RENAULT
Passion for life

Renault Store - Technical specifications

Renault SELECTION

Contents

General requirements

General remarks

Technical principles

1
Technical requirements

General technical requirements

1.1 Preamble

RENAULT expects all those involved in the "Renault Store" programme to meet their obligations in terms of results as per the requirements of the Technical Specifications. The general rules and specificities set out below are to be considered as the minimum necessary that has to be done to achieve the expected result.

1.2. Safety of persons and property

The supplier shall be able to provide proof that it has analysed the risks related to the services it is to provide and that its personnel and any sub-contractors have undergone sufficient training. Strict compliance with legislation in terms of safety and protection of workers is required.

1.3. Respect for the environment

Materials and methods which make it possible to reduce harm to the environment shall be used wherever possible (recyclable materials, energy-saving technologies, toxicity of materials and products used, etc.).

The supplier shall be able to provide proof that it has the various administrative permits (operating permit, environmental permit) necessary to manufacture the various items of equipment and that it complies with the operating conditions required by the legislation in force or by the specific operating conditions in the countries concerned.

A global approach such as the ISO 14001 standard is recommended. e.

1.4. Quality

The supplier shall be able to provide proof that it works in accordance with ISO 9000 quality assurance standards, formal certification being particularly recommended in this regard. The signwriter shall attach a specific Quality Plan to its offer to assure RENAULT of its capacity to supply finished products and spare parts that are compliant with the contractual requirements, within the set time periods. It shall request its sub-contractors to do likewise.

The procedures applied must make it possible to:

- Be sure that the parts and products purchased, manufactured and supplied shall neither be used nor delivered before they have been checked and be recognized as compliant.
- Procedures shall be set out for identifying causes of non-compliance, which make it possible to provide sustainable solutions that can be applied more widely to resolve the non-compliance and prevent it reoccurring.

These operations shall be recorded in the appropriate documents and be approved by RENAULT prior to being applied more widely.

- Track changes in the quality of products and assembly and removal services using inspection and audit indicators (incidents, complaints, etc.).

This tracking shall result in preventive or corrective actions; they shall be approved by RENAULT before being applied.

General technical requirements

1.5. Compliance of messages and colours

Visuals must comply with the official images contained in this document.

All shades have a 40% satin finish unless specified otherwise. Particular attention should be paid to complying with the colour code.

Compliance with the tolerances for the L.a.b. is required.

2.1. General technical standards

The reference base to be followed for design and manufacturing shall, at the very least, be that required by Eurocode standards.

The regulations relating to the dimensioning of structures in force in each of the countries concerned shall be complied with taking climatic conditions into account.

The following obligations in terms of results must be met:

- Supported under their own weight, the equipment must appear perfectly horizontal and vertical.
- The parallel alignment of separate elements must be observed.
- Under normal wind conditions (Cf. NV65 and NF EN1991-1-4 (Eurocode 1)), the permissible bend between the fastening and the point most distant from the fastening (dimension "d") shall not exceed d/100.

2.1.1. CLIMATIC CONDITIONS

Wind loads to be considered for the design of structures shall be taken from the Eurocode 1 rules (EN 1991-1-3): zones 4 (28 m/s), roughness IIIb, force coefficient equal to 1.80.Any structure situated in an unfavorable geographical area with regard to this load case shall be subject to a special design basis in order to meet the applicable standards.

2.1.2. DESIGN RULES

2.1.2.1 Aluminium structures

Design rules for aluminium structures - most recent edition of DTU rules (currently, July 1976).

Applicable standard for the execution of structures: NF EN 1090-2 and Eurocode 9.

2.1.2.2 Steel structures

Design rules for steel structures CM 66 » - most recent edition.

Applicable standard for the execution of structures: EN 1093 and Eurocode 3.

2.1.2.3 Concrete blocks

Concrete blocks shall be of "weight" type with minimum reinforcement.

The concrete to be used shall have an ordinary Portland cement (OPC) content of 400 kg/m3 (s' 28=300 bars - s28=25 bars).

General technical requirements

2.1.2.4 Design calculations for plastic elements

Adapt the CM 66 rules using a safety coefficient of 2 for the stresses.

2.1.3. MATERIALS

2.1.3.1 General remarks

The materials used shall all be first-choice materials suitable for their envisaged use and they shall be used in accordance with the rules of best industry practice for the profession and in compliance with the standards and regulations in force in France and in the Countries in which they are intended to be used.

The materials used shall not have any defect that is likely to compromise the durability of the structures. The equipment shall be easy to clean, maintain and service.

The materials shall be capable of withstanding harsh climatic conditions such as rain, snow, hail, condensation, dust and salt spray.

Operation must be guaranteed between - 20 and + 80 ° C.

2.1.3.2 Steels

Steels shall be either "hot finished" as per NF EN 10210 or "cold finished" as per NF EN 10219-1 and 2. The quality of the steels shall be stated on the production drawings and it goes without saying that the mechanical properties of the different types of steels must be taken into account for stability calculations.

All elements shall be manufactured in a covered, sheltered location.

After machining, welding, drilling, notching, etc. the elements shall be prepared prior to anti-corrosion treatment: brushing of welds, careful deburring, cleaning, shot peening and sand blasting.

The anti-corrosion treatment shall be performed by hot galvanization of a minimum of 80 µm and shall provide fault-free protection for at least the period of the ten-year guarantee.

No machining may be carried out once the parts have undergone anti-corrosion treatment.

All fasteners and hardware (including hinges) shall be made of 18/10 stainless steel (NFE 25.033).

2.1.3.3. Aluminium

The reference standard is NF EN 573-1. Parts used in a supporting structure shall be chosen from the "6000" series. For parts which are not used in a supporting structure, the "1000" series shall be acceptable.

The alloys are to be weldable.

The parts shall be carefully deburred and the welds shall be brushed before any protective treatment.

The visible parts of equipment shall be treated by the application of paintwork performed according to a "Qualicoat"-type procedure.

General technical requirements

2.1.3.4. PMMA

The PMMA shall meet at least the following characteristics:

	Flat parts machined "cast" PMMA	Flat parts unmachined "extruded" PMMA
• Opal white (values for a test piece of 3mm thick)		
• Tensile strength	> 75 MPa	> 70 MPa
• Bending strength	> 130 MPa	> 120 MPa
• Bending modulus	> 3,250 MPa	> 3,000 MPa
• Unnotched CHARPY impact test strength	> 12 MPa	>10 MPa
• Expansion	< 1 mm / 1 m / 10°C	<1 mm / 1 m / 10°C
• Light transmittance	> 50 %	>33 %

The thermoformed panels shall be made of white, light diffusing, extruded PMMA in compliance with the sheet manufacturer's heating parameters.

Where parts made of PMMA are more than 100 cm high, they shall be hung from the top by an adhesive PMMA cleat.

The thickness of the sheets shall be calculated in compliance with the tensile strength standards set out above.

2.1.3.5. Polycarbonate

The polycarbonate sheet shall meet at least the following characteristics:

- Uncoloured appearance
- Density > 1.2 g/cm3
- Tensile strength: 60 Mpa
- Expansion < 0.7 mm / 1 m / 10°C
- Light transmittance > 90%

2.1.3.6. Expanded foam

These following characteristics must be met:

- Material 9010 white PVC
- Density > 50 g/cm3
- UV-stabilized: 14 MPa
- Shore hardness D > 75
- Expansion < 1 mm / 1 m / 10°C

2.1.3.7. Paint

Painted parts must have an even appearance across their entire surface.

Defects such as pores, fissures, grains of dust, runs or waves of paint shall not be tolerated.

General technical requirements

Samples of painted rough parts shall be tested and accepted by RENAULT, after having undergone the following tests performed by a certified body:

- Colour based on a LAB test with a MINOLTA 508 D colorimeter with D65 illuminant and the observer at 10° and specular component included (the tolerances in the CIELAB colour space are L +/- 1, a +/-1.5, b +/- 1.5).
- Gloss at 40 °: based on a test according to NF T 30064 standard.
- Gloss at 60 °: based on a test according to NF T 30064 standard
- Adhesion: resistance to peeling based on grid test.

  Class 1, as per P UW 150 1. NF T 30038 standard
- Colourfastness:

  QUV as per NF T 30036 after 200 hours of exposure.

Samples of each of the elements shall be supplied, upon request, to RENAULT for inspection.

2.1.4. ELECTRICAL EQUIPMENT

Assemblies with electrical equipment shall comply with the essential safety requirements of the European Union. Within this framework, the supplier shall obtain a certificate (for each type of equipment) which must clearly state the compliance of the assemblies, and thus of the components, with:

- requirements relating to the safety and protection of users and all other persons (directive 73/23/EEC without any lower voltage threshold)
- requirements relating to electromagnetic compatibility (directive 89/336/EEC).

The rating plate on each item of equipment shall display the CE mark indicating compliance with these requirements.

The regulations relating to low-voltage signage in force in each of the countries concerned shall be complied with taking climatic conditions into account.

In addition, the following requirements shall be met:

Electrical equipment shall be compliant with the standards in force from the series NFC 15-100, NFC 20-010 and NFC 20-030, NFC 71, NFC 32 for France and the IEC 60364 international standard.

This concerns the following in particular:

- Category one electrical installations and low-voltage illuminated signage installations.
- The fire behaviour of electrical equipment and the degree of protection of enclosures,
- Flexible and rigid low-voltage cables.

In addition, the equipment shall comply regulations relating to the suppression of interference in inhabited areas and shall thus be delivered with interference suppression.

General technical requirements

2.1.4.1 IP rating

All the electrical equipment shall have a protection rating of at least IP 44-D.

2.1.4.2 Protection against electric shock

All equipment shall be "class 1".

2.1.4.3 Fasteners

The converters shall be placed in areas not subject to standing water.

The cables and sheaths shall be fastened to structures at 50 cm intervals.

2.1.4.4 Cable routing

Every cable or sheath passing through a metal part shall be routed through a cable gland.

Connection boxes.

An IP 44 sealed plastic connection box shall be provided at the inlet to each assembly. This box shall be equipped with a 5-input connection pin for 4 mm wiring.

All the connection boxes shall have the markings P1+P2+P3+T+N.

2.1.4.5 LEDs

The white LEDs used shall have the following characteristics:

- Lifetime: 50,000 hours for a loss of initial luminous flux of 50 % at the end of the period
- 5 year guarantee for operation 10 hours per day with a maximum loss of luminous flux of 20 %
- Operating temperature of LEDs: between - 20° C and +50 °C.
- Minimum protection index: IP 67
- The LEDs used must comply with the following international standards: IEC 62504 TS Ed. 1, IEC 61231, IEC 62560 Ed 1, IEC 62031 LED module safety, IEC 61347-2-13 LED control gear.

2.1.4.6 Converters

The power supply converters for the LEDs shall have the following characteristics:

- Wide power supply voltage range (100 to 300 volts)
- Reversible protection against increase in temperature and overload
- Protection against short-circuits with automatic restart
- Minimum protection index: IP 67
- Operation compliant with: EN 55015, EN 61000-3-2, EN 61547, EN 61558-2-17

General technical requirements

2.1.5. FASTENERS AND HARDWARE

All fasteners and hardware used shall be made of stainless steel (non-magnetizable).

Aluminium "pop" rivets are accepted as long as the steel rods are systematically removed.

For welding, the wires and electrodes are to be compliant with NF 81.830.

2.1.6. ANCHORING SYSTEMS AND FASTENINGS

The plinths for all equipments shall be completely removable without having to remove another element of the assembly. The plinths shall cover the attachment plates or fastenings. The attachment plates shall be easily accessible once the plinths have been removed.

For each of the assemblies which require a foundation block or fastening to a separate structure, the signwriter shall provide the elements necessary, as well as the conditions to be used to make design calculations for these elements (wind conditions and design calculation methods).

2.1.7. IDENTIFICATION PLATE

Each finished product shall be marked with a metal identification plate on the structure which shall show at least the following information:

- Name of the signwriter
- Product code and batch
- Month and year of manufacturing
- The CE Marking if it is illuminated.

2.1.8. STORAGE

The finished products shall be stored in a dry and well-ventilated location.

RENAULT inspectors shall be able to have access to them at any time.

2.2. Guarantees

The suppliers undertake to offer the guarantee conditions below for their products:

- 2 year guarantee on the installation against defects and faulty workmanship,
- 5 year guarantee on the electrical equipment including the LEDs and converters,
- 5 year guarantee on the adhesive elements,
- 5 year guarantee on digital printing (anti UV treatment),
- 5 year guarantee on workshop-lacquered sheet metal,
- 5 year guarantee on the chrome-plated diamonds,
- 7 year guarantee on sheet metal and profiles pre-lacquered by the aluminium manufacturer,
- 10 year guarantee on the internal structures,
- 10 year guarantee on the PMMA acrylic panels.

2
General remarks

Overview

Description

The following different components are involved in the identification and layout of Renault SELECTION display areas:

- Signage arch,
- Customer promise signs,
- Lighting masts,
- Bay signs,
- Standards.

NOTE: The "Renault SELECTION" designation is the generic term. Country-specific designations may exist with the approval of Regions and the function.

Colours and materials

RAL 9010 satin white

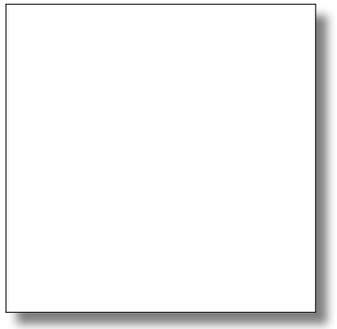
- Pre-lacquered aluminium in satin finish with 40% gloss

Dark grey equivalent to RAL 7021

- Pre-lacquered aluminium or steel in satin finish with 40% gloss

Pantone 7408 EC yellow

- Printing or dye on polyester fabric 130 g/m^2



Pure White

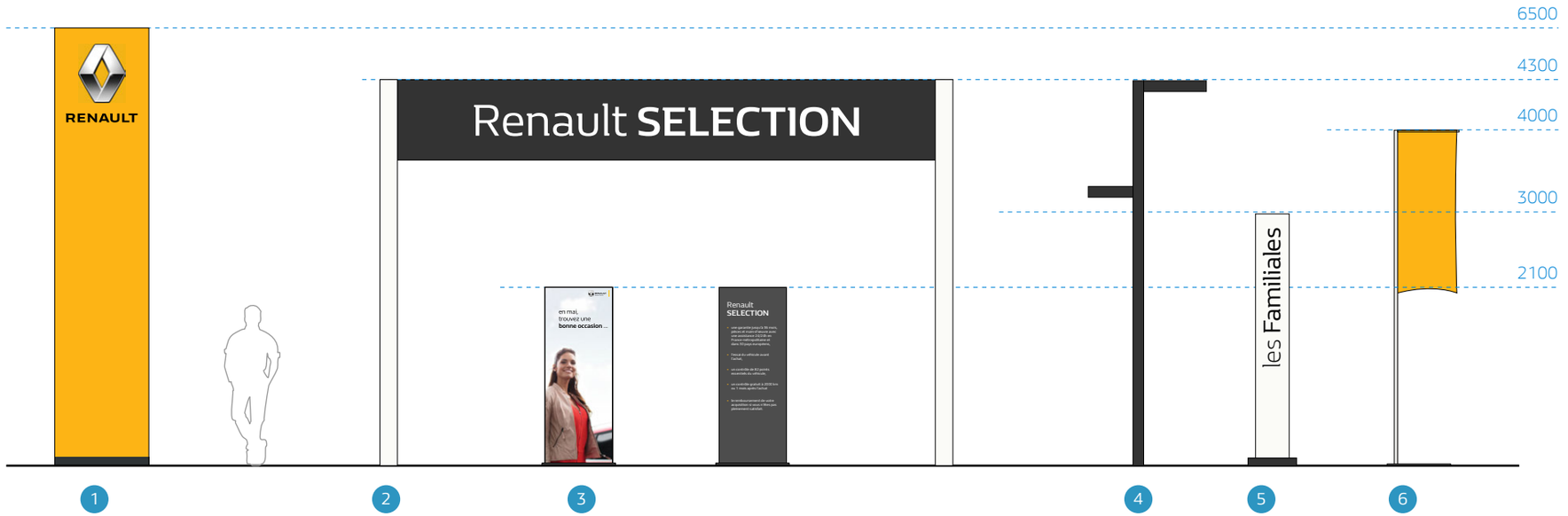
- Epoxy paint in a RAL 9003 matt or satin finish
- Light-diffusing PMMA Light transmittance 50%

3
Technical principles

Components

Key

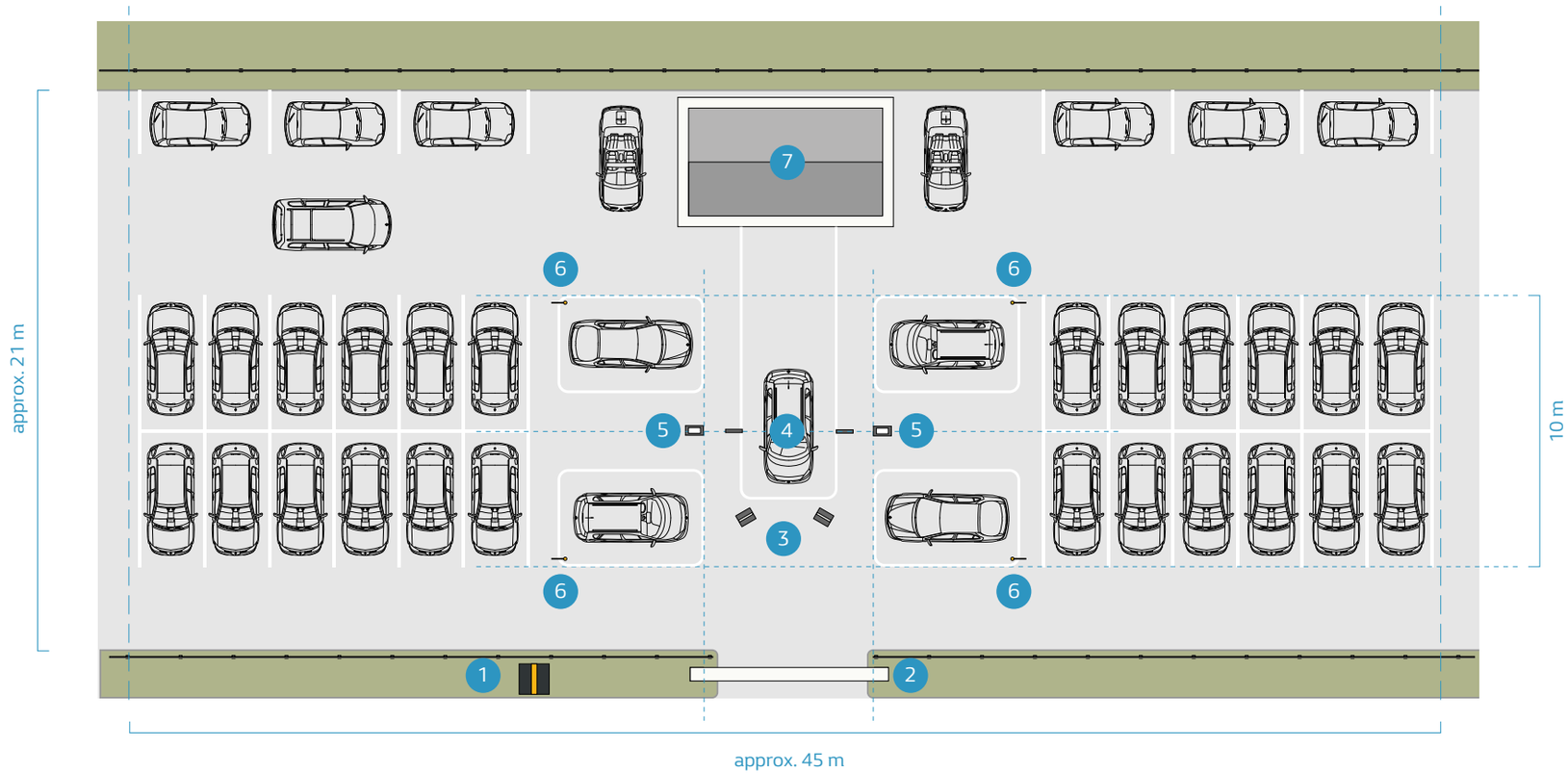
1. Renault Totem
2. Arch
3. Customer promise signs
4. Lighting masts
5. Bay signs
6. Standard



Typical installation of components

Key

1. Renault Totem
2. Arch
3. Customer promise signs
4. Lighting masts
5. Bay signs
6. Standards
7. Sales area



Signage arch

Principle

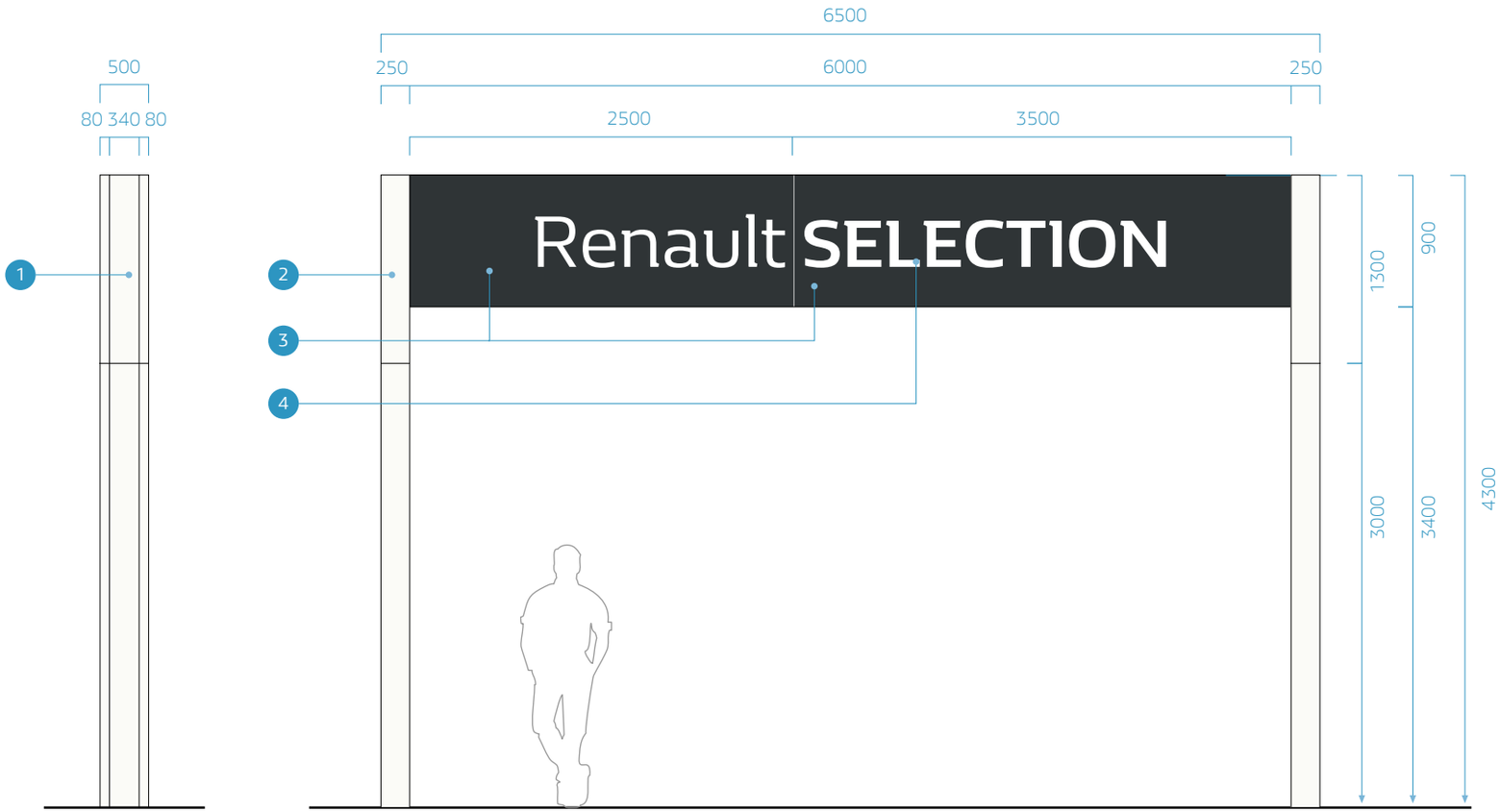
The arch identifies Renault SELECTION exterior displays.

Located at the entry to the Renault SELECTION display area, it is positioned in the axis of the central bay.

Key

1. Cladding of the edge of the posts in RAL 9010 white aluminium sheeting with 40% gloss
2. Cladding of the structure in pre-lacquered RAL 9010 white aluminium sheeting with 40% gloss
3. Front panel in pre-lacquered RAL 7021 dark grey aluminium sheeting with 40% gloss
4. Lettering in light-diffusing white PMMA pasted on the back of the front panel

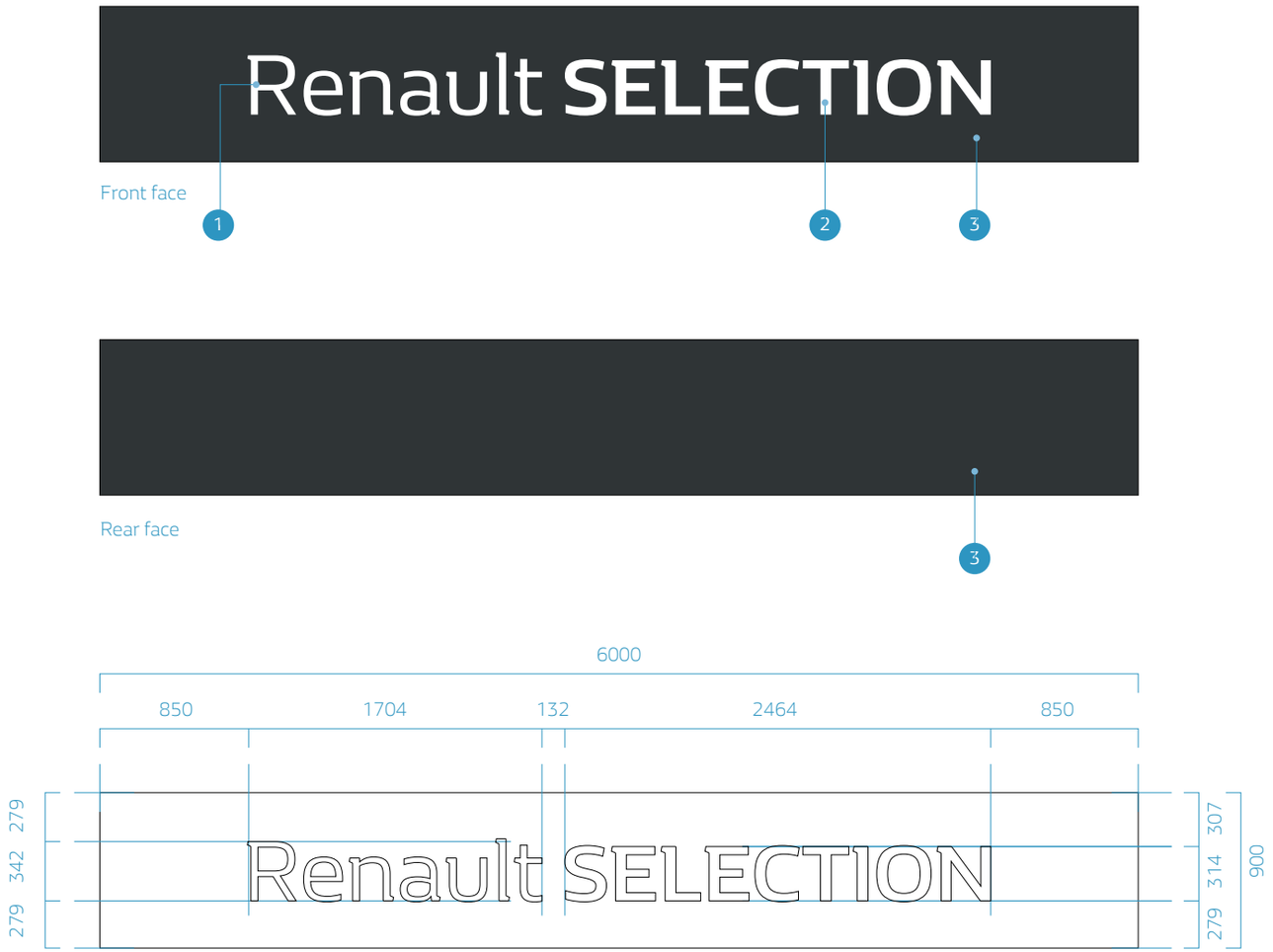
NOTE: The previous generation of arches can be retrofitted allowing the internal structure to be retained once the cladding sheets have been removed.



Drawings of front panel of arch

Key

1. The word “Renault” in reverse white type, Renault Life Regular typography, upper case on the "R", lower case on all other letters, left aligned, standard tracking
2. The word “SELECTION” in reverse white type, Renault Life Bold typography, upper case, left aligned, standard tracking
3. RAL 7021 dark grey satin finish background



Lighting of arch

Description

The face is lit with chain LEDs.

The converter is mounted inside the box.

Performance characteristics

Chain LED with minimum IP65 protection rating.

Temperature: 6,500° K Cool White.

Mean luminance: 250 cd/m^2 with a maximum of 300 cd/m^2 .

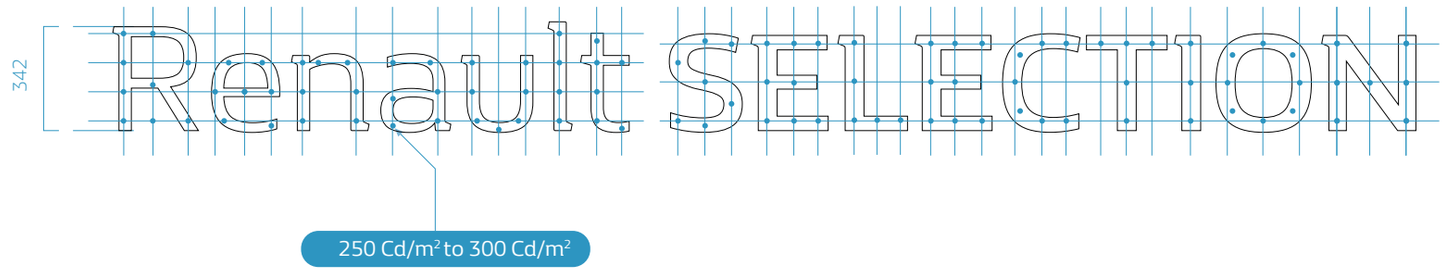
The warranty for all LED lighting systems and parts is 5 years, subject to compliance with conditions of use and maintenance.

Light output reduced by 50% after 50,000 hours operation.

Minimum guaranteed lifetime: 50,000 hours.

Supply: 220 volts

12 volt converter with regulated voltage, IP 68 protection.



The dots are a schematic representation of the measurement points that should present similar light intensity values in order to obtain even lighting across each of the letters of the word Renault.

The readings, performed with a calibrated luminance meter, should ideally be performed without light interference and at a distance of between 1 and 2 m from the letter face.

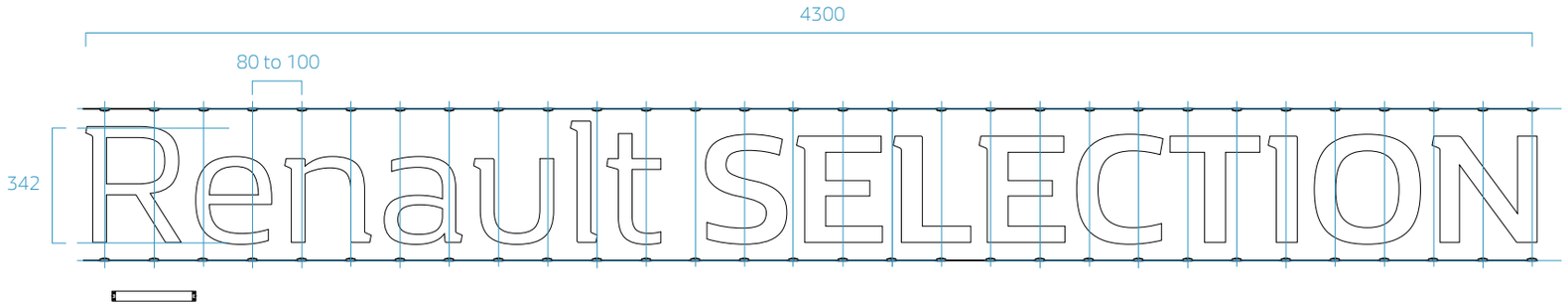
Installation of lighting

Principle

This recommendation is made on the basis of a 20 lumens module with a luminous efficacy of 90 to 100 lumens/watts.

The instruction remains indicative and shall require a validation and a test for compliance with the performance targets indicated in this document.

The LEDs are installed perpendicular to the face. Spacing of the LEDs shall be adjusted to achieve a regular luminous flow on the PMMA face.



Description

- Temperature: 6,500° K Cool White.
- Module power rating: 20 lumens
- Luminous efficacy: 90-100 lm/watt
- Converter, 12 volts, constant current
- Number of modules: 90
- Approx. power consumption : 22 watts

Anchoring of arch

Ground attachment system

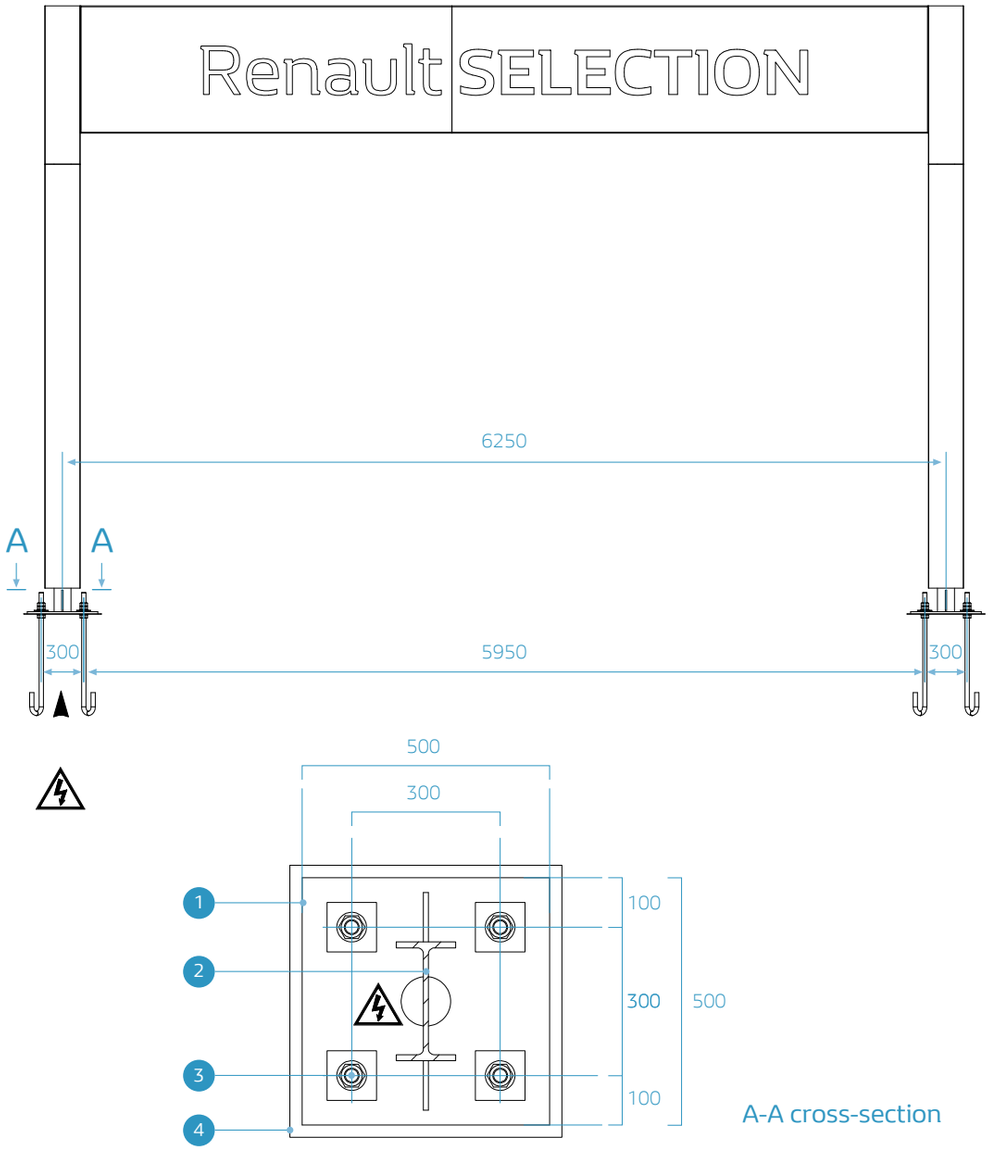
The arch is anchored to the ground via two plates fitted with four M24 anchoring rods.

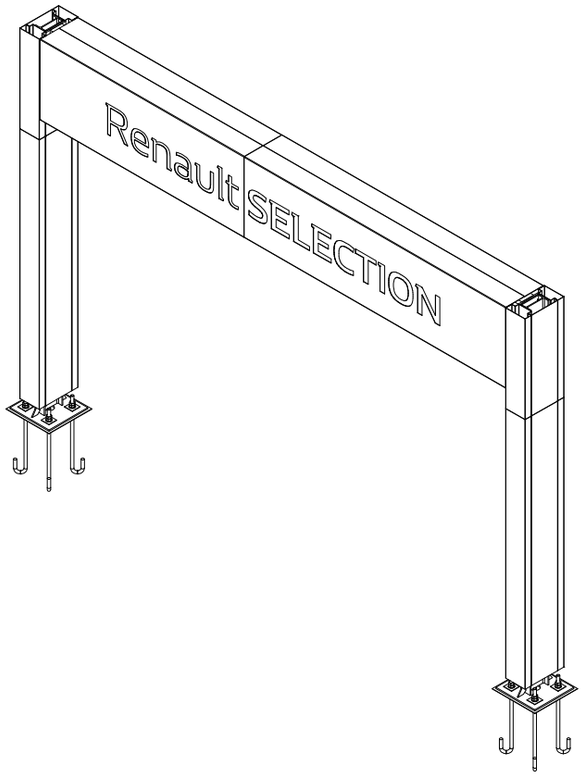
The assembly is fastened to a recessed block which is set underground.

Total weight: 1000 kg

Key

1. Steel attachment plate
2. Central steel structure
3. M30 anchoring rods
4. Concrete block





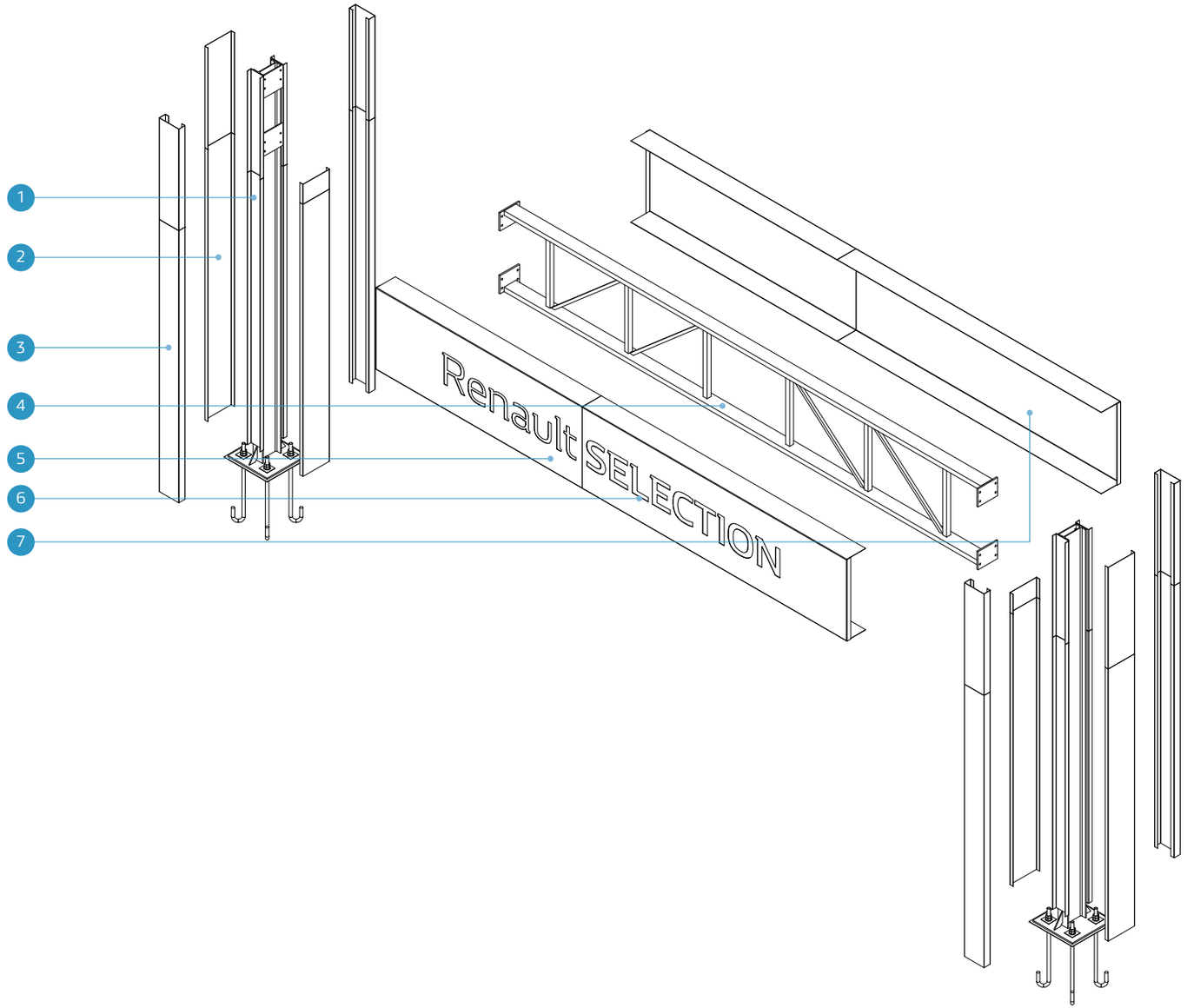
Exploded view of arch

Principle

The drawing opposite presents the method for manufacturing the arch.

Key

1. Vertical galvanized steel frame
2. Cladding of the edge of the posts in RAL 9010 white aluminium sheeting with 40% gloss
3. Cladding of the structure in pre-lacquered RAL 9010 white aluminium sheeting with 40% gloss
4. Horizontal galvanized steel frameliked with poles
5. Front panel in pre-lacquered RAL 7021 dark grey aluminium sheeting with 40% gloss
6. Lettering in light-diffusing white PMMA pasted on the back of the front panel
7. Back panel in pre-lacquered RAL 7021 dark grey aluminium sheeting with 40% gloss



Customer promise signs

Principle

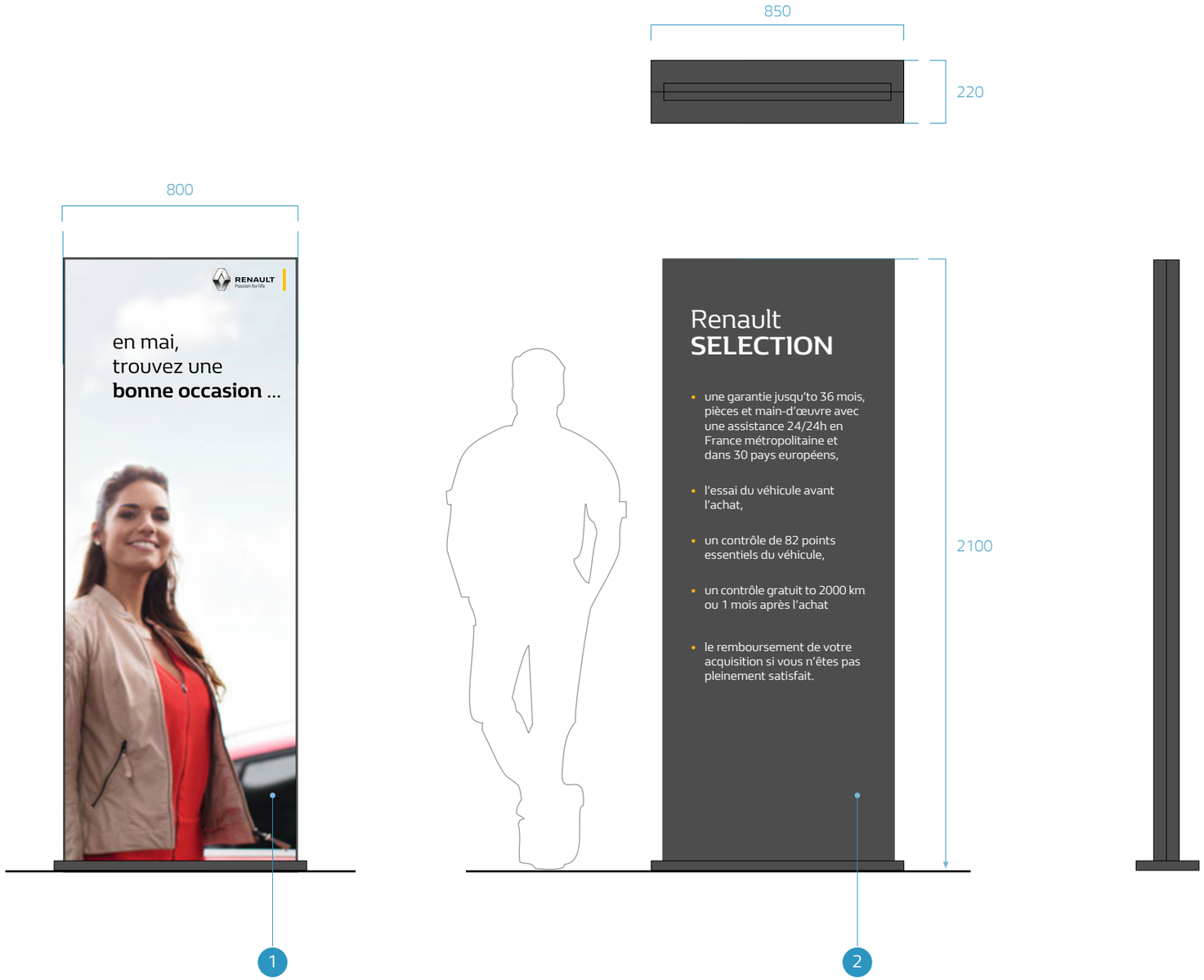
The customer promise signs display a message explaining the Renault SELECTION customer promise.

These signs are installed at the entry to the exterior display area (under the canopy where one exists), in front of the first vehicle on display.

The content is to be adapted by the Country with the approval of the function and the Regions.

Key

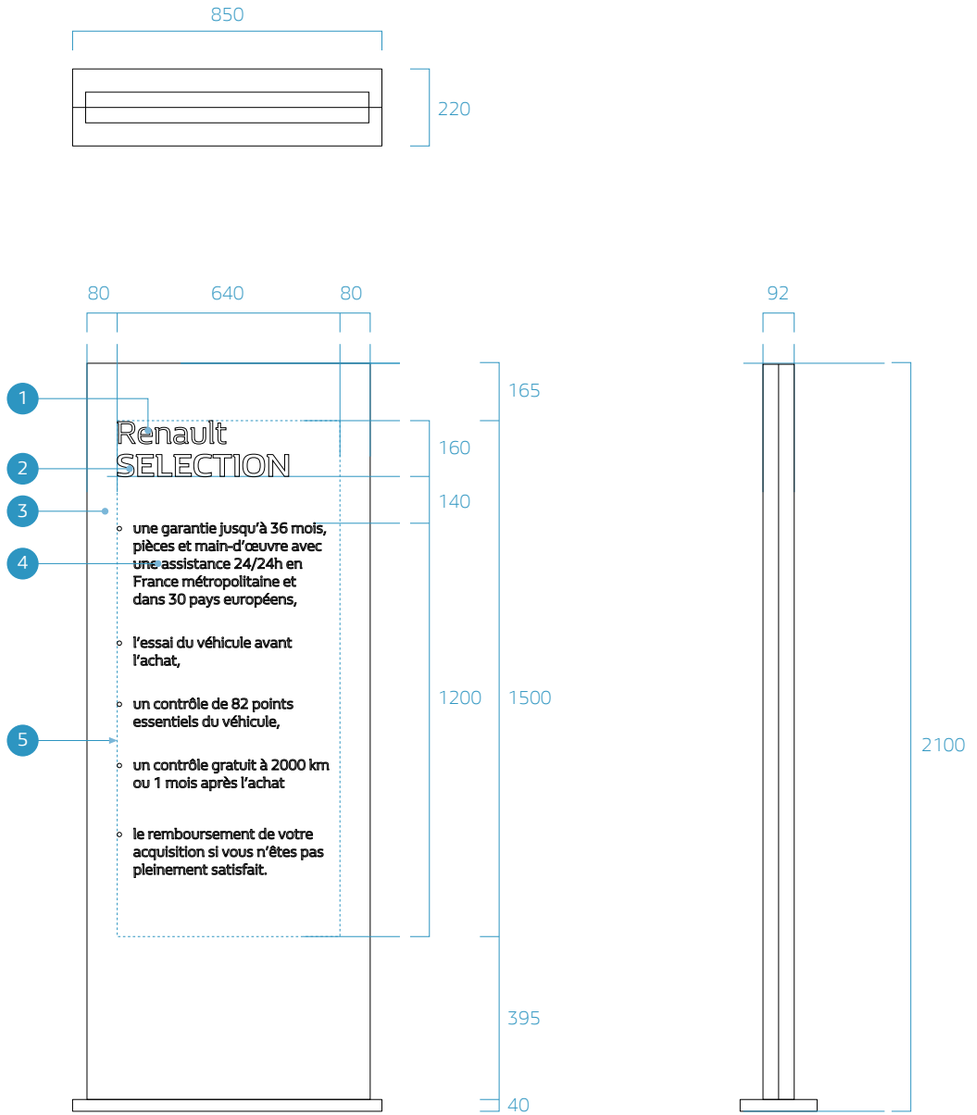
1. Communication sign with example of promotional image.
2. Communication sign with example of customer promise statement.



Drawings of front panel of communications signs

Key

1. The word “Renault” in reverse white type, Renault Life Regular typography, upper case on the "R", lower case on all other letters, left aligned, standard tracking
2. The word “SELECTION” in reverse white type, Renault Life Bold typography, upper case, left aligned, standard tracking
3. RAL 7021 dark grey satin finish background
4. Customized texts explaining the components of the customer promise in reverse white type
5. Limit of text zone



Anchoring of communications sign

Ground attachment system

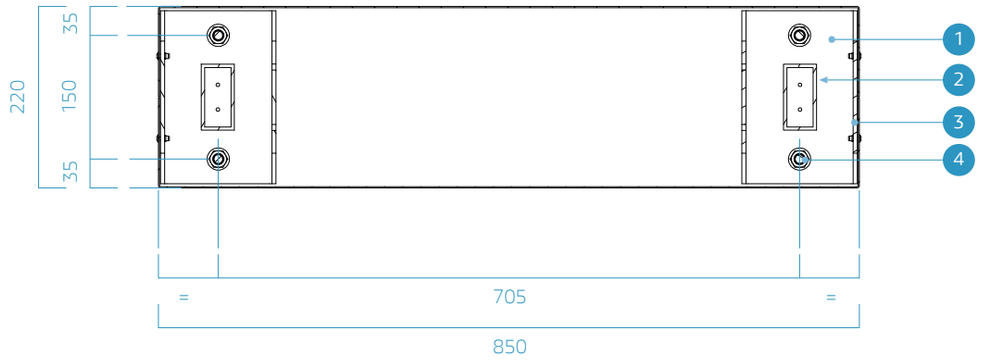
The sign is anchored to the ground via two plates fitted with two M12 anchors.

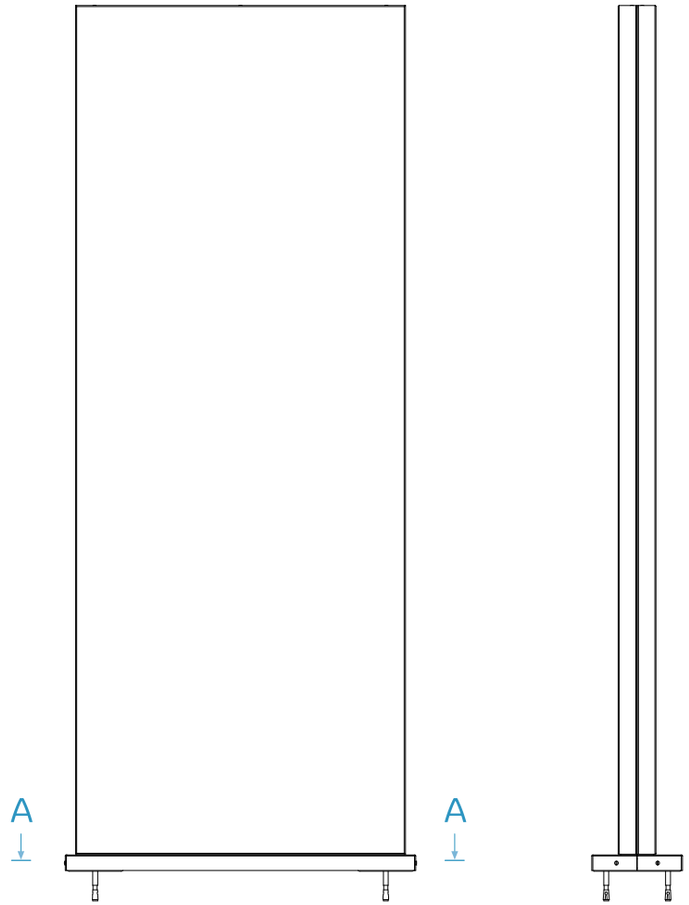
The assembly is covered with a attachment plate concealer allowing access to fastenings in order to facilitate replacement in case of damage.

Key

1. Aluminium plate
2. Central aluminium structure
3. Aluminium attachment plate concealer
4. Steel anchor M12

A-A cross-section





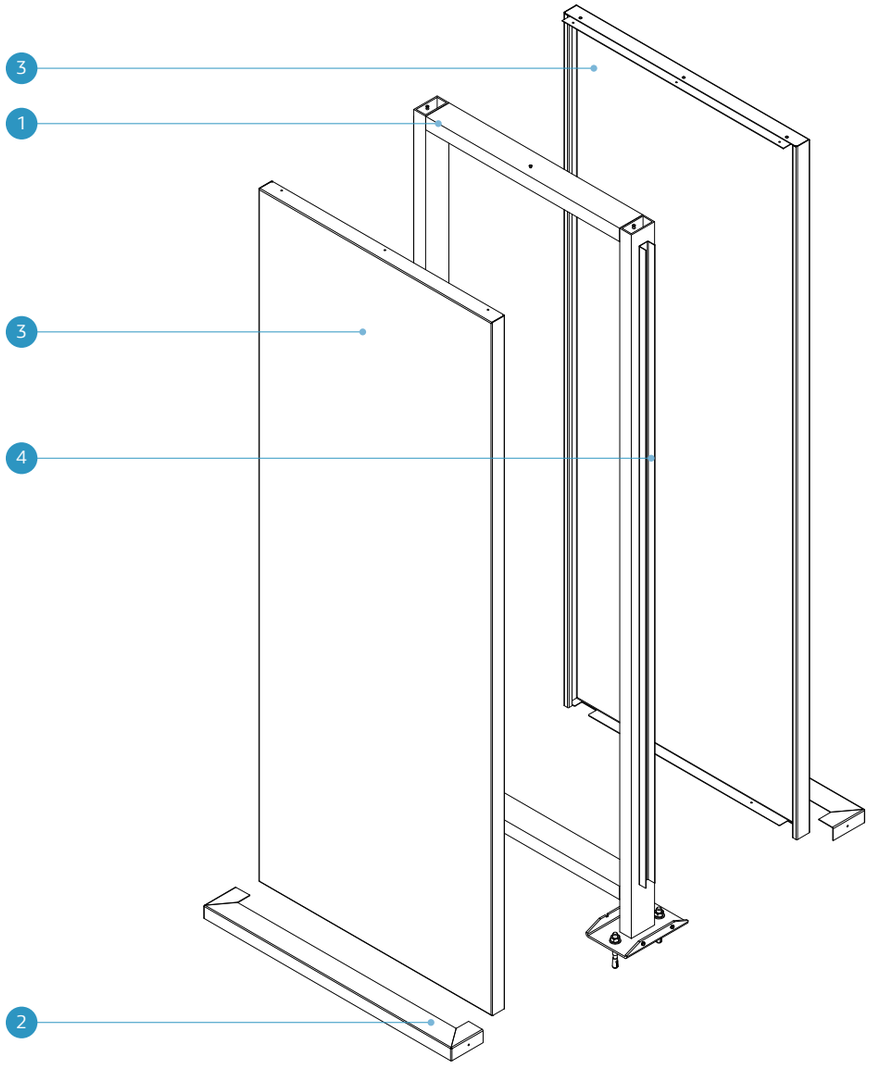
Exploded view of communications sign

Principle

The drawing opposite presents the method for manufacturing communications signs.

Key

1. Natural finish aluminium frame
2. Attachment plate concealers in RAL 7021 dark grey aluminium sheeting with 40% gloss satin finish
3. Panels in RAL 7021 dark grey aluminium sheeting with 40% gloss satin finish
4. Natural finish aluminium profiles



Bay signs

Description

The bay signs are made up of two aluminium half-panels with raised edges and adhesive markings, mounted on an aluminium frame.

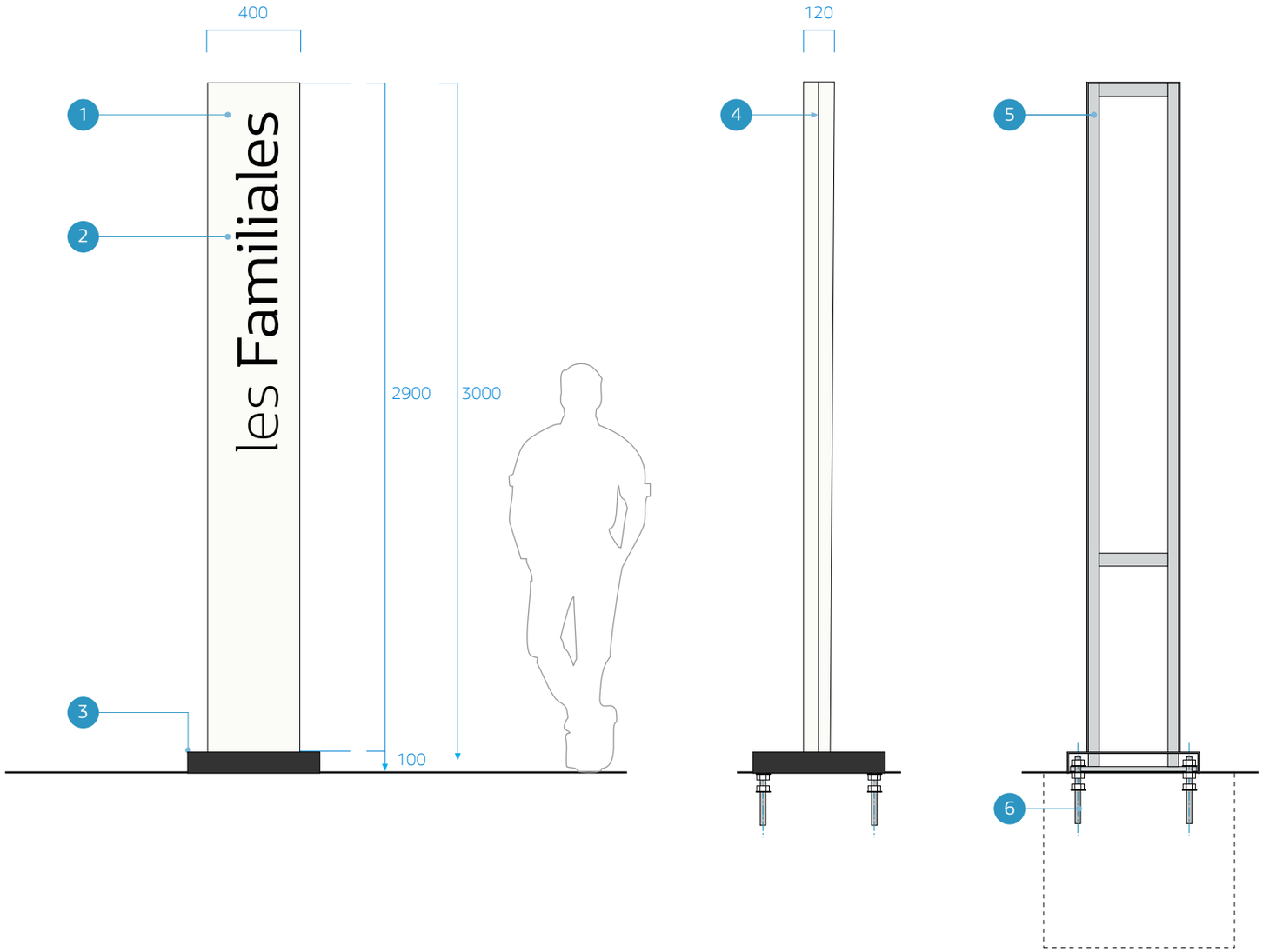
The finishing is completed by a attachment plate concealer.

The front side and the reverse side are identical.

Key

1. Panel in pre-lacquered RAL 9010 white aluminium sheeting with 40% gloss satin finish
2. Matt black adhesive markings
3. Attachment plate concealer in pre-lacquered RAL 7021 dark grey aluminium sheeting with 40% gloss satin finish
4. Edge-to-edge joint
5. Natural aluminium frame
6. Anchor or chemical anchor bolts

NOTE: These markings are to be adapted by the Country with the approval of the function and the Regions.



Drawings of front panels of bay signs

Principle

The bay signs serve the purpose of organizing and dividing up the Renault SELECTION display area into segments.

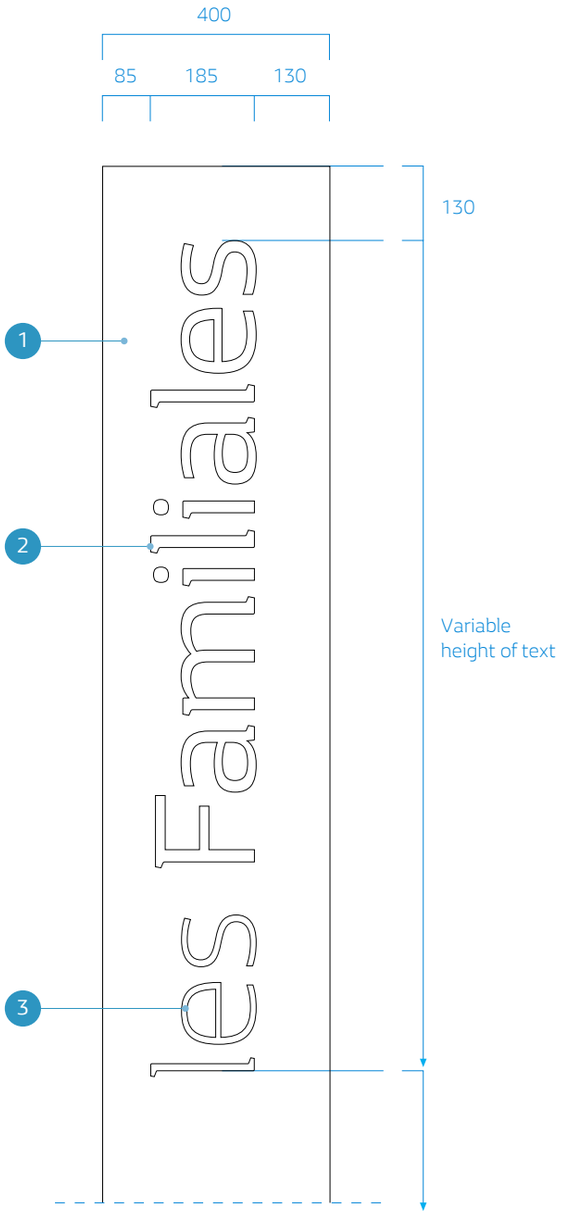
There are various possible options:

- Segmentation into categories of vehicles, e.g. family cars, sports cars,
- Segmentation according to price segment, e.g. € 10,000, € 15,000,
- Segmentation according to level of warranty agreement, ex. Excellence, Advance, Easy,

Key

1. Panel in pre-lacquered RAL 9010 satin white aluminium sheeting
2. Matt black adhesive markings, Renault Life typeface, top-aligned, tracking 102%
3. Matt black adhesive markings, Renault Life light typeface, tracking 102%

NOTE: These markings are to be adapted by the Country with the approval of the function and the Regions.



Anchoring of bay sign

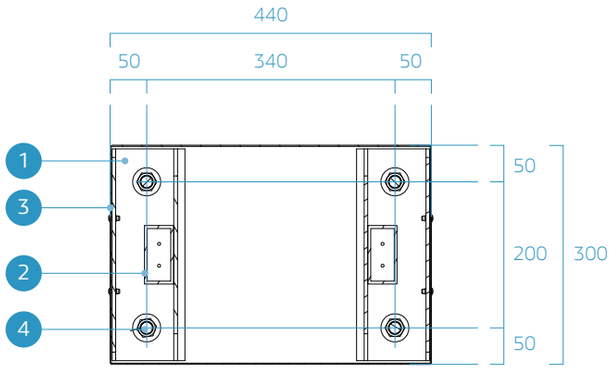
Ground attachment system

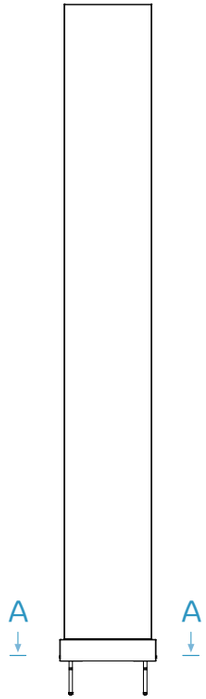
La reprise au sol se fait par 2 platines recevant 2 chevilles M16.

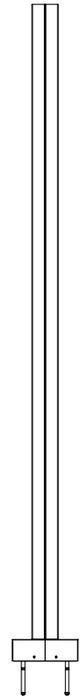
L'ensemble est recouvert par un cache-platine afin de préserver l'accès aux fixations autorisant un changement simplifié en cas de dommage.

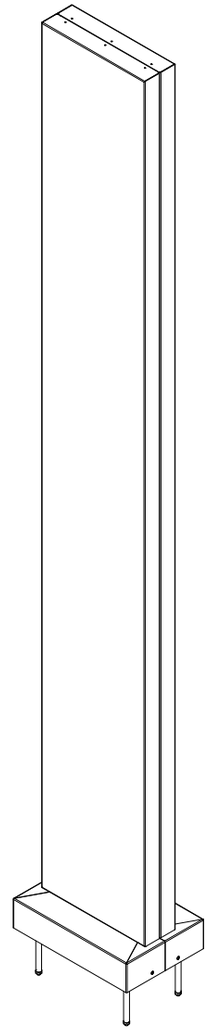
Key

1. Platine aluminium
2. Structure centrale aluminium
3. Cache-platine aluminium
4. Cheville acier M16









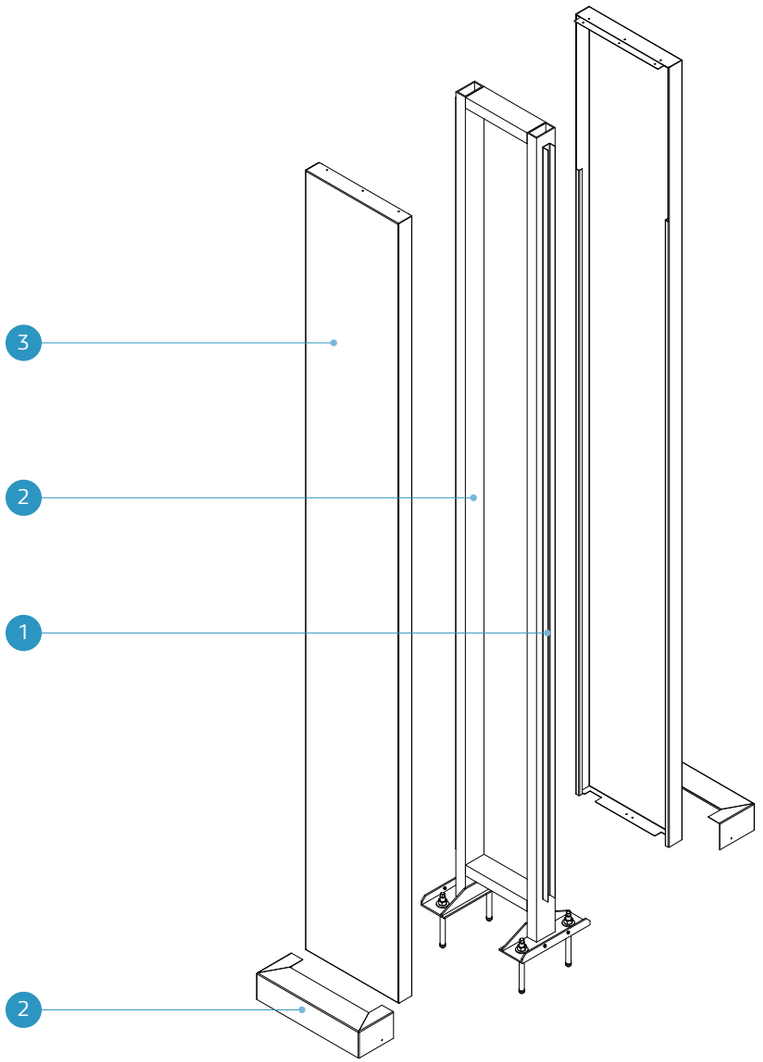
Exploded view of bay sign

Principle

The drawing opposite presents the method for manufacturing bay signs.

Key

1. Natural finish aluminium frame
2. Attachment plate concealers in RAL 7021 dark grey aluminium sheeting with 40% gloss satin finish
3. Panels in RAL 9010 white aluminium sheeting with 40% gloss satin finish and dark grey adhesive trim
4. Natural finish aluminium profiles



Lighting masts

Principle

The lighting mast is comprised of a steel frame with cladding in dark grey aluminium sheeting. It is 4,300 mm in height.

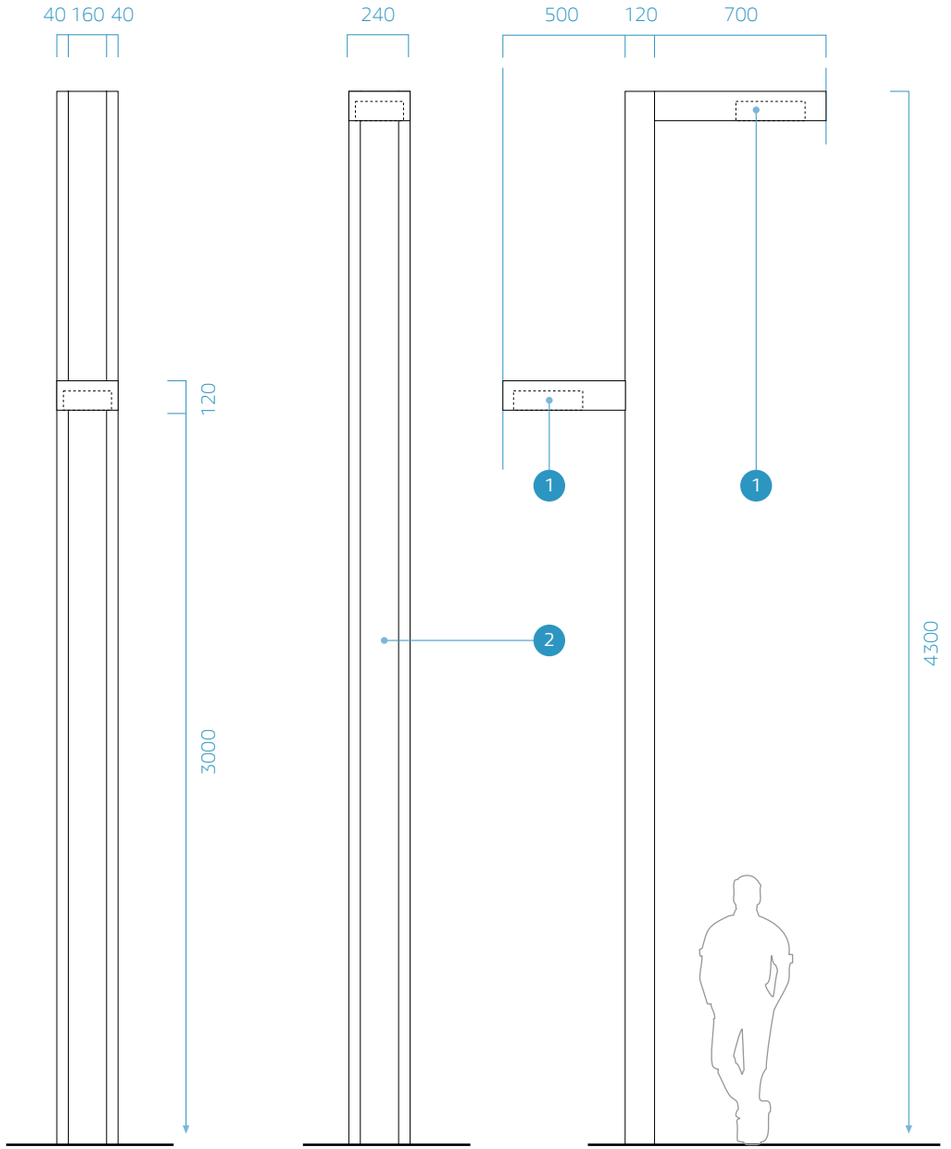
The upper section features a spotlight built into an arm with an offset of 700 mm, pointing towards the interior of the central bay.

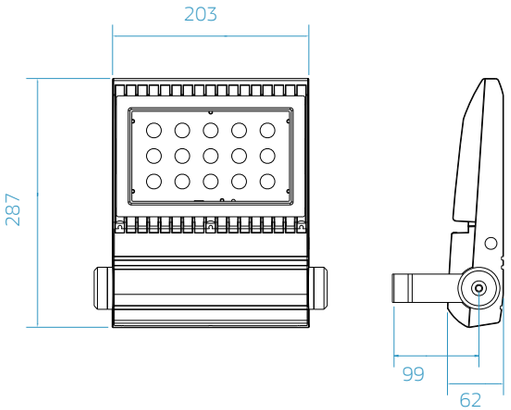
Pointing towards the exterior of the bay, another spotlight is built into the mast at a height of 3,000 mm from the ground to illuminate access aisles between the central bay and the vehicles on display.

To ensure that Renault SELECTION are well-lit, it is important to choose an asymmetric lens which allows light to be well-distributed across the entire zone.

Key

1. Spotlight
2. Cladding in pre-lacquered RAL 7021 dark grey aluminium sheeting with 40% gloss satin finish





Lighting of areas

Principle

Each vehicle located in the central bay is lit by 2 lighting masts installed in the axis of the display bay.

Characteristics

Asymmetric lenses:

- 30 x 90° at the top (20° incline)
- 85 x 135° at the bottom (20° incline)

Colour temperature: 4,000 K Colour rendering index: Ra > 80

Luminous flux of module: > 5,700 lm

Light source efficiency: > 100 lm / w

Protection index: > IP 67

Energy consumption: 55 w per spotlight

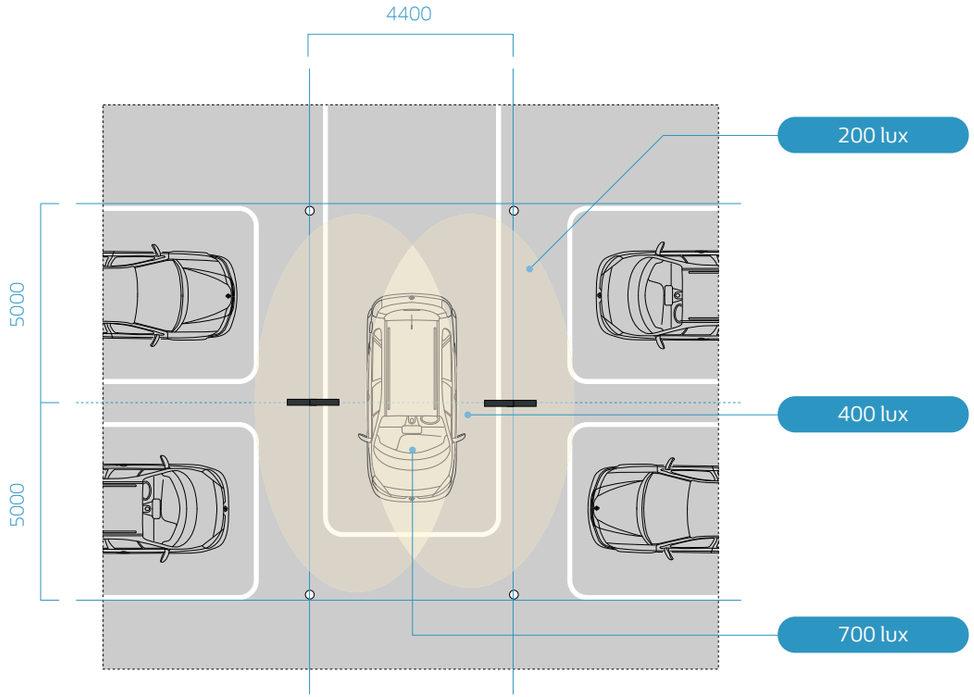
Finish: Anthracite dark grey or black

Warranty period for all parts: 5 years

Light output reduced by 50% after 50,000 hours operation.

Minimum guaranteed lifetime: 50,000 hours.

Supply: 220 volts



Illuminance levels

Example of spotlight: YAKI LARVIK SLIM 50 watts

Elements presented opposite are quoted to indicative title. Variants can be proposed and submittedto Brand Stores's approval.

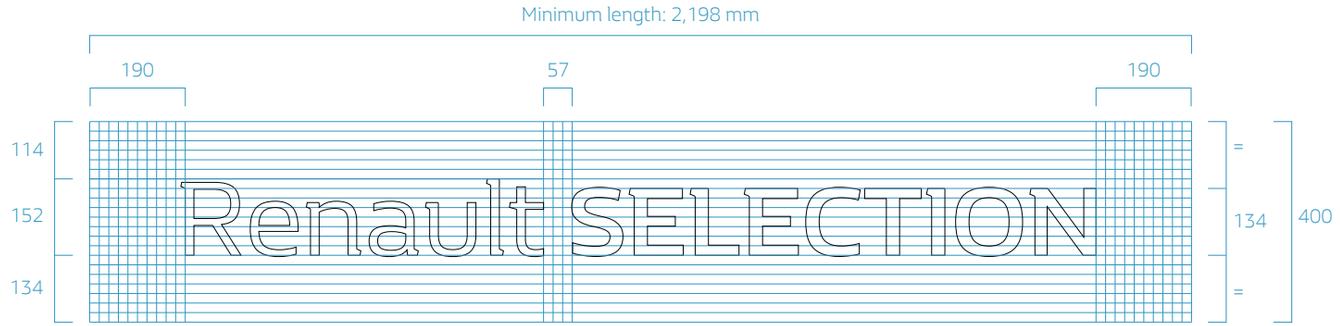
Identification of sales area

Principle

The Renault SELECTION signature identifies the sales area for used vehicle sales.

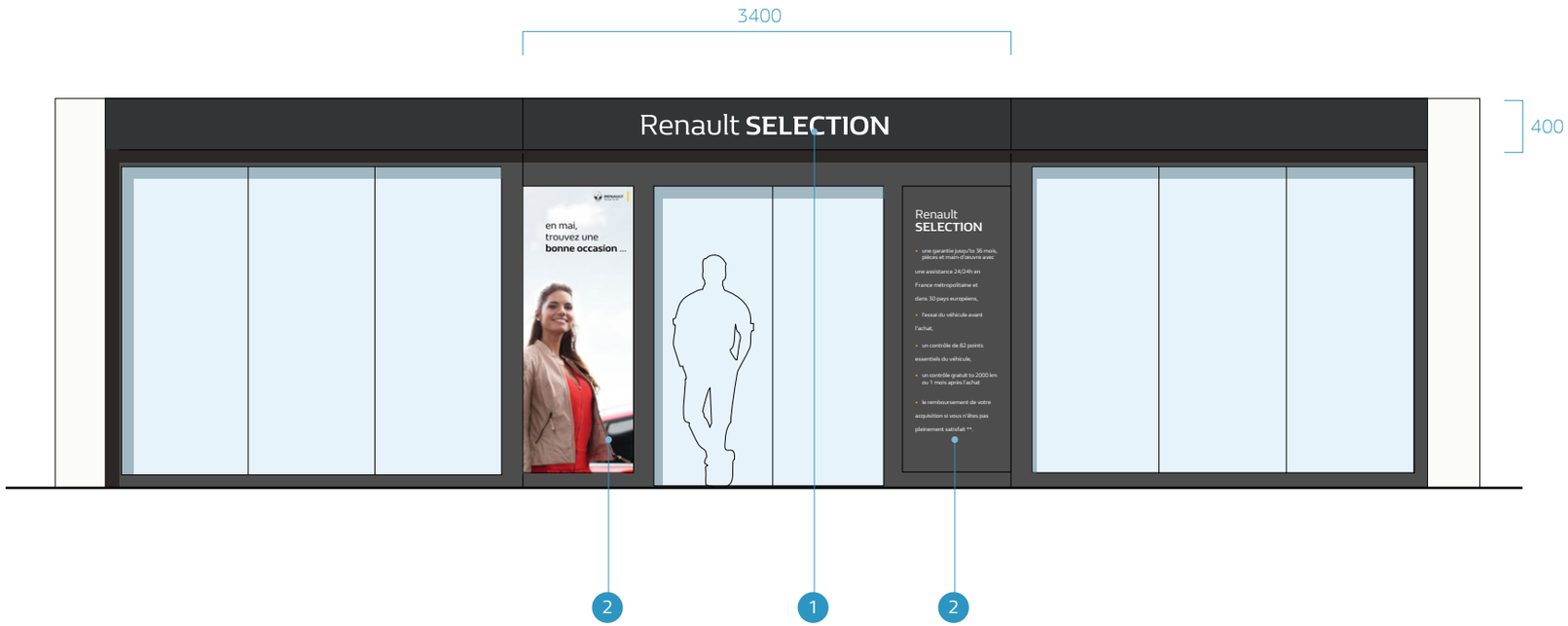
The Renault SELECTION signature, which is already present on the entrance arch, appears again on the sales area frontage in line with the façade where the entrance door is located.

It is always in white (adhesive or illuminated) letters applied to a dark grey background.



Key

1. Renault SELECTION signature centred on the frontage in white on a RAL 7021 dark grey background with a 40% gloss finish
2. Customer promise signs



Standards

Principle

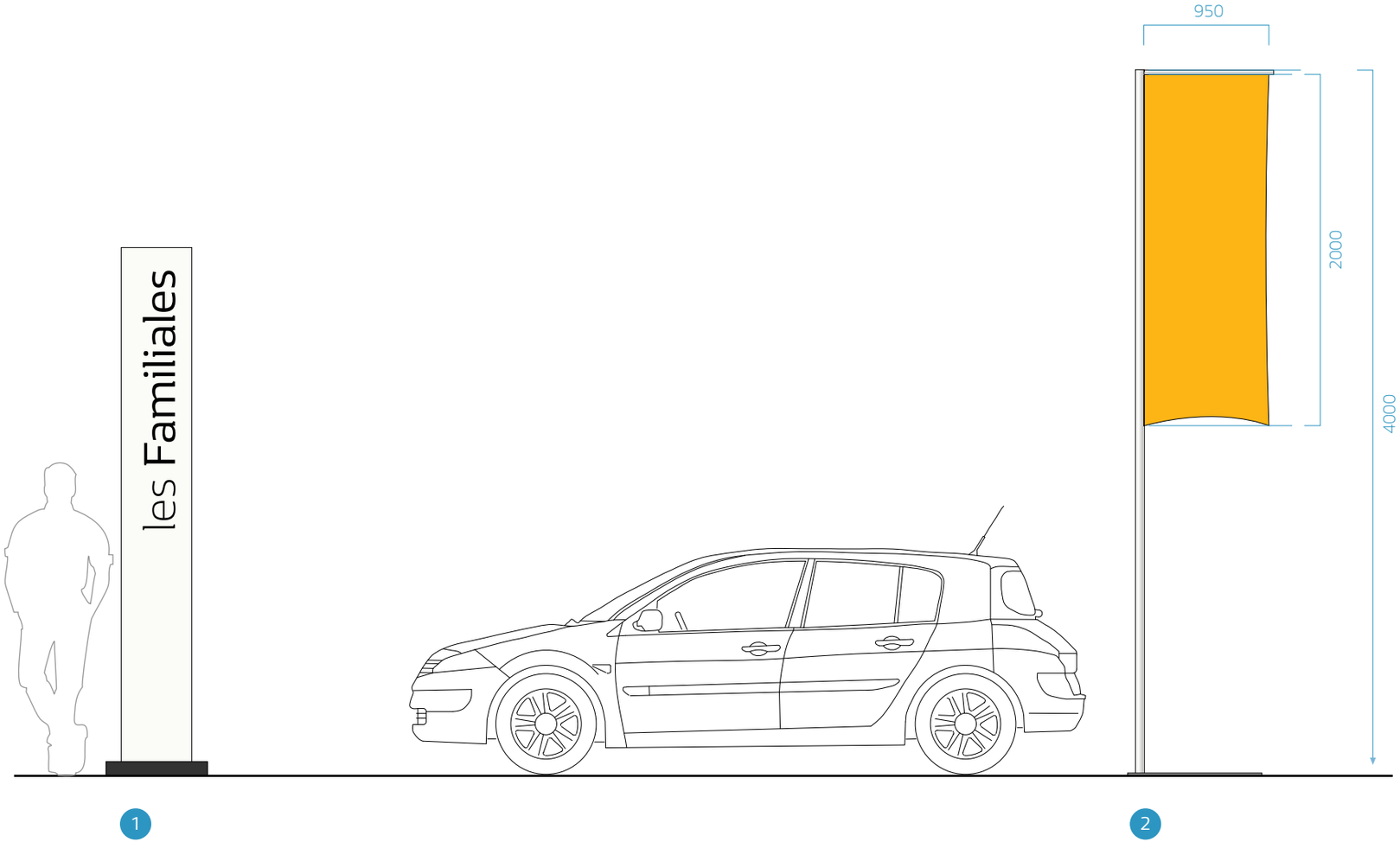
The purpose of the standards is to attract attention to the Renault SELECTION display areas.

They should be installed in strictly limited numbers so as not to distract from the impact and readability of other information or identification media.

Key

1. Bay signs
2. Standards in 950 x 2000 mm format on a telescopic mast of 4000 mm

NOTE: The content is to be customized depending on the communications choices made.



Installation of standards

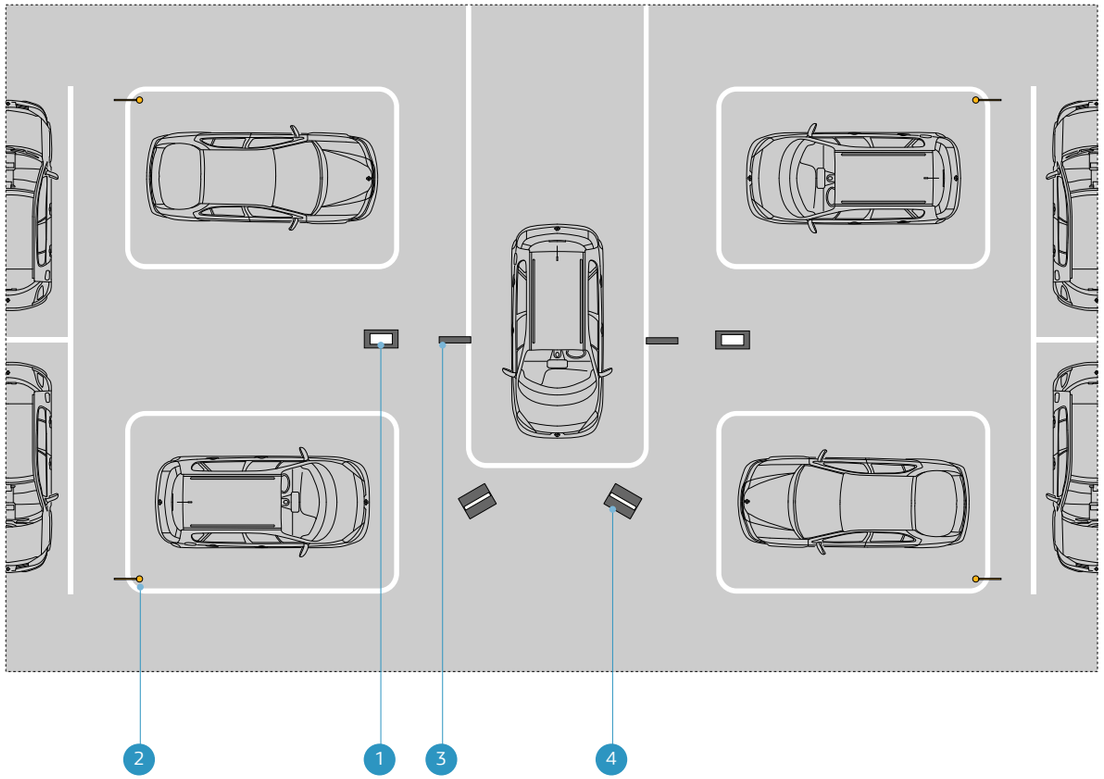
Principle

The standards are positioned behind the vehicles on display on either side of the central bay.

There are to be a maximum of four for each bay.

Key

1. Bay signs
2. Standards
3. Lighting masts
4. Customer promise signs



Ground markings

Description

The purpose of the ground markings is to structure the Renault SELECTION outdoor display by positioning the vehicles precisely in the appropriate spaces.

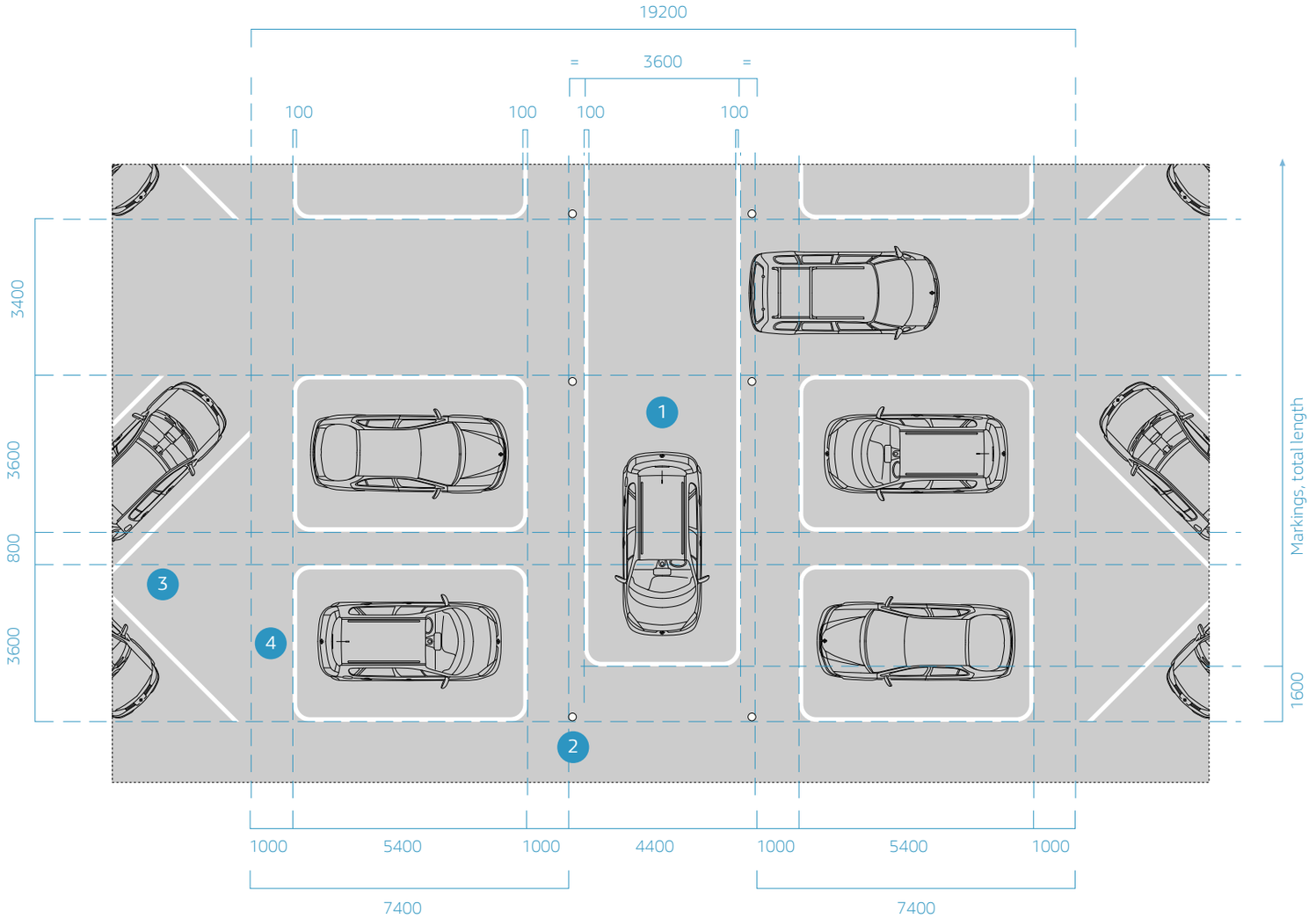
The markings on the ground of the central bay emphasize its main axis.

The ground markings are made with epoxy paint after outlines have been drawn on the ground.

The markings on the ground of the central bay are always present, whether or not there is a canopy.

Key

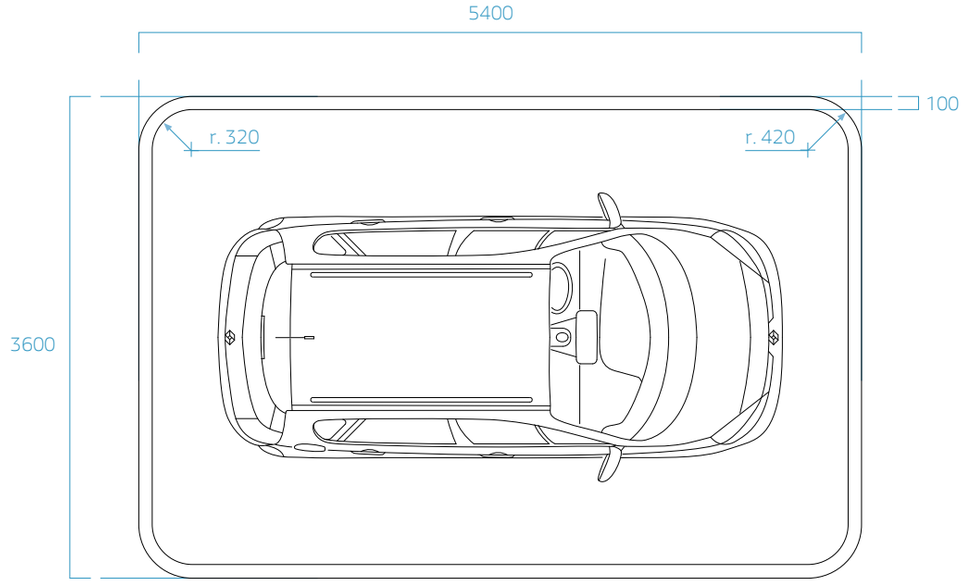
1. Markings on the ground of the central bay in RAL 9003 white epoxy
2. Posts of the canopy (optional)
3. Markings on the ground of the parking areas in RAL 9003 white epoxy (in diagonal or perpendicular layout depending on the configuration of the site)
4. Markings on the ground of priority display areas in RAL 9003 white epoxy

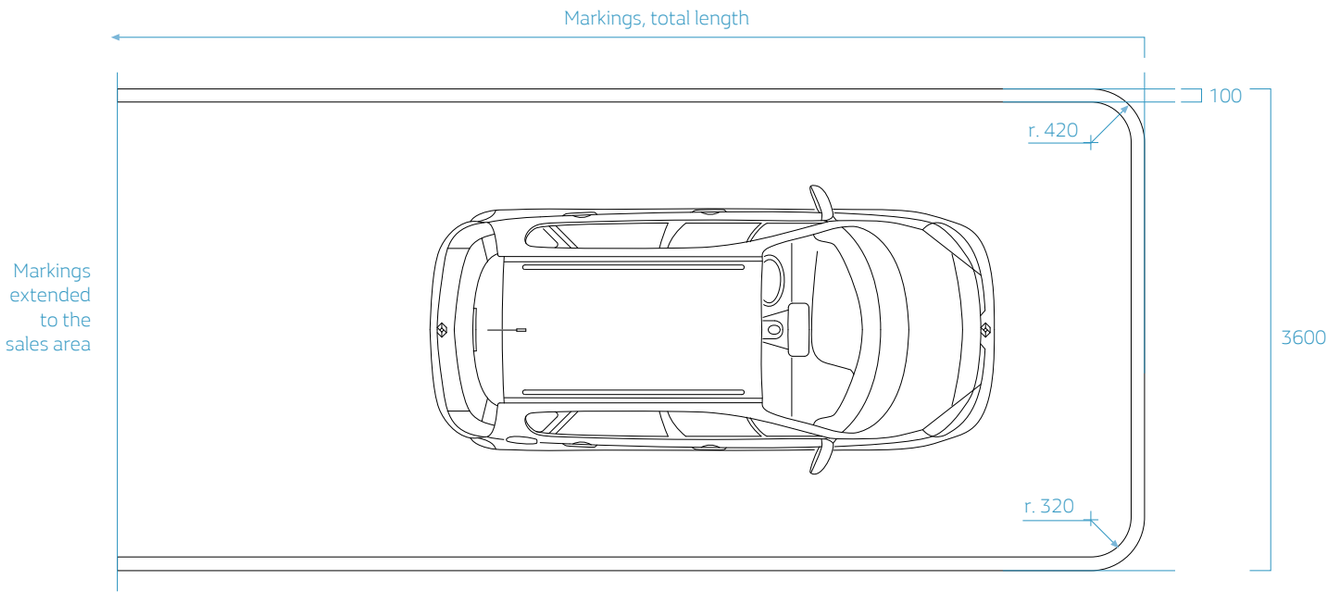


Outlines of ground markings

Key

1. Ground markings in RAL 9003 white epoxy





Parking space markings

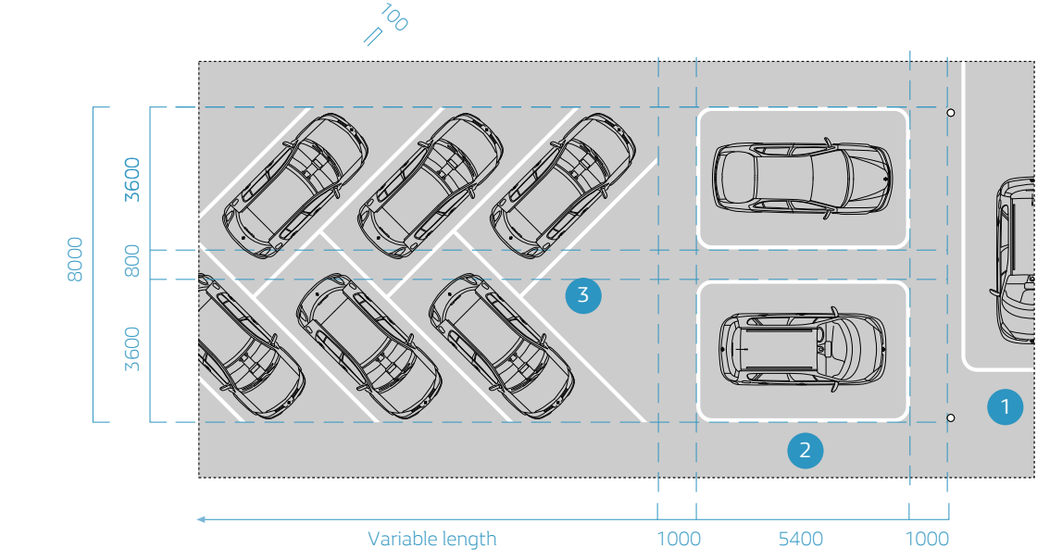
Principle

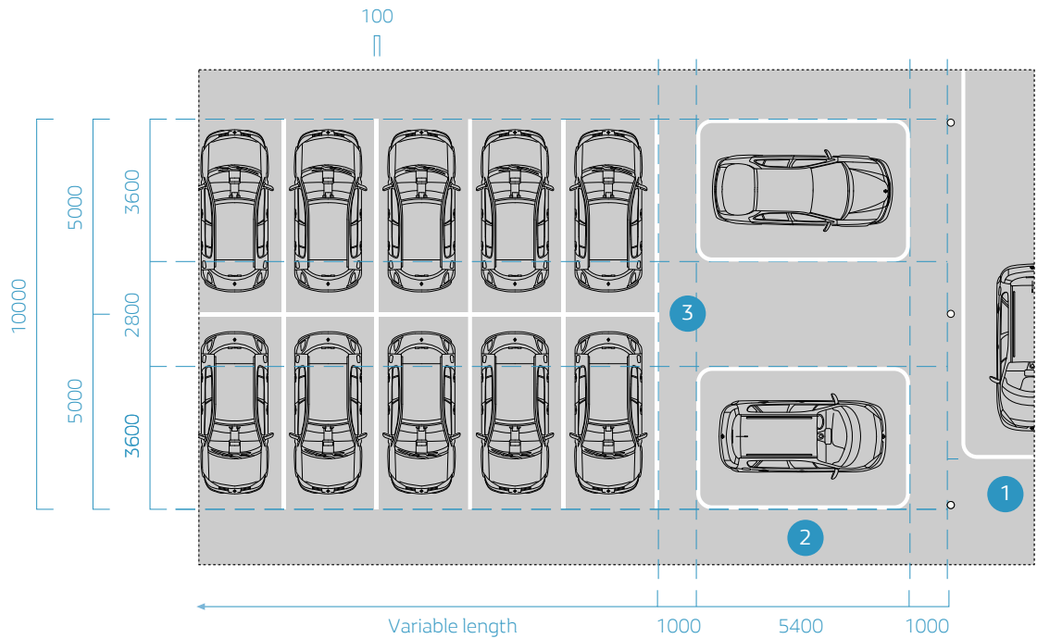
Parking areas can be organized either in a diagonal or perpendicular layout depending on the configuration of each site.

The ground markings for the parking spaces are made with epoxy paint after outlines have been drawn on the ground.

Key

1. Markings on the ground of the central bay in RAL 9003 white epoxy
2. Markings on the ground of priority display areas in RAL 9003 white epoxy
3. Markings on the ground of the parking areas in RAL 9003 white epoxy (in diagonal or perpendicular layout depending on the configuration of the site)





Integrated showrooms

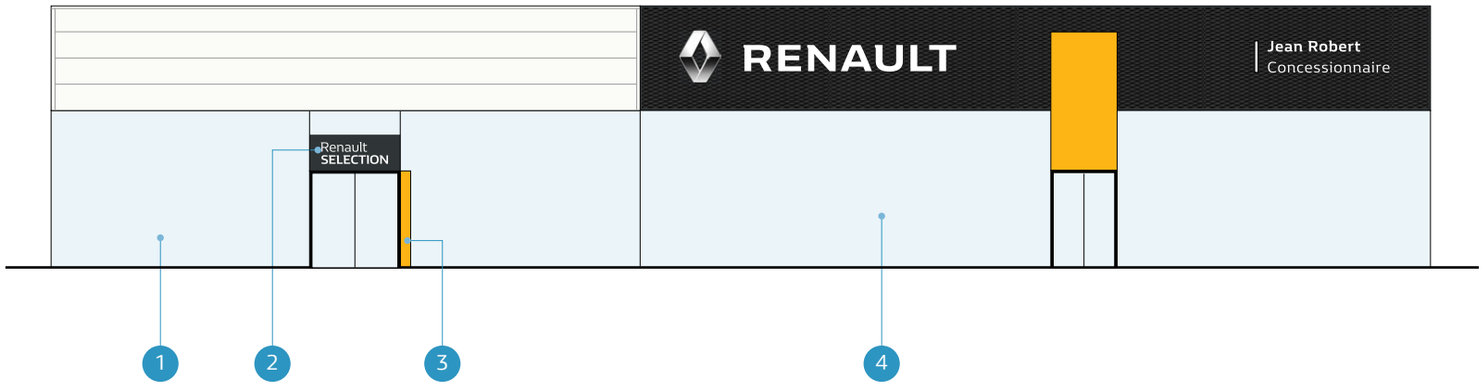
Identification principle

The façades of Renault SELECTION showrooms are identified by:

- the Renault SELECTION signature on a dark grey background placed above the main entrance door to the showroom,
- the vertical entrance door markings.

Key

1. Renault SELECTION showroom
2. Renault SELECTION signature in white lettering on a dark grey background
3. Vertical entrance door markings
4. NV showroom



NOTE: The vertical entrance markings are described in the "Entrance signage" specifications.

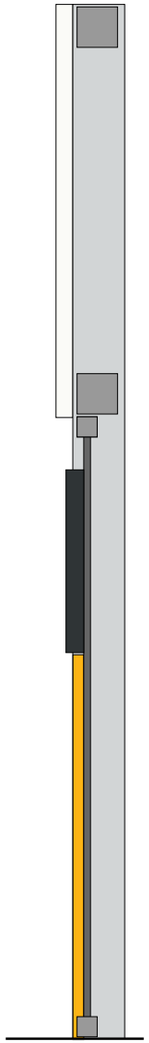
Drawings of front panel of box over entrance

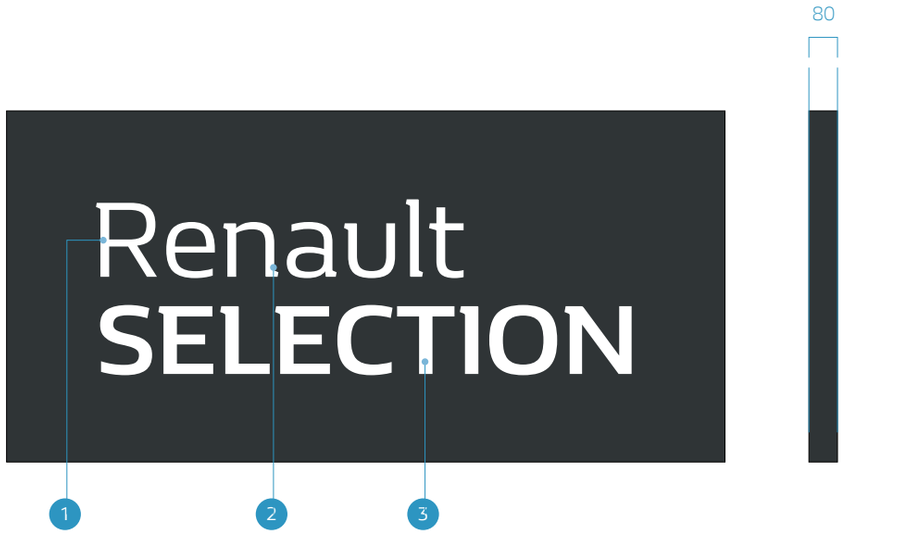
Principle

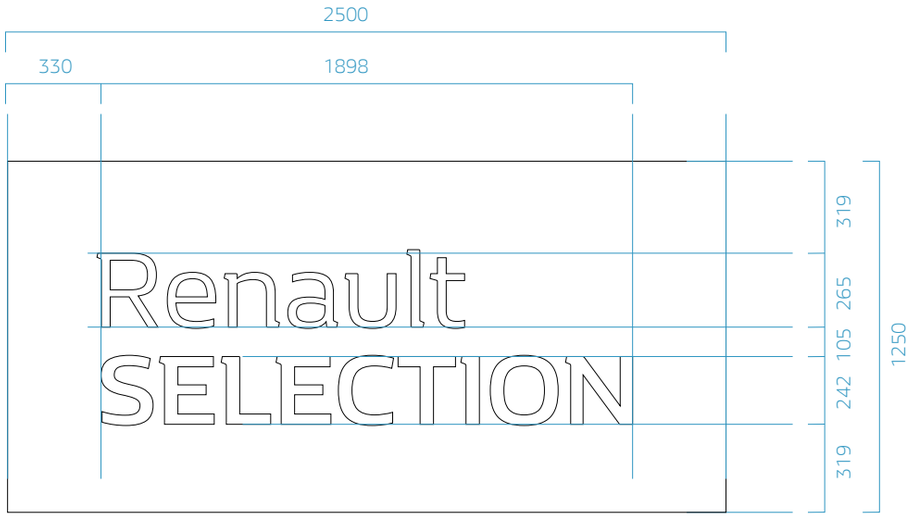
The light box located above the main entrance door to Renault SELECTION showrooms.

Key

1. The word “Renault” in reverse white type, Renault Life Regular typography, upper case on the "R", lower case on all other letters, left aligned, standard tracking
2. The word “SELECTION” in reverse white type, Renault Life Bold typography, upper case, left aligned, standard tracking
3. RAL 7021 dark grey satin finish background







Lighting of box over entrance

Description

Illumination of the front panel by chain LEDs mounted perpendicular to the front panel of the box.

The converter is mounted internally.

Performance characteristics

Chain LED with minimum IP65 protection rating.

Temperature: 6,500° K Cool White.

Mean luminance: 250 cd/m^2 with a maximum of 300 cd/m^2 .

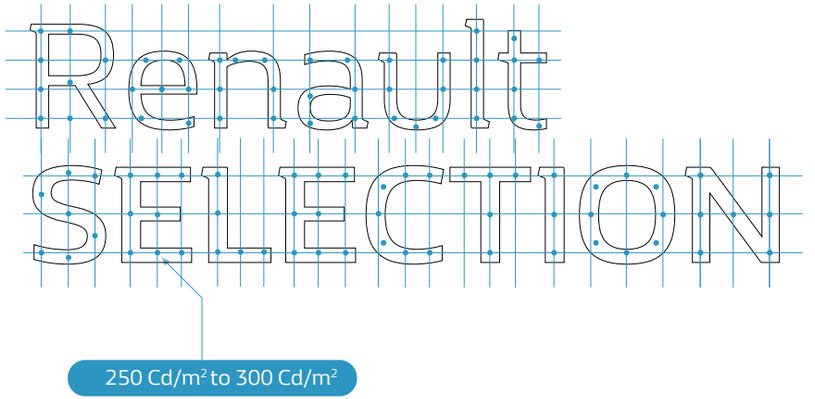
The warranty for all LED lighting systems and parts is 5 years, subject to compliance with conditions of use and maintenance.

Light output reduced by 50% after 50,000 hours operation.

Minimum guaranteed lifetime: 50,000 hours.

Supply: 220 volts

12 volt converter with regulated voltage, IP 68 protection.



The dots are a schematic representation of the measurement points that should present similar light intensity values in order to obtain even lighting across each of the letters of the word Renault.

The readings, performed with a calibrated luminance meter, should ideally be performed without light interference and at a distance of between 1 and 2 m from the letter face.

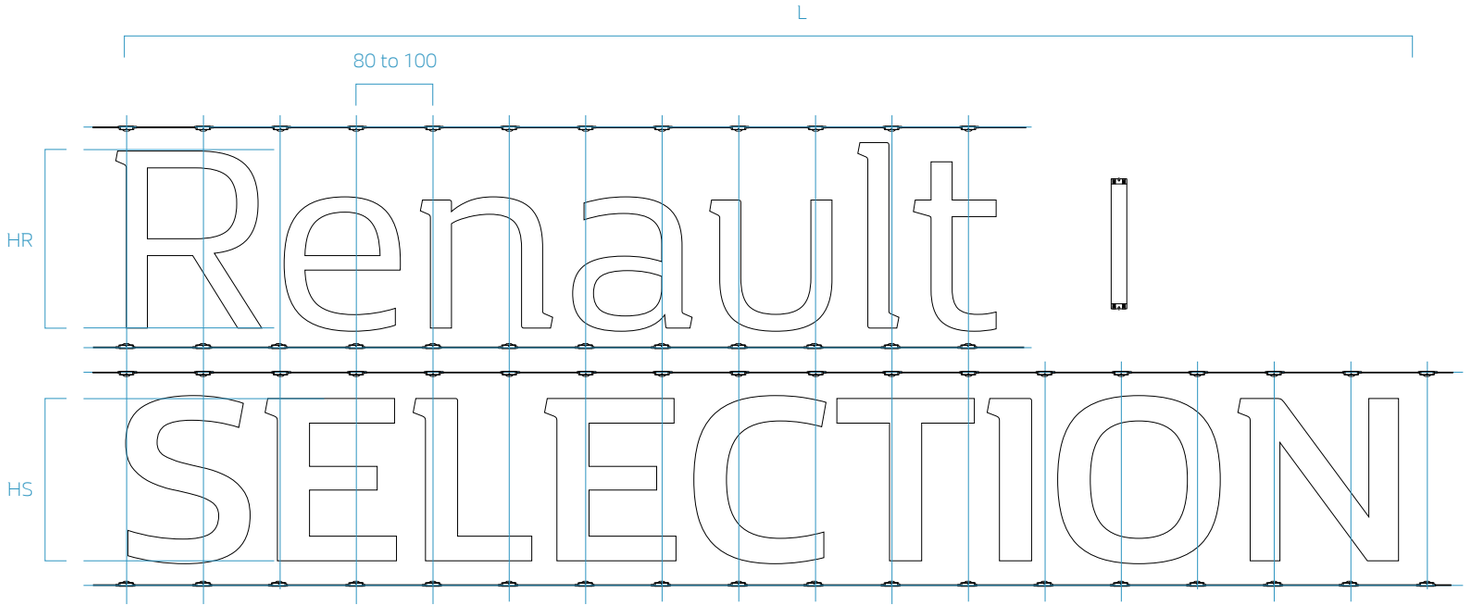
Installation of lighting on box over entrance

Principle

This recommendation is made on the basis of a 20 lumens module with a luminous efficacy of 90 to 100 lumens/watts.

The instruction remains indicative and shall require a validation and a test for compliance with the performance targets indicated in this document.

The LEDs are installed perpendicular to the face. Spacing of the LEDs shall be adjusted to achieve a regular luminous flow on the PMMA face.



Description

- Temperature: 6,500° K Cool White.
- Module power rating: 20 lumens
- Luminous efficacy: 90-100 lm/watt
- Converter, 12 volts, constant current
- Number of modules: 64
- Approx. power consumption : 16 watts

	Box 2500 x 1250
HR	265
HS	242
L	1898
Number of modules	64
Number of lines	4
Approx. power consumption	16 w

Interior identification box

Principle

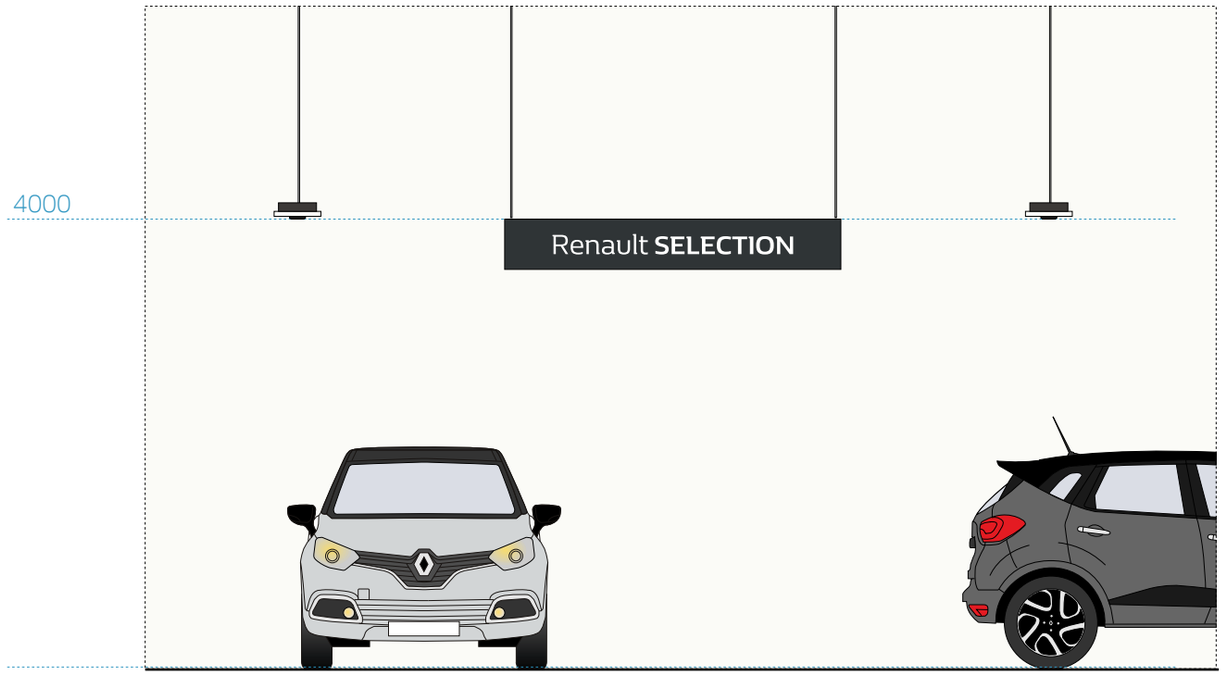
When the Renault SELECTION showroom is integrated into a Renault Store showroom, a suspended light box is installed at the perimeter of the section set aside for the display of used vehicles.

The box is positioned at a height of 4 m from the ground.

It is double-sided:

- on the front side, it features the Renault SELECTION signature,
- on the reverse side, it features the words “New vehicle showroom”.

Dimensions: L. 3000 x H. 450 x Thk. 80 mm.



Description

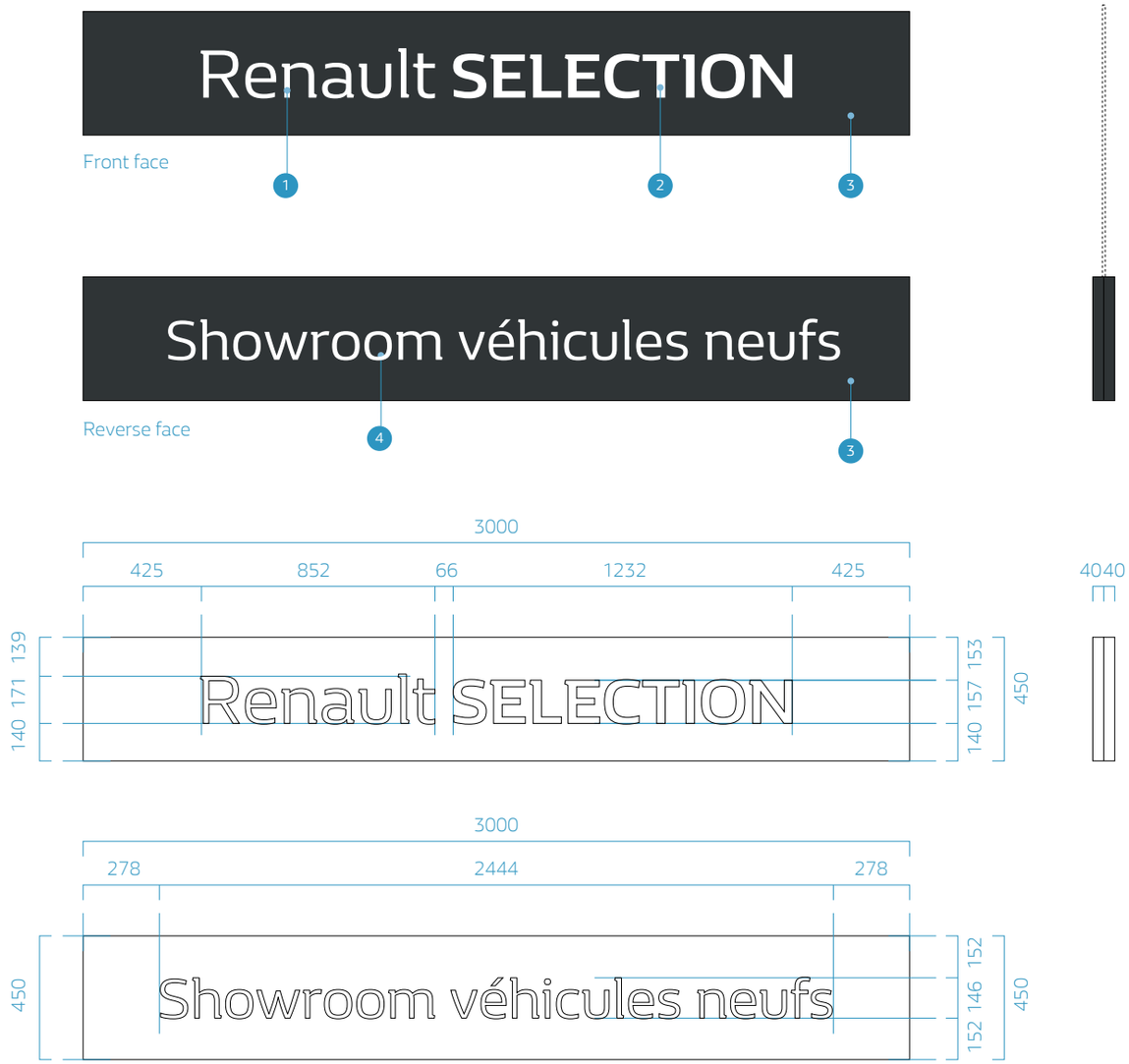
The box is made up of 2 panels in pre-lacquered RAL 7021 grey aluminium sheeting with 40% gloss satin finish, with raised edges and internal cutaways, fixed to an aluminium frame.

The panels are backlit, with the lettering in light-diffusing white PMMA pasted on the back of the each panel.

Drawings of interior identification box

Key

1. The word "Renault" in reverse white type, Renault Life Regular typography, upper case on the "R", lower case on all other letters, left aligned, standard tracking;
2. The word “SELECTION" in reverse white type, Renault Life Bold typography, upper case, standard tracking
3. RAL 7021 dark grey satin finish background
4. The words “New vehicle showroom” in reverse white type, Renault Life Regular typography, upper case on the "R" and the "R", lower case on all other letters, centre-aligned.



Lighting of interior identification box

Description

Illumination of the front and rear by chain LEDs mounted perpendicular to the panels.

The converter is mounted inside the box.

Performance characteristics

Chain LED with minimum IP65 protection rating.

Temperature: 6,500° K Cool White.

Mean luminance: 250 cd/m2 with a maximum of 300 cd/m2 .

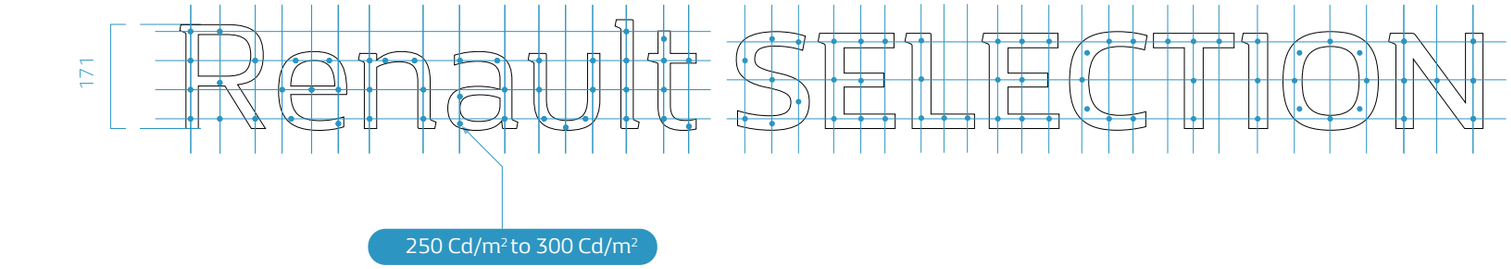
The warranty for all LED lighting systems and parts is 5 years, subject to compliance with conditions of use and maintenance.

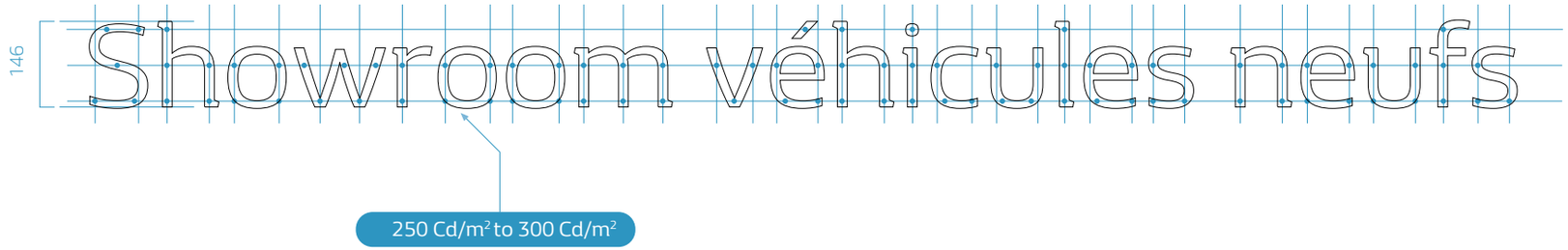
Light output reduced by 50% after 50,000 hours operation.

Minimum guaranteed lifetime: 50,000 hours.

Supply: 220 volts

12 volt converter with regulated voltage, IP 68 protection.





The dots are a schematic representation of the measurement points that should present similar light intensity values in order to obtain even lighting across each of the letters of the word Renault.

The readings, performed with a calibrated luminance meter, should ideally be performed without light interference and at a distance of between 1 and 2 m from the letter face.

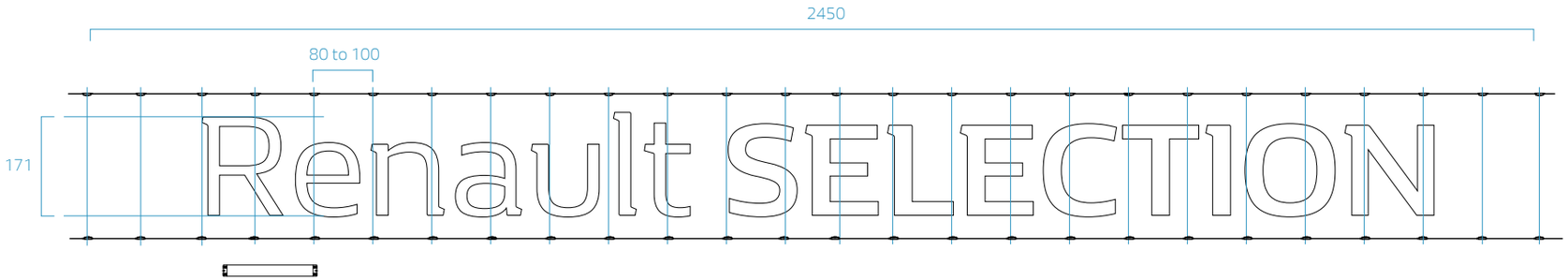
Installation of lighting

Principle

This recommendation is made on the basis of a 20 lumens module with a luminous efficacy of 90 to 100 lumens/watts.

The instruction remains indicative and shall require a validation and a test for compliance with the performance targets indicated in this document.

The LEDs are installed perpendicular to the panels and illuminate the front and rear panels.



Description

- Temperature: 6,500° K Cool White.
- Module power rating: 20 lumens
- Luminous efficacy: 90-100 lm/watt
- Converter, 12 volts, constant current
- Number of modules: 50
- Approx. power consumption: 10 watts