

SINCE 1942

WWW.ARCOL.ES

75TH
ARCOL 



1942

2017

ARCOL  **75TH**



R&D
QUALITY
 DESIGN
PRODUCTION
 EXPERIENCE
MANUFACTURING
 SUSTAINABILITY
TECHNOLOGY
 SAFETY
FLEXIBILITY
 TAILORING
SERVICE
 CUSTOMER CARE
INNOVATION

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75TH



ABOUT US



R&D

Our qualified team of designers and engineers turns ideas and projects to 3D designs and prototypes



DESIGN

Following latest trend in innovation, we launch new and exclusive products, most of them, adapted to customer requirements



MANUFACTURING

At our premises, we do produce for different markets with a strict Quality control that enables us to have ISO 9001 and ISO 14001 certifications so as the homologations for all our products



INJECTION

This division enables us to produce our plastic components and have a better control over the whole process



QUALITY CONTROL

Innovation, safety and personalization would not be possible without an accurate quality control both in laboratory and during the entire production process



CUSTOMER SERVICE

From the first steps of design, through production, quality control to After Sales, we do support our customers offering technical assistance



“On the right track”

INTERVIEW

Raül Colom

GENERAL MANAGER

Q. INDUSTRIAL ARCOL reaches 75 years. How was the beginning?

A. Our path began in 1942, in my grandfather's workshop in Barcelona, producing from Rear-View mirrors for motorcycles and cars, lighting fixtures, horns... to the mirror of the legendary Biscúter. My father continued this work and so we grew. In the 70's we were already exporting and in the 90's we moved to Sant Adrià del Besós.

Q. What have been the most outlined changes throughout your career?

A. As in the majority of companies in our country, the most significant change has been the integration of new technologies. This has allowed us to improve our processes and our quality system, while we have added new products... that is, we have grown. In fact, in 2008 we moved to new and much larger facilities in La Roca del Vallès

Q. Which are your main business divisions? To what industries are you focused?

A. The main activity are the Rear-View, lights and sunblinds. In the last years and with the integration of new technologies into our products, we have

incorporated driving assistance systems such as cameras and monitors. Our range of products could be found in Buses, Coaches, Motorhomes, Trains, Trams, Special Vehicles...

These 75 years would not have been possible without our partners and customers

Q. To what factors can be attributed your success?

A. To achieve 75 years as a successfully family business is the result of the effort and dedication of our team, partners and suppliers but above all, thanks to our customers. This would not have been possible without all of them.

“I think the best is yet to come”

Q. What does it make you different from other companies in the industry?

A. The differential factor of Arcol is our aim of service towards customers. All our equipment, R & D, Quality, Production... is totally involved in working to offer the most innovative, technological and safe solutions for our client, As well as customize our products according to customer request.

Q. How do you see the future of Arcol?

A. We will work following our philosophy of innovation, improvement for the driving safety and definitely offering to our customers this global service from their first idea to the final product.

Although I think the best is yet to come.





1942

Start-up of the company with the production of accessories for vehicles such as the rearview mirror for the BISCUTER

1942

In this decade the manufacture of lamps and mirrors for motorcycles DKW and Citroën cars began

1950



2008

We keep growing and we moved to our new premises at La Roca del Vallès. Arcol is now present in over 40 countries



1960

We design and manufacture products still useful in the present market

1960



2010

We do introduce the first mirror with integrated cameras and get the ISO 14001 Certification in Environment

2010

The international expansion starts with the first exports and the assistance to national fairs

1970



2012

Cameras and monitors are included as system for the driving assistance, with the compromise for the safety on the road



1980

We widen our range of products with the sunblinds. In 1987 we exhibited for the first time at the fair of the Barcelona Motor Show

1980



2015

Latest innovation in design, technology and aerodynamics in mirrors for buses and coaches: the new Born series

2015

This is the decade of growth: new headquarters, assistance in trade fairs (FIAA Madrid) and obtaining the ISO 9001 Certification of Quality

1990



2016

We develop exclusive products as per customer needs and strengthen the Taylor Made area



2001

The 300 Series is launched to the market. These are the first mirrors integrated in the bodyworks and with a design much more innovative as already done. We are exhibiting for the first time at international fairs (Busworld in Kortrijk, Belgium).

2001



TODAY

... After 75 years we are still on the way

today

HISTORY



INDUSTRIES



COACH

Our wide experience in this industry allow us to cover all needs for each client. Aerodynamic products as a result of exclusive designs



CITY BUS

Under the premises of safety and design together with the latest technology to get the best visibility in the cities



MINI BUS

Innovation, security, design... adapted to smaller buses to achieve the maximum functionality within the cities



MOTORHOME

Concept of travel, enjoying the journey... that is adventure but without forgetting safety and design, comfort and functionality and of course the newest technology



SPECIAL PURPOSE VEHICLES

This market is also our target: strong and resistant products along with the latest technology also suitable for these vehicles: cameras, GPS and surveillance systems



TRAIN / TRAM

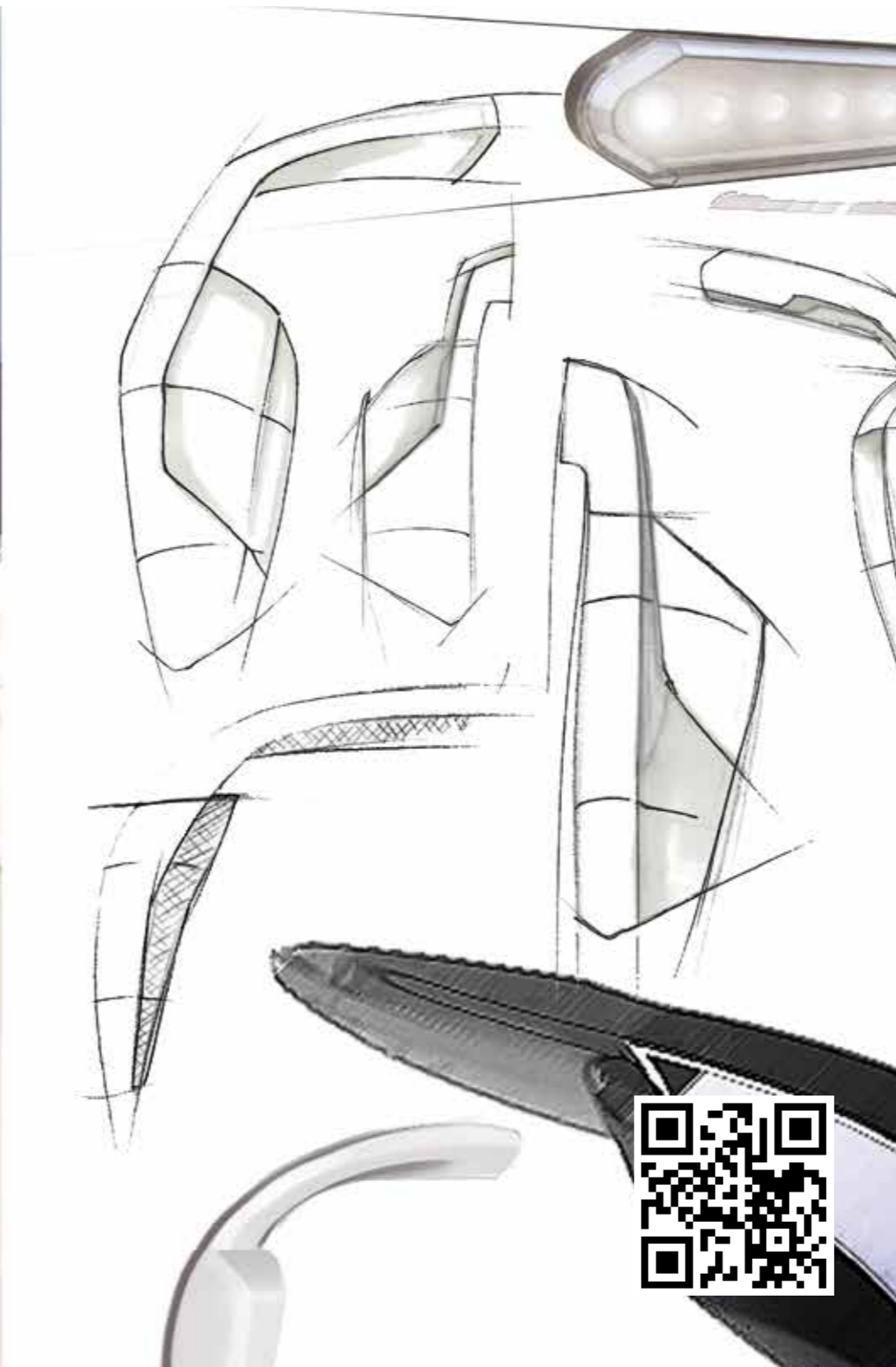
Special developments also suitable for the railway and tram industry. We do highlight the electrically folding systems, which become essential when arriving at the rail station



TAILOR MADE PRODUCTS

Our products **are adapted** to the needs of the client

From the initial concept till the final product, our design department is focused in **figure out the specific requirement of our customer.**



Mod. 344



Mod. 354



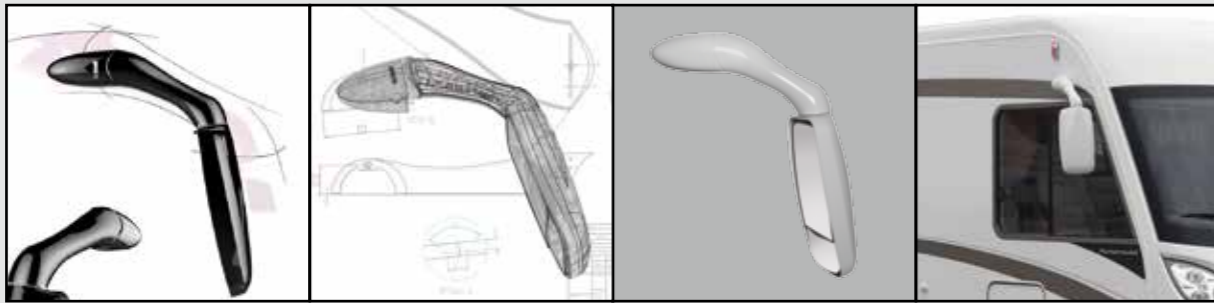
Mod. 412



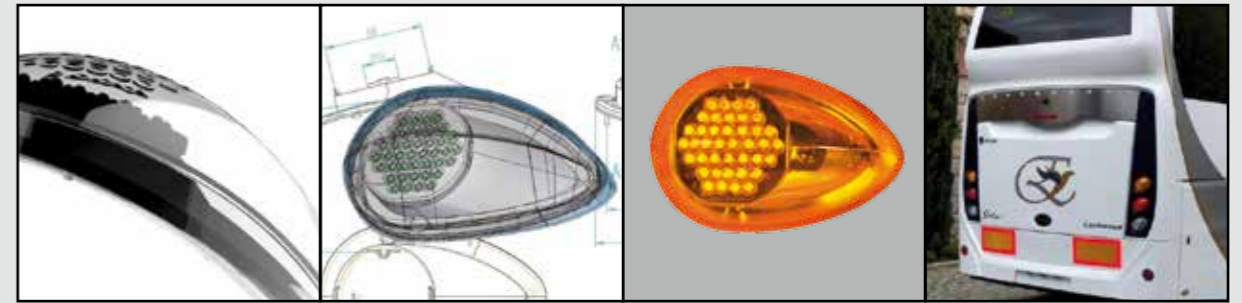
TAILOR MADE PRODUCTS

AS PER CUSTOMER REQUEST

REAR VIEW MIRROR. Model 344



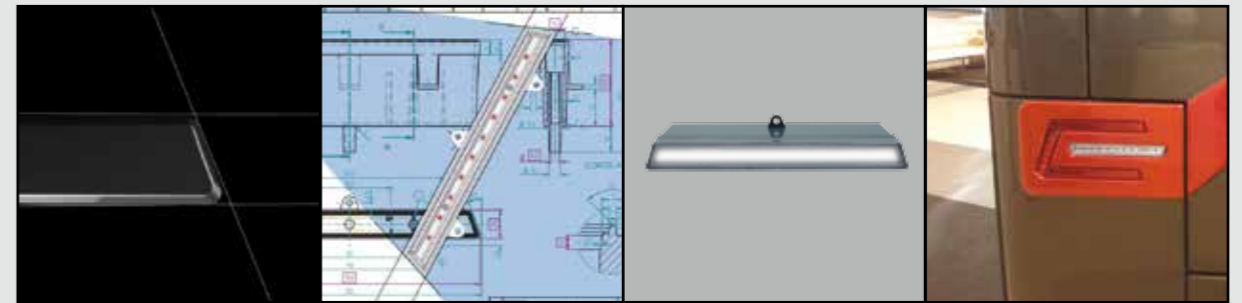
LED LAMP. Model 412



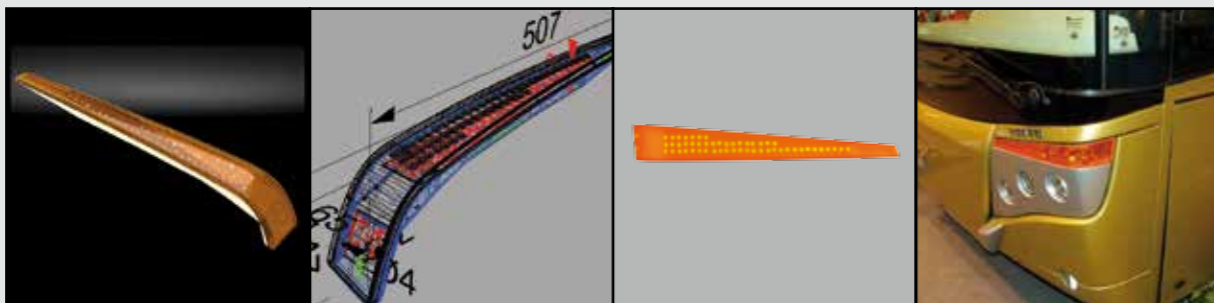
REAR VIEW MIRROR. Model 354



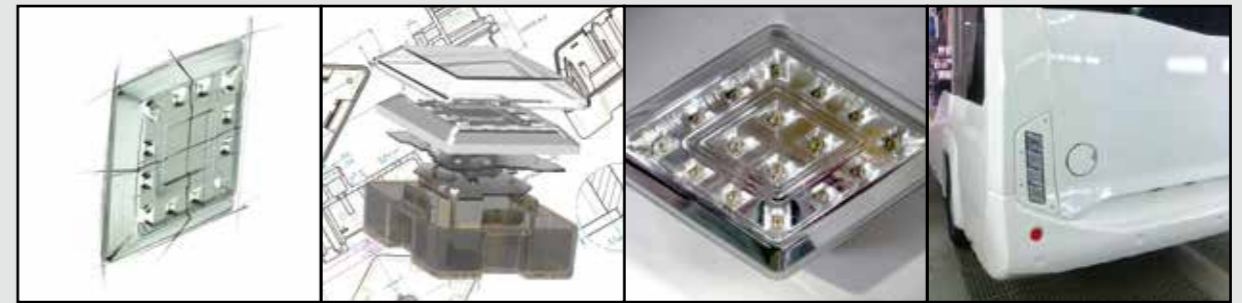
LED LAMP. Model 420



LED LAMP. Model 411



LED LAMP. Model 422





TOTALLY INTEGRATED
INTO THE COACH
STYLIZED MIRROR
AERODYNAMIC SURFACE
PERFECT VISION



SERIE BORN

Top of the range

New Born mirror as the new concept for **stylized and aerodynamics design** only suitable for big size vehicles and optimizing the perfect view of all categories



Mod. 350/331



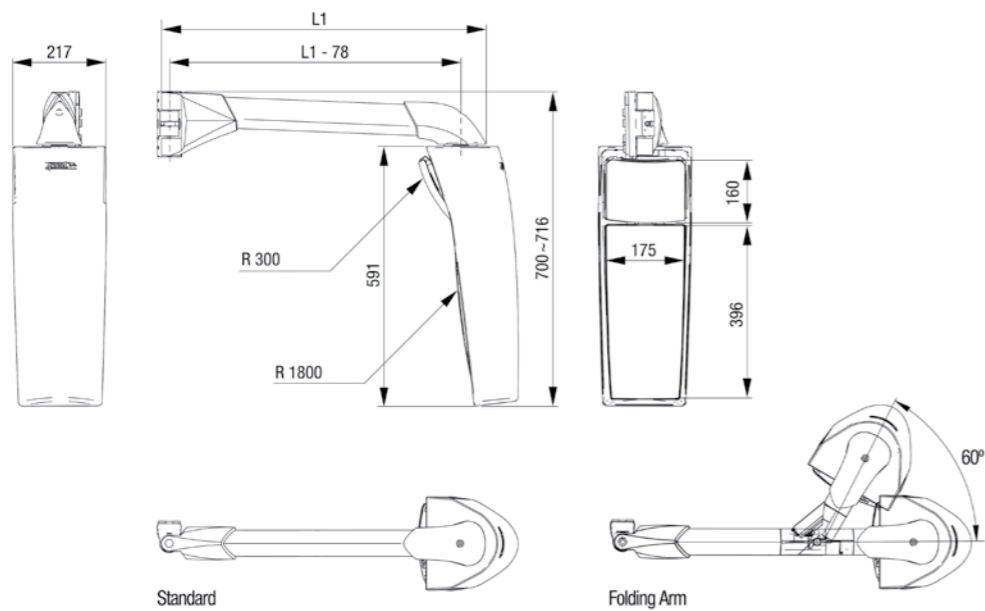
Mod. 351



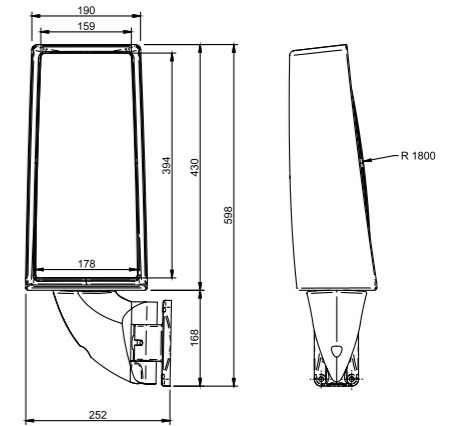
SERIE BORN

Born 350/331

NEW



Born 351



Main Features & Options



SERIE BORN	< 2m.	ELECTRICAL	HEATED	RADIO ANTENNA	COURTESY LIGHT	BRACKETS				CATEGORY OF VIEW			
						FIX	FIX & FOLDING	PULL OUT	FOLDING PULL OUT	II	IV	V	VI
351	✓	OP	OP	OP	-	OP	OP	OP	OP	✓	OP	-	-
351-2	✓	OP	OP	OP	-	OP	OP	OP	OP	✓	✓	-	-
350/331	-	OP	OP	OP	-	OP	-	✓	OP	✓	✓	OP	OP

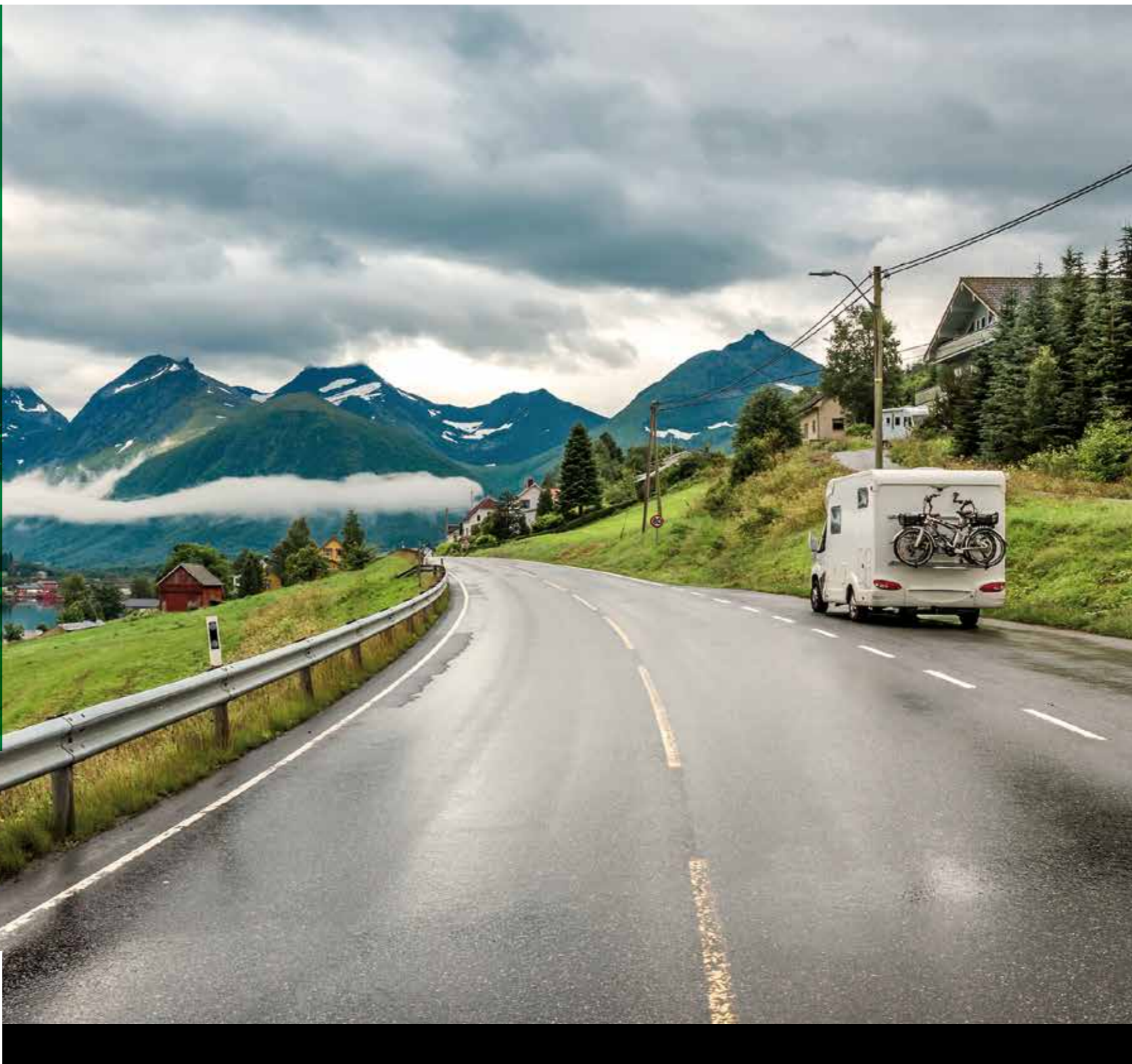


NEW MIRROR
FOR MOTORHOME
NEW DESIGN CONCEPT
FOLDING BRACKETS
BICOLOR

SERIE 345

New **Motorhome** and **MiniBus** Solutions

Following the latest trends, this new mirror for the Motorhome, Mini and Midi bus **shows how innovation and designs meet in an unique product.**



Mod. 345



Mod. 345-143



Mod. 345-250



SERIE 345

345

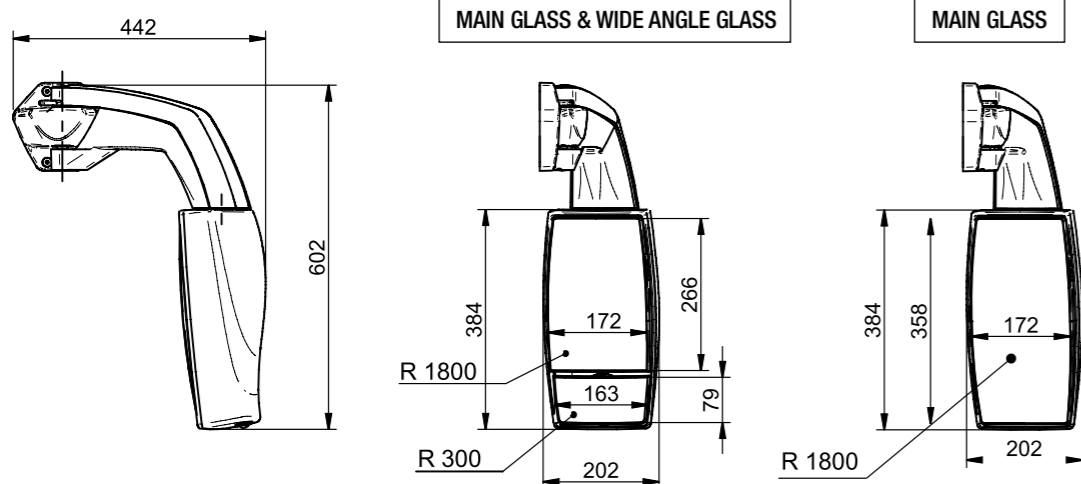


NEW

345-2



NEW



FEATURES

- » Main Glass (II Cat. View)
- » Black Color
- » Folding Bracket
- » Approval Nr. II-E9-04.11258 and Nr. II-E9-04.11413 /IV-E9-04.11414
- » RoHS and REACH Compliance
- » Voltage 12V or 24V

OPTIONAL

- » Wide Angle Glass (IV Cat View)
- » Electrical and Heating
- » Courtesy Light
- » Bicolor painting
- » Front Camera 170°
- » Radio Antenna

Main Features & Options



Integrated camera



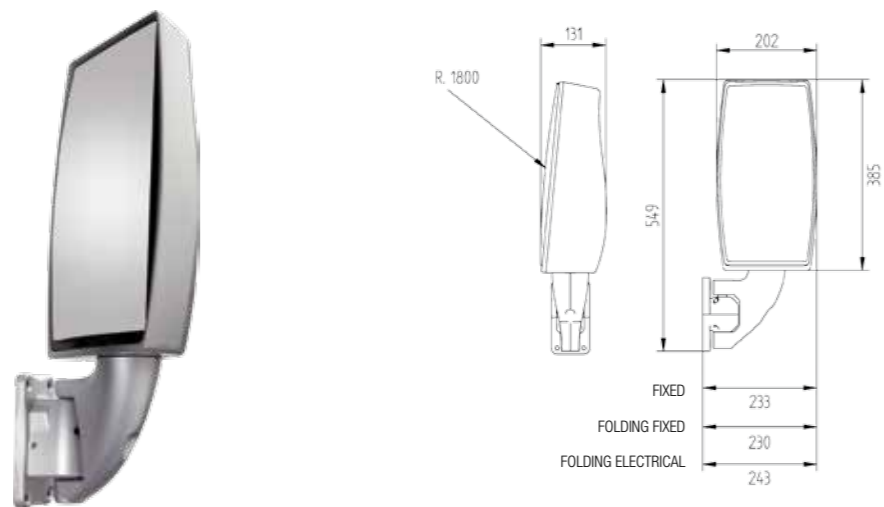
Courtesy light



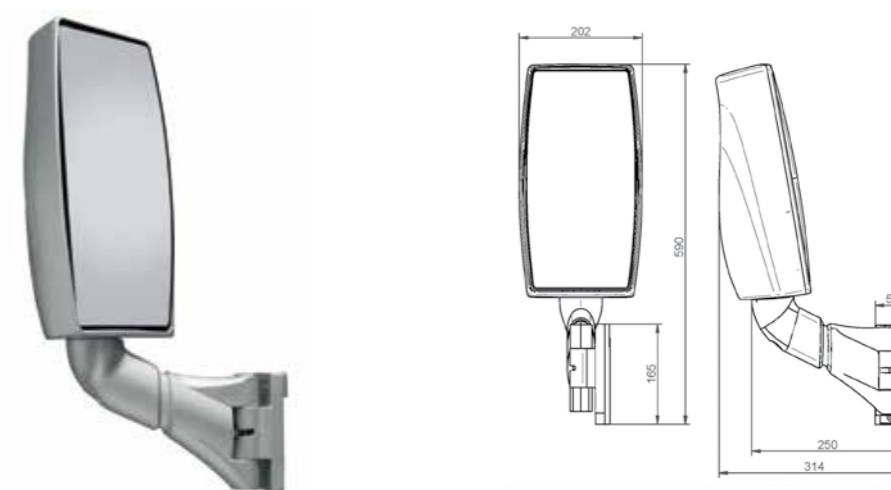
345	< 2m.	ELECTRICAL	HEATED	VIDEO CAMERA	RADIO ANTENNA	COURTESY LIGHT	FIX & FOLDING	CATEGORY OF VIEW	
								BRACKETS	II
345	✓	OP	OP	OP	OP	OP	✓	✓	-
345-2	✓	OP	OP	OP	OP	OP	✓	✓	✓

SERIE 345

345-143



345-250



Main Features & Options



V / VI Cat. Camera



Upper or Lower



Removable connection (345-143)



II / IV Cat.



Bracket Fixed

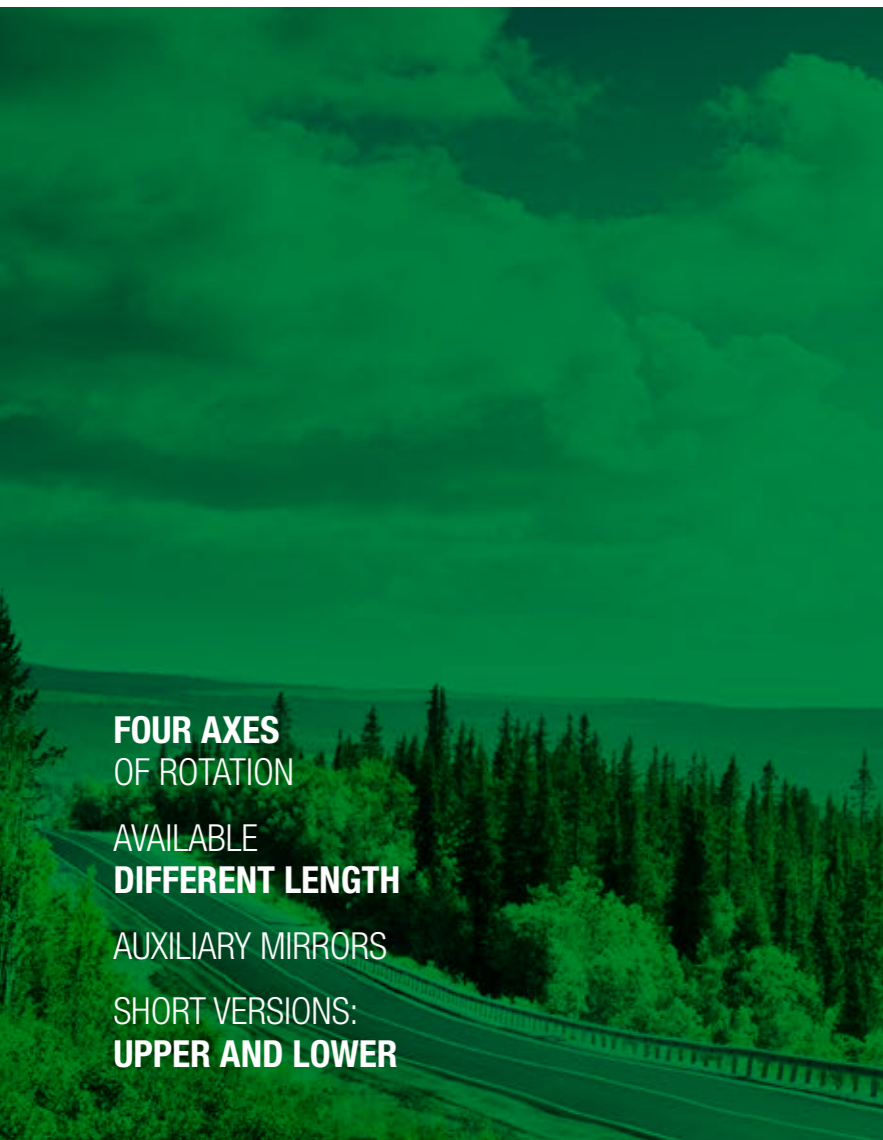


Bracket Folding Fixed



Bracket Folding electrical

345	< 2m.	ELECTRICAL	HEATED	RADIO ANTENNA	FIX	FIX & FOLDING	FOLDING ELECTRICAL	PULL OUT	FOLDING PULL-OUT	CATEGORY OF VIEW	
										II	IV
345/143	✓	OP	OP	OP	✓	OP	OP	✓	-	✓	-
345-2/143	✓	OP	OP	OP	✓	OP	OP	✓	-	✓	✓
345/250	✓	OP	OP	OP	✓	OP	-	✓	OP	✓	-
345-2/250	✓	OP	OP	OP	✓	OP	-	✓	OP	✓	-

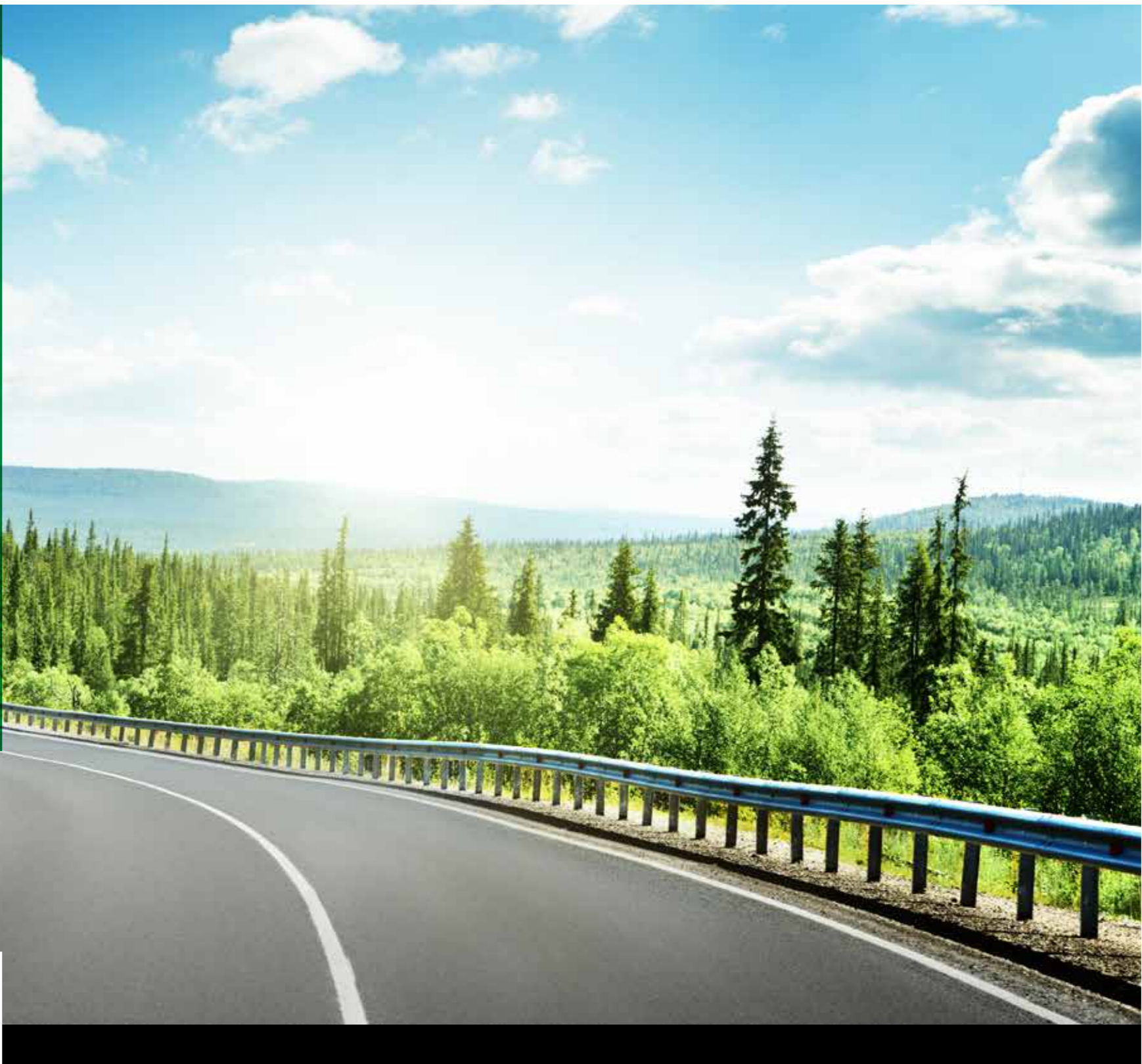


FOUR AXES
OF ROTATION
AVAILABLE
DIFFERENT LENGTH
AUXILIARY MIRRORS
SHORT VERSIONS:
UPPER AND LOWER

SERIE 340

Safety and additional features

Much more safety is possible in this mirror; just add the **integrated video cameras and further optional features** such as spot light, GPS, aerial...



Mod. 340

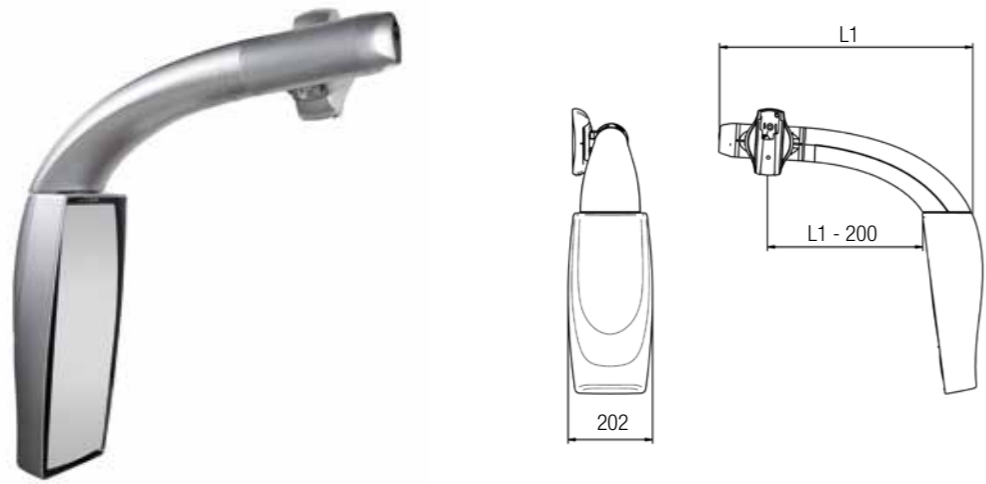


Mod. 340-220

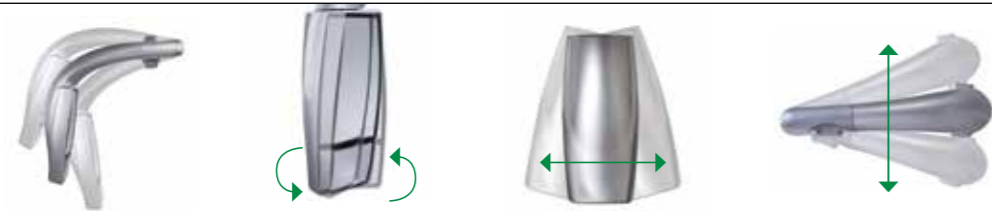


SERIE 340

340



Four axes of rotation



Main Features & Options



Side view camera

V / VI Cat. Camera

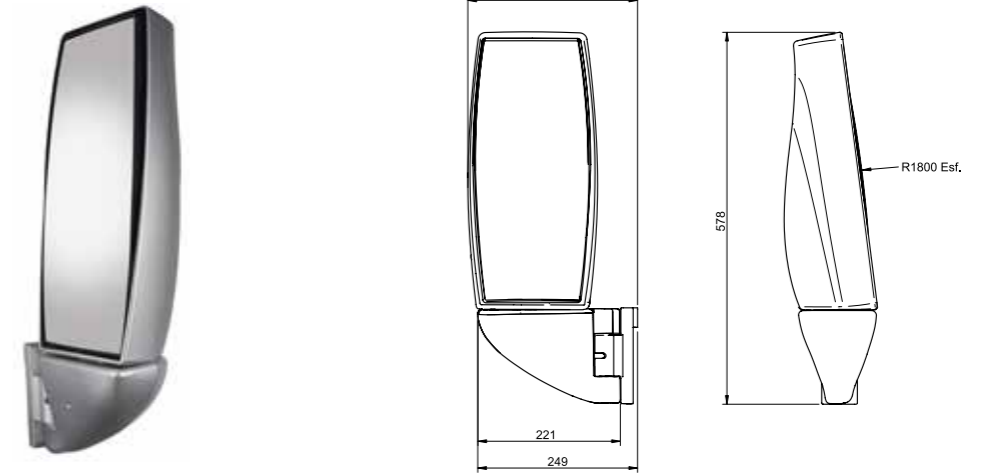
Removable connection

Courtesy light



MODEL	L1
340/610	610
340/710	710
340/810	810
340/910	910
340/1010	1010
340/1110	1110
340/1210	1210

340-220



Main Features & Options



Upper or Lower

V / VI Cat.

SERIE 340	< 2m.	ELECTRICAL	HEATED	VIDEO CAMERA	RADIO ANTENNA	COURTESY LIGHT	GPS & RADIO	FLAT GLASS II Cat.	FIX BRACKETS	PULL OUT	CATEGORY OF VIEW			
											II	IV	V	VI
340	✓	OP	OP	OP	OP	OP	OP	OP	-	✓	✓	OP	OP	OP
340-2	✓	OP	OP	OP	OP	OP	OP	OP	-	✓	✓	✓	OP	OP
340/220	✓	OP	OP	OP	OP	OP	OP	OP	OP	✓	✓	-	-	-
340-2/220	✓	OP	OP	OP	OP	OP	OP	OP	OP	✓	✓	✓	-	-

Mod. 323

FLEXIBLE AND
EASY ADAPTATION

BUILT IN
TURN SIGNAL LIGHT

SERIE AMIDA 0,5

Minibus solutions

Specially design **as a solution** for the Minibus industry.

Perfectly adapted to the needs of this application: Mini and Midibuses, school minibuses, VIP vans...



Mod. 333-A6



Mod. 335-A6



Mod. 301-130

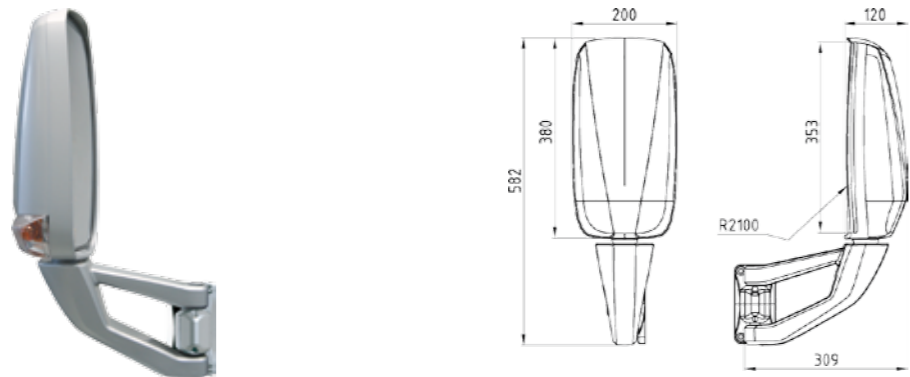


Mod. 323

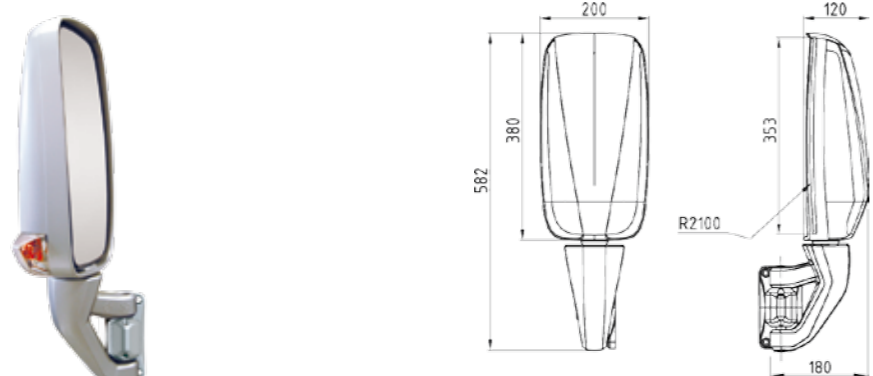


SERIE AMIDA 0,5

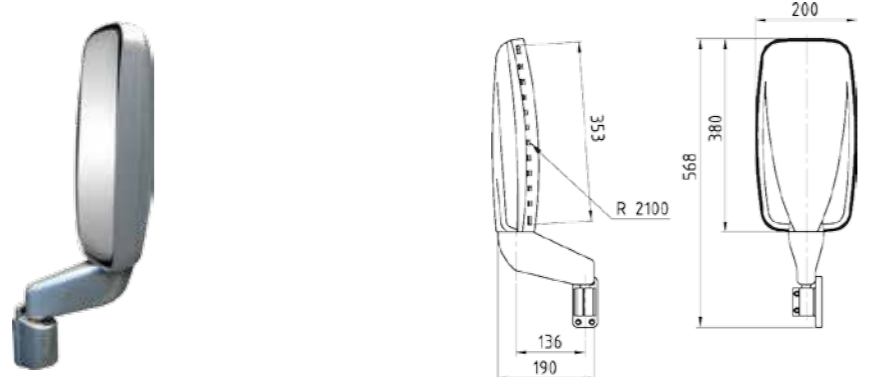
333-A6



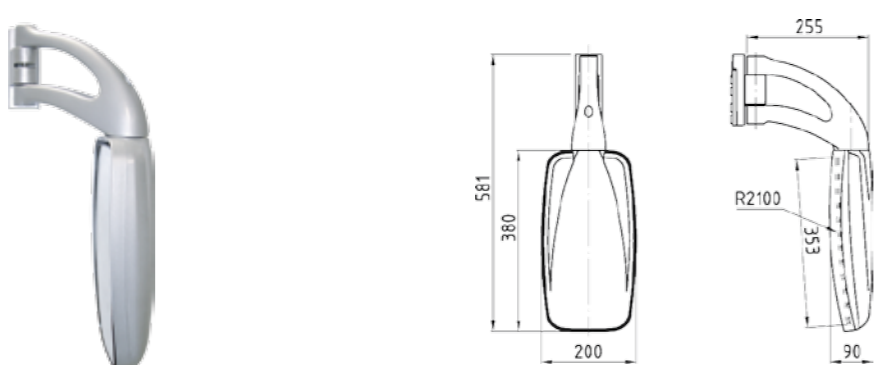
335-A6



301-130



323



Main Features & Options



II / IV Cat.



Lower or Upper



Built in turn signal



Fixed Bracket



Mod. 333 (same as Mod. 333-A6 without turn signal lamp)



Mod. 335 (same as Mod. 335-A6 without turn signal lamp)



Removable connection

SERIE AMIDA 0,5	< 2m.	ELECTRICAL	HEATED	RADIO ANTENNA	GPS & RADIO	FLAT GLASS II Cat.	BRACKETS			CATEGORY OF VIEW	
							6A TURN SIGNAL	FIX	FIX & FOLDING	PULL OUT FOLDING PULL-OUT	II
333	✓	OP	OP	OP	-	-	✓	-	-	✓	-
333-2	✓	OP	OP	OP	-	-	✓	-	-	✓	✓
333 A6	✓	OP	OP	OP	✓	-	✓	-	-	✓	-
333-2 A6	✓	OP	OP	OP	✓	-	✓	-	-	✓	✓
335	✓	OP	OP	OP	-	-	✓	-	-	✓	-
335-2	✓	OP	OP	OP	-	-	✓	-	-	✓	✓
335 A6	✓	OP	OP	OP	✓	-	✓	-	-	✓	-
335-2 A6	✓	OP	OP	OP	✓	-	✓	-	-	✓	✓
301/130	✓	OP	OP	OP	-	-	✓	-	-	✓	-
301-2/130	✓	OP	OP	OP	-	-	✓	-	-	✓	✓
323	✓	OP	OP	OP	-	OP	-	✓	OP	✓	-
323-2	✓	OP	OP	OP	-	OP	-	✓	OP	✓	✓



AVAILABLE DIFFERENT LENGTHS
AS PER CUSTOMER REQUEST

1 OR 2 GLASSES

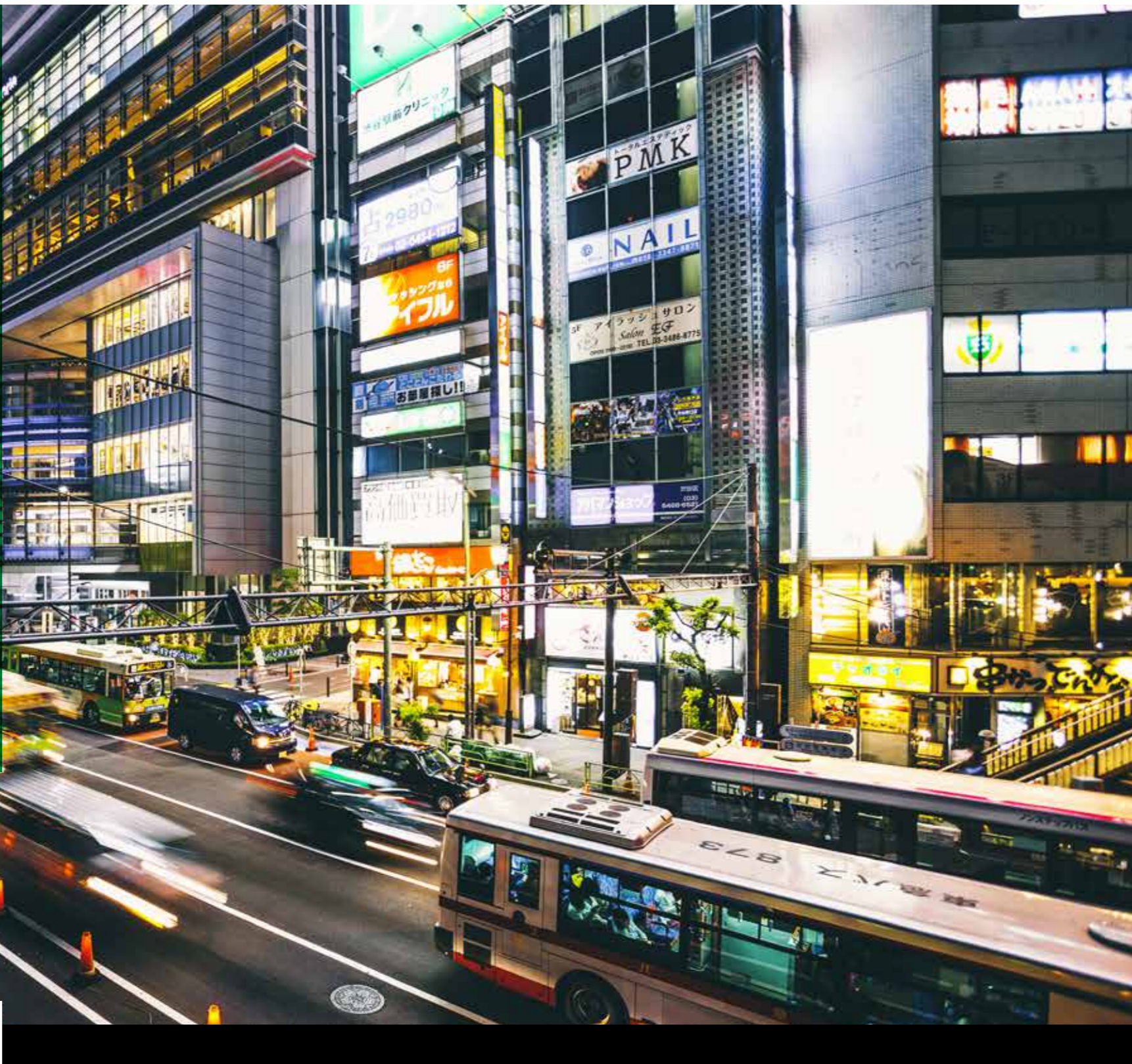
AUXILIARY MIRROR

FOLDING SYSTEM,
ELECTRICALLY AS OPTION

SERIE AMIDA

Versatility made reality

These are the first mirrors to offer different arm lengths so that customer finally become the product, the most suitable for his needs.



Mod. 314



Mod. 324

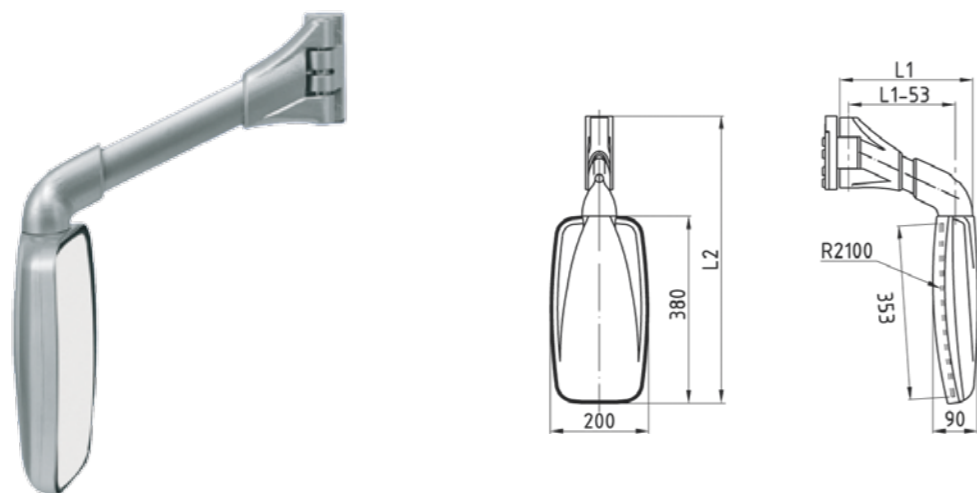


Mod. 314-143



SERIE AMIDA

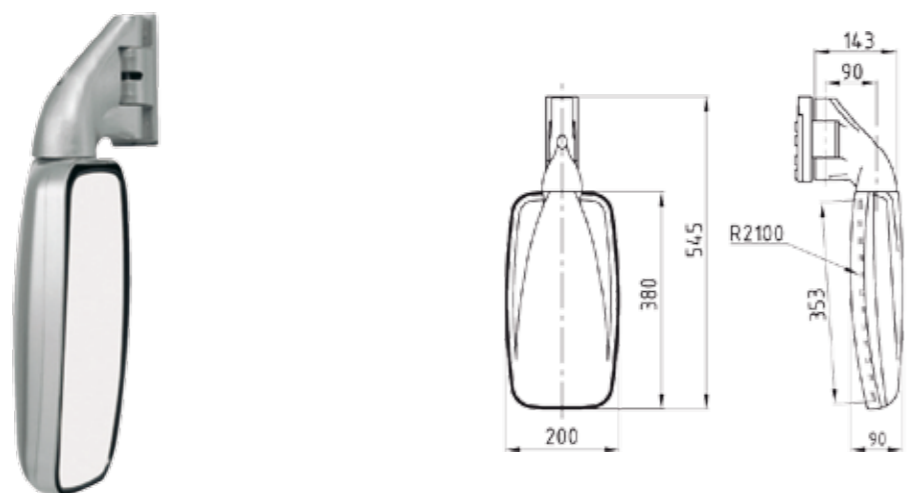
314



324



314-143



Main Features & Options



Arm at customer request
Max. 750 / Min. 250



Auxiliary Mirror. Cat. V / VI



II / IV cat.



Upper or Lower



Bracket: Fixed



Bracket: Manually Folding, Fixed

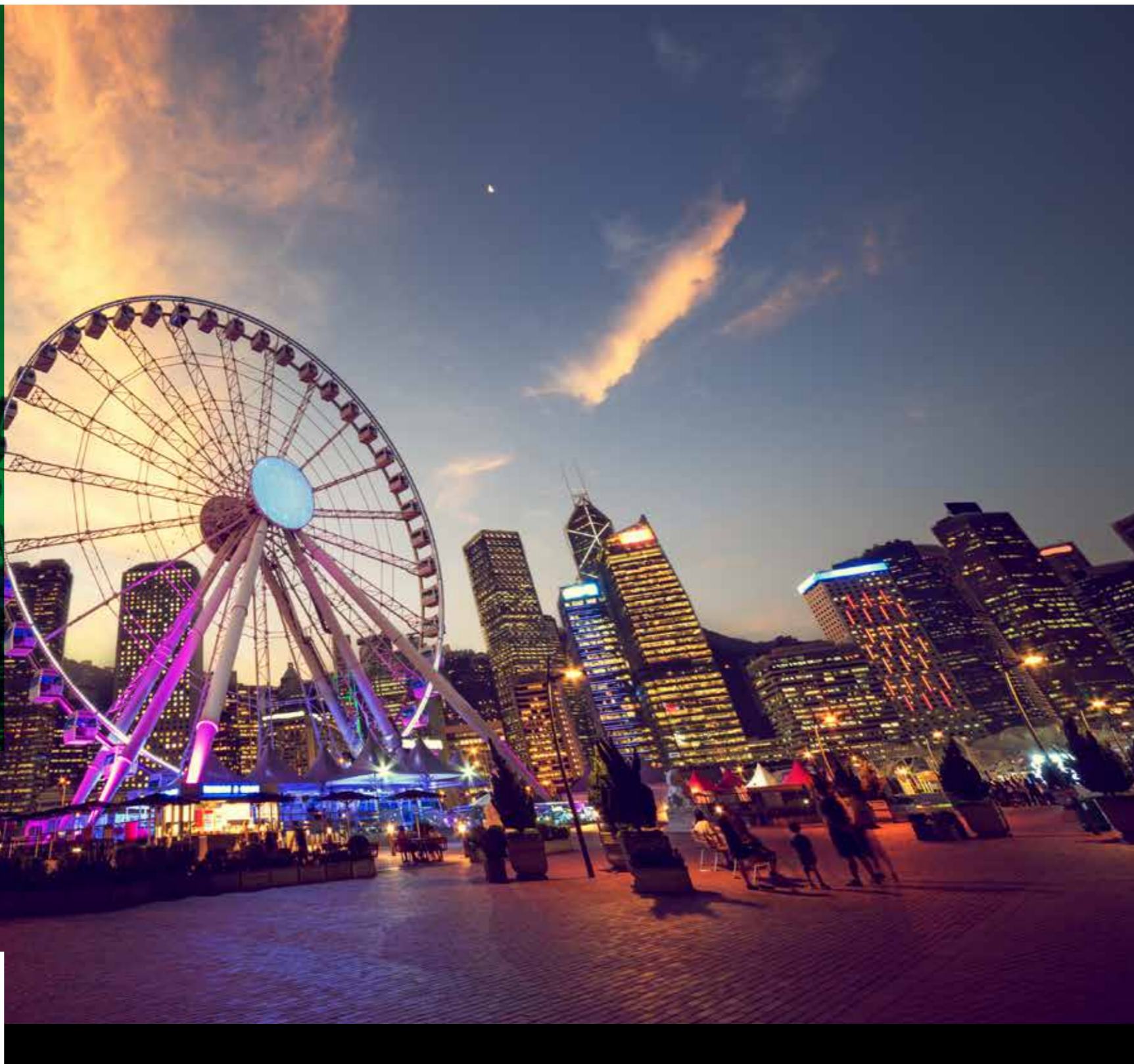


Bracket: Electrically Folding



Removable connection

SERIE AMIDA	< 2m.	ELECTRICAL	HEATED	ARM CUT-TO-SIZE	FLAT GLASS II Cat.	BRACKETS					CATEGORY OF VIEW			
						FIX	FIX & FOLDING	FOLDING ELECT.	PULL OUT	FOLDING PULL-OUT	II	IV	V	VI
314	✓	OP	OP	✓	OP	OP	OP	-	✓	OP	✓	-	OP	OP
314-2	✓	OP	OP	✓	OP	OP	OP	-	✓	OP	✓	✓	OP	OP
324	✓	OP	OP	✓	OP	OP	OP	-	✓	OP	✓	-	OP	OP
324-2	✓	OP	OP	✓	OP	OP	OP	-	✓	OP	✓	✓	OP	OP
314/143	✓	OP	OP	-	OP	OP	OP	OP	✓	OP	✓	-	-	-
314-2/143	✓	OP	OP	-	OP	OP	OP	OP	✓	OP	✓	✓	-	-



SHORT AND LONG VERSION
UPPER OR LOWER
ARM FOLDING
VERSION AVAILABLE
OPTIONAL BRACKET
FOLDING VERSION

SERIE AMIDA 1,5

The Amida series
is evolving

Next step in cities and long distance journey: perfect combination of **comfort and safety along with extra options** that allows to get the optimal functionality

Mod. 330



Mod. 331



Mod. 330-183

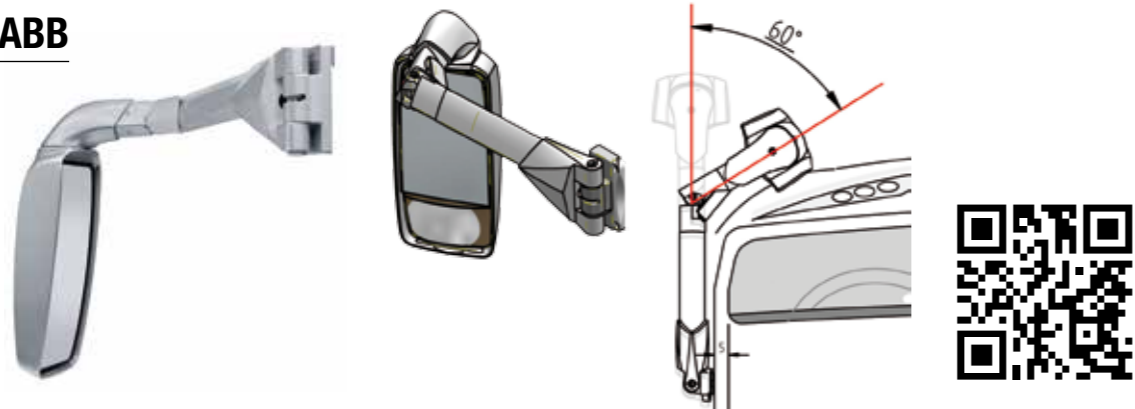


Mod. 331-ABB

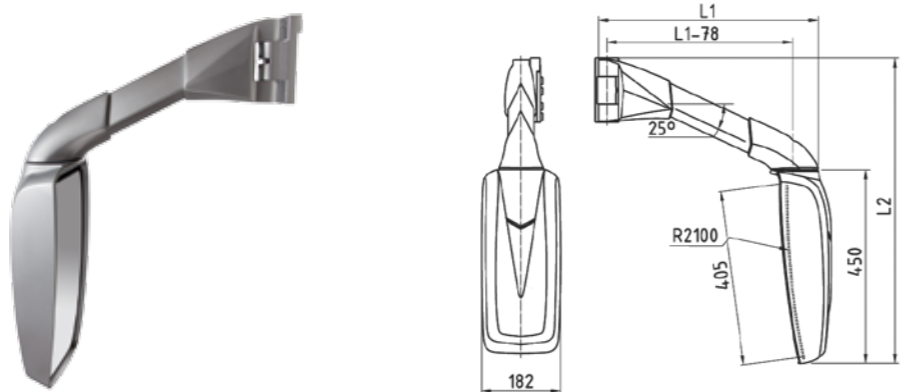


SERIE AMIDA 1,5

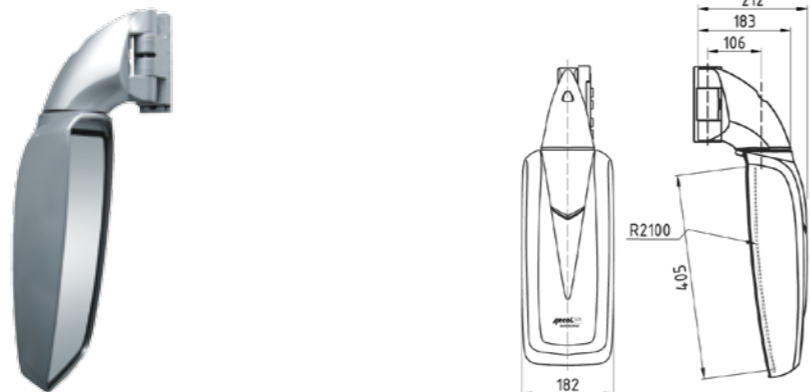
331-ABB



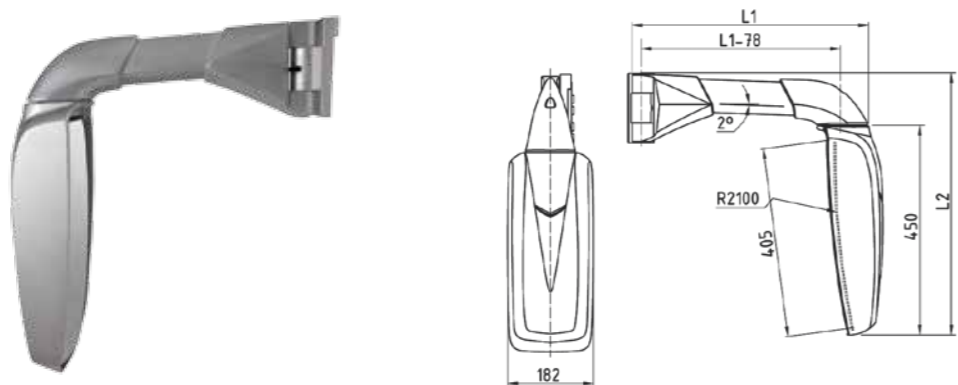
330



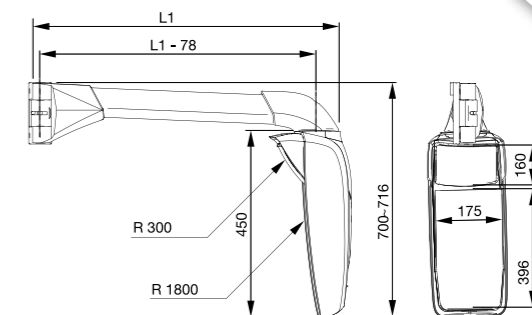
330-183



331



331-V2



NEW

Main Features & Options



L1 = Max. 750mm Min. 335mm



Auxiliary mirror V / VI



II / IV Cat.



V / VI Cat. camera



Upper or Lower



Removable connection

SERIE AMIDA 1,5	< 2m.	ELECTRICAL	HEATED	VIDEO CAMERA	RADIO ANTENNA	ARM CUT-TO-SIZE	ARM FOLDING	GPS & RADIO	FLAT GLASS II CAT.	FIX	PULL OUT	FOLDING PULL-OUT	CATEGORY OF VIEW			
													II	IV	V	VI
330	✓	OP	OP	OP	OP	✓	-	OP	OP	OP	✓	OP	✓	-	OP	OP
330-2	✓	OP	OP	OP	OP	✓	-	OP	OP	OP	✓	OP	✓	✓	OP	OP
331	✓	OP	OP	OP	OP	✓	OP	OP	OP	OP	✓	OP	✓	-	OP	OP
331-2	✓	OP	OP	OP	OP	✓	OP	OP	OP	OP	✓	OP	✓	✓	OP	OP
330/183	✓	OP	OP	OP	OP	-	-	OP	OP	OP	✓	OP	✓	-	-	-
330-2/183	✓	OP	OP	OP	OP	-	-	OP	OP	OP	✓	OP	✓	✓	-	-
331 ABB	✓	OP	OP	OP	OP	-	✓	OP	OP	OP	✓	OP	✓	✓	-	-
331-2 ABB	✓	OP	OP	OP	OP	-	-	OP	OP	OP	✓	OP	✓	✓	-	-
331-2V	✓	OP	OP	OP	OP	✓	OP	OP	OP	OP	✓	OP	✓	-	✓	OP



1 OR 2 GLASSES

309: INTEGRATED
AUXILIARY MIRROR

ROTATING / TURNING
OPTION

SUITABLE FOR BOTH
LEFT AND RIGHT HAND

SERIE 300



First class **design**

Our first stage to offer the **top quality design. Functionality and excellent performance guaranteed** for a long lasting life.

Mod. 307



Mod. 308



Mod. 309

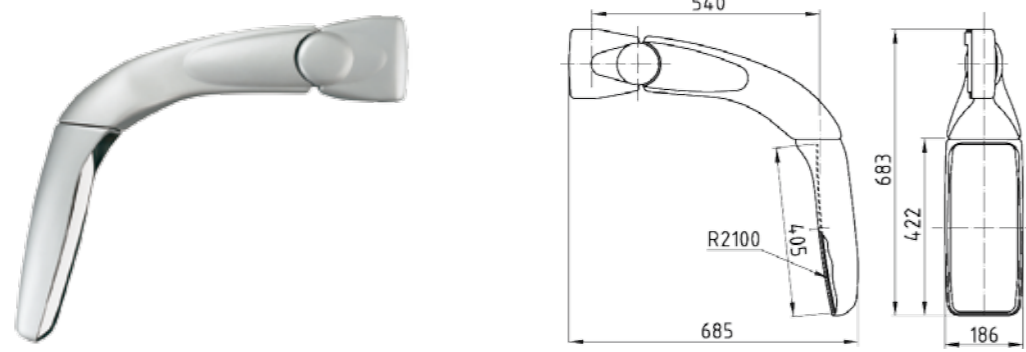


Mod. 313

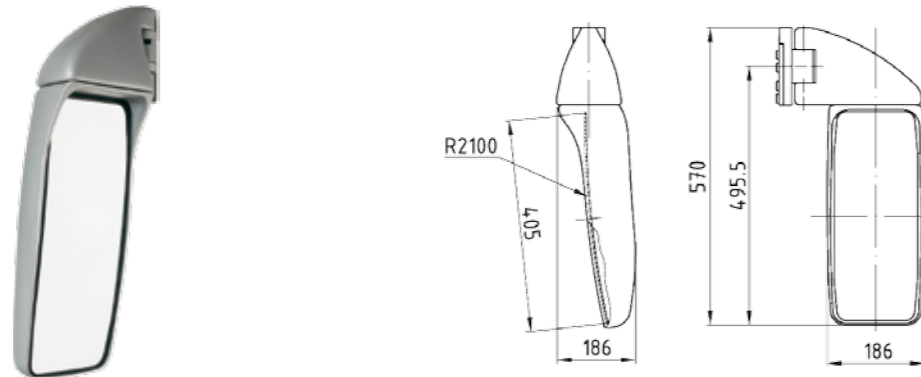


SERIE 300

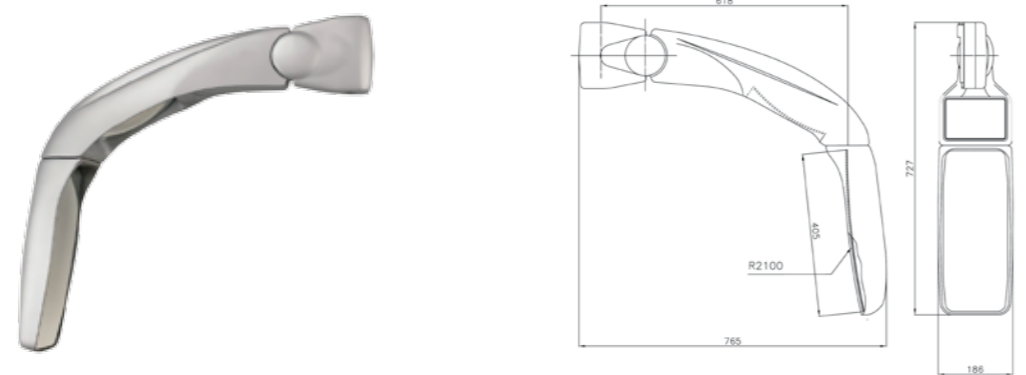
307



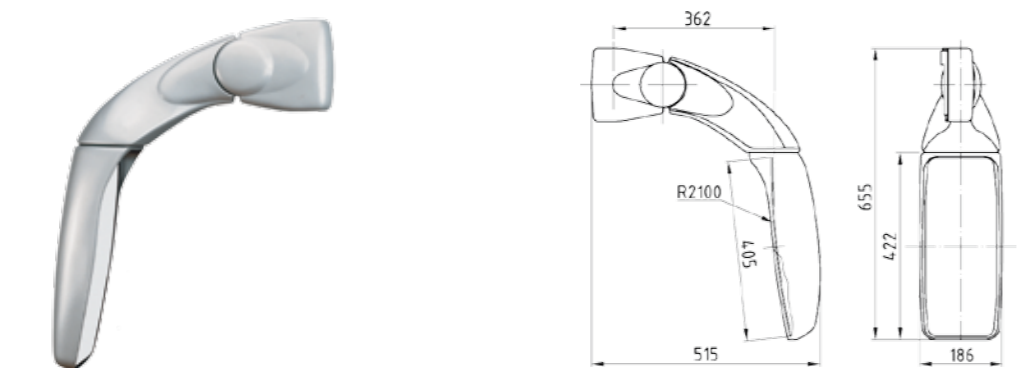
308



309



313



Main Features & Options



Rotative covers



Body Mirror: 316



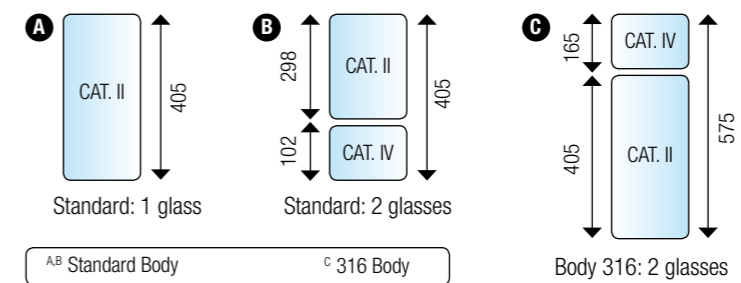
Upper or Lower^{A,B,C}. II / IV Cat



Auxiliary mirror



Removable connection



SERIE 300	< 2m.	ELECTRICAL	HEATED	FLAT GLASS II Cat.	FIX	PULL OUT	CATEGORY OF VIEW			
							BRACKETS			
							II	IV	V	VI
307	✓	OP	OP	OP	OP	✓	✓	-	OP	OP
307-2	✓	OP	OP	OP	OP	✓	✓	✓	OP	OP
307/316	✓	OP	OP	OP	OP	✓	✓	✓	OP	OP
308	✓	OP	OP	OP	OP	✓	✓	-	-	-
308-2	✓	OP	OP	OP	OP	✓	✓	✓	-	-
308/316	✓	OP	OP	OP	OP	✓	✓	✓	-	-
309	✓	OP	OP	OP	OP	✓	✓	-	RM	LM
309-2	✓	OP	OP	OP	OP	✓	✓	✓	RM	LM
309/316	-	OP	OP	OP	OP	✓	✓	✓	RM	LM
313	✓	OP	OP	OP	OP	✓	✓	-	OP	OP
313-2	✓	OP	OP	OP	OP	✓	✓	✓	OP	OP
313/316	-	OP	OP	OP	OP	✓	✓	✓	OP	OP

RM: Right Mirror // LM: Left Mirror



NEW DESIGN
CONCEPT
SHORT AND LONG
VERSION
UPPER OR LOWER
AUXILIARY MIRROR

SERIE GAUDÍ

Industrial beauty

Mirror inspired by the work of the Catalan architect Antoni Gaudí. Besides the fully functional behavior, it is incorporated the elegant and beauty feeling.

Mod. 320



Mod. 321

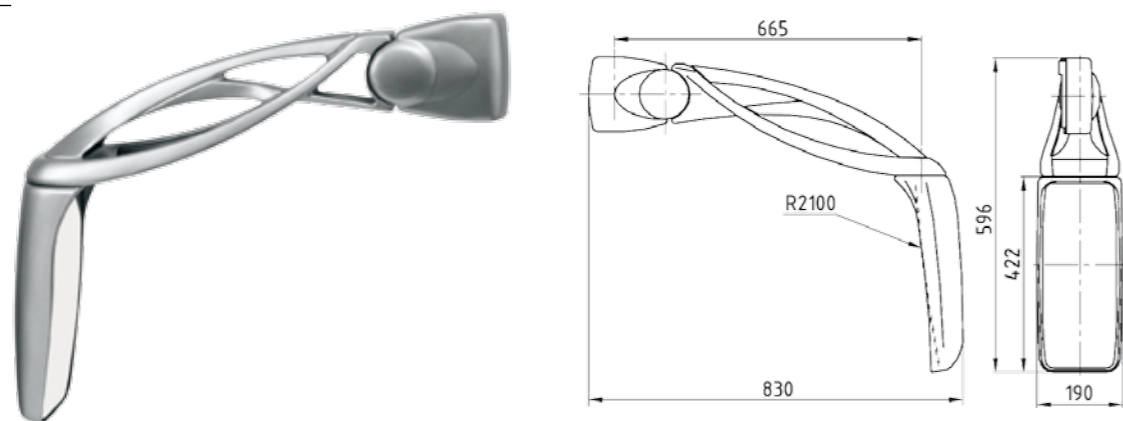


Mod. 320-316

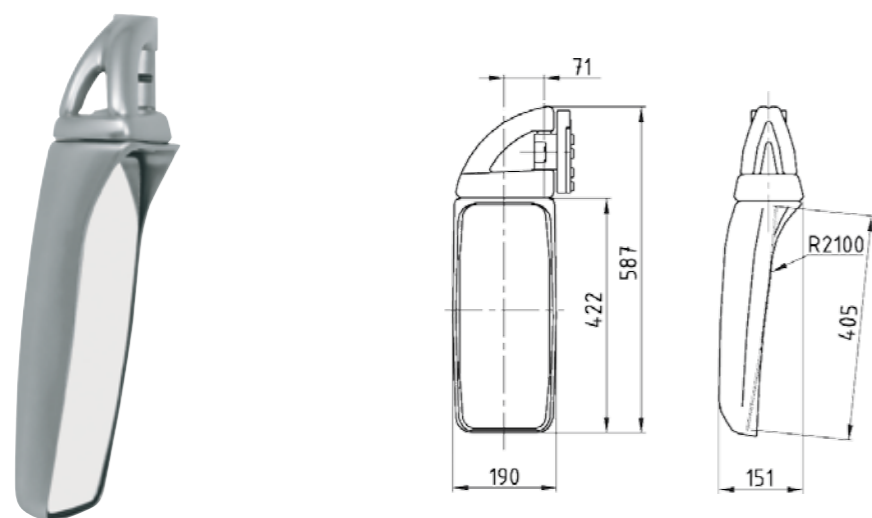


SERIE GAUDÍ

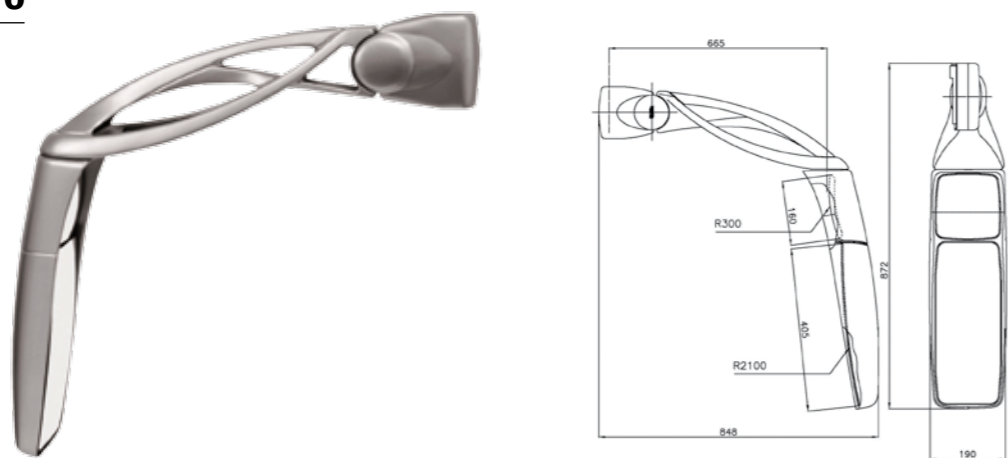
320



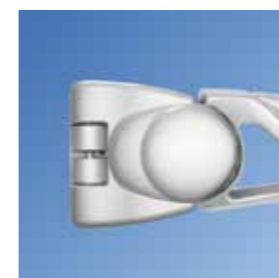
321



320-316



Main Features & Options



Rotative covers



Auxiliary mirror



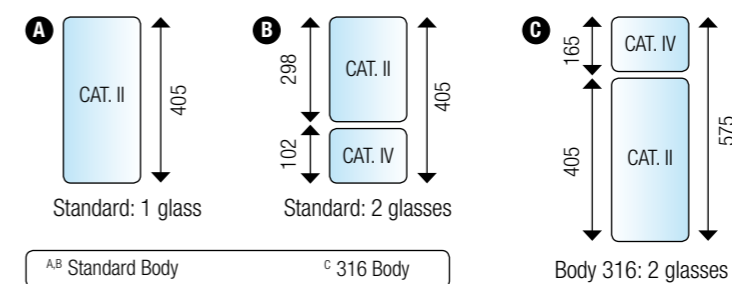
II / IV Cat.



Upper or Lower



Removable connection



SERIE GAUDÍ	< 2m.	ELECTRICAL	HEATED	FLAT GLASS II Cat.	BRACKETS		CATEGORY OF VIEW			
					FIX	PULL OUT	II	IV	V	VI
320	✓	OP	OP	OP	OP	✓	✓	-	OP	OP
320-2	✓	OP	OP	OP	OP	✓	✓	✓	OP	OP
320/316	-	OP	OP	OP	OP	✓	✓	✓	OP	OP
321	✓	OP	OP	OP	OP	✓	✓	-	-	-
321-2	✓	OP	OP	OP	OP	✓	✓	✓	-	-
321/316	✓	OP	OP	OP	OP	✓	✓	✓	-	-

INTERIOR MIRRORS
FUNCTIONALITY
MULTIPLE
COMBINATIONS
ADAPTABILITY TO
SEVERAL BODYWORKS

SERIE 200

Classic products
that stand the **test of time**

Classic products resting the test of time. Functionality and resistance as the main premises.

Also included in this range, the interior mirrors.

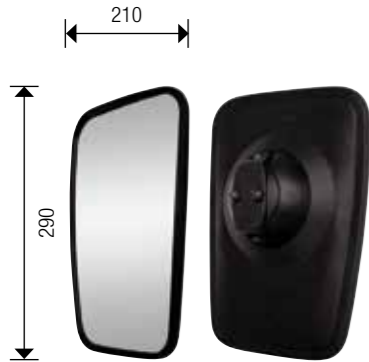


SERIE 200

MIRRORS

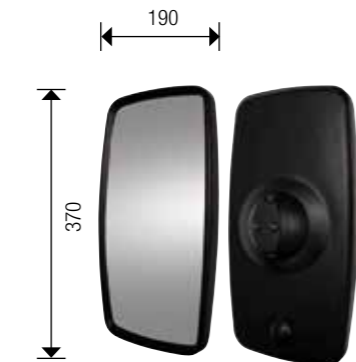
Mod 270

r=2100 (optional r=1300)



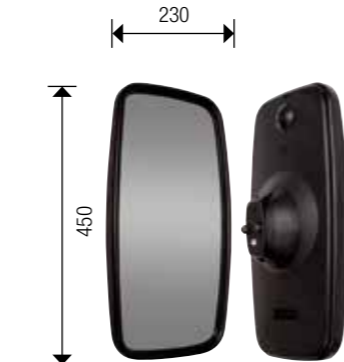
Mod 275

r=2100



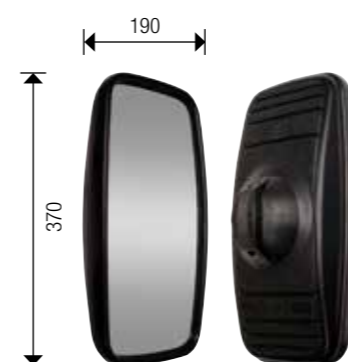
Mod 280

r=2100



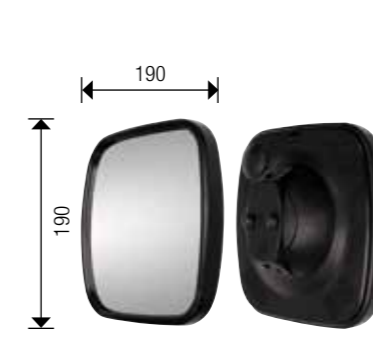
Mod 287

r=2100



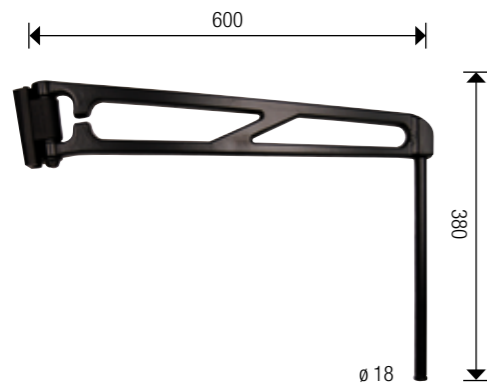
Mod 288

r=400



CAST ARMS. EXTERIOR ARMS

Mod 540



Mod 280



Mod 360



Mod 260



Mod 150



TUBE ARMS. EXTERIOR ARMS

Mod 440



Mod 240



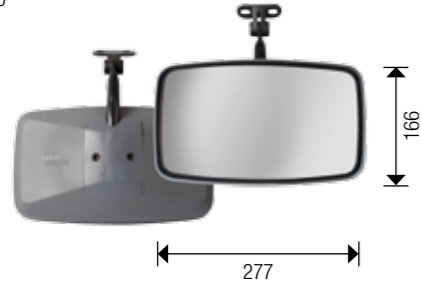
Mod 190



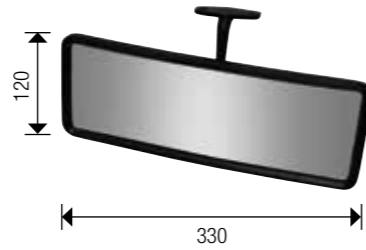
SERIE 200

INTERIOR MIRRORS

Mod 327
r=2100



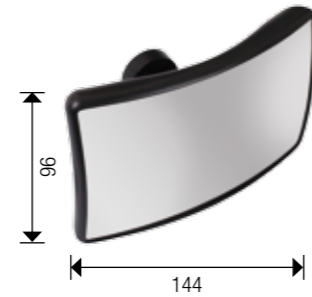
Mod 273
r=2100



Mod 298
r=2100 (optional r=1300)

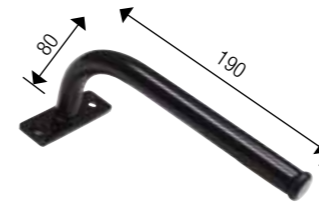


Mod 340-I
WINDSCREEN FIXATION
r=220

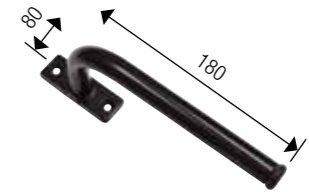


INTERIOR ARMS

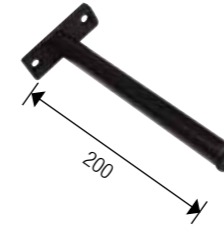
Mod I-36



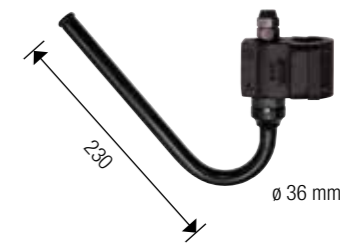
Mod IV



Mod IT



Mod IRM



SHAPE AND SIZE UNDER REQUEST

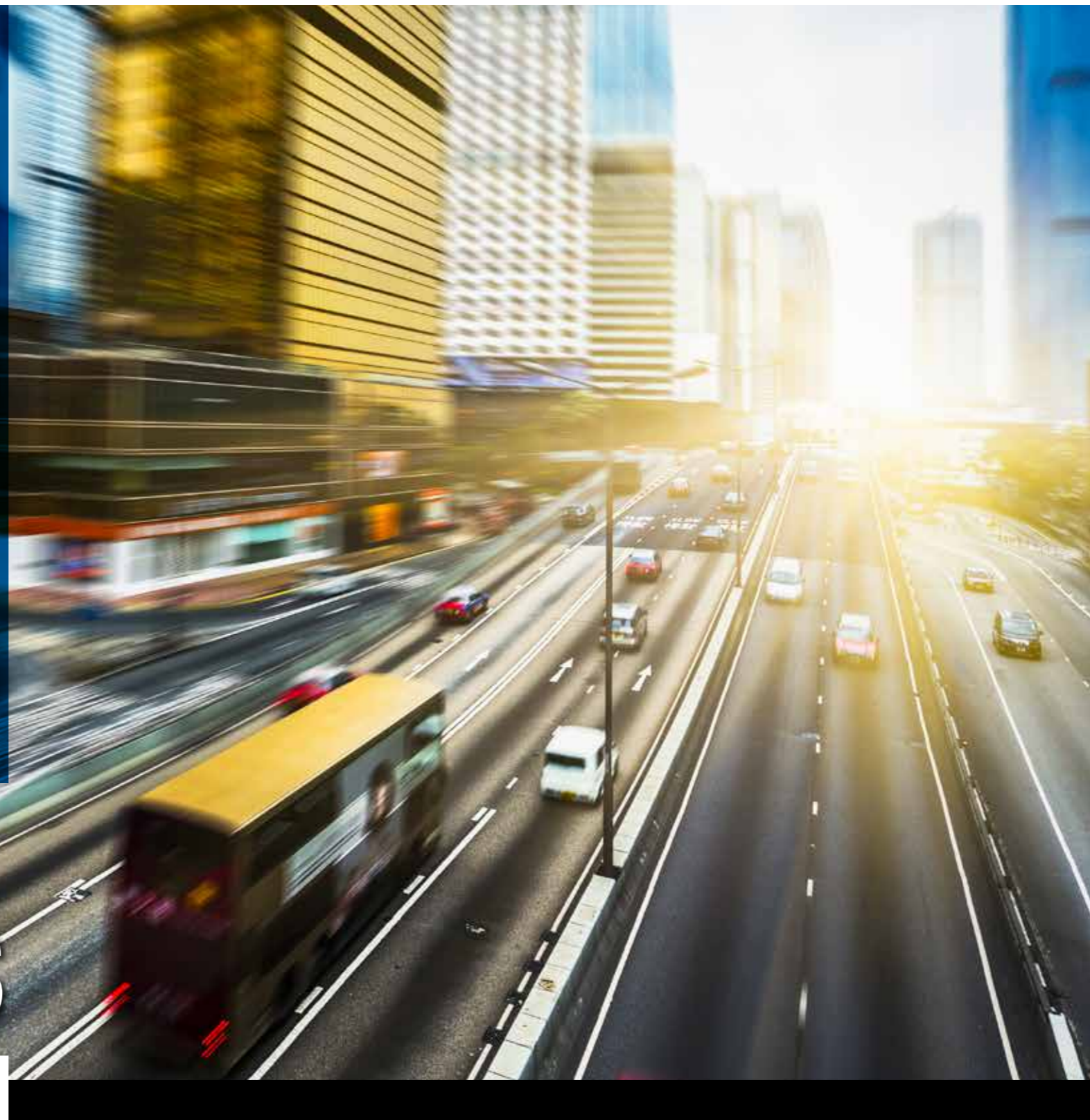
EASY CONFIGURATION
FLEXIBLE AND EASY ADAPTATION
AND INSTALLATION
ACTIVE AND
RELIABLE WORK

CAMERAS & MONITORS

Better Visibility = Better Safety

Focused to get **the better visibility to provide the better safety** to our drivers. Suitable for Bus, Coach, Mortorhome, Mini and Midibus. our cameras allow to handle and drive in difficult situations where visibility is limited.

Equipped with monitor systems, this provides a very useful and reliable tool for the driving assistance. There is **nothing hidden**.



Mod. 7"



Mod. 5"



Mod. C-IR



Mod. C-45



CAMERAS Latest Technology in the driving assistance field

CAMERA MOD C

» Reference **52 71 900**
CAMERA 120° PARKING LINES 4PIN

 Cable 4 pins



CAMERA MOD C-45H

» Reference **52 71 901**
CAMERA 170° PARKING LINES 45° 4PIN

 Cable 4 pins



CAMERA MOD C-45V

» Reference **52 71 911**
CAMERA 170° PARKING LINES 45° 4PIN
INVERT.

 Cable 4 pins



CAMERA MOD C-S

» Reference **52 71 908**
CAMERA WITH HOUSING 170° 4PIN

 Cable 4 pins



CAMERA MOD C-EB150

» Reference **52 71 904**
CAMERA 150° EYEBALL 4PIN

» Reference **52 71 905**
CAMERA 150° PARKING LINES EYEBALL 4PIN

» Reference **52 71 907**
CAMERA 150° MIRROR EYEBALL 4PIN

 Cable 4 pins



CAMERA MOD C-EB170

» Reference **52 71 906**
CAMERA 170° EYEBALL 4PIN

 Cable 4 pins



CAMERA MOD C-IR

» Reference **52 71 909**
CAMERA 120° IR. 4PIN Night Vision

 Cable 4 pins



GENERAL TECHNICAL SPECIFICATION

- » External camera for Bus, Motorhome, Mini and Midibus
- » CMOS Sensor or Night Vision
- » Operating temperature between -30°C and 60°C
- » Vibration proof
- » PAL system
- » Waterproof IP67
- » Sunlight resistance glass
- » Parking lines and Mirror images available
- » Voltage DC 12V
- » Resolution: 712 x 486p
- » Approvals: S-E-02.6485 and E9-10R-04.6860
- » RoHS & REACH Compliance
- » 2 years limited warranty

MODEL	PLACE							FUNCTION			MINIMUM ILLUMINATION	ANGLE	SENSOR	X	Y	Z
	REAR	SIDE	DOOR	CLASSV	CLASSVI	INTERIOR	FRONT	PARKING LINES	MIRROR IMAGE	NIGHT VISION IR						
C	✓	-	-	-	-	-	-	OP	OP	-	0,3 LUX	120	CMOS	22,8	18,5	30
C-45H	✓	-	-	-	-	-	-	OP	OP	-	0,3 LUX	170	CMOS	32,5	29,5	28
C-45V	✓	-	-	-	-	-	-	OP	OP	-	0,3 LUX	170	CMOS	32,5	29,5	28
C-S	✓	✓	✓	-	-	-	-	OP	OP	-	0,3 LUX	170	CMOS	42,5	34	24
C-EB	✓	✓	✓	✓	✓	✓	✓	OP	OP	-	0,3 LUX	150	CMOS	31,8	27,8	23,3
	✓	✓	✓	✓	✓	✓	✓	OP	OP	-	0,3 LUX	170	CMOS	29,9	24,8	20,8
C-IR	✓	-	-	-	-	-	-	✓	✓	✓	< 0,05 LUX	120	CCD	81	98	70,5

MONITORS

Latest Technology in the driving assistance field

MONITOR 5" for Bus, Motorhome, Mini & Midibus

» Reference **52 72 107**
Monitor 5" 2 CAMERAS 4 PIN

» Reference **52 72 113**
Monitor 5" 4 CAMERAS 4 PIN QUAD



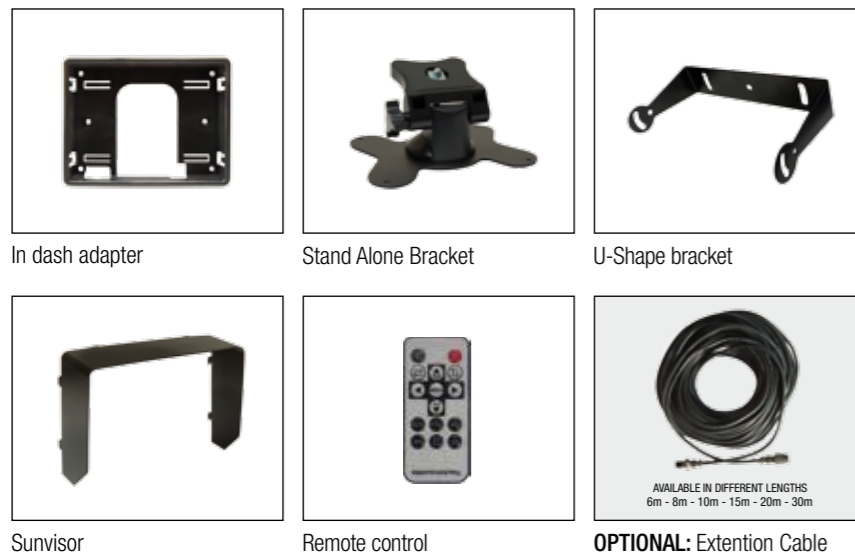
NEW

Cable 4 pins

TECHNICAL SPECIFICATION

- » Vibration proof
- » PAL/NSTC (Auto) System
- » Sunlight resistance glass
- » OSD Menu
- » Optional Parking Lines
- » Voltage DC12V-DC32V
- » Resolution 800x480 Pixel
- » 2 or 4 AV Inputs & 2 or 4 Trigger wires
- » Operating temperature: -20°C to 70°C
- » Dimensions 132x95x25 mm

Accessories



In dash adapter

Stand Alone Bracket

U-Shape bracket

Sunvisor

Remote control

OPTIONAL: Extension Cable

AVAILABLE IN DIFFERENT LENGTHS
6m - 8m - 10m - 15m - 20m - 30m

MONITOR 7" for Bus, Motorhome, Mini & Midibus

» Reference **52 72 105/3**
Monitor 7" 2 CAMERAS 4PIN

» Reference **52 72 102/2**
Monitor 7" 4 CAMERAS 4PIN QUAD



Cable 4 pins

TECHNICAL SPECIFICATION

- » Vibration proof
- » PAL/NSTC (Auto) System
- » Sunlight resistance glass
- » OSD Menu
- » Optional Parking Lines
- » Voltage DC12V-DC32V
- » Resolution 800x480 Pixel
- » 2 AV Inputs & 2 Trigger wires or 4 AV Inputs & 4 Trigger Wires
- » QUAD Function
- » Operating temperature: -20°C to 70°C
- » Dimensions 177x122x26 mm

Accessories



In dash adapter

Stand Alone Bracket

U-Shape bracket

Sunvisor

Remote control

OPTIONAL: Extension Cable

AVAILABLE IN DIFFERENT LENGTHS
6m - 8m - 10m - 15m - 20m - 30m

CUSTOMISED DESIGNS

LESS POWER
CONSUMPTION

PERFECT ADAPTATION
TO ALL VEHICLES

LATEST TECHNOLOGY

LAMPS

A range of **ideas**

Redefined products standards **to keep on lighting the future.**

Led lighting technology suitable for wide kind of vehicles.

Classic lamps also available among our range.

Mod. 414



Mod. 407



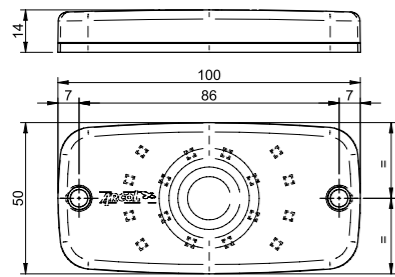
Mod. 499



75TH
ARCOL

LED LAMPS

461 (Interior Led)



LAMP MOD. 461i

- » Touch Sensor switch
- » Auto Power Off (5min.) available
- » Vibration proof
- » Waterproof IP67
- » Voltage 10V to 30V
- » Operating temperature range :-30°C and 90°C

Lamp Mod. 461i / Ref. 1031000 (12V/24V)

LAMP MOD. 461

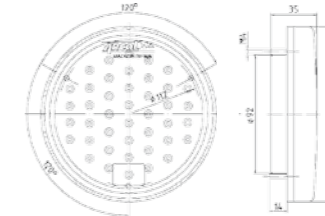
- » Vibration proof
- » Waterproof IP67
- » Voltage 12V or 24V
- » Operating temperature range :-30°C and 90°C

Lamp Mod. 461 / Ref. 1031001 (12V)

Lamp Mod. 461 / Ref. 1031002 (24V)

NEW

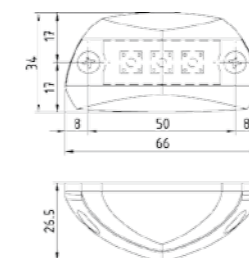
322



AVAILABLE IN 12V. OR 24V.

MODEL	FUNCTION
322-A2	Rear turn
322-PS	Tail-stop
322-BTF	Reversing

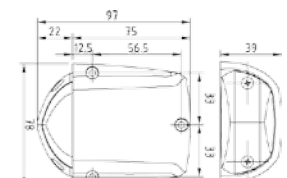
407 (Clearance Lamp)



AVAILABLE IN 12V. OR 24V.

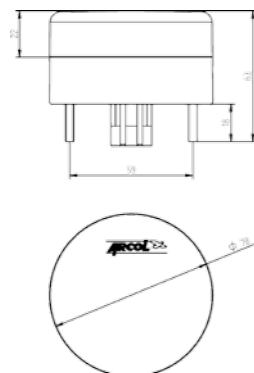
MODEL	FUNCTION
407-B	Front
407-R	Rear

Cover 407



MODEL	FUNCTION
407	Housing for surface fitting

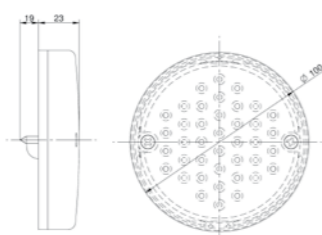
414



AVAILABLE IN 12V. OR 24V.

MODEL	FUNCTION
414-A1	Front turn
414-A1DF	Front turn error detection
414-A2	Rear turn
414-A2DF	Rear turn error detection
414-A2P	Rear turn and tail
414-AT	Rear fog
414-BT	Reversing
414-PS	Tail-stop
414-R	Posterior rear tail
414-DRL	Day light

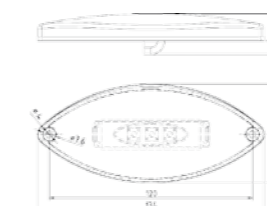
405



AVAILABLE IN 12V. OR 24V.

MODEL	FUNCTION
405-A2F	Rear turn
405-BTF	Reversing
405-PF	Tail
405-PSF	Tail-stop
405-PA2F	Tail rear turn
405-ATF	Rear fog
405-A1SAE	Front turn

311 (Reflex Reflector)

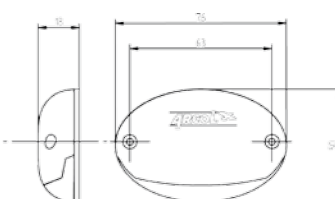


AVAILABLE IN 12V. OR 24V.

MODEL	FUNCTION
311-CT	Side marker-reflex reflector

INS: INTERIOR SCREW

499 (Internal Lights)



AVAILABLE IN 12V. OR 24V.

MODEL	FUNCTION
499-B	White
499-R	Red
499-AZ	Blue



MADE TO MEASURE
 PROTECTION AND SAFETY
 ADAPTABILITY
 TO ALL SURFACES
 NEW IMPROVEMENTS

ROLL UP SUNBLINDS

Comfort and Durability
 are the key

The ideal recommendation for protection, made under customer specific requirements. **High quality products with proven comfort and durability.**

PANTOGRAPHIC



PASSENGER



MANUAL

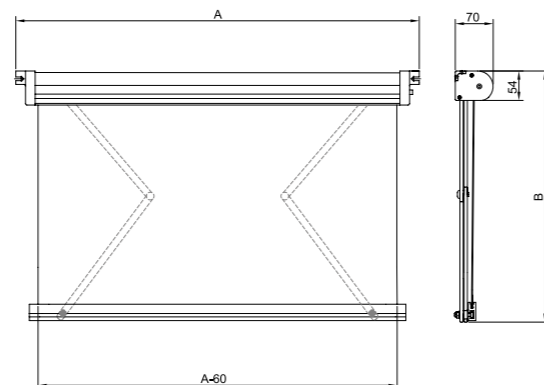


ELECTRICAL



ROLL UP SUNBLINDS

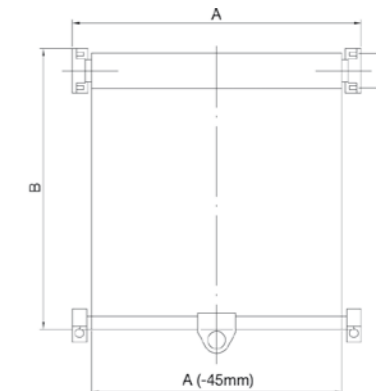
Pantographic



Manual or electric version

ACCORDING TO APPROVAL R-118 AND EN45545

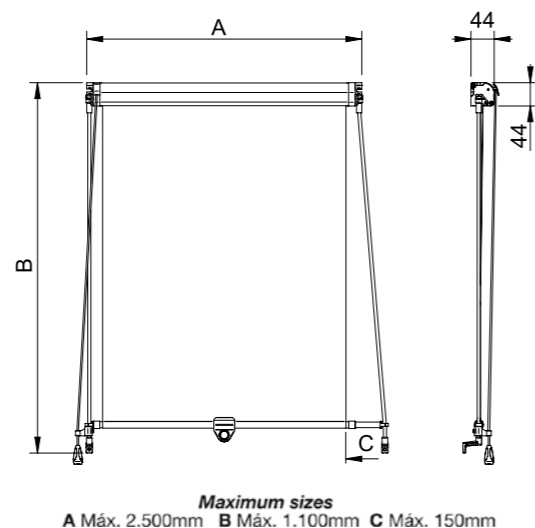
Passenger



Maximum sizes
A Máx. 1.600mm B Máx. 1.100mm

ACCORDING TO APPROVAL R-118 AND EN45545

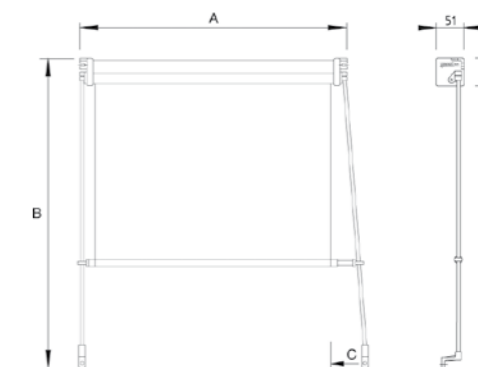
Manual



Maximum sizes
A Máx. 2.500mm B Máx. 1.100mm C Máx. 150mm

ACCORDING TO APPROVAL R-118 AND EN45545

Electrical



Maximum sizes
A Máx. 2.500mm B Máx. 1.200mm C Máx. 150mm

ACCORDING TO APPROVAL R-118 AND EN45545

Colors

Standard sunblinds colour is grey.
Other colours please send your request.

(*) The standard height of the opaque strip/blind strip is 220mm,
but this high can be as per client request.

Textiles



TRANSLUCENT

OPAQUE

TRANSLUCENT
WITH OPAQUE
STRIP*

NEW Electronic Automatic Stop System

Features:

- Improved safety system
- Avoid motor overheating
- Extend sunblind lifetime

NEW

Main features



Slip Ring

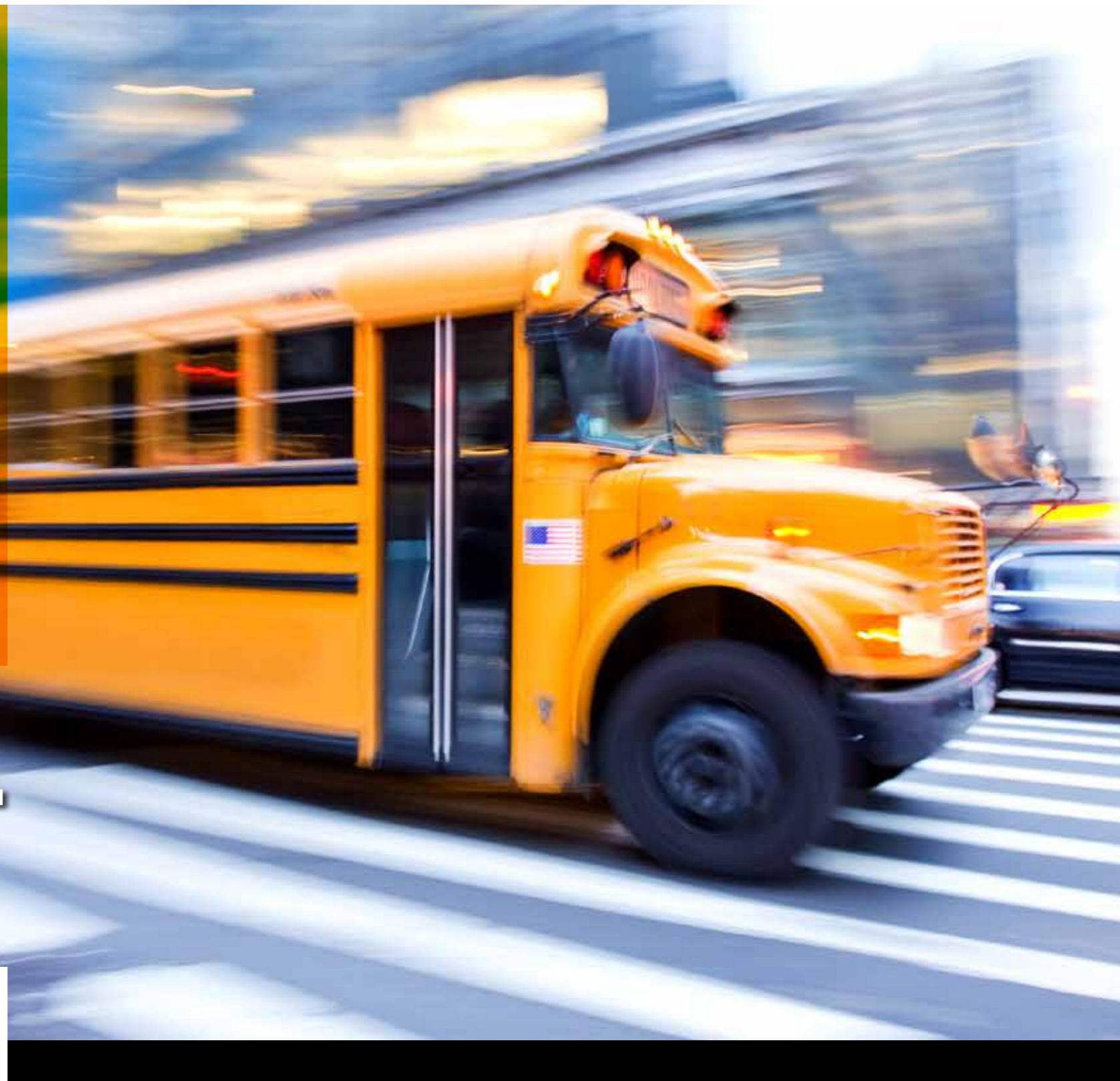
Innovative system of floating rings that allow the curtain to operate without the cables becoming twisted.

FRENCH AND SPANISH
REGULATIONS

LED SCHOOL SIGNALS

PROTECTION AND SAFETY

NEW IMPROVEMENTS



SCHOOL TRANSPORT SIGNALS

Child safety
is important to us all

Our **priority is to ensure the safety for the children** and so we have improved our reflectant School Transport Signals and with LED technology. We have them ready in different sizes and available to meet the regulation's requirement for most of the markets.

LED



SCHOOL SIGNALS

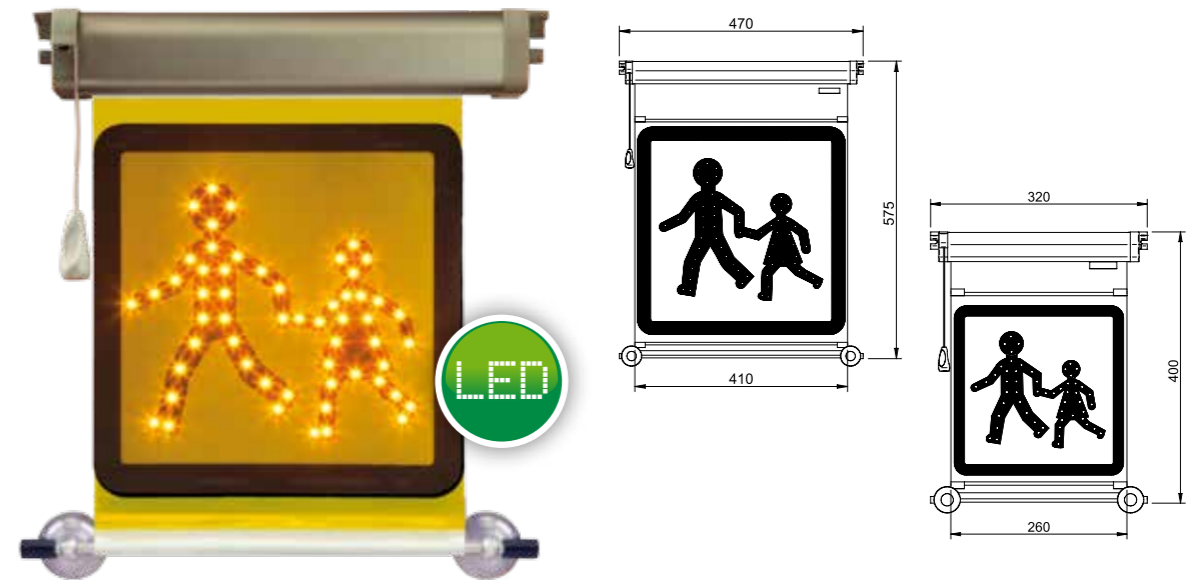
Spanish and french regulation valid in most of the countries

Spanish regulation



ACCORDING TO APPROVAL R-118 AND EN45545

French regulation



ACCORDING TO APPROVAL R-118 AND EN45545



Slip Ring
Innovative system of floating rings that allow the curtain to operate without the cables becoming twisted.



Automatic Power off Sensor

Features:

- » Improved safety system against short-cut
- » Minimize Led temperature
- » Energy saving
- » Extend School signal lifetime

NEW

Optional

Flash Function and Error Detection Device

» Reference **52 33 005**
FLASH.DEVICE SCHOOL LED 12/24V

Features:

- » For both 12V and 24V
- » 3 different protection systems:
 - » Against overvoltage
 - » Short-circuit
 - » Inverted polarity protection

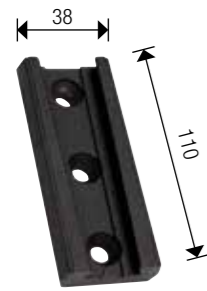


NEW

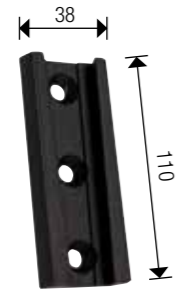
REAR VIEW MIRROR BRACKETS

BRACKETS

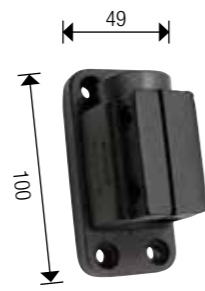
Mod.U
8° leaned



Mod.C
Flat



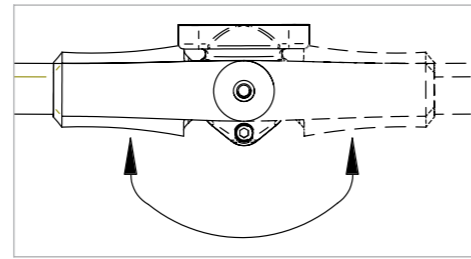
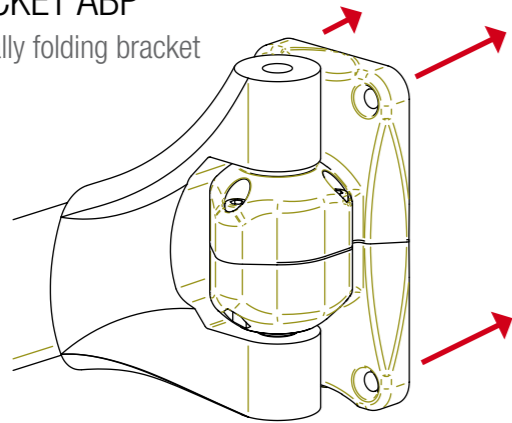
Mod.AJ



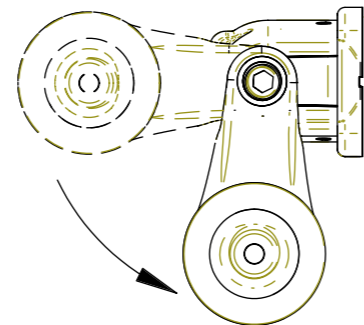
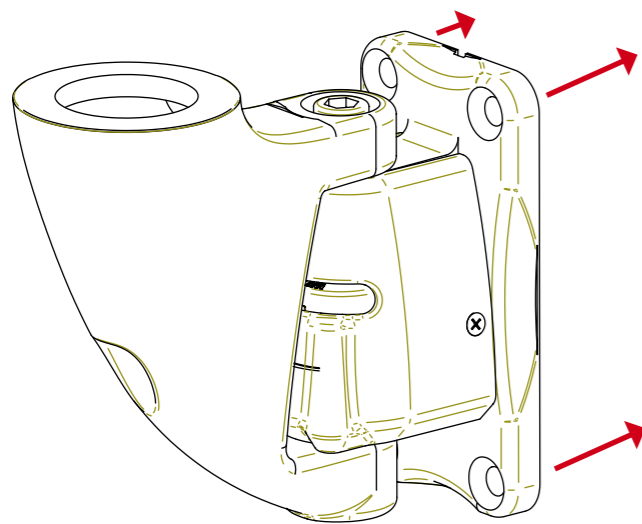
Mod.CAL



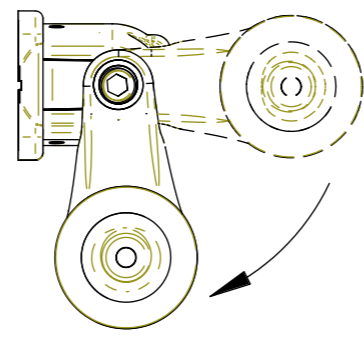
BRACKET ABP
Manually folding bracket



BRACKET ABE
Electrically folding bracket

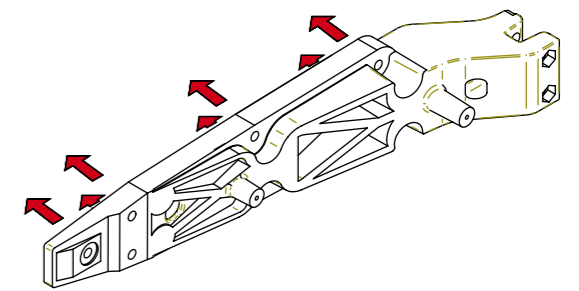
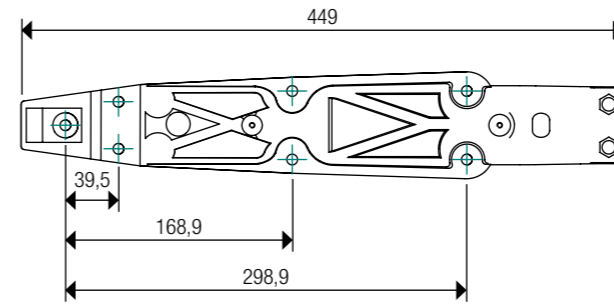


LEFT REAR VIEW MIRROR



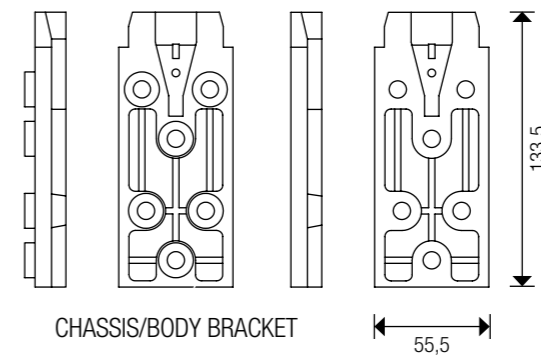
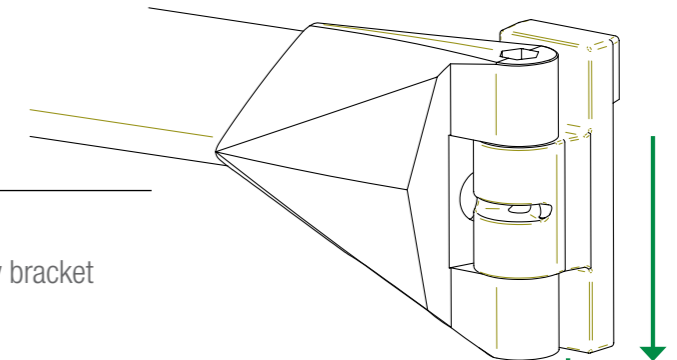
RIGHT REAR VIEW MIRROR

BRACKET SERIE BORN

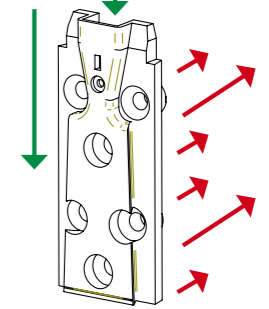


REMOVABLE BRACKET

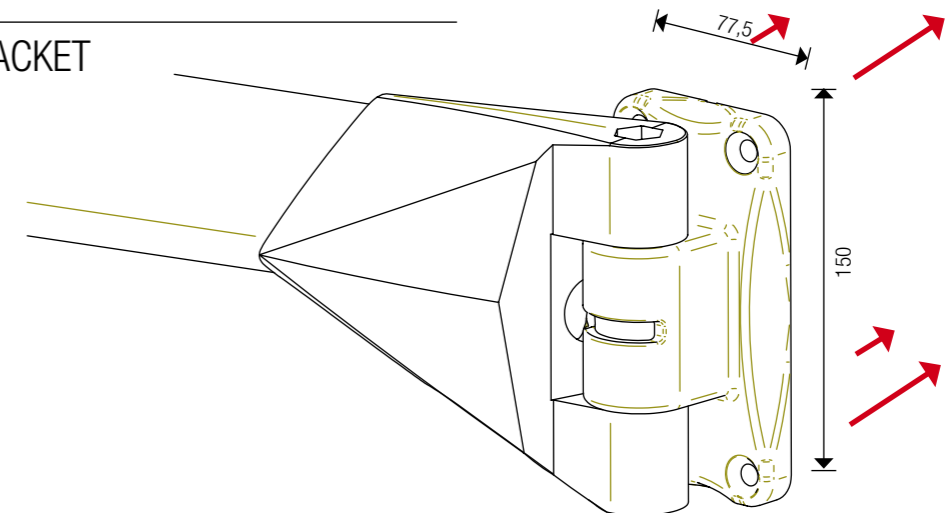
Removable brackets need a chasis/body bracket



CHASSIS/BODY BRACKET

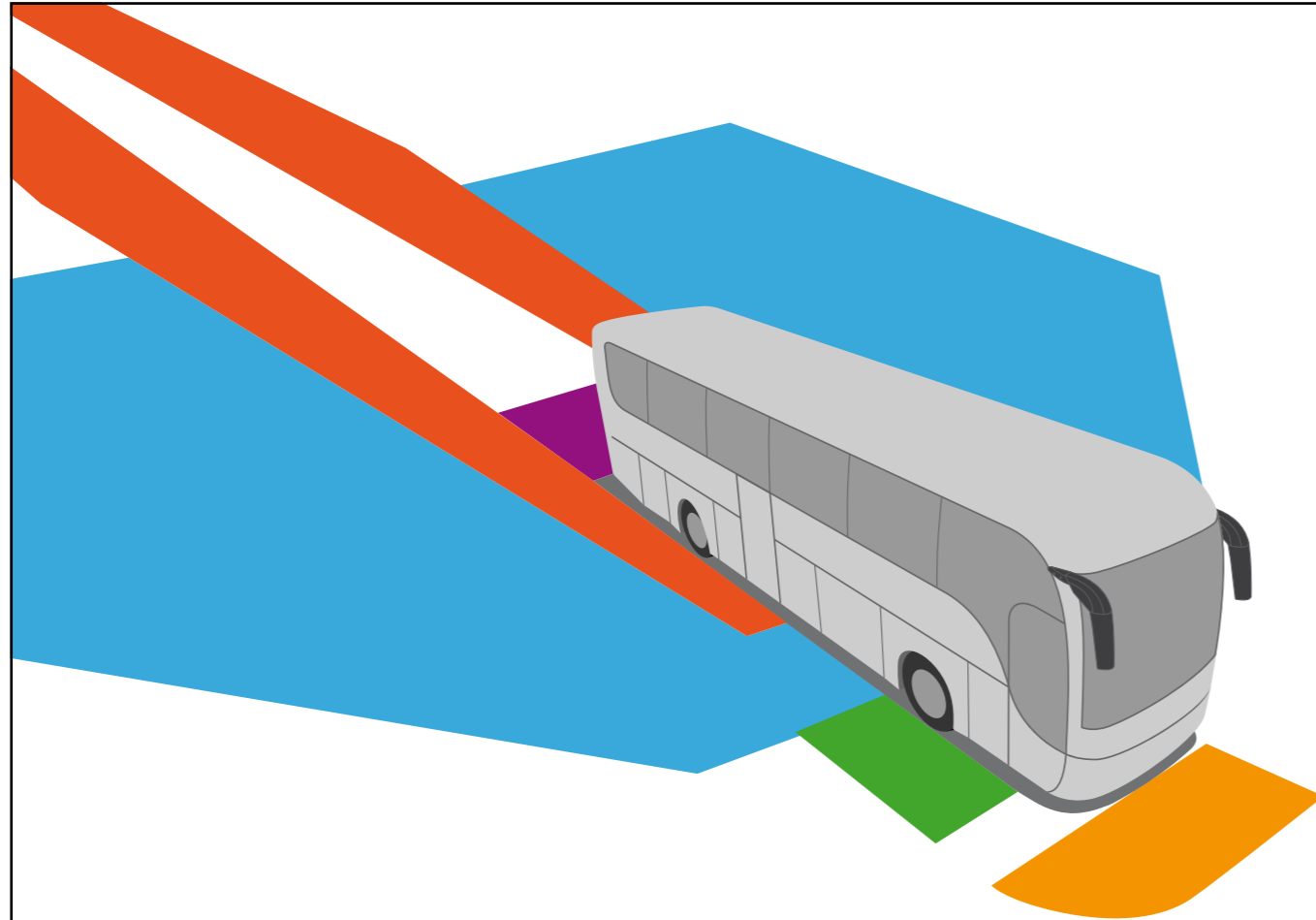


FIXED BRACKET



REAR VIEW MIRRORS LEGISLATION

LAMPS LEGISLATION



ECE Regulation No. 46 - Rev.6 - Devices for indirect vision

Vehicle Category	Category I Interior Mirror	Category II Primary Mirror (Side/ Wing Mirror)	Category III Primary Mirror (Small Mirror)	Category IV Wide-Angle Mirror (Side/ Wing Mirror)	Category V Proximity Mirror (Door Mirror)	Category VI Front Mirror
M2/M3	Optional	Required	Not Permitted	Optional	Optional	Optional
Driver's Side	-	✓	-	✓	✓ ▲ 2m	✓ ▲ 2m
Passenger's Side	-	✓	-	✓	✓ ▲ 2m	✓ ▲ 2m
N2	Optional	Required	Not Permitted	Required	Required	Optional < 7,5t Required > 7,5t
Driver's Side	-	✓	-	✓	Optional ▲ 2m	✓ ▲ 2m
Passenger's Side	-	✓	-	✓	✓ ▲ 2m	✓ ▲ 2m
N3	Optional	Required	Not Permitted	Required	Required	Required
Driver's Side	-	✓	-	✓	Optional ▲ 2m	✓ ▲ 2m
Passenger's Side	-	✓	-	✓	✓ ▲ 2m	✓ ▲ 2m

▲ Fitted at least 2m above the ground

Category M: Vehicles with at least 4 wheels designed to carry passengers.

M2: More than 9 seats, mass below 5 tonnes.

M3: More than 9 seats, mass over 5 tonnes.

Category N: Vehicles designed to carry goods.

N2: Mass between 3.5 to 12 tonnes.

N3: Mass over 12 tonnes.

REGULATION R48 ECE

Function	Obligatory	Optional	Remarks
➡️	2	-	-
➡️	2	2*	*M2, M3 cat. Without clearance light
↔️	2	-	Distance to dipped beam light: 1>40mm.; 1a>20-<40mm.; 1b<20mm.
↔️	2	2*	*M2 and M3 cat.
↔️	2	Minimum	Vehicle length < 6 meters
↔️	2	Minimum	Vehicle length < 6 meters
🛑	2	2*	*Except when S3 cat. Lights are attached
🛑	-	1	Obligatory vehicles M1 cat.
R	2	2	1 Obligatory + 1 Optional for vehicles < 6 meters
🌫️	1	1	>100 mm of Stop Light
☀️	2/2	2/2	Obligatory for vehicles >2.1 meters Optional for vehicles 1.8 and 2.1 meters
📏	2	Par No.	-
📏	According to length of vehicle min. 1 at least one in the middle third	-	Obligatory for vehicles > 6 meters length Optional for vehicles < 6 meters length
DRL	2	-	-



MIRROR SUMMARY

	< 2m.	ELECTRICAL	HEATED	VIDEO CAMERA	RADIO ANTENNA	COURTESY LIGHT	ARM CUT-TO-SIZE	ARM FOLDING	FLAT GLASS	6A. TURN SIGNAL	FIX	FIX & FOLDING	FOLDING ELECTRICAL	PULL OUT	FOLDING PULL-OUT	CATEGORY OF VIEW							
																BRACKETS				II	IV	V	VI
																II	IV	V	VI				
SERIE BORN																							
351	✓	OP	OP	-	OP	-	-	-	-	-	OP	OP	-	OP	OP	✓	OP	-	-				
351-2	✓	OP	OP	-	OP	-	-	-	-	-	OP	OP	-	OP	OP	✓	✓	-	-				
350/331	-	OP	OP	-	OP	-	-	-	-	-	OP	-	-	✓	OP	✓	✓	OP	OP				
SERIE 345																							
345	✓	OP	OP	OP	OP	OP	-	-	-	-	-	✓	-	-	-	✓	-	-	-				
345-2	✓	OP	OP	OP	OP	OP	-	-	-	-	-	✓	-	-	-	✓	✓	-	-				
345/143	✓	OP	OP	-	OP	-	-	-	-	-	✓	OP	OP	✓	-	✓	-	-	-				
345-2/143	✓	OP	OP	-	OP	-	-	-	-	-	✓	OP	OP	✓	-	✓	✓	-	-				
345/250	✓	OP	OP	-	OP	-	-	-	-	-	✓	OP	-	✓	OP	✓	-	-	-				
345-2/250	✓	OP	OP	-	OP	-	-	-	-	-	✓	OP	-	✓	OP	✓	-	-	-				
SERIE 340																							
340	✓	OP	OP	OP	OP	OP	-	-	OP	-	-	-	-	✓	-	✓	-	OP	OP				
340-2	✓	OP	OP	OP	OP	OP	-	-	OP	-	-	-	-	✓	-	✓	✓	OP	OP				
340/220	✓	OP	OP	OP	OP	OP	-	-	OP	-	OP	-	-	✓	-	✓	-	-	-				
340-2/220	✓	OP	OP	OP	OP	OP	-	-	OP	-	OP	-	-	✓	-	✓	✓	-	-				
SERIE AMIDA 0,5																							
333	✓	OP	OP	-	-	-	-	-	OP	-	-	✓	-	-	-	✓	-	-	-				
333-2	✓	OP	OP	-	-	-	-	-	OP	-	-	✓	-	-	-	✓	✓	-	-				
333 A6	✓	OP	OP	-	-	-	-	-	OP	✓	-	✓	-	-	-	✓	-	-	-				
333-2 A6	✓	OP	OP	-	-	-	-	-	OP	✓	-	✓	-	-	-	✓	✓	-	-				
335	✓	OP	OP	-	-	-	-	-	OP	-	-	✓	-	-	-	✓	-	-	-				
335-2	✓	OP	OP	-	-	-	-	-	OP	-	-	✓	-	-	-	✓	✓	-	-				
335 A6	✓	OP	OP	-	-	-	-	-	OP	✓	-	✓	-	-	-	✓	-	-	-				
335-2 A6	✓	OP	OP	-	-	-	-	-	OP	✓	-	✓	-	-	-	✓	✓	-	-				
301/130	✓	OP	OP	-	-	-	-	-	OP	-	-	✓	-	-	-	✓	-	-	-				
301-2/130	✓	OP	OP	-	-	-	-	-	OP	-	-	✓	-	-	-	✓	✓	-	-				
323	✓	OP	OP	-	-	-	-	-	OP	-	OP	-	-	✓	OP	✓	-	-	-				
323-2	✓	OP	OP	-	-	-	-	-	OP	-	OP	-	-	✓	OP	✓	✓	-	-				
SERIE AMIDA																							
314	✓	OP	OP	-	-	-	✓	-	OP	-	OP	OP	-	✓	OP	✓	-	OP	OP				
314-2	✓	OP	OP	-	-	-	✓	-	OP	-	OP	OP	-	✓	OP	✓	✓	OP	OP				
324	✓	OP	OP	-	-	-	✓	-	OP	-	OP	OP	-	✓	OP	✓	-	OP	OP				
324-2	✓	OP	OP	-	-	-	✓	-	OP	-	OP	OP	-	✓	OP	✓	✓	OP	OP				
314/143	✓	OP	OP	-	-	-	-	-	OP	-	OP	OP	OP	✓	OP	✓	-	-	-				
314-2/143	✓	OP	OP	-	-	-	-	-	OP	-	OP	OP	OP	✓	OP	✓	✓	-	-				

	< 2m.	ELECTRICAL	HEATED	VIDEO CAMERA	RADIO ANTENNA	COURTESY LIGHT	ARM CUT-TO-SIZE	ARM FOLDING	FLAT GLASS	6A. TURN SIGNAL	FIX	FIX & FOLDING	FOLDING ELECTRICAL	PULL OUT	FOLDING PULL-OUT	CATEGORY OF VIEW							
																BRACKETS				II	IV	V	VI
																II	IV	V	VI				
SERIE AMIDA 1,5																							
330	✓	OP	OP	OP	OP	-	✓	-	OP	-	OP	-	-	✓	OP	✓	-	OP	OP				
330-2	✓	OP	OP	OP	OP	-	✓	-	OP	-	OP	-	-	✓	OP	✓	✓	OP	OP				
331	✓	OP	OP	OP	OP	-	✓	OP	OP	-	OP	-	-	✓	OP	✓	-	OP	OP				
331-2	✓	OP	OP	OP	OP	-	✓	OP	OP	-	OP	-	-	✓	OP	✓	✓	OP	OP				
330/183	✓	OP	OP	OP	OP	-	-	-	OP	-	OP	-	-	✓	OP	✓	-	-	-				
330-2/183	✓	OP	OP	OP	OP	-	-	-	OP	-	OP	-	-	✓	OP	✓	✓	-	-				
331 ABB	✓	OP	OP	OP	OP	-	-	✓	OP	-	OP	-	-	✓	OP	✓	✓	-	-				
331-2 ABB	✓	OP	OP	OP	OP	-	-	-	OP	-	OP	-	-	✓	OP	✓	✓	-	-				
331-2V	✓	OP	OP	OP	OP	-	✓	OP	OP	-	OP	-	-	✓	OP	✓	-	✓	OP				
SERIE 300																							
307	✓	OP	OP	-	-	-	-	-	OP	-	OP	-	-	✓	-	✓	-	OP	OP				
307-2	✓	OP	OP	-	-	-	-	-	OP	-	OP	-	-	✓	-	✓	✓	OP	OP				
307/316	-	OP	OP	-	-	-	-	-	OP	-	OP	-	-	✓	-	✓	✓	OP	OP				
308	✓	OP	OP	-	-	-	-	-	OP	-	OP	-	-	✓	-	✓	-	-	-				
308-2	✓	OP	OP	-	-	-	-	-	OP	-	OP	-	-	✓	-	✓	✓	-	-				
308/316	✓	OP	OP	-	-	-	-	-	OP	-	OP	-	-	✓	-	✓	✓	-	-				
309	✓	OP	OP	-	-	-	-	-	OP	-	OP	-	-	✓	-	✓	-	RM	LM				
309-2	✓	OP	OP	-	-	-	-	-	OP	-	OP	-	-	✓	-	✓	✓	RM	LM				
309/316	-	OP	OP	-	-	-	-	-	OP	-	OP	-	-	✓	-	✓	✓	RM	LM				
313	✓	OP	OP	-	-	-	-	-	OP	-	OP	-	-	✓	-	✓	-	OP	OP				
313-2	✓	OP	OP	-	-	-	-	-	OP	-	OP	-	-	✓	-	✓	✓	OP	OP				
313/316	-	OP	OP	-	-	-	-	-	OP	-	OP	-	-	✓	-	✓	✓	OP	OP				
SERIE GAUDI																							
320	✓	OP	OP	-	-	-	-	-	OP	-	OP	-	-	✓	-	✓	-	OP	OP				
320-2	✓	OP	OP	-	-	-	-	-	OP	-	OP	-	-	✓	-	✓	✓	OP	OP				
320/316	-	OP	OP	-	-	-	-	-	OP	-	OP	-	-	✓	-	✓	✓	OP	OP				
321	✓	OP	OP	-	-	-	-	-	OP	-	OP	-	-	✓	-	✓	-	-	-				
321-2	✓	OP	OP	-	-	-	-	-	OP	-	OP	-	-	✓	-	✓	✓	-	-				
321/316	✓	OP	OP	-	-	-	-	-	OP	-	OP	-	-	✓	-	✓	✓	-	-				
S. 200																							
Serie 200 (Cast arm)	✓	-	OP	-	-	-	-	-	OP	-	-	OP	-	OP	OP	✓	-	OP	OP				
Serie 200 (Tube arm)	✓	-	OP	-	-	-	-	-	OP	-	-	OP	-	OP	OP	✓	-	OP	OP				

Yes
 OP Opcional
 - No
 RM Right mirror
 RM Left mirror

CAMERAS & LAMPS SUMMARY

CAMERAS	MODEL	PLACE							FUNCTION		MINIMUM ILLUMINATION	ANGLE	SENSOR	X	Y	Z
		REAR	SIDE	DOOR	CLASS V	CLASS VI	INTERIOR	FRONT	PARKING LINES	MIRROR IMAGE						
	C	✓						OP	OP		0,3 LUX	120	CMOS	22,8	18,5	30
	C-45H	✓						OP	OP		0,3 LUX	170	CMOS	32,5	29,5	28
	C-45V	✓						OP	OP		0,3 LUX	170	CMOS	32,5	29,5	28
	C-S	✓	✓	✓				OP	OP		0,3 LUX	170	CMOS	42,5	34	24
	C-EB	✓	✓	✓	✓	✓	✓	OP	OP		0,3 LUX	150	CMOS	31,8	27,8	23,3
		✓	✓	✓	✓	✓	✓	✓	OP	OP		0,3 LUX	170	CMOS	29,9	24,8
	C-IR	✓						✓	✓	✓	< 0,05 LUX	120	CCD	81	98	70,5

LED LAMPS	Model	DIMENSIONS (Circular Models)	FRONT TURN	FRONT TURN & ERROR DETECTION	FRONT TURN CLEAR	REAR & TURN	REAR TURN & ERROR DETECTION	REAR TURN & TAIL	REAR FOG	POSITION	REVERSING	TAIL	STOP	CENTER STOP	TAIL & STOP	REAR TAIL	DAY RUNNING LIGHT
		(mm.)	A1	A1D	A1B	A2	A2D	A2P	AT	B	BT	P	S	SS	PS	R	DRL
	414	78 Ø	✓	✓	-	✓	✓	✓	✓	-	✓	-	-	-	✓	✓	✓
	405	100 Ø	✓ SAE	-	-	✓	-	✓	✓	-	✓	-	-	-	✓	✓	-
	322	136 Ø	-	-	-	✓	-	-	-	-	✓	-	-	-	✓	-	-

LED CLEARANCE LAMPS	Model	DIMENSIONS (mm.)	FRONT (WHITE)	REAR (RED)	AMBER	GREEN
			B	R	A	V
	407	66 x 34	✓	✓	-	-

LED REFLECTOR	Model	DIMENSIONS (mm.)	CAT. V.	CAT. VI	SIDE MARKER & REFLECTOR	REAR REFLEX REFLECTOR
			A-5	A-6	CT	C
	311	134 x 58	-	-	✓	-

INTERNAL LED LIGHTS	Model	DIMENSIONS (Circular Models)	WHITE	RED	BLUE	GREEN	GLASSÉ	WHITE WITH SWITCH	WHITE WITH SOFT LIGHT
		(mm.)	B	Red	AZ	V	H	I	P
	499	76x50	✓	✓	✓	-	-	-	-
	461	100x50	✓	-	-	-	-	-	-
	461i	100x50	✓	-	-	-	-	✓	-



SINCE 1942

WWW.ARCOL.ES



INDUSTRIAL ARCOL, S.A.

Juan de la Cierva, 4 Pol. Ind. Valldoriolf 08430 La Roca del Vallès
Barcelona (Spain)

Tel. + 34 93 860 02 02 Fax. + 34 93 860 02 03

info@arcol.es - www.arcol.es

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the policy of development and continuous improvement of our products.

