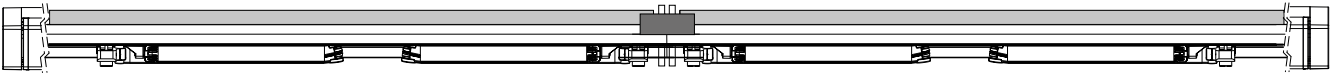
- Same as Linking with universal joint (see 10.2 above)
- The gap between the two fabrics is covered with a fabric gap cover.
- $W \text{ min (per awning section) = extension + 840 mm}$.

Linking options

Linking with a universal joint

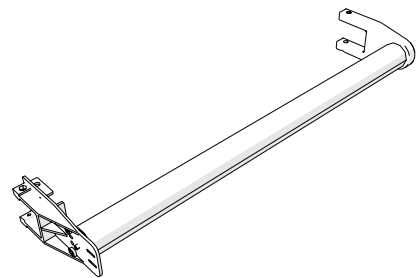


Linking with universal joint and fabric gap cover



10.3. Fabric gap cover

- A spring shaft is positioned under the fabrics at the gap
- The spring shaft is attached to two supports made of transparent plastic
- The fabric is attached to the shaft using double-sided adhesive tape.
- On the front side, the fabric is slid into the fabric groove on the front profile.
- The width of the fabric gap cover is 63 cm.
- When unrolling the awning, the front profile pulls the fabric with it and unwinds the fabric from the spring shaft; this fills the gap in the fabric.

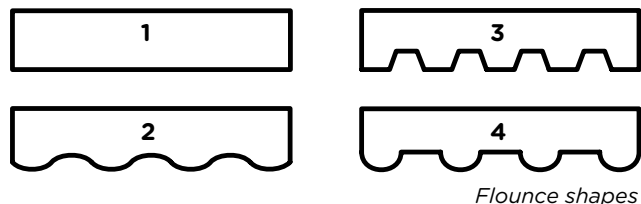


TECHNICAL SPECIFICATIONS CADIZ CASSETTE AWNING

11. ACCESSORIES

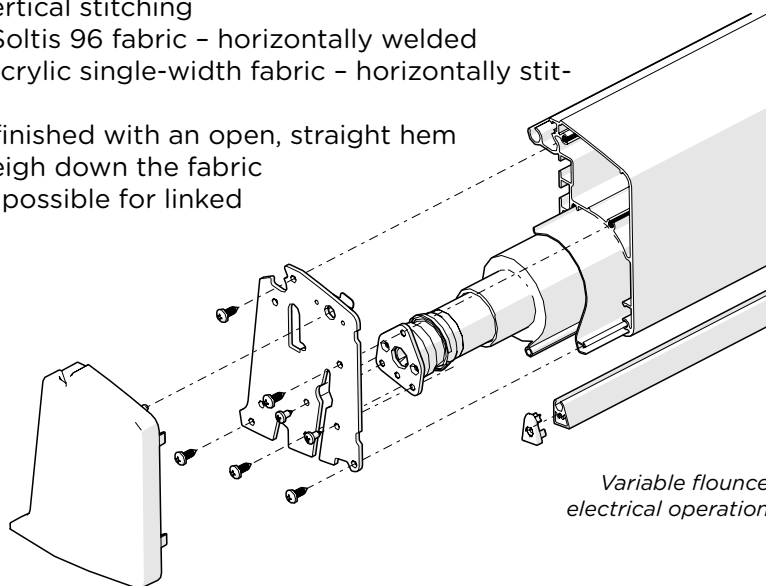
11.1. Flounce (optional)

- Optional
- Choice of four different styles
- The standard flounce height is 250 mm, other heights are available



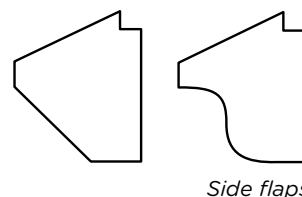
11.2. Variable flounce (optional)

- Electrically operated IO
- Rolls in and out vertically.
- Maximum width: 7000 mm for Acrylic fabric.
- Maximum roll-out height: 1400 mm for Acrylic fabric: Patterned/striped fabrics – vertical stitching.
- Maximum roll-out height: 1000 mm for Rhythm + Harmony fabrics (Opera, Symphonie, Sunbrella, Jacquard): Patterned/striped fabrics – vertical stitching
- Maximum roll-out height: 2000 mm for Soltis 96 fabric – horizontally welded
- Maximum roll-out height: 1800 mm for Acrylic single-width fabric – horizontally stitched
- The underside of the variable flounce is finished with an open, straight hem into which a dowel can be inserted to weigh down the fabric
- Only possible in one-piece awnings; Not possible for linked awnings
- Flounces are always mounted on the front profile, in the case of variable flounce:
 - Style 2 – wavy – is standard
 - Other flounce types can be selected.
 - Standard height: 250 mm.
- Do not use (leave rolled out or roll up) the variable flounce in moderate to heavy winds
- The combination of variovolant with volant is not possible.



11.3. Side flaps (optional)

- Optional
- Fitted to the side of the awning, between the box and the front profile
- Available in various standard formats or as per customer drawings
- Can be fitted when the awning is extended, must be removed before the awning is retracted



11.4. Lettering (optional)

- Available on the flounce and/or the fabric (optional)
- If lettering is applied, the standard flounce height is 300 mm

Caution: Text on striped fabrics and flounces is often difficult to read.
Please select a single-colour fabric in this case

TECHNICAL SPECIFICATIONS CADIZ CASSETTE AWNING

12. DELIVERY

- Excludes fasteners
- Protected with plastic foil and fully packaged in strong cardboard

13. USE AND MAINTENANCE

- Appropriate use will significantly extend the lifespan of the awning
- Do not use the awning as rain or wind protection
- Regular maintenance will prevent wear and performance issues
- Cleaning the frame: use soft water instead of aggressive substances (which may damage the coating and protective layers)
- Cleaning the fabric:
 - Use a stiff brush
 - Remove tough stains using a lukewarm soft soap solution (rinse thoroughly with clean water)
- Leave the fabric to dry completely before retracting it (this also applies after an unexpected shower)

14. SAFETY

For safety reasons, the awning must be installed in accordance with industry practice.

15. ORDER FORM

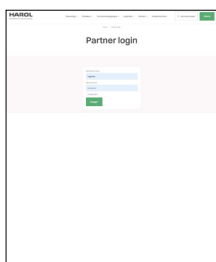
Click on link below



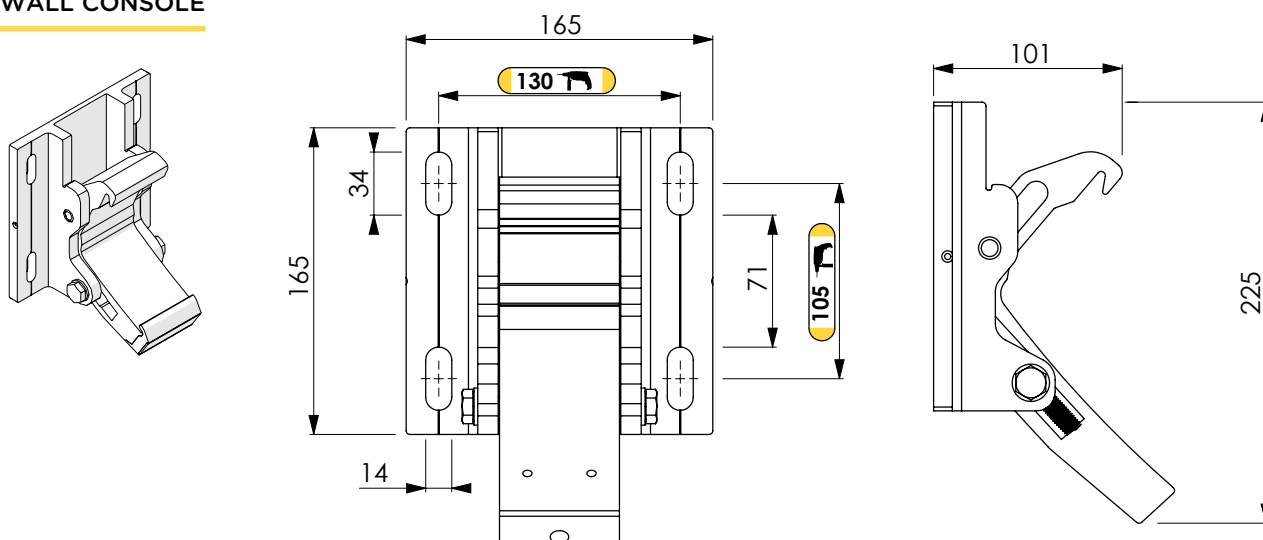
TECHNICAL SPECIFICATIONS CADIZ CASSETTE AWNING

16. TECHNICAL DRAWINGS

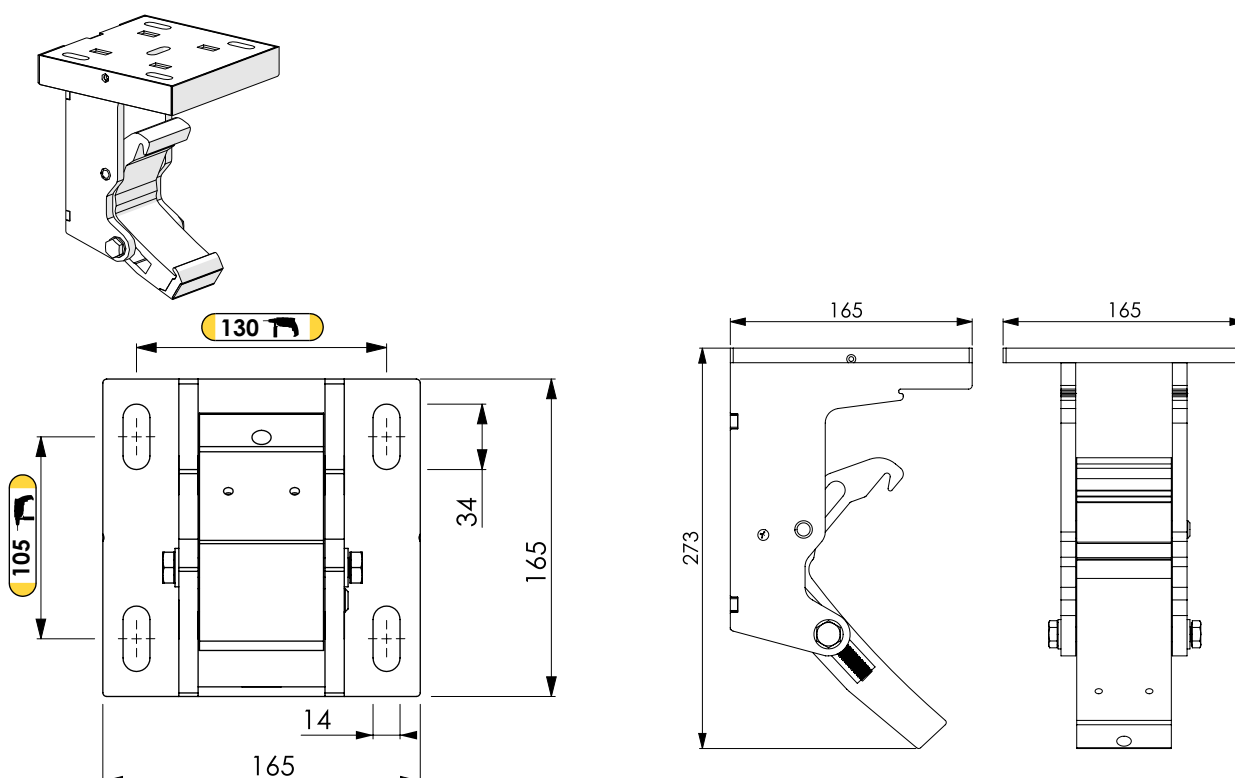
FOR DIGITAL DRAWINGS OR MORE TECHNICAL INFORMATION, PLEASE VISIT THE HAROL PORTAL
Contact our marketing team for login details or register online via www.harol.be



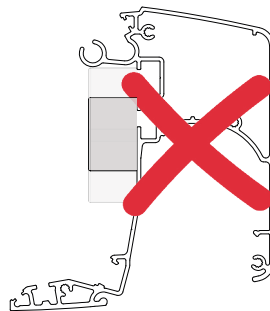
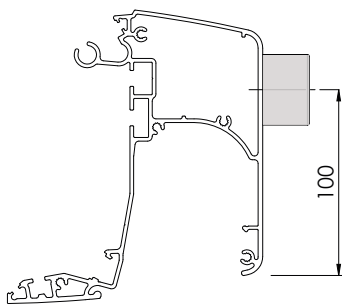
WALL CONSOLE



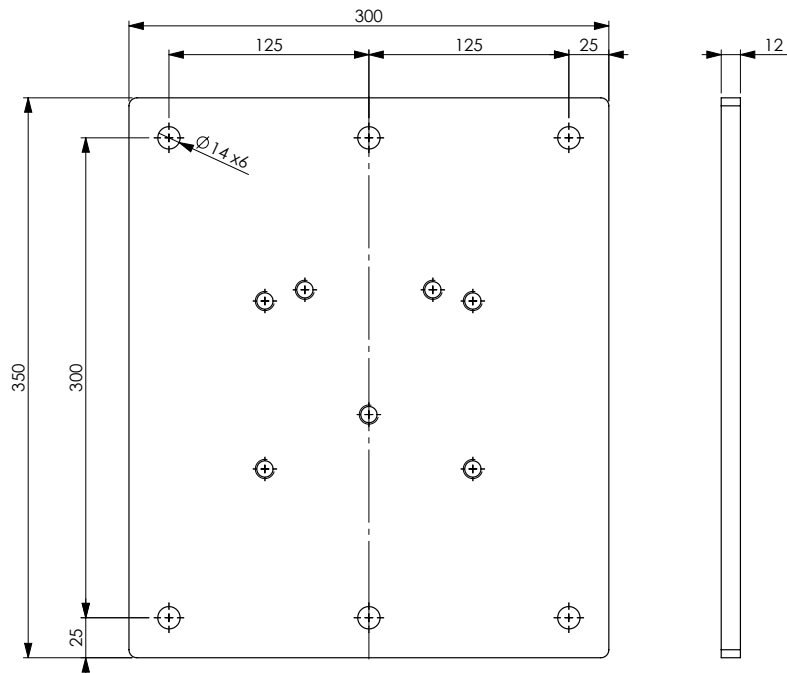
CEILING CONSOLE



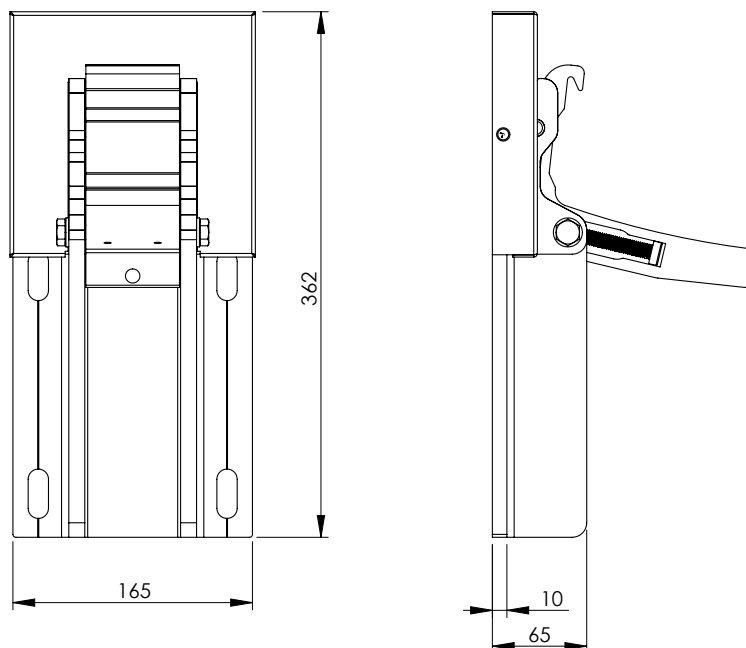
EOLIS 3D



A 3D perspective drawing of a rectangular prism. The front face is a rectangle with its bottom-left corner at the origin. The top edge is receding into the background. All 12 vertices of the prism are marked with small circles. There are 4 circles on the front face, 4 on the top face, and 4 on the right face.

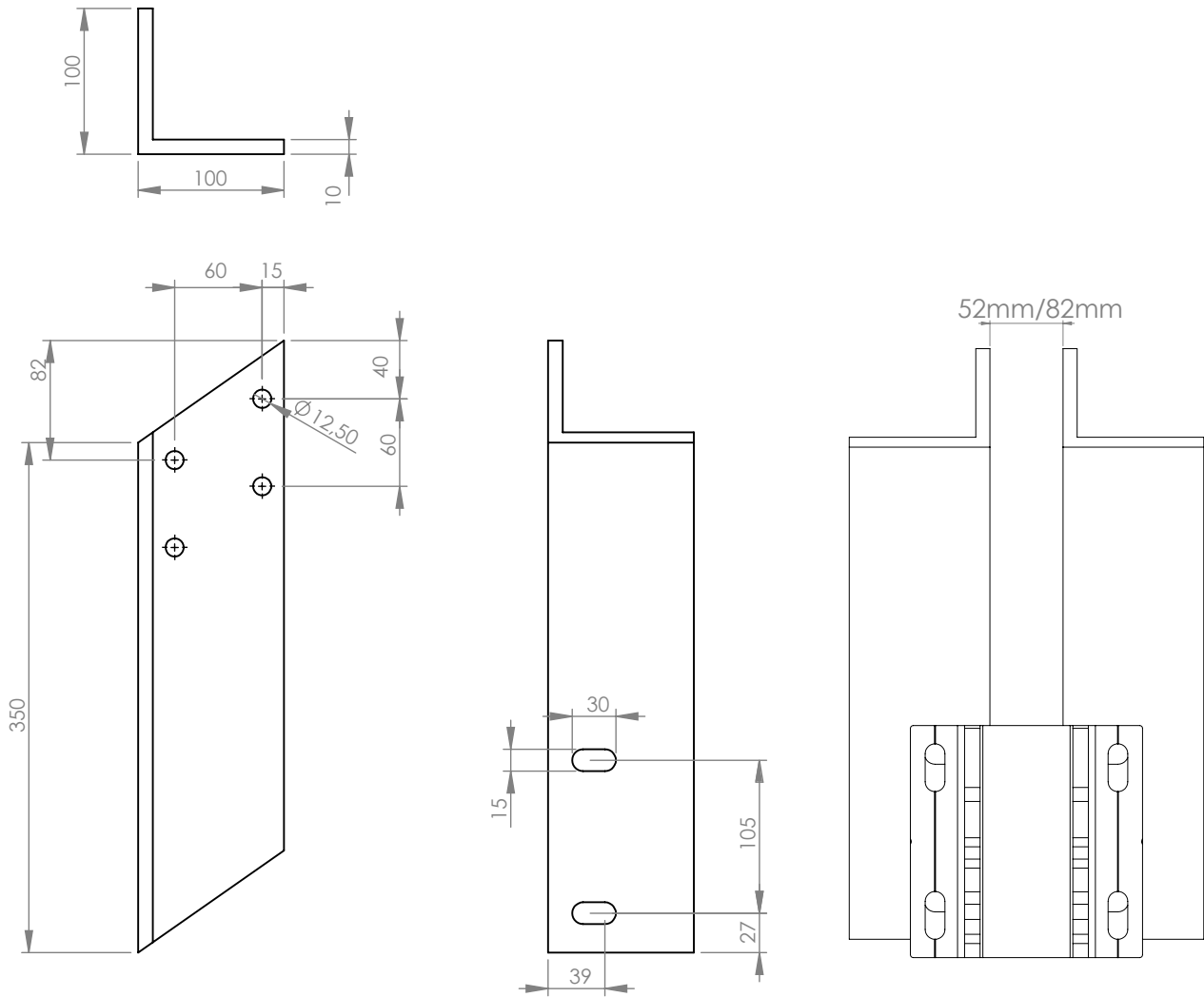


A technical line drawing of a mechanical assembly, likely a door handle or latch mechanism. It features a vertical rectangular plate on the left with a handle and a horizontal plate attached to its right side. The handle has a curved grip and a locking mechanism. The horizontal plate has a small rectangular cutout and a circular hole. The drawing is a perspective view showing the front and side of the components.

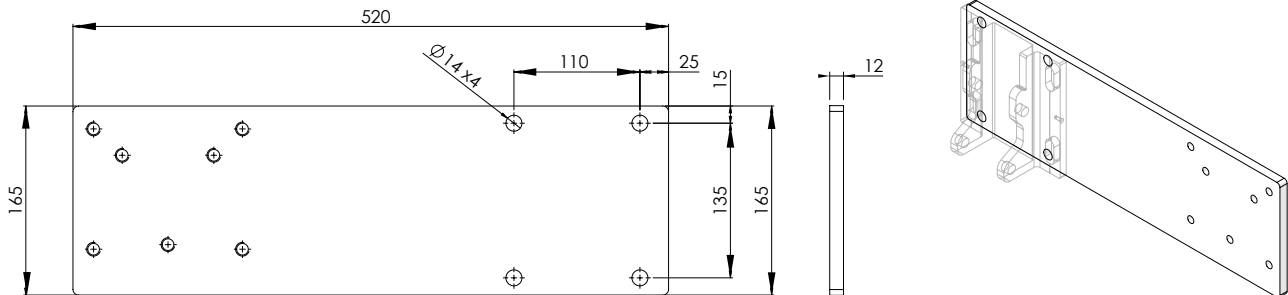


TECHNICAL SPECIFICATIONS CADIZ CASSETTE AWNING

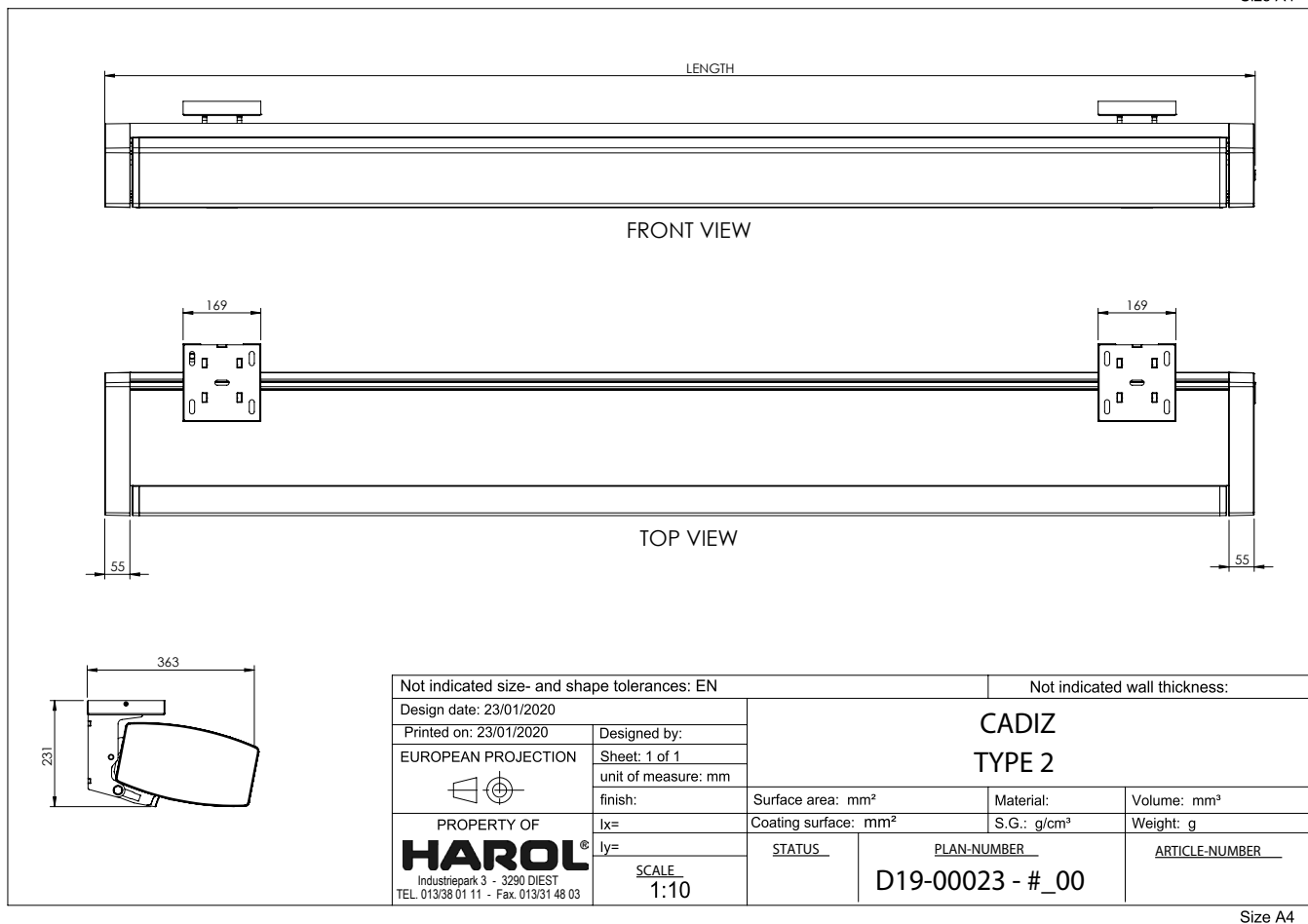
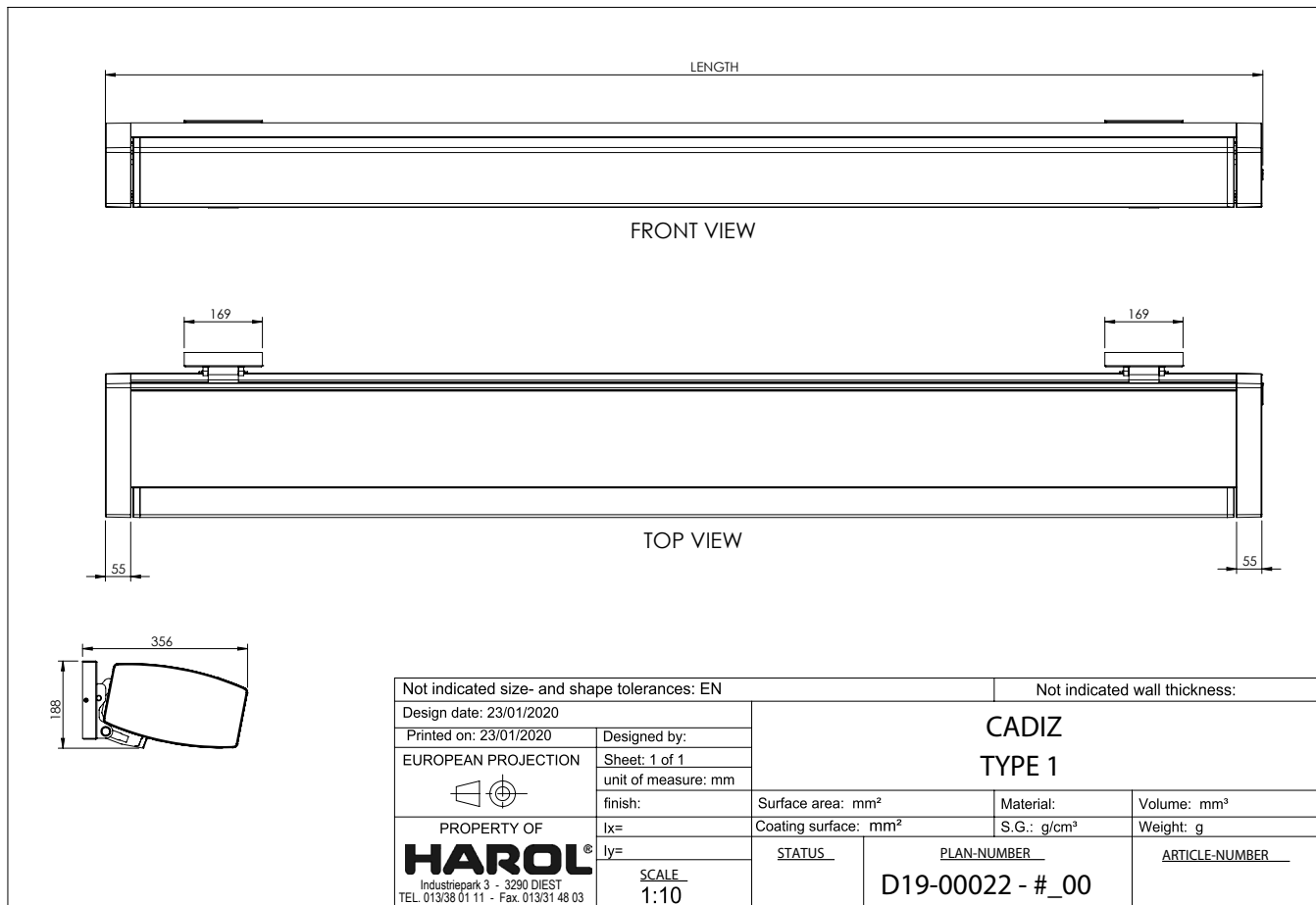
Roof truss console



Side plate wall console: (A2746)



TECHNICAL SPECIFICATIONS CADIZ CASSETTE AWNING



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Notes

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