

TECHNICAL FACT SHEET

COOLSCREEN 8 **PURE**

Pure

Pure Solar

COOLSCREEN COLLECTION

archiproducts®
AWARDS
WINNER

COOLSCREEN 8 SOLAR

archiproducts®
AWARDS
WINNER
SUSTAINABILITY

COOLSCREEN 8 PURE (SOLAR)

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Harol reserves the right to make product changes without prior notice.

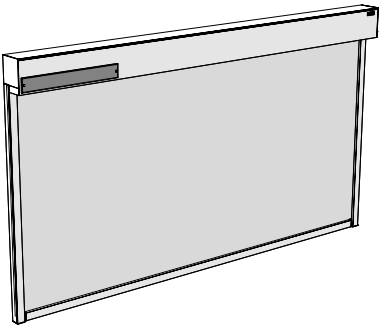
Coolscreen 8 Pure - (Solar)

GENERAL

The COOLSCREEN is a vertical outside sun protection solution with a special 'zip system' to hold the fabric in the guide rails at every height.

Consists of:

- a box with roll-up shaft and control unit.
- a special polyester or glass fibre fabric that is rolled up inside the box.
- guide rails.
- a weighted bottom slat which:
 - ✓ **keeps the fabric taut.**
 - ✓ **ensures proper guidance of the screen fabric.**



The COOLSCREEN comes with a zip system:

- ensures the fabric remains properly tensioned at every height of the bottom lath and prevents the fabric from pulling out of the guide rails.
- to do so, the fabrics are fitted with a zip on the left and right hand side.
- the thick part of the zip slides into a plastic guide profile which in turn is inserted into the aluminium guide profile.

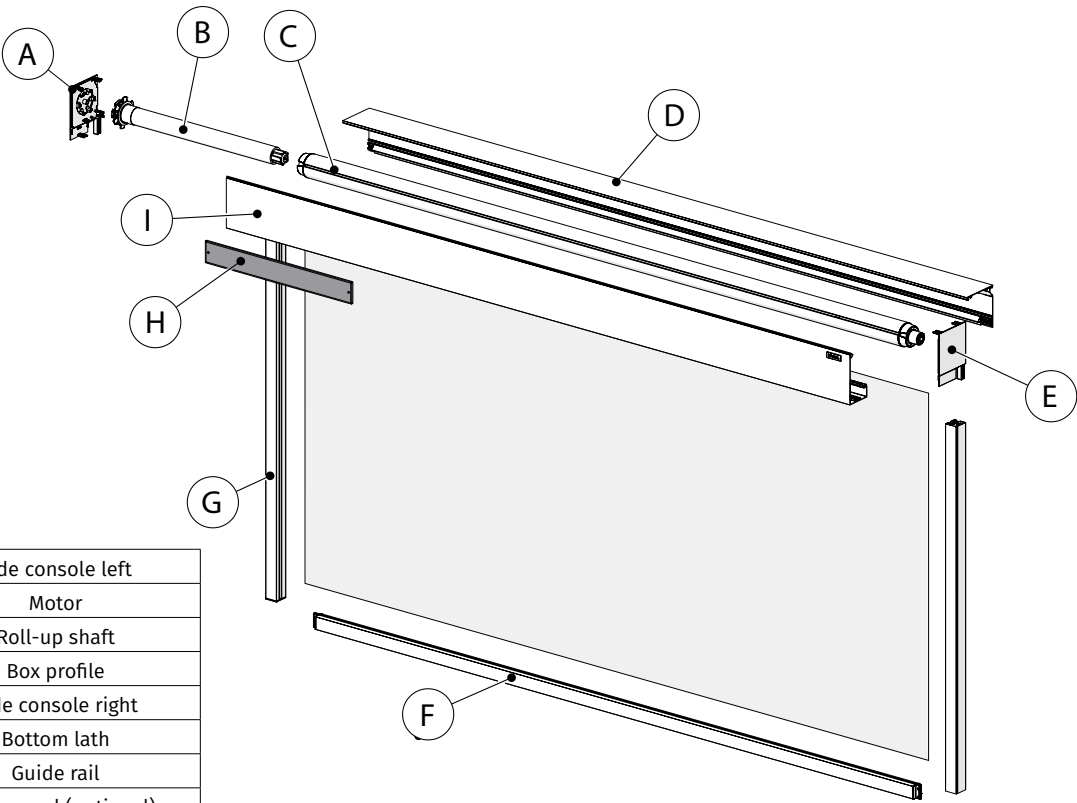
Screens offer:

- excellent sun protection and obscuration.
- outward view in daylight when in a lowered position.
- class 3 wind resistance.

Available colours: consult the colour chart in the sun protection price list and the fabric collection swatches.

differences from COOLSCREEN 8 :

- square box 90 only.
- limited width (3000mm) and height (2500mm).
- Harol motor
- limited fabric range (17) and limited colours (10 colours & 34 powdercoats).
- no multiple screens or box extensions.

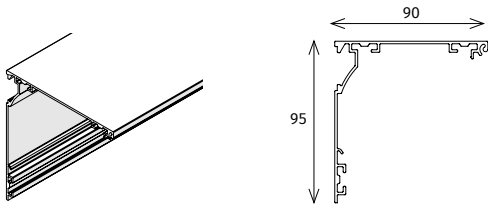


A	Side console left
B	Motor
C	Roll-up shaft
D	Box profile
E	Side console right
F	Bottom lath
G	Guide rail
H	Solar panel (optional)
I	Cover

INDIVIDUAL PARTS

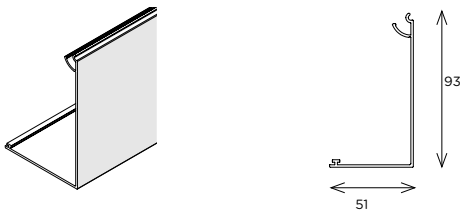
Box

- Material: extruded aluminium with powder coating anodised.



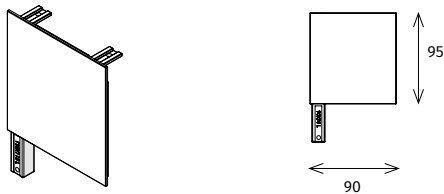
Cover

- Material: extruded aluminium with powder coating anodised.



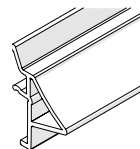
Side console

- Material: extruded aluminium with powder coating anodised.



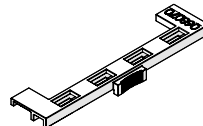
Fabric guiding profile

- Material: plastic (ABS)
- Function:
 - ✓ **mounted on the box profile.**
 - ✓ **guides the fabric out of the box.**
 - ✓ **used as a stop of the bottom lath across the entire width of the box profile.**
 - ✓ **must be present to ensure a smooth fabric.**



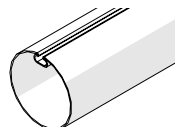
Box cover lock

- Material: PA6 GF30 (polyamide reinforced with 30% glass fiber)
- Function: screwless locking of the box cover.



Shafts

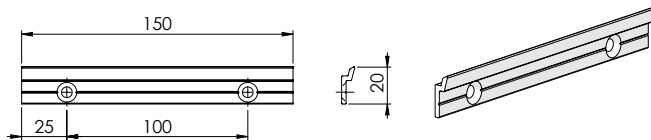
- Material: round welded tube made from zinc-plated zendimir strip.
- Function: rolling the fabric up and down.
- Fitted with a groove to secure the fabric.
- SHAFT Ø63 x 0.9 mm



Assembly bracket

STANDARD ASSEMBLY BRACKET (optional A2571, standard on MT2 & MT5)

- Material: extruded aluminium with powder coating.
- Function: **used for normal fitting against a wall.**
- The number of assembly brackets supplied always depends on the screen width.
- Additional brackets available
- Available at the desired length (optional A2592)



NUMBER OF BRACKETS SUPPLIED

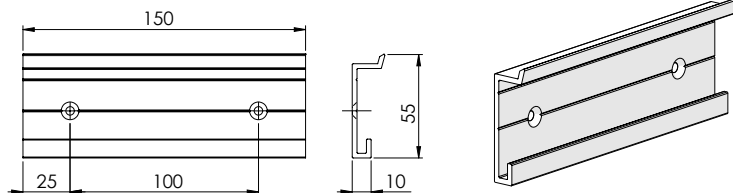
WIDTH OF THE SCREEN (mm)	
≤ 1500	1501 - 3000
2	3

ASSEMBLY BRACKET WITH FILL-OUT (optional A2572)

- Material: extruded aluminium with powder coating.
- The number of assembly brackets supplied always depends on the screen width.
- Additional brackets available
- Available at the desired length (optional A2593)

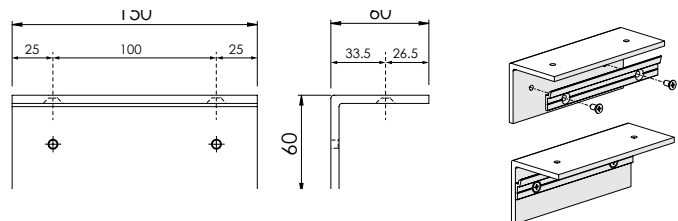


When fitting the brackets, factor in an additional vertical clearance of **10 mm** to hook in the screen box. See drawing p. 7



ASSEMBLY BRACKET CEILING (optional A1674)

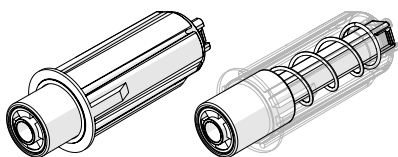
- Material: extruded aluminium with powder coating.
- The number of assembly brackets supplied always depends on the screen width.
- Additional brackets available



WITHOUT ASSEMBLY BRACKET (optional A1672 - customer provides own suspension)

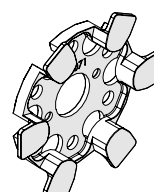
Spring-loaded gudgeon

- Easy removal and returning of the shaft.



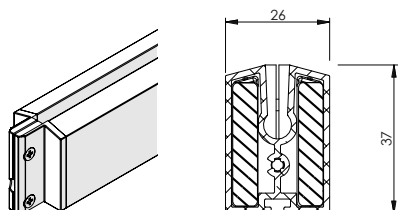
Motor bracket

- Material: plastic.
- Function:
 - ✓ **secures the motor inside the box.**
 - ✓ **allows for motor cable over-length.**



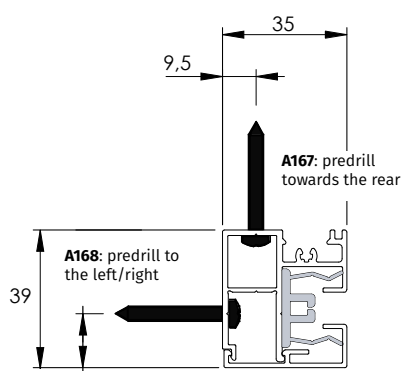
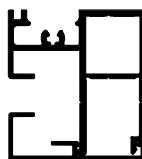
Bottom lath

- A weighted bottom lath with sliding blocks that:
 - ✓ **keeps the fabric taut.**
 - ✓ **ensures proper guidance of the screen fabric.**
 - ✓ **weighting => 2.9 kg/m (maximum 5.8 kg)**

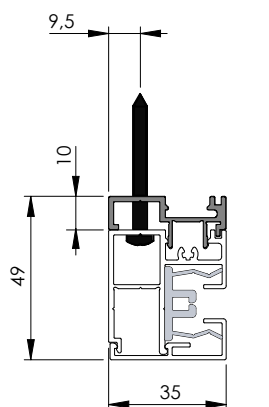


Guide rail (801) - (802)

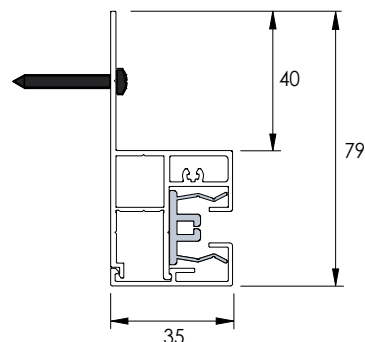
- Material: extruded aluminium with powder coating.
- 2-piece guide rail.
- No visible screws.
- Possible fill-out per 10 or 20 mm (maximum 50 mm).
- Allows for lateral and frontal fitting.
- Fits all models.
- Fastening bolt: DIN 7981 4.2 x 32 mm
- Please note! When using fill-out parts, longer screws are required.



Standard lateral guide 801



Standard guide rail 801 with (optional) 10 mm fill-out profile



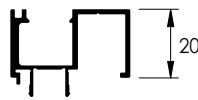
Lateral guide 802 with mounting flange



Optional* (A2418):
finishing profile guide rail
*(standard with fitting type 1)



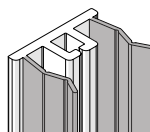
Optional (A2594):
fill-out part for guide rail 10 mm
(maximum total fill-out 50 mm)



Optional (A2595):
fill-out part for guide rail 20 mm
(maximum total fill-out 50 mm)

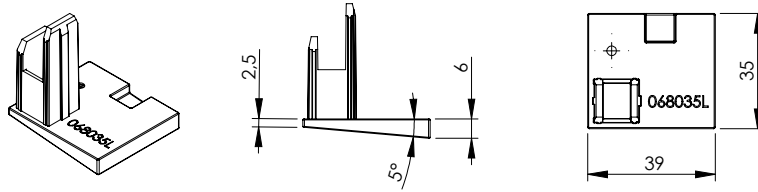
Zip guide profile

- Material: co-extrusion plastic
- Function:
 - ✓ **keeps the fabric taut.**
 - ✓ **ensures that the fabric stays inside the guide rails.**



End stop for guide rail

- Optional A2581
- Material: plastic.
- 3 versions:
 - ✓ **flat**
 - ✓ **flat with break-off capability**
 - ✓ **at an angle of 5° (only for use with fitting types 2 & 5)**



Box rear finish

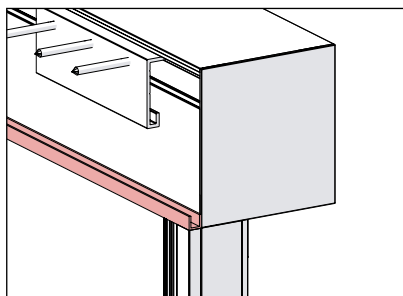
- The space between the box and the wall may be filled up with a U-profile (10x10x10 mm). Its length is determined by the box size.
- U-profile - horizontal**

U-profile - horizontal

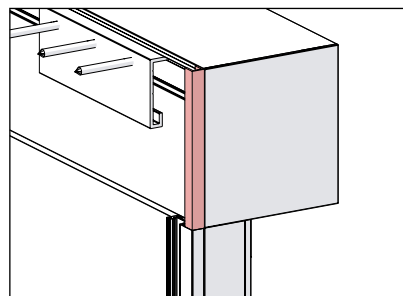
- Option A3554: mounted on rear of box with double-sided tape.
- Option A3666: supplied separately (without fastening materials).

U-profile - vertical

- Option 3675: mounted on rear of box with double-sided tape.
- Option 3676: supplied separately (without fastening materials)



OPTION (A3554 / A3666)



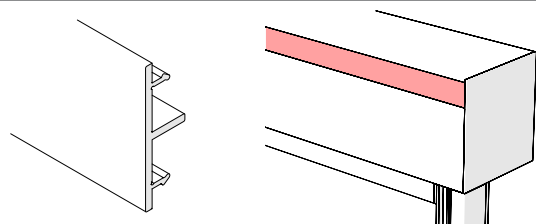
OPTION (A3675 / A3676)

- **tubular profile 35 x 20 x 2 mm**
 - Supplied separately in all cases.
 - Order by length.
 - item no. 068089

- **tubular profile 35 x 35 x 2 mm**
 - Supplied separately in all cases.
 - Order by length.
 - item no. 006430

Finishing profile

- Material: extruded aluminium with powder coating.
- ditto for box and guide rail.
- Standard for fitting type 1, available as an option for other fitting types (A2570).



OPERATION

- Two operating systems available for all box sizes:
 - ✓ **ELECTRIC OPERATION (standard)**
 - ✓ **SOLAR OPERATION.**
- Customer's choice, considering the allowed width and height.



Be careful when determining the operating side.

OUTDOOR FITTING: control is always seen from the outside! (the fabric sits on the outside of the window)

INDOOR FITTING: control is always seen from the inside! (the fabric sits on the inside of the window)

Electric operation

AXLE SIZE	OPTION	MOTOR TYPE	WIDTH		HEIGHT		CABLE LENGTH	
			MIN.	MAX.	MIN.	MAX.	WHITE (VVF)	
							2,5M	5M
AXLE Ø63	A1675	Harol MASTER 50 - 17 TPM	770	3000	400	3000*	S	X
	A1676	Harol OPTIMA 50 - 17 TPM	770	3000	400	3000*	S	X

* Except for 'BLOCKOUT SERGE 600 LUNAR' : max. 1900 mm

S: Standard

X: Optional

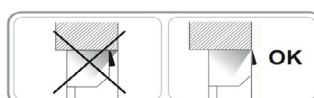
- The motor control buttons are always easy to reach.
- For group operation and automation: see Harol Home Automation catalogue.
- Please note: The motors have an running time of ± 4 minutes, after that they switch to thermal security mode. (see motor manual)

SOLAR operation

SOLAR SCREEN = COOLSCREEN WITH SOLAR MOTOR (SOLAR PURE 50 - 12 TPM) + SOLAR PANEL

OVERVIEW MOTOR, SOLAR PANEL AND BATTERY

	Harol SOLAR PURE 50 - 12 TPM (A1677)
MOTOR	
Motor type	SOLAR PURE
Power / speed	10 Nm / 12 tpm - 20 Nm / 12 tpm
Diameter	Ø 50
Voltage	12 V DC
Protection class:	IP65
ZONNEPANEEL	
Panel type	Monokristallijn
Dimensions	62x600x4 mm
Power	5 W
Lifetime	> 20jaar
Protection class:	IP65
BATTERIJ	
Battery type	Li-ion
built into motor	
Solar panel is always on the motor side, standard on the cover.	



Garantie

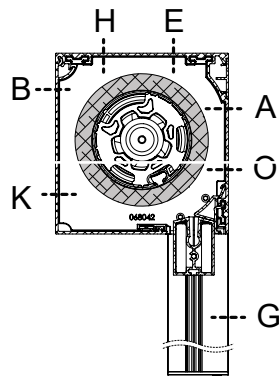
- The warranty on the motor, solar panel and battery is 5 years.
- If north-facing, 1 cycle per day is guaranteed.
- Make sure sunlight reaches the solar panel when fitting the screen.

OPERATING EXITS

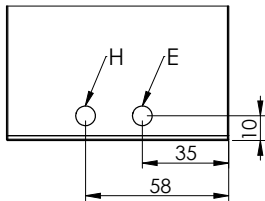
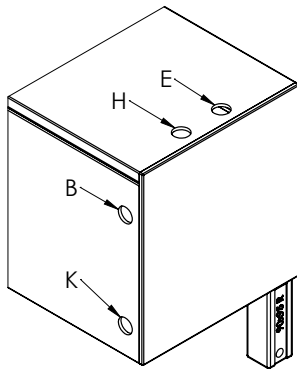
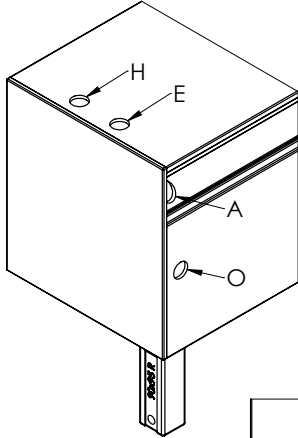
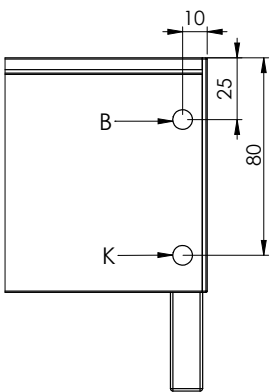
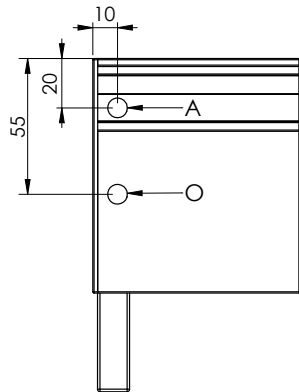
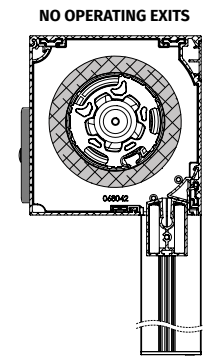
		O	A	E/H	B	K	G
		90	90	90	90	90	90
Type 2 & 5	Motor	X	X	X			X
	Solar (antenna)		X				
Type 1	Motor			X	X	X	X
	Solar (antenna)				X		

X possible

Coolscreen 8 Pure



Coolscreen 8 Pure Solar



FABRICS

Various types of fabric can be used on the COOLSCREEN. There is a choice of the following qualities:

	SOLTIS 7635	SERGE 5%	BLOCKOUT SERGE 600 LUNAR
BASIC MATERIAL	Glass fibre	Glass fibre	Glass fibre
WEIGHT (G/M ²)	515	535	660
THICKNESS (MM)	0,73	0,74	0,78
FIRE CLASS EN 13501-1	C-s3,d0	C-s3,d0	-
FIRE CLASS NFP 92503 (F)	M1	M1	-
ROLL WIDTH (MM)	3200	1900 / 2700	2100
OPENING FACTOR	5%	5%	0%
GTOT*	0,04 - 0,08	0,01 - 0,10	0,02 - 0,09
STRIPE DIRECTION	Horizontal		
TREATMENT	Welded		

* This value indicates how much (heat) radiation the glass blocks.

The lower the Gtot value, the more solar thermal radiation the fabric and glass block.

** Standard roll width is 2700 mm. If a roll width of 3200 mm is required, please inform customer service.

1. Soltis 7635 fabric

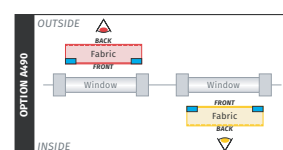
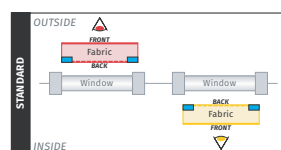
- Transparent and light-inhibiting fabric
- Woven with glass fibre yarn:
 - ✓ **precoated with a synthetic material based on polyvinyl chloride.**
 - ✓ **coloured in mass.**
 - ✓ **fixed with a Plastisol layer.**
- The front or right-hand side of the fabric goes on the outside or visible side.

- Blackout film is applied to the window side as standard for all fitting types.
- For exterior mounting, the bottom slat and fabric may rise up slightly in case of heavy wind loads. Which is why 100% blackout cannot be guaranteed at all times.
- For the Blockout Lunar fabrics, the zips on the Soltis are welded to the fabric on the window side.

2. Serge 5% fabric

- Transparent and light-inhibiting fabric
- Woven with glass fibre yarn:
 - ✓ **precoated with a synthetic material based on polyvinyl chloride.**
 - ✓ **coloured in mass.**
 - ✓ **fixed with a Plastisol layer.**
- The front or right-hand side of the fabric goes on the outside or visible side.
- **Please note! For Serge 600 fabrics, screens with a height greater than 1630/2430**

EXECUTION OF A FABRIC HEM AND TURNING OF THE FABRIC VIA OPTION A490



Key



* Front for Soltis 7635 / Serge 5%
* Serge 600-zijde bij Block out Lunar

* Back for Soltis 7635 / Serge 5%
* Foil side for Block out Lunar



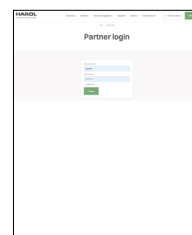
Reinforcement band / Zip

3. Blockout Lunar fabric

- Opaque, black-out fabric consisting of woven glass fibre yarns and a blackout film on the back.
- The glass fibre yarns are precoated with a synthetic material based on polyvinyl chloride, coloured in mass and fixed with a Plastisol layer.
- Fabric is suitable for both indoor and outdoor use.

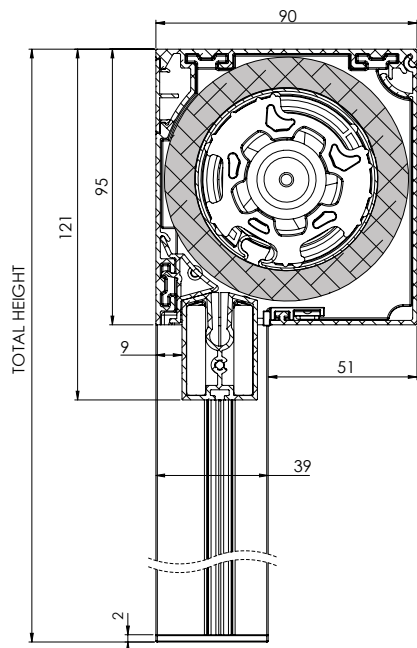
ORDER FORM

For digital drawings or more technical information, please visit the "Harol portal"
Contact our marketing department for login details or register online at the website www.harol.be

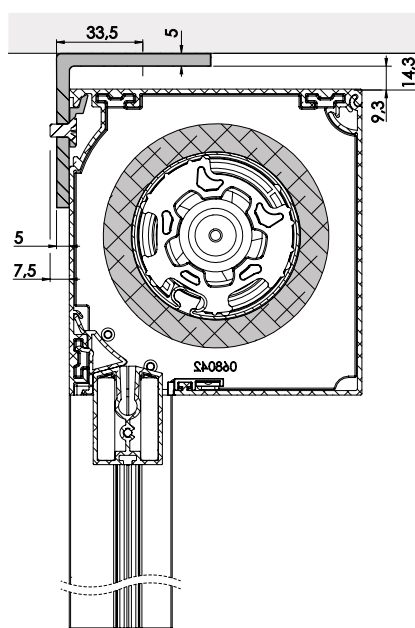


TECHNICAL DRAWINGS

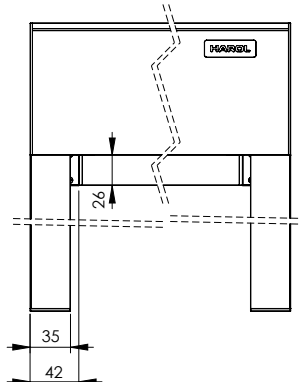
COOLSCREEN 8 PURE 90X95



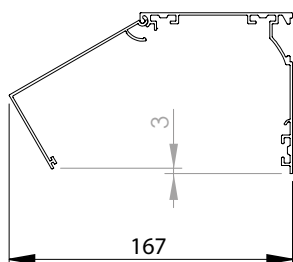
PLAFONDBEUGEL (MM)



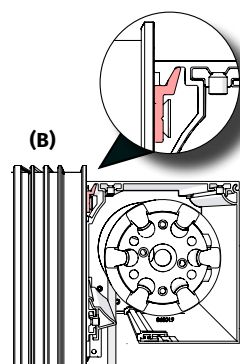
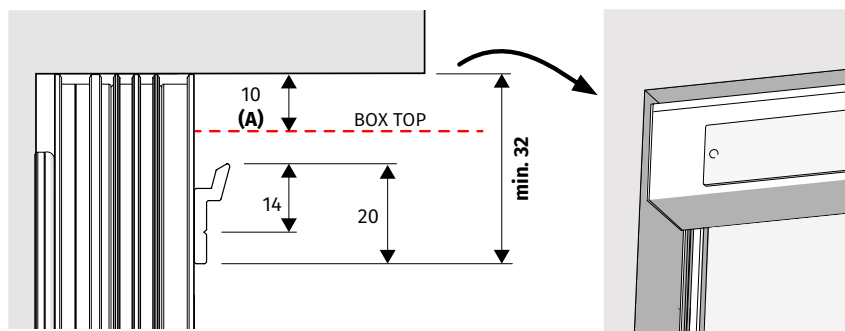
BOTTOM LATH POSITION (mm)



SPACE TO BE PROVIDED TO OPEN BOX (MM)



SPACE PROVIDED FOR MOUNTING WALL BRACKET (mm)



HAROL

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