renault signage

facade markings

technical requirements

edition v2 - february 2022

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.

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 signmaker 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.

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.

general technical requirements

2.1.1 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.

2.1.2 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.

2.1.3 DESIGN RULES

2.1.3.1 ALUMINIUM STRUCTURES

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

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

2.1.3.2 STEEL STRUCTURES

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

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

2.1.3.3 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).

2.1.3.4 DESIGN CALCULATIONS FOR PLASTIC ELEMENTS

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

2.1.4 MATERIALS

2.1.4.1 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.

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2.1.4.2 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).

2.1.4.3 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.

2.1.4.4 PMMA

The PMMA shall meet at least the following characteristics:

	Opal white (values for a test piece of 3mm thick)	Flat parts machined "cast" PMMA	Flat parts unmachined "extruded" PMMA
·	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.

2.1.4.5 POLYCARBONATE

The polycarbonate sheet shall meet at least the following characteristics:

- Uncoloured appearance
- Density > 1.2 g/cm3

general technical requirements

- Tensile strength: 60 Mpa
- Expansion < 0.7 mm / 1 m / 10°C
- Light transmittance > 90%

2.1.4.6 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

2.1.4.7 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.

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
- Colour fastness:

  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.

2.1.5 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.

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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.

2.1.5.1 IP RATING

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

2.1.5.2 PROTECTION AGAINST ELECTRIC SHOCK

All equipment shall be "class 1".

2.1.5.3 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.

2.1.5.4 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.

2.1.5.5 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.

2.1.5.6 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

2.1.6 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.

2.1.7 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 signmaker 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).

2.1.8 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 signmaker
- Product code and batch
- Month and year of manufacturing
- The CE Marking if it is illuminated.

2.1.9 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.

general technical requirements

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 emblems,
- 7 year guarantee on sheet metal and profiles pre-lacquered by the aluminum manufacturer,
- 10 year guarantee on the internal structures,
- 10 year guarantee on the PMMA acrylic panels.

2

general remarks

2.1 general view

1

2

principles

2 situations must be taken into account: new installations and retrofitting of existing installations:

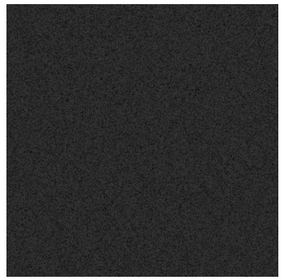
> in the case of new installations, it is a complete signature with the dealername that is implanted on the facade.

> in the case of retrofit of existing facades, the new emblem is associated with the Renault wordmarkand the existing company name.

1 New installations

2 Retrofit of existing signs.

2.2 colours & materials

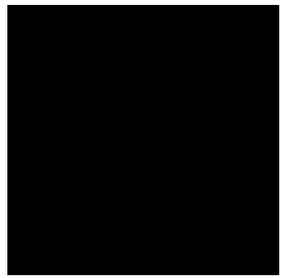


metallic grey

- pre-lacquered aluminum sheeting, 20/10 mm thick
- satin finish with 30% gloss
- metallic finish
- ref. axalta - alesta ip anthracite grey x930500089

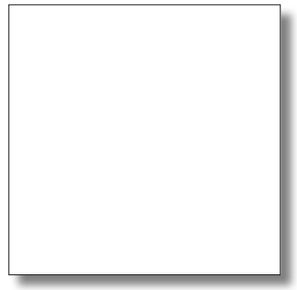
dark grey equivalent to RAL 7021

- pre-lacquered aluminum sheeting, 15/10 mm thick
- satin finish with 40% gloss



RAL 9005 black

- satin or matt finish adhesive black
- pre-lacquered aluminum sheeting, 10/10 mm thick (option)
- black matt pmma, th. 3mm, altuglass ref. 121-48000 mono satin



pure white

- light diffusing pmma with 40% transmittance, th. 3 mm altuglass ref. 100-27000
- matt adhesive film

3

technical principles new installations

3.1 overview

description

The facade markings include:

- the Renault signature, made up of the emblem and the new Renault wordmark,
- the dealername written with a new typeface.

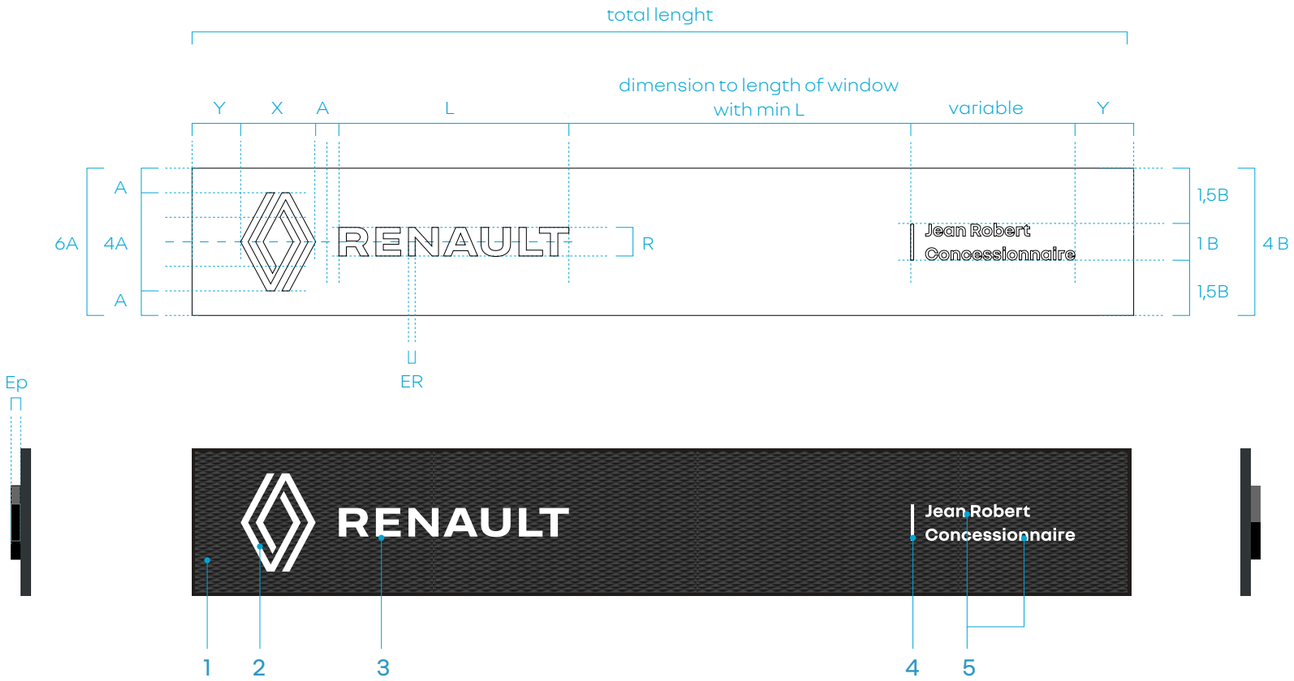
These elements are always placed on the dark grey background of the woven-metal mesh in dealerships sites (R1 Dealer Network).

1 New emblem

2 New Renault wordmark

3 New dealername

3.2 outlines of the main facade markings



principle

This layout shows the proportions between the different components featuring on the main facade.

1 Dark grey background in woven-metal mesh

2 emblem, LED-backlit, with light-diffusing face, edges made with aluminum sheeting black painted

3 Renault wordmark in backlit box letters, with white PMMA face, 30/10th mm thick aluminum edges matt black finish

4 Backlit vertical strip, made of white LED blocks, edges masked with matt black adhesive

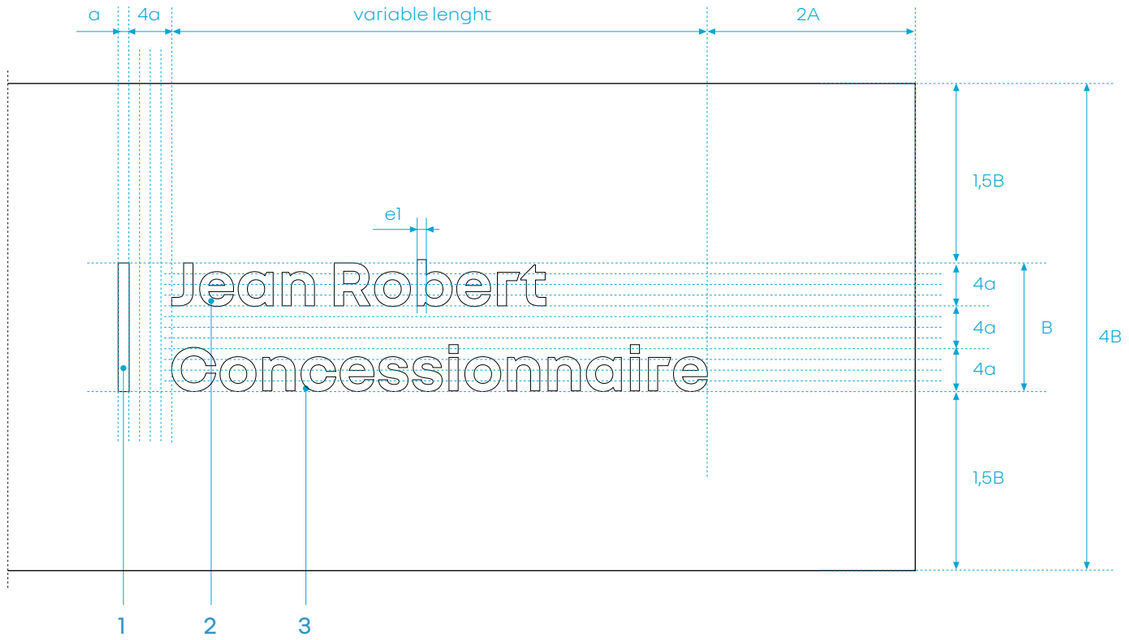
5 Backlit dealername, made of white LED blocks, edges masked with matt black adhesive

dim.	500 emblem	900 emblem	1100 emblem	1300 emblem	1600 emblem	2000 emblem	2400 emblem
A	127	223	287	320	400	500	600
Y	247	434	558	663	778	973	1168
4A	508	892	1148	1280	1600	2000	2400
6A	762	1338	1722	1920	2400	3000	3600
X	387	680	875	975	1219	1524	1828
R	150	264	339	378	473	591	710
L	1207	2125	2728	3042	3806	4756	5714
Ep	72	72	72	72	72	100	100
B	191	335	431	480	600	750	900
1,5B	286	502	646	720	900	1125	1350
ER	35	62	79	88	111	138	166

R is the height of the Renault wordmark calculated on the "E" letter

ER is the width of the vertical parts of the letters

3.3 layout of dealername written on 2 lines



principle

This layout shows the proportions between the different components of the Site name.

Dimension "e1" represents the thickness of the lettering. Below 30 mm, the letters cannot be lit by leds (see bold typefaces in the table of dimensions)

1 Backlit vertical strip, made of white LED blocks, edges masked with matt black adhesive

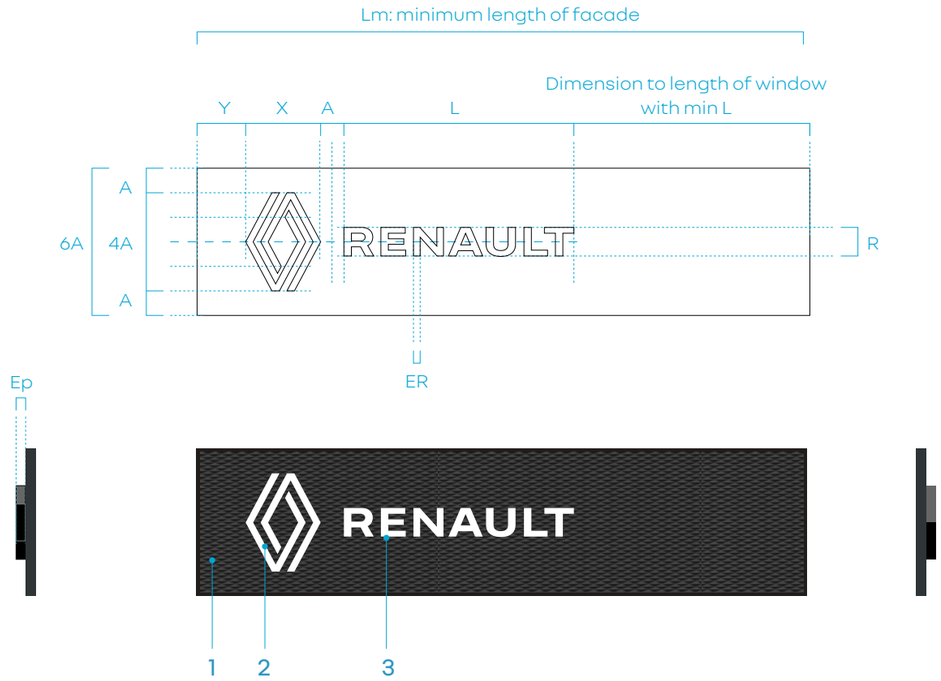
2 "Dealername", NouvelR bold typography, standard tracking, capitals on first letter of surnames and first names.

3 "Dealer", NouvelR bold typography, standard tracking, capitals on first letter of surnames and first names.

dim.	500 emblem	900 emblem	1148 emblem	1300 emblem	1600 emblem	2000 emblem	2400 emblem
B	191	335	430	480	600	750	900
1,5B	286	502	646	720	900	1125	1350
4B	762	1340	1720	1920	2400	3000	3600
2A	254	446	574	640	800	1000	1200
a	16	28	36	40	50	63	75
4a	60	112	144	160	200	250	300
e1	**14**	**24**	31	35	44	55	66

e1 is the width of the vertical parts of the letters

3.4 drawings of secondary facade markings



principle

This layout gives a minimum dimension for the signature on a secondary facade.

The secondary facade does not display the Site name.

Dimension Lm represents the minimum length of the facade compatible with the use of this signature on a secondary facade.

The height of the Renault wordmark is calculated based on the letter "E".

1 Dark grey background in woven-metal mesh

2 Emblem, LED-backlit, with light-diffusing face, edges made with aluminum sheeting black painted

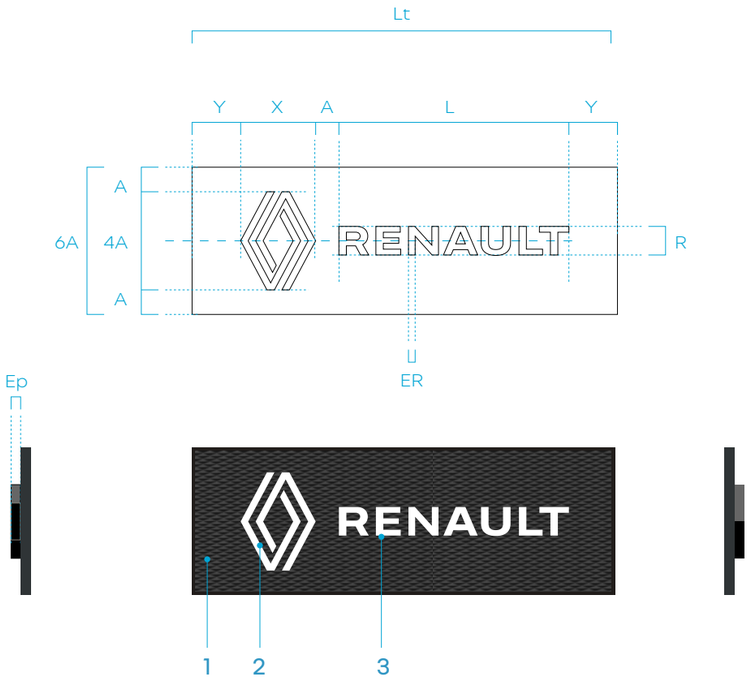
3 Renault wordmark in backlit box letters, with white PMMA face, 30/10th mm thick aluminum edges matt black finish

dim.	500 emblem	900 emblem	1100 emblem	1300 emblem	1600 emblem	2000 emblem	2400 emblem
A	127	223	287	320	400	500	600
Y	254	446	574	640	800	1000	1200
4A	508	892	1148	1280	1600	2000	2400
6A	762	1338	1722	1920	2400	3000	3600
X	387	680	875	975	1219	1524	1828
R	150	264	339	378	473	591	710
L	1207	2125	2728	3042	3806	4756	5714
Ep	72	72	72	72	72	100	100
Lm	3182	5598	7192	8019	10032	12536	15056
ER	35	62	79	88	111	138	166

R is the height of the Renault wordmark calculated on the "E" letter

ER is the width of the vertical parts of the letters

3.5 drawings of blind facade markings



principle

This layout gives the standard dimensions of the signature on a highly visible blind facade (facade without the glazed sections of a showroom).

The height of the Renault wordmark is calculated based on the letter "E".

1 Dark grey background in woven-metal mesh

2 Emblem, LED-backlit, with light-diffusing face, edges made with aluminum sheeting black painted

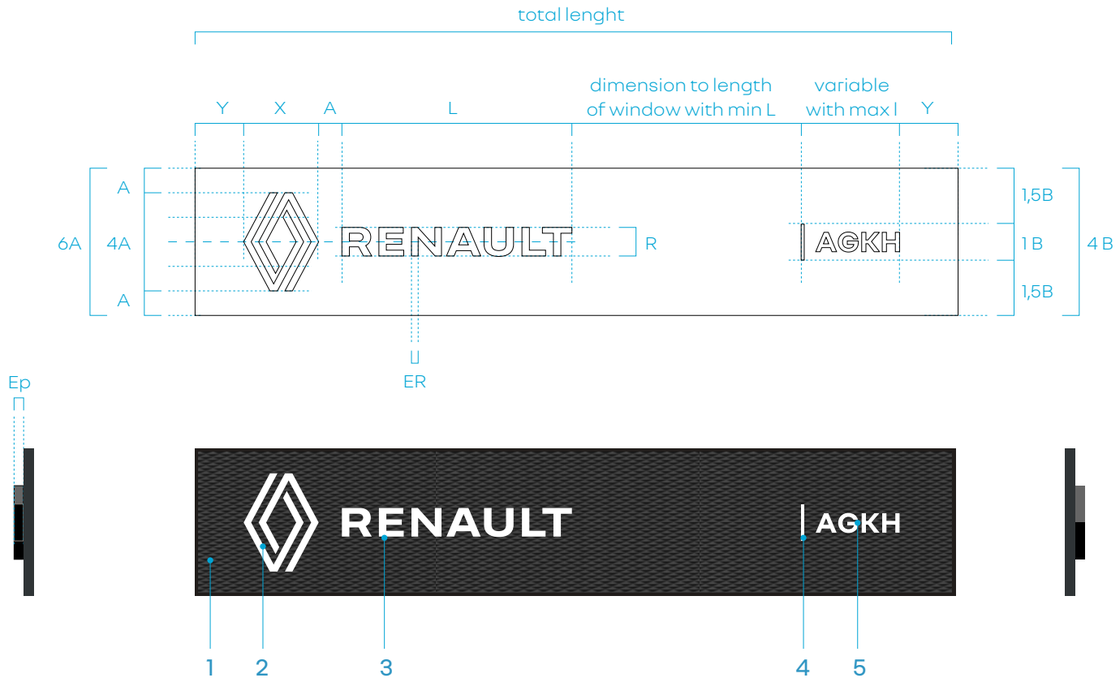
3 Renault wordmark in backlit box letters, with white PMMA face, 30/10th mm thick aluminum edges matt black finish

R is the height of the Renault wordmark calculated on the "E" letter

ER is the width of the vertical parts of the letters

dim.	500 emblem	900 emblem	1100 emblem	1300 emblem	1600 emblem	2000 emblem	2400 emblem
A	127	223	287	320	400	500	600
Y	254	446	574	640	800	1000	1200
4A	508	892	1148	1280	1600	2000	2400
6A	762	1338	1722	1920	2400	3000	3600
X	387	680	875	975	1219	1524	1828
R	150	264	339	378	473	591	710
L	1207	2125	2728	3042	3806	4756	5714
Ep	72	72	72	72	72	100	100
Lt	2229	3919	5038	5617	7025	8780	10542
ER	35	62	79	88	111	138	166

3.6 dealername written on 1 line



principle

This layout shows the proportions between the Renault Signature and the Dealername on a single line whose height is equal to 50% of that of the Renault wordmark.

1 Dark grey background in woven-metal mesh

2 Emblem, LED-backlit, with light-diffusing face, edges made with aluminum sheeting black painted

3 Renault wordmark in backlit box letters, with white PMMA face, 30/10th mm thick aluminum edges matt black finish

4 Backlit vertical strip, made of white LED blocks, edges masked with matt black adhesive

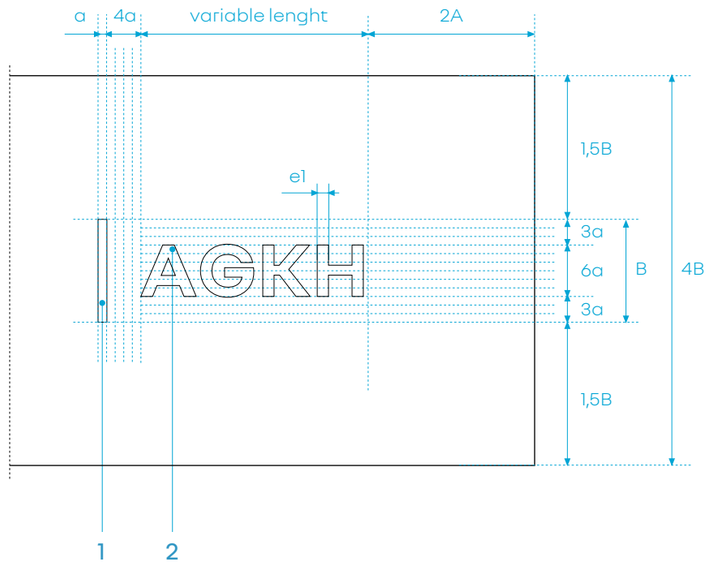
5 Backit dealername, made of white LED blocks, edges masked with matt black adhesive

dim.	500 emblem	900 emblem	1100 emblem	1300 emblem	1600 emblem	2000 emblem	2400 emblem
A	127	223	287	320	400	500	600
Y	254	446	574	640	800	1000	1200
4A	508	892	1148	1280	1600	2000	2400
6A	762	1338	1722	1920	2400	3000	3600
X	387	680	875	975	1219	1524	1828
R	150	264	339	378	473	591	710
L	1207	2125	2728	3042	3806	4756	5714
Ep	72	72	72	72	72	100	100
B	191	335	431	480	600	750	900
1,5B	286	502	646	720	900	1125	1350
ER	35	62	79	88	111	138	166

R is the height of the Renault wordmark calculated on the "E" letter

ER is the width of the vertical parts of the letters

3.7 layout of dealername written on 1 line



principle

This layout shows the proportions between the different components of the Dealername.

Dimension "e1" represents the thickness of the lettering. Below 30 mm, the letters cannot be lit by leds (see bold typefaces in the table of dimensions).

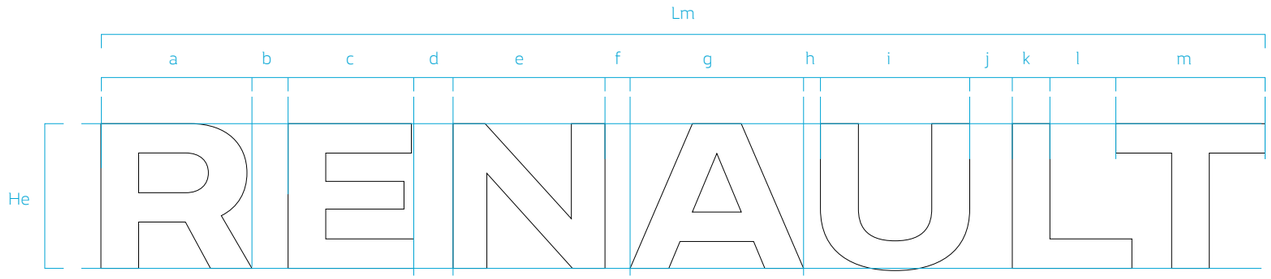
1 Backlit vertical strip, made of white LED blocks, edges masked with matt black adhesive

2 "Dealername", NouvelR bold typography, standard tracking, capitals on first letter of surnames and first names.

dim.	500 emblem	900 emblem	1100 emblem	1300 emblem	1600 emblem	2000 emblem	2400 emblem
B	191	335	430	480	600	750	900
1,5B	286	502	646	720	900	1125	1350
4B	762	1340	1720	1920	2400	3000	3600
2A	254	446	574	640	800	1000	1200
3a	48	84	108	120	150	188	225
6a	95	167	215	240	300	375	450
e1	**21**	37	47	52	66	82	98

e1 is the width of the vertical parts of the letters

3.8 renault wordmark layout drawings



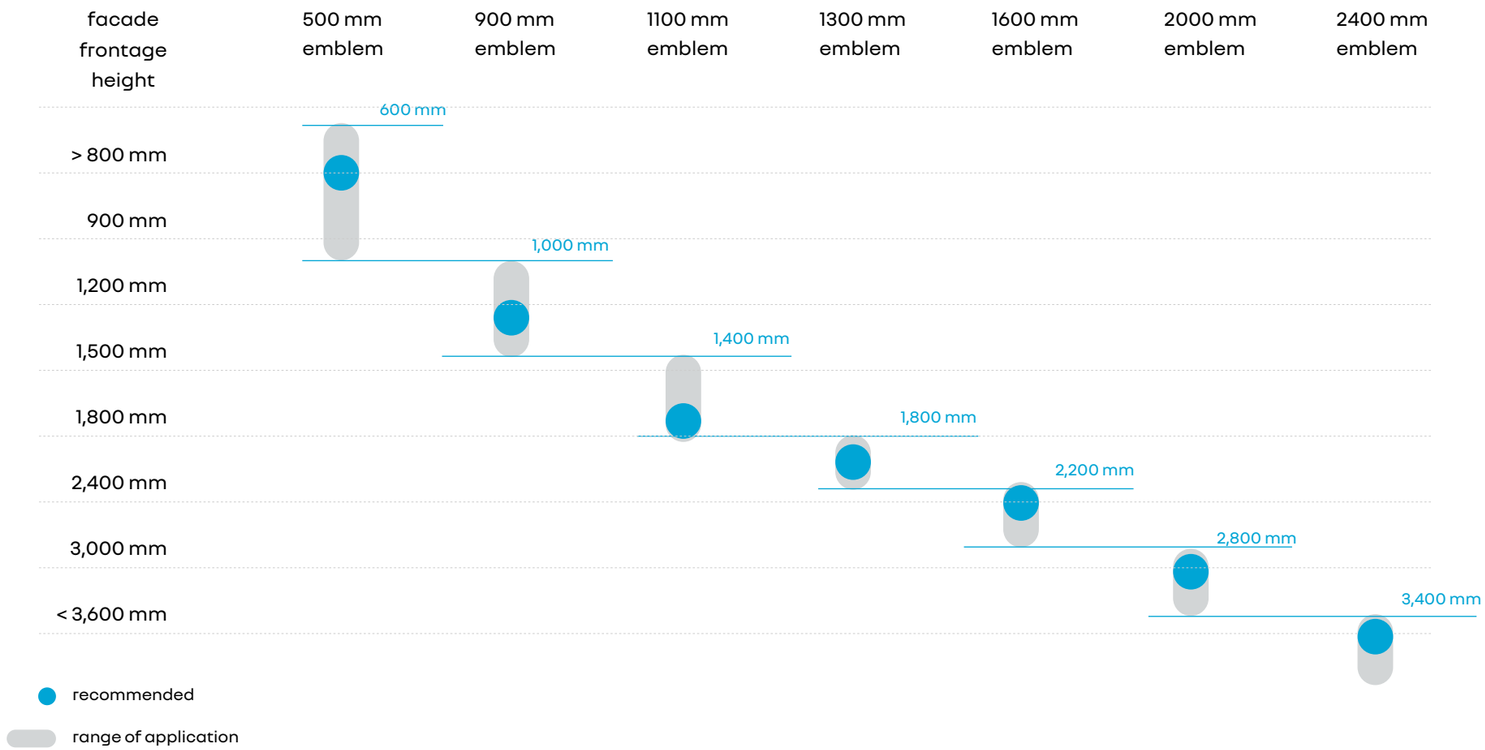
dim.	500 emblem	900 emblem	1100 emblem	1300 emblem	1600 emblem	2000 emblem	2400 emblem
He	150	264	339	378	473	591	710
Lm	1207	2125	2728	3042	3806	4756	5714
a	157	276	354	395	494	617	741
b	37	66	85	94	118	148	177
c	130	229	294	328	411	513	617
d	41	72	92	103	128	160	193
e	158	277	356	397	497	621	746
f	26	46	59	66	82	103	123
g	180	317	406	453	567	709	851
h	18	31	40	44	55	69	83
i	155	272	350	390	488	610	732
j	44	78	100	111	139	174	209
k	39	69	88	98	123	154	185
l	68	120	154	172	215	269	323
m	155	272	350	390	488	610	732

description

The table opposite gives the positioning dimensions for the Renault word lettering of the facade signature.

NOTE. The height of the Renault word is calculated based on the letter “E”.

3.9 correspondence between emblems and facade heights



adaptation principle

The table opposite shows facade heights and corresponding emblem sizes available as standard.

To cater for a variety of specific facade dimensions, each signature may be used for a range of facade heights.

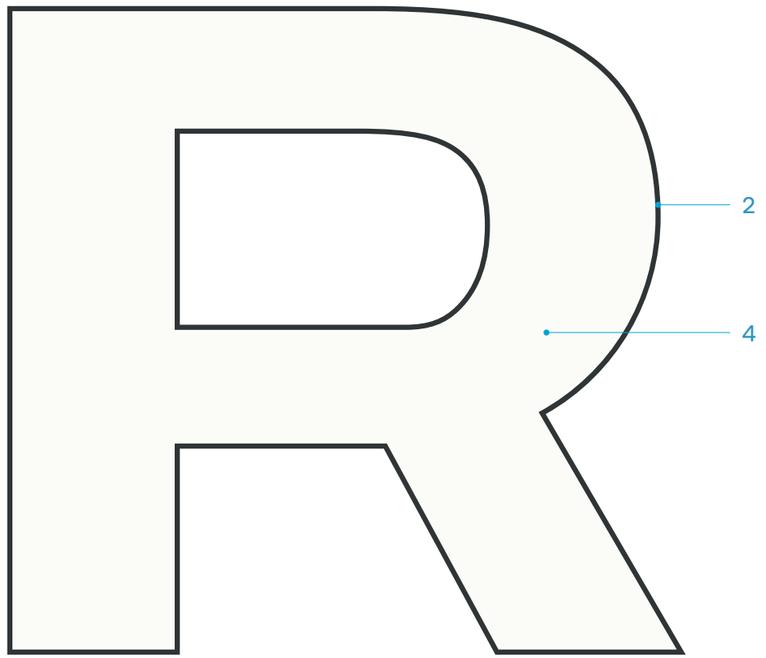
- Example 1.

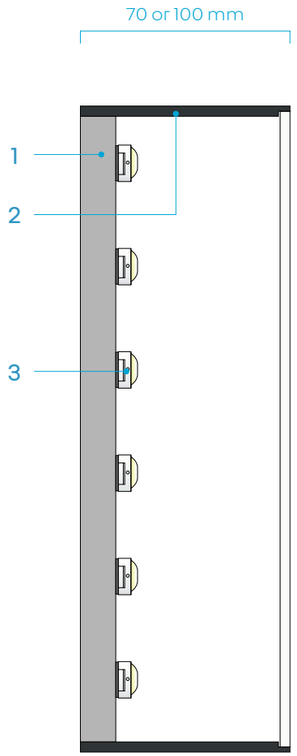
  The 500 mm emblem will cover facades in the height range 600 mm to 1,000 mm approximately.

- Example 2.

  The 2,000 mm emblem can be used for available heights of facade in the range 2,800 mm to over 3,400 mm.

3.10 fabrication principle for lettering





description

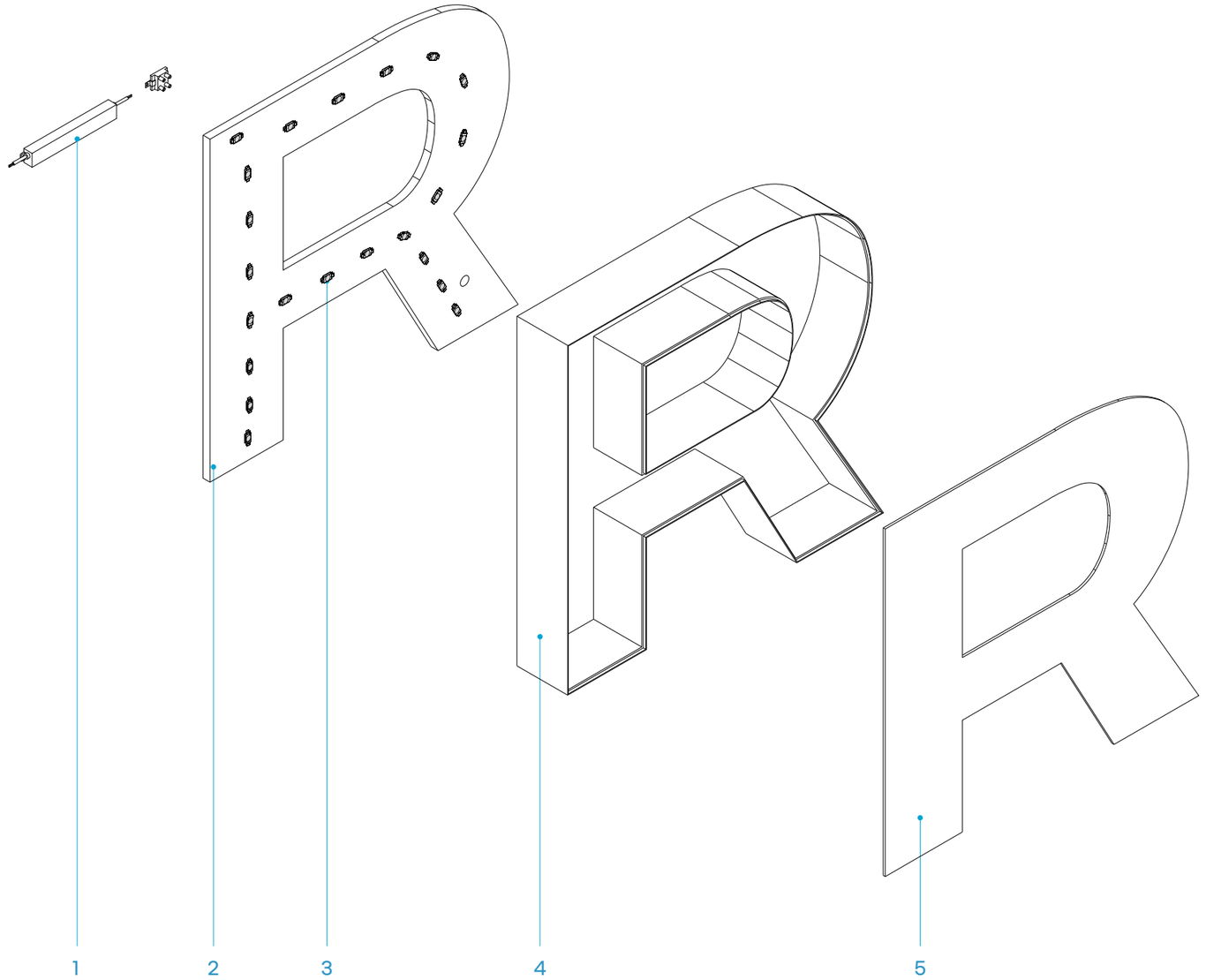
1 Backing in 10 or 13 mm expanded PVC

2 Edging in opaque black 30/10th mm thick PMMA, internal finish in matt white adhesive, with shoulder for flush mounting letter face

3 White chain LEDs, IP65 rated, 6,500° K, luminance 350 cd/m2

4 Letter face in white PMMA, thk. 3 mm, bonded along the edge

3.11 schematic exploded view



description

1 Converter outside the letter, mounted in the peripheral frame of the woven-metal mesh support

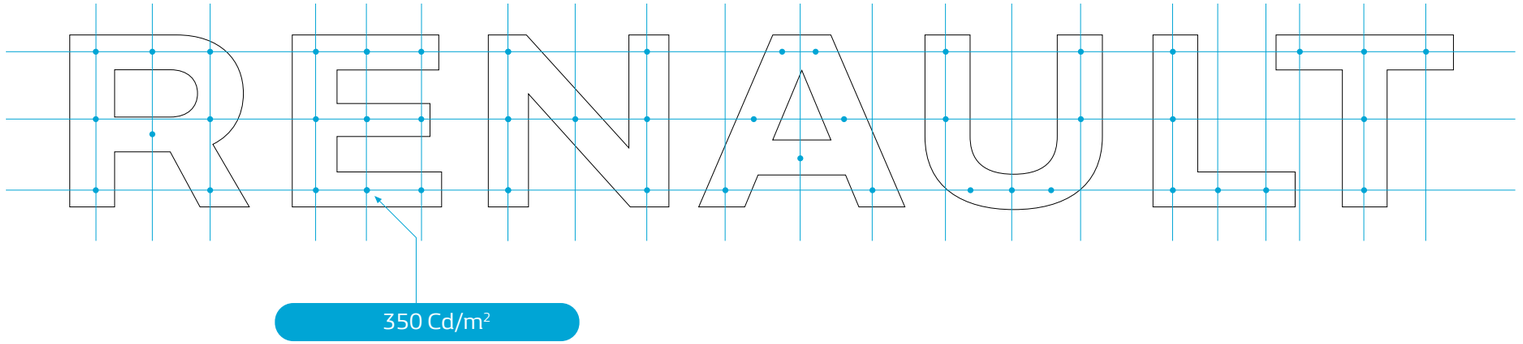
2 Backing in 10 or 13 mm expanded PVC

3 White chain LEDs, IP65 rated, 6,500° K, luminance 350 cd/m2

4 Edging in opaque black 30/10th mm thick PMMA, internal finish in matt white adhesive, with shoulder for flush mounting letter face

5 Letter face in white PMMA, thk. 3 mm, bondes along the edge

3.12 lighting for box letters



description

Illumination of the lettering face by chain LEDs mounted on the letter backing.

The converter, which is common for a group of letters or for all the letters, is mounted outside the lettering.

performances

Chain LED with minimum IP67 protection rating.

Temperature: 6,500° K Cool White.

Minimum luminance: 350 cd/m2 with a minimum of 250 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 70% after 70,000 hours operation.

Minimum guaranteed lifetime: 7 years

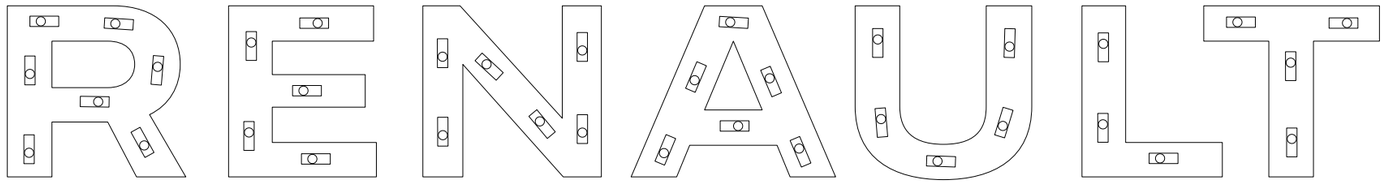
Supply: 220 volts

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 Renault word.

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.

3.11 150mm lettering



R	E	N	A	U	L	T
7 Modules	5 Modules	6 Modules	6 Modules	5 Modules	3 Modules	4 Modules
2.1 watts	1.5 watts	1.8 watts	1.8 watts	1.5 watts	1.0 watts	1.2 watts
461.6 mod/m^2	376.6 mod/m^2	417.1 mod/m^2	462.3 mod/m^2	392.1 mod/m^2	369.5 mod/m^2	433.9 mod/m^2
0.015 m^2	0.013 m^2	0.014 m^2	0.013 m^2	0.013 m^2	0.008 m^2	0.009 m^2

principle

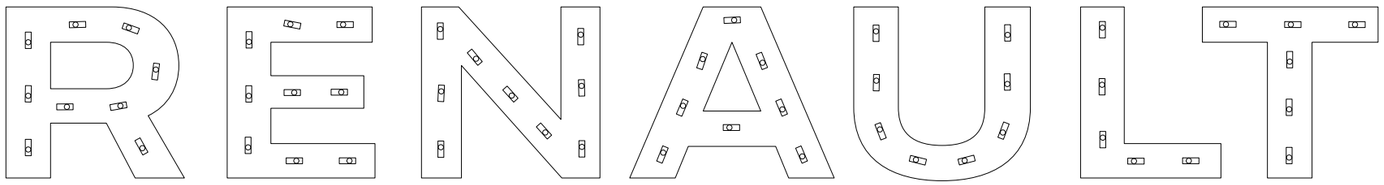
This recommendation is made on the basis of a 30 lumens module with a luminous efficacy of 90 to 100 lumens/watts.

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

description

- Temperature: 6,500° K Cool White
- Supply: 220 volts
- Converter: 12 volts, constant current
- Module: LEDIT - YAKI OPTIKA 30 HL1 WDL IP67
- 63 modules
- Charge: 18.9 watts
- Surface: 0.155 m^2

3.12 264mm lettering



R	E	N	A	U	L	T
9 Modules	9 Modules	9 Modules	8 Modules	5 Modules	8 Modules	5 Modules
2.7 watts	2.7 watts	2.7 watts	2.4 watts	1.5 watts	2.4 watts	1.5 watts
191.3 mod/m^2	218.5 mod/m^2	201.7 mod/m^2	198.7 mod/m^2	392.1 mod/m^2	202.2 mod/m^2	198.5 mod/m^2
0.047 m^2	0.041 m^2	0.045 m^2	0.040 m^2	0.013 m^2	0.040 m^2	0.025 m^2

principle

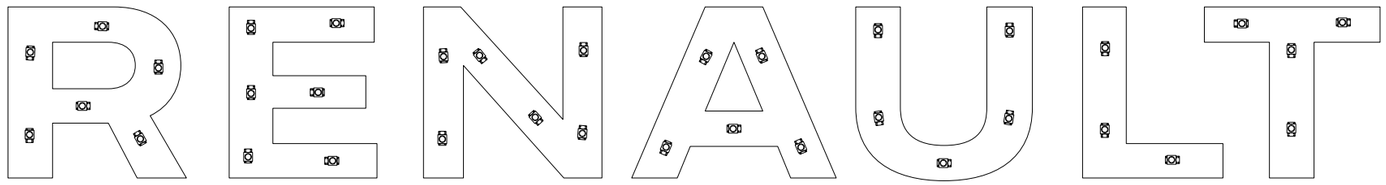
This recommendation is made on the basis of a 30 lumens module with a luminous efficacy of 90 to 100 lumens/watts.

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

description

- Temperature: 6,500° K Cool White
- Supply: 220 volts
- Converter: 12 volts, constant current
- Module: LEDIT - YAKI OPTIKA 30 HL1 WDL IP67
- 97 modules
- Charge: 29.1 watts
- Surface: 0.480 m^2

3.13 339mm lettering



R	E	N	A	U	L	T
6 Modules	6 Modules	6 Modules	5 Modules	5 Modules	3 Modules	4 Modules
2.0 watts	2.0 watts	2.0 watts	1.7 watts	1.7 watts	1.0 watts	1.3 watts
77.4 mod/m^2	88.5 mod/m^2	81.7 mod/m^2	75.4 mod/m^2	76.7 mod/m^2	72.3 mod/m^2	84.9 mod/m^2
0.077 m^2	0.068 m^2	0.073 m^2	0.066 m^2	0.065 m^2	0.041 m^2	0.047 m^2

principle

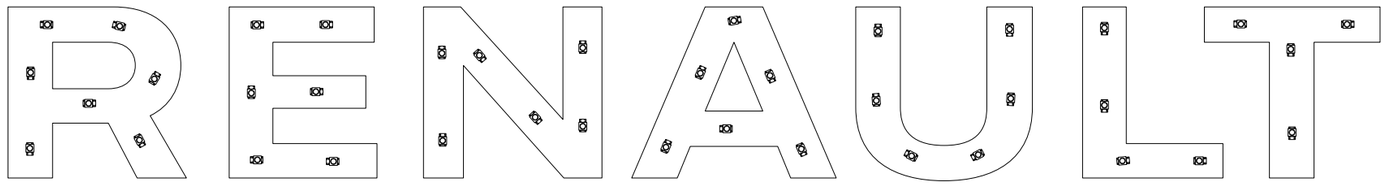
This recommendation is made on the basis of a 40 lumens module with a luminous efficacy of 90 to 100 lumens/watts.

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

description

- Temperature: 6,500° K Cool White
- Supply: 220 volts
- Converter: 12 volts, constant current
- Module: LEDIT - YAKI OPTIKA 40 HF1 OW IP67
- 61 modules
- Charge: 20.1 watts
- Surface: 0.791 m^2

3.14 378mm lettering



R	E	N	A	U	L	T
7 Modules	6 Modules	6 Modules	6 Modules	6 Modules	4 Modules	4 Modules
2.3 watts	2.0 watts	2.0 watts	2.0 watts	2.0 watts	1.3 watts	1.3 watts
72.4 mod/m^2	70.9 mod/m^2	65.4 mod/m^2	72.5 mod/m^2	73.8 mod/m^2	77.3 mod/m^2	68.1 mod/m^2
0.097 m^2	0.085 m^2	0.092 m^2	0.083 m^2	0.081 m^2	0.052 m^2	0.059 m^2

principle

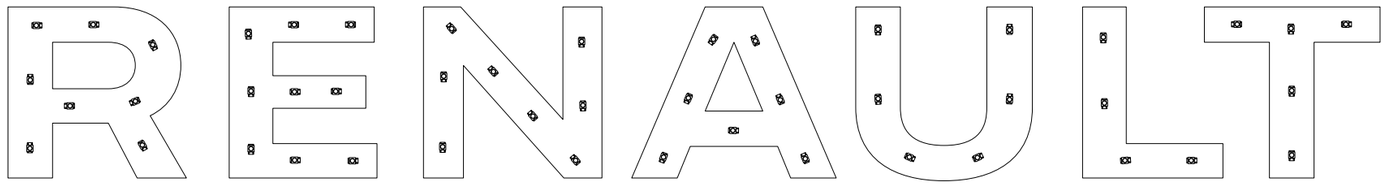
This recommendation is made on the basis of a 40 lumens module with a luminous efficacy of 90 to 100 lumens/watts.

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

description

- Temperature: 6,500° K Cool White
- Supply: 220 volts
- Converter: 12 volts, constant current
- Module: LEDIT - YAKI OPTIKA 40 HF1 OW IP67
- 65 modules
- Charge: 21.5 watts
- Surface: 0.987 m^2

3.15 473mm lettering



R	E	N	A	U	L	T
8 Modules	9 Modules	8 Modules	7 Modules	6 Modules	4 Modules	5 Modules
2.6 watts	3.0 watts	2.6 watts	2.3 watts	2.0 watts	1.3 watts	1.7 watts
53.0 mod/m^2	68.1 mod/m^2	55.8 mod/m^2	54.2 mod/m^2	47.2 mod/m^2	49.5 mod/m^2	54.5 mod/m^2
0,151 m^2	0,132 m^2	0,143 m^2	0,129 m^2	0,127 m^2	0.081 m^2	0.092 m^2

principle

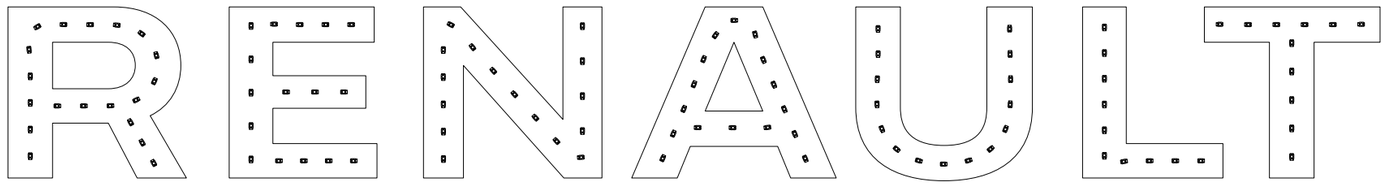
This recommendation is made on the basis of a 40 lumens module with a luminous efficacy of 90 to 100 lumens/watts.

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

description

- Temperature: 6,500° K Cool White
- Supply: 220 volts
- Converter: 12 volts, constant current
- Module: LEDIT - YAKI OPTIKA 40 HF1 OW IP67
- 83 modules
- Charge: 27.4 watts
- Surface: 1.542 m^2

3.16 591mm lettering



R	E	N	A	U	L	T
19 Modules	16 Modules	16 Modules	16 Modules	15 Modules	10 Modules	11 Modules
6.3 watts	5.3 watts	5.3 watts	5.3 watts	5.0 watts	3.3 watts	3.63 watts
55.9 mod/m^2	53.8 mod/m^2	49.6 mod/m^2	55.0 mod/m^2	52.5 mod/m^2	55.0 mod/m^2	53.2 mod/m^2
0.340 m^2	0.297 m^2	0.322 m^2	0.291 m^2	0.286 m^2	0.182 m^2	0.207 m^2

principle

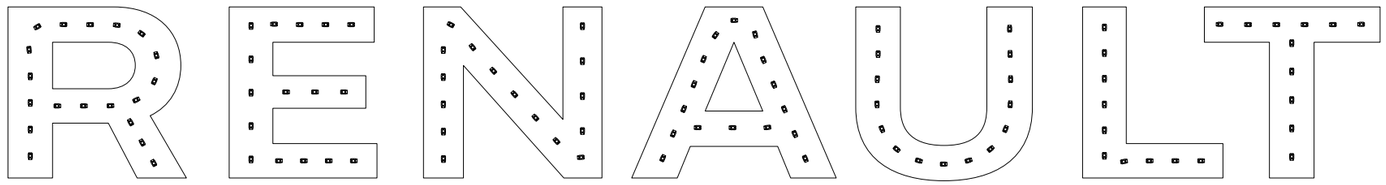
This recommendation is made on the basis of a 40 lumens module with a luminous efficacy of 90 to 100 lumens/watts.

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

description

- Temperature: 6,500° K Cool White
- Supply: 220 volts
- Converter: 12 volts, constant current
- Module: LEDIT - YAKI OPTIKA 40 HF1 OW IP67
- 185 modules
- Charge: 61.0 watts
- Surface: 3.469 m^2

3.17 710mm lettering



R	E	N	A	U	L	T
19 Modules	16 Modules	16 Modules	16 Modules	15 Modules	10 Modules	11 Modules
6.3 watts	5.3 watts	5.3 watts	5.3 watts	5.0 watts	3.3 watts	3.63 watts
55.9 mod/m^2	53.8 mod/m^2	49.6 mod/m^2	55.0 mod/m^2	52.5 mod/m^2	55.0 mod/m^2	53.2 mod/m^2
0.340 m^2	0.297 m^2	0.322 m^2	0.291 m^2	0.286 m^2	0.182 m^2	0.207 m^2

principle

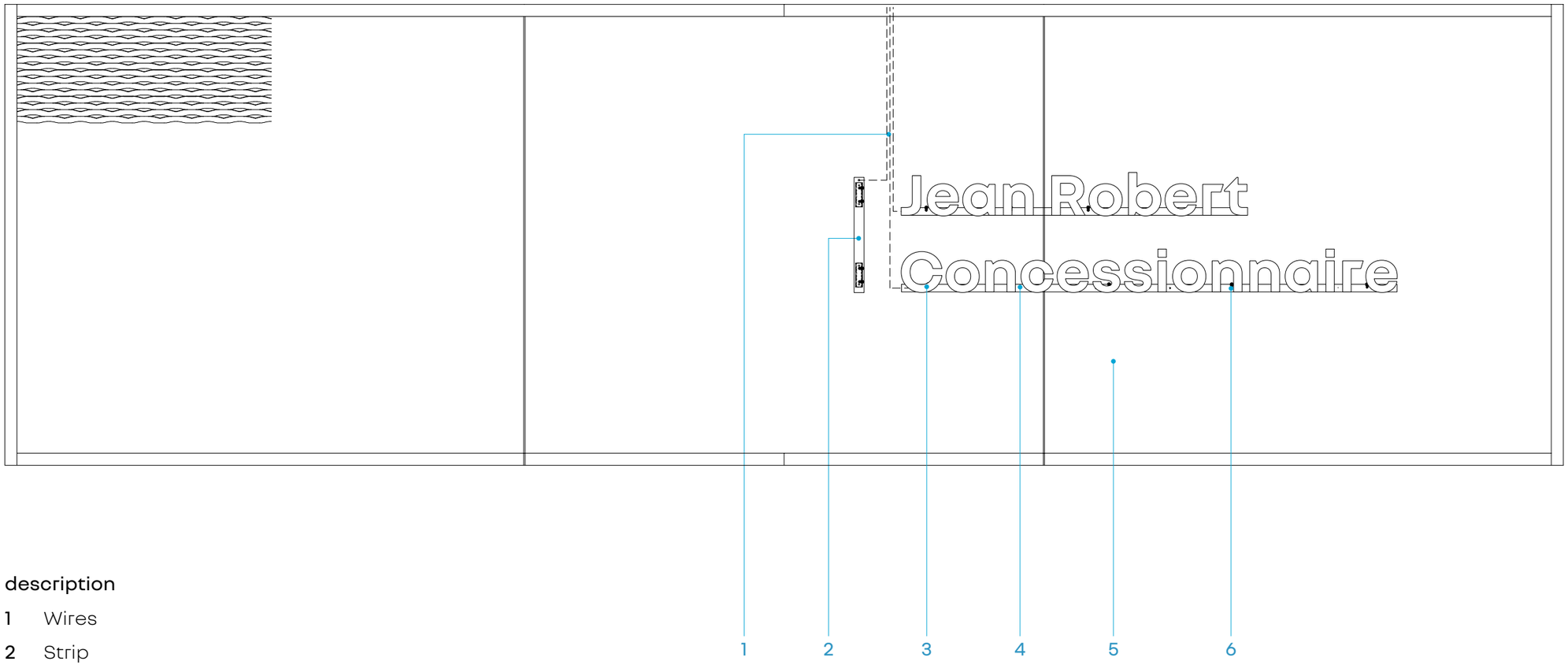
This recommendation is made on the basis of a 40 lumens module with a luminous efficacy of 90 to 100 lumens/watts.

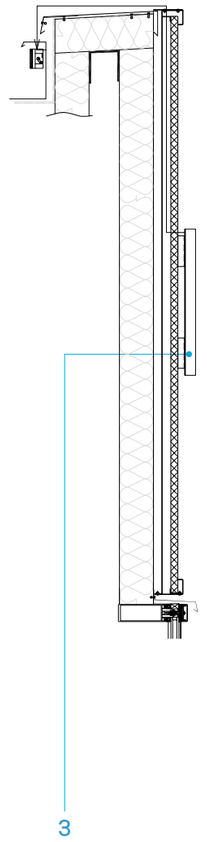
The instruction remains indicative and shall require, for each letter, a validation and a test for compliance with the performance targets indicated in this document.

description

- Temperature: 6,500° K Cool White
- Supply: 220 volts
- Converter: 12 volts, constant current
- Module: LEDIT - YAKI OPTIKA 40 HF1 OW IP67
- 185 modules
- Charge: 61.0 watts
- Surface: 3.469 m^2

3.18 manufacturing principles for dealername





description

1 Wires

2 Strip

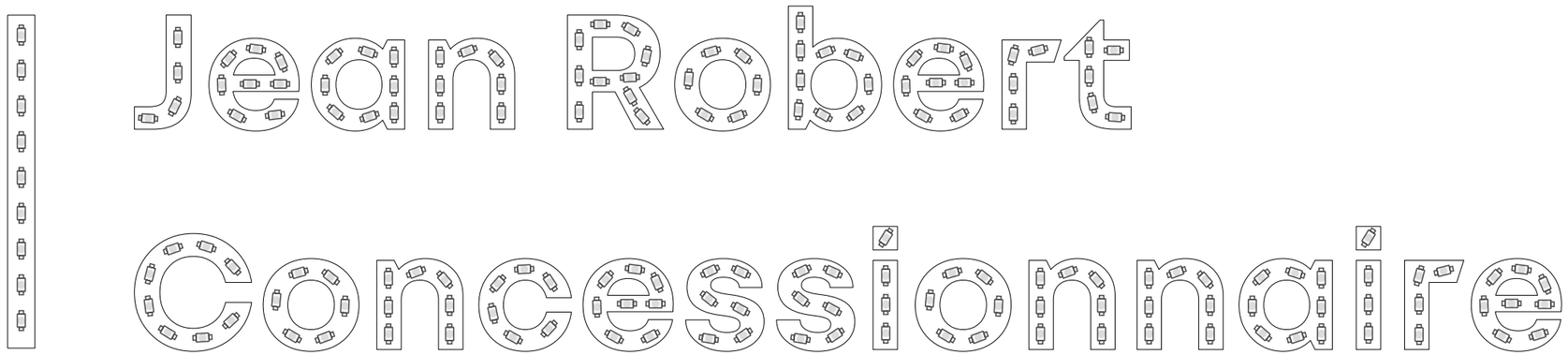
3 Dealername in 30mm PMMA

4 Tube for wiring and plate cutout to letters shapes

5 Metallic mesh

6 Brackets

3.19 lighting of dealername



principle

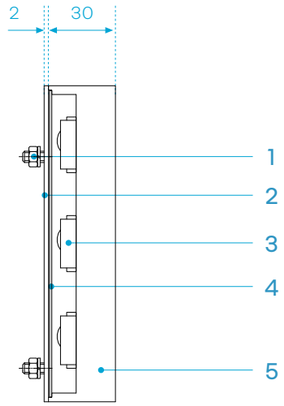
This recommendation is made on the basis of a 10 lumens module with a luminous efficacy over 100 lumens/watts.

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

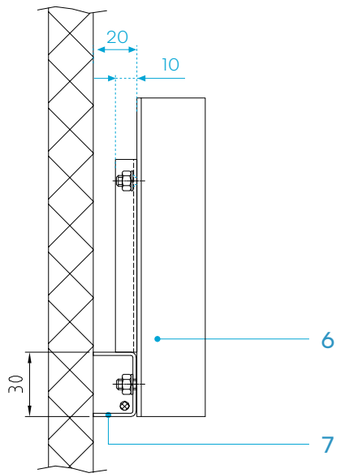
description

- Temperature: 6,500° K Cool White
- Supply: 220 volts
- Converter: 12 volts, constant current
- Module: LEDIT - YAKI OPTIKA 10 HL1 WD White IP67
- Power: 0.14 watt per module

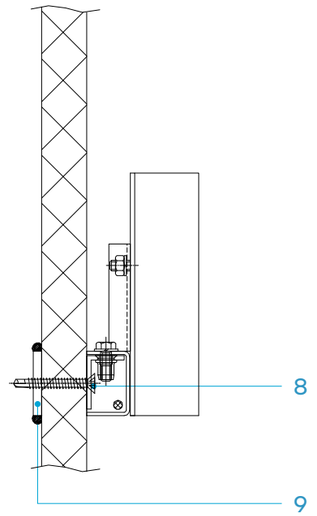
3.20 manufacturing details for dealername



FABRICATION DETAIL OF LETTERS



FITTINGS OF EACH LETTER



FITTINGS OF DEALERNAME ON MESH

description

1 M5x10 stainless nuts.

2 Backing in 2 mm aluminium lacquered RAL 7021 dark grey.

3 White chain LEDs with luminance 350 cd/m2, oriented toward the back of the letter.

4 Inner reflector in white aluminium sheet, thk. 1 mm,

5 White PMMA ref. Altuglas 160.27040, thk. 30 mm, outside edging in opaque black adhesive, internal finish in matt white adhesive.

6 Bracket in aluminium 10 x1 5 x 1,5 mm, lacquered RAL 7021 dark grey

7 U tube for wiring in aluminium 20 x 30 x 1,5 mm, lacquered RAL 7021 dark grey

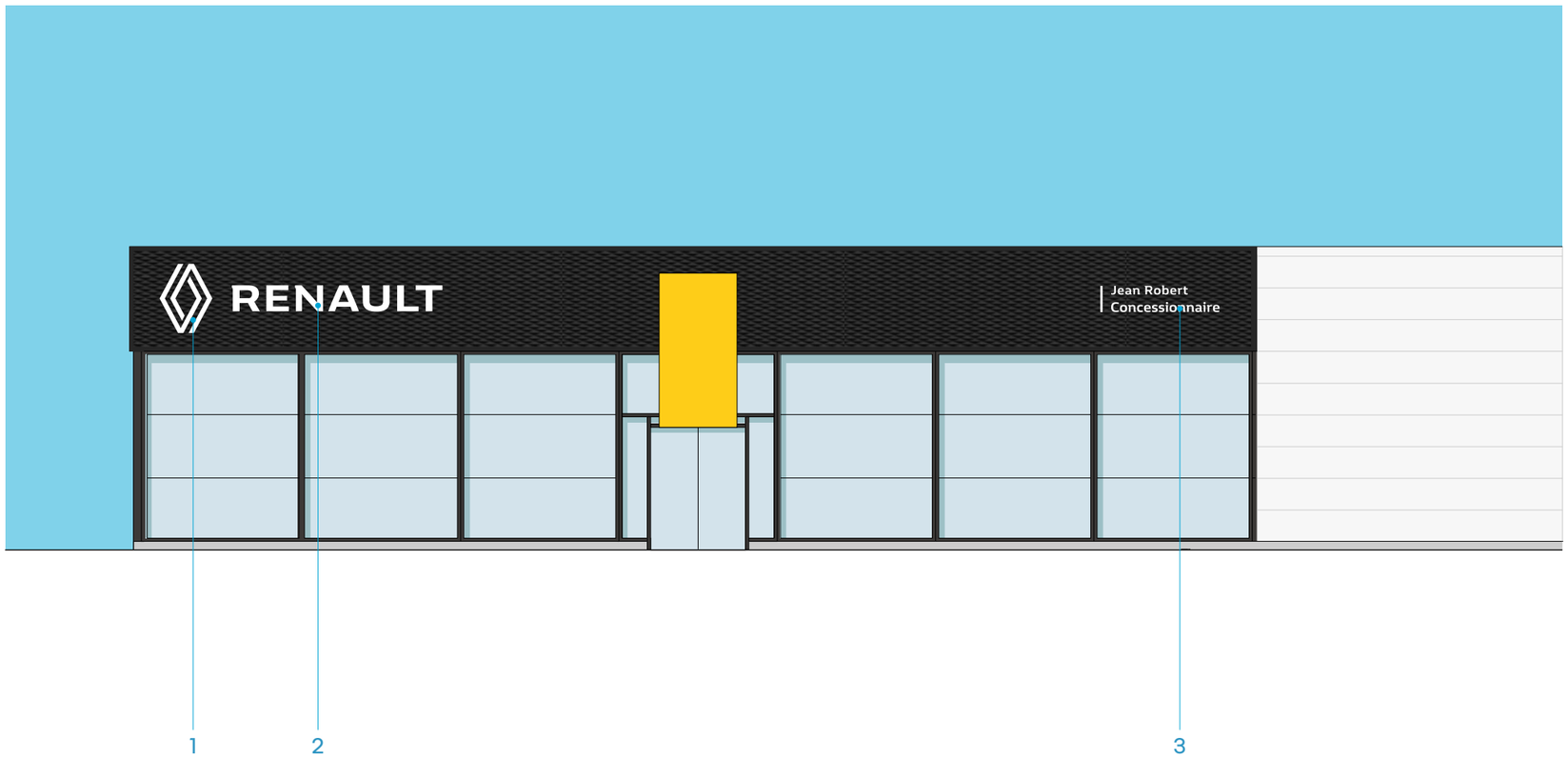
8 L or U shape aluminium bracket 18 x 25 x 2 mm, lacquered RAL 7021 dark grey

9 Aluminium Plate 30 x 5 mm, lacquered RAL 7021 dark grey

4

technical principles
retrofit of existing signs

4.1 overview



description

The facade markings include:

- the Renault signature, made up of the emblem and the existing Renault wordmark,
- the existing dealername.

These elements are always placed on the dark grey background of the woven-metal mesh in dealerships sites.

Two layout drawings, defining the proportions between the emblem and the Renault wordmark, are recommended:

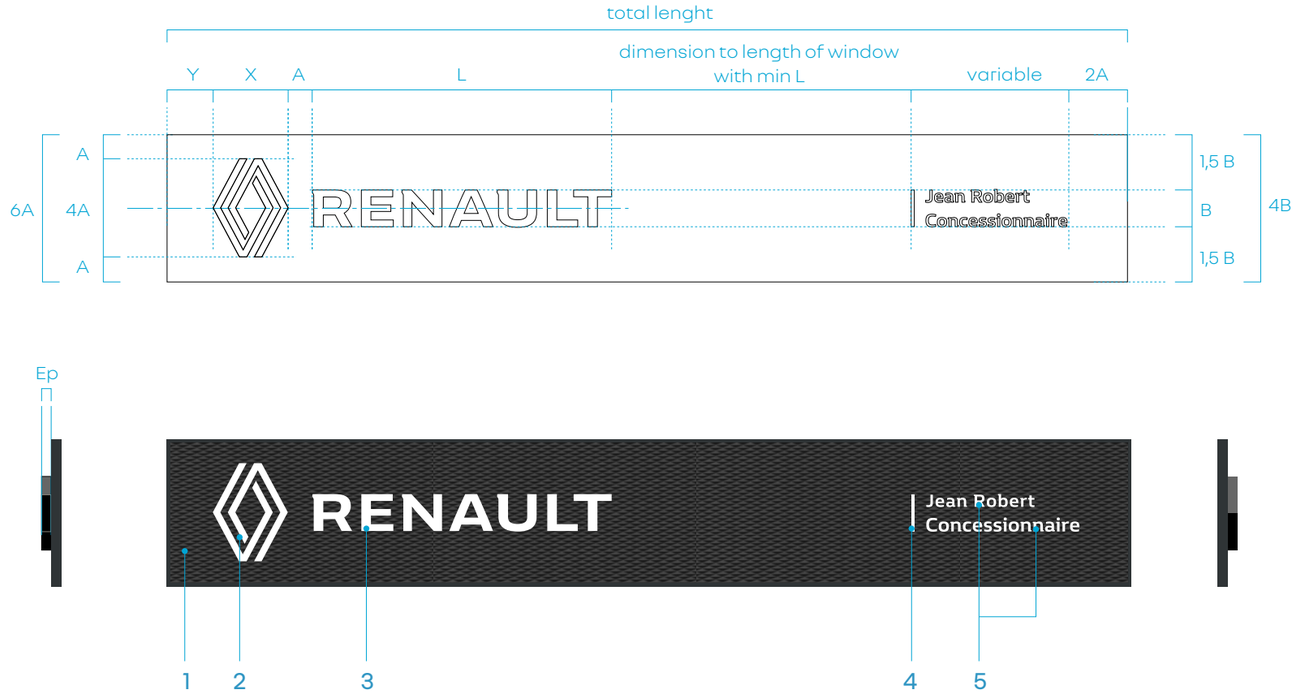
- layout drawing v1, for facades of standard heights,
- layout drawing v2 for low facades (less than 1.5 m of frontage).

1 New emblem

2 Existing Renault wordmark

3 Existing dealername

4.2 outlines of the main facade markings v1



principle

This layout gives the proportions between the different components appearing on the high facades (more than 1500 mm).

The existing emblem must be replaced by the new one without deplacing the existing wordmark.

1 Dark grey background in woven-metal mesh

2 Emblem, LED-backlit, with light-diffusing face, edges made with aluminum sheeting black painted

3 Existing Renault wordmark in backlit box letters

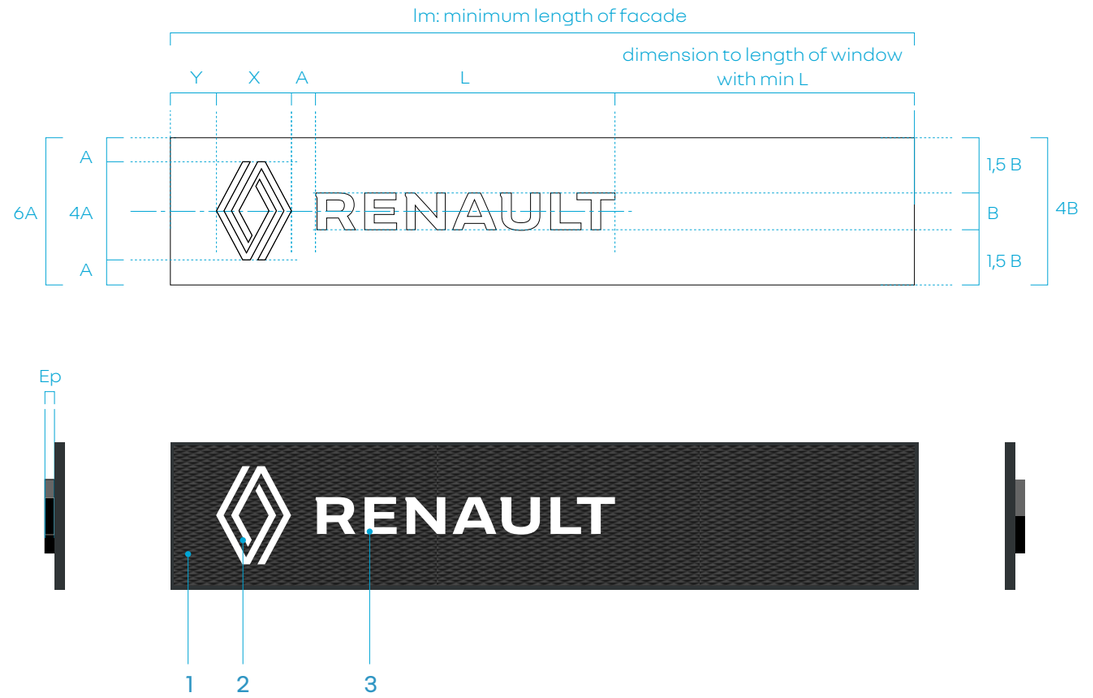
4 Existing backlit vertical strip

5 Existing backit dealername

B is the height of the Renault wordmark calculated on the "E" letter

dim	1100 emblem	1300 emblem	1600 emblem	2400 emblem
A	287	320	400	600
2A	574	640	800	1200
4A	1146	1280	1600	2400
6A	1720	1920	2400	3600
X	875	977	1222	1832
Y	558	663	778	1168
L	3442	3842	4803	7204
Ep	72	72	72	100
B	430	480	600	900
1,5B	645	720	900	1350

4.3 drawings of secondary facade markings v1



principle

This layout gives a minimum dimension for the signature on a secondary facade.

The existing emblem must be replaced by the new one without deplacing the existing wordmark.

Dimension Lm represents the minimum length of the facade compatible with the use of this signature on a secondary facade.

The height of the Renault wordmark is calculated based on the letter "E".

1 Dark grey background in woven-metal mesh

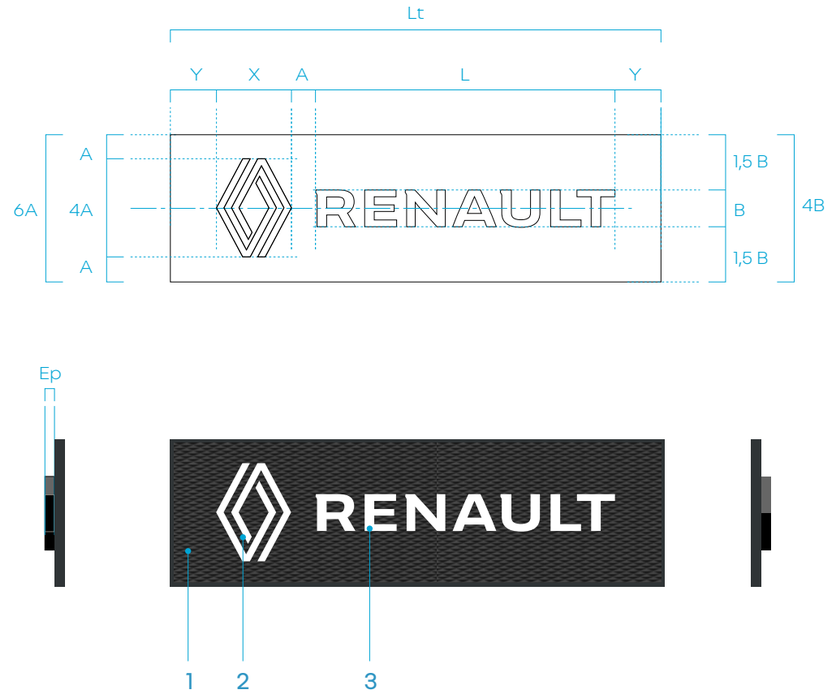
2 Emblem, LED-backlit, with light-diffusing face, edges made with aluminum sheeting black painted

3 Existing Renault wordmark in backlit box letters

B is the height of the Renault wordmark calculated on the "E" letter

dim	1100 emblem	1300 emblem	1600 emblem	2400 emblem
A	287	320	400	600
2A	574	640	800	1200
4A	1146	1280	1600	2400
6A	1720	1920	2400	3600
X	875	977	1222	1832
Y	558	663	778	1168
L	3442	3842	4803	7204
Ep	72	72	72	100
B	430	480	600	900
1,5B	645	720	900	1350
Lm	81714	9930	12158	18236

4.4 drawings of blind facade markings v1



principle

This layout gives the standard dimensions of the signature on a highly visible blind facade (facade without the glazed sections of a showroom).

The existing emblem must be replaced by the new one without deplacing the existing wordmark.

The height of the Renault wordmark is calculated based on the letter "E".

1 Dark grey background in woven-metal mesh

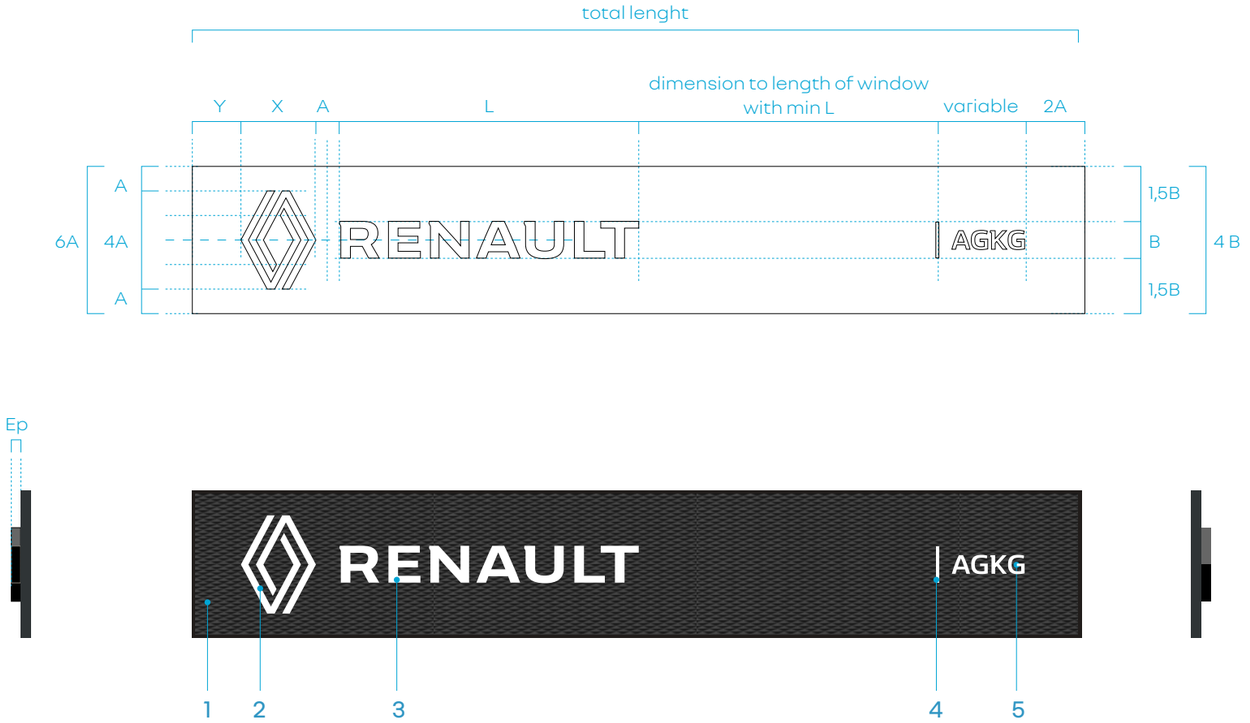
2 Emblem, LED-backlit, with light-diffusing face, edges made with aluminum sheeting black painted

3 Existing Renault wordmark in backlit box letters

B is the height of the Renault wordmark calculated on the "E" letter

dim	1100 emblem	1300 emblem	1600 emblem	2400 emblem
A	287	320	400	600
Y	574	640	800	1200
4A	1146	1280	1600	2400
6A	1720	1920	2400	3600
X	875	977	1222	1832
Y	558	663	778	1168
L	3442	3842	4803	7204
Ep	72	72	72	100
B	430	480	600	900
1,5B	645	720	900	1350
Lt	5905	6729	8239	12358

4.5 dealername on a single line v1



principle

This layout shows the proportions between the Renault Signature and the dealername on a single line whose height is equal to 50% of that of the Renault wordmark.

The existing emblem must be replaced by the new one without deplacing the existing wordmark.

1 Dark grey background in woven-metal mesh

2 Emblem, LED-backlit, with light-diffusing face, edges made with aluminum sheeting black painted

3 Existing Renault wordmark in backlit box letters

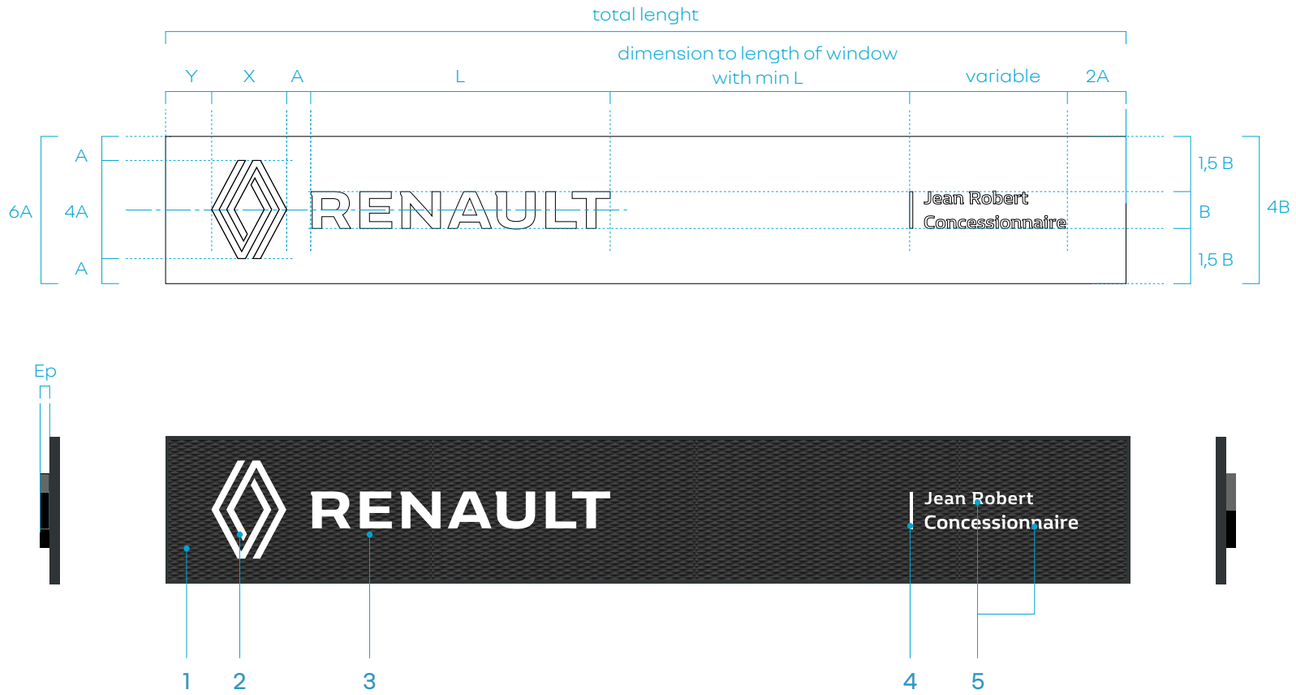
4 Existing backlit vertical strip

5 Existing backit dealername

B is the height of the Renault wordmark calculated on the "E" letter →

dim	1100 emblem	1300 emblem	1600 emblem	2400 emblem
A	287	320	400	600
2A	574	640	800	1200
4A	1146	1280	1600	2400
6A	1720	1920	2400	3600
X	875	977	1222	1832
Y	558	663	778	1168
L	3442	3842	4803	7204
Ep	72	72	72	100
B	430	480	600	900
1,5B	645	720	900	1350

4.6 outlines of the main facade markings v2



principle

This lay-out is used on the main facade of low buildings (less than 1.5 m of frontage).

The existing emblem must be replaced by the new one without deplacing the existing wordmark.

1 Dark grey background in woven-metal mesh

2 Emblem, LED-backlit, with light-diffusing face, edges made with aluminum sheeting black painted

3 Existing Renault wordmark in backlit box letters

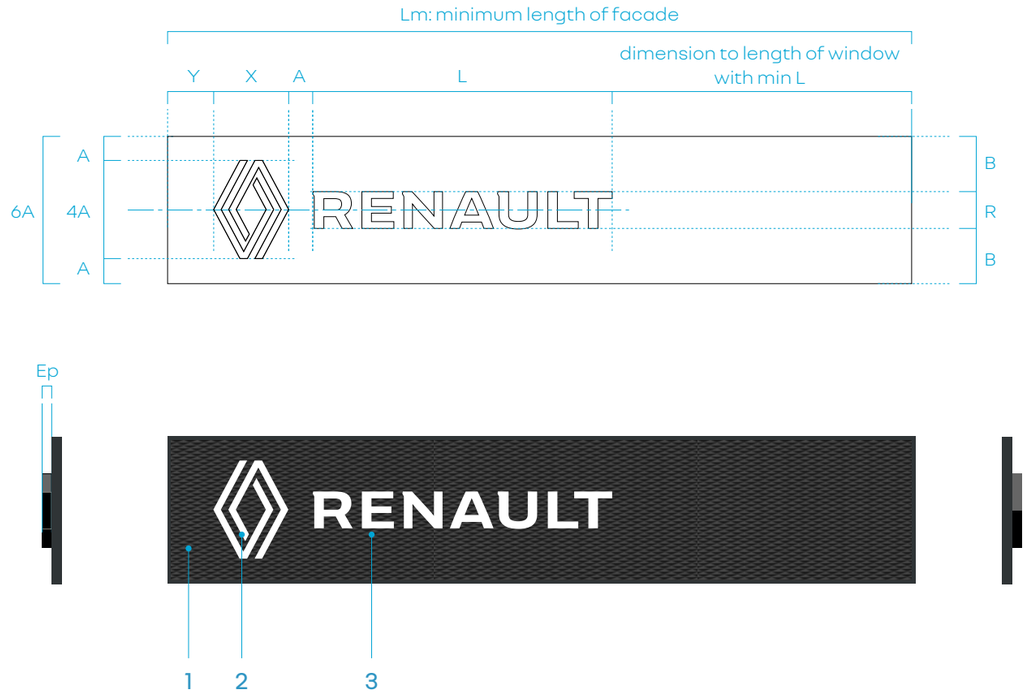
4 Existing backlit vertical strip

5 Existing backit dealername

B is the height of the Renault wordmark calculated on the "E" letter

dim.	500 emblem	900 emblem
A	127	223
2A	254	446
Y	247	434
4A	508	892
6A	762	1338
X	387	680
R	150	264
L	1207	2125
Ep	72	72
B	191	335
1,5B	286	502

4.7 outlines of the main facade markings v2



principle

This lay-out is used on the main facade of low buildings (less than 1.5 m of frontage).

The existing emblem must be replaced by the new one without deplacing the existing wordmark.

1 Dark grey background in woven-metal mesh

2 Emblem, LED-backlit, with light-diffusing face, edges made with aluminum sheeting black painted

3 Existing Renault wordmark in backlit box letters

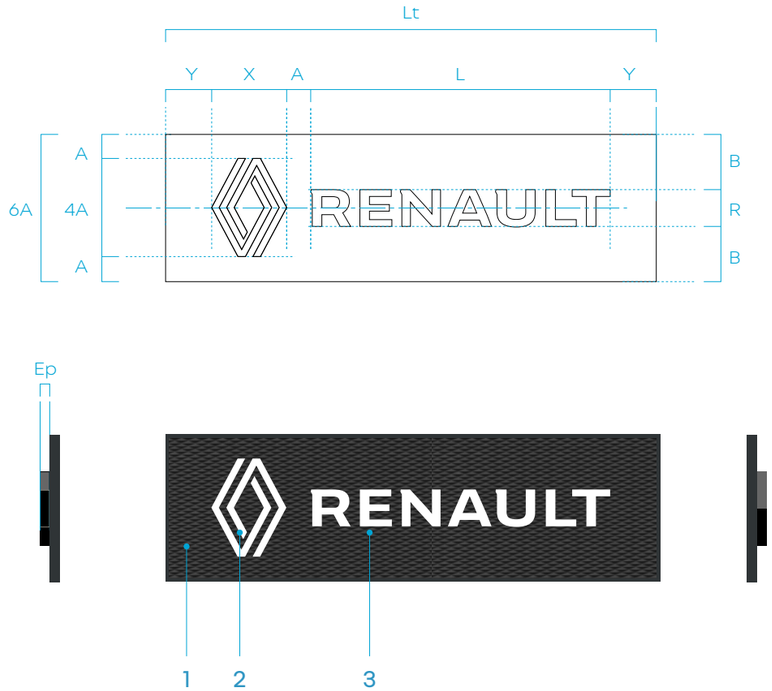
4 Existing backlit vertical strip

5 Existing backit dealername

B is the height of the Renault wordmark calculated on the "E" letter

dim.	500 emblem	900 emblem
A	127	223
Y	247	434
4A	508	892
6A	760	1340
X	387	680
R	228	402
L	1650	2909
Ep	72	72
B	266	469
Lm	4061	7155

4.8 outlines of the blind facade markings v2



principle

This lay-out is used on the main facade of low buildings (less than 1.5 m of frontage).

The existing emblem must be replaced by the new one without deplacing the existing wordmark.

1 Dark grey background in woven-metal mesh

2 Emblem, LED-backlit, with light-diffusing face, edges made with aluminum sheeting black painted

3 Existing Renault wordmark in backlit box letters

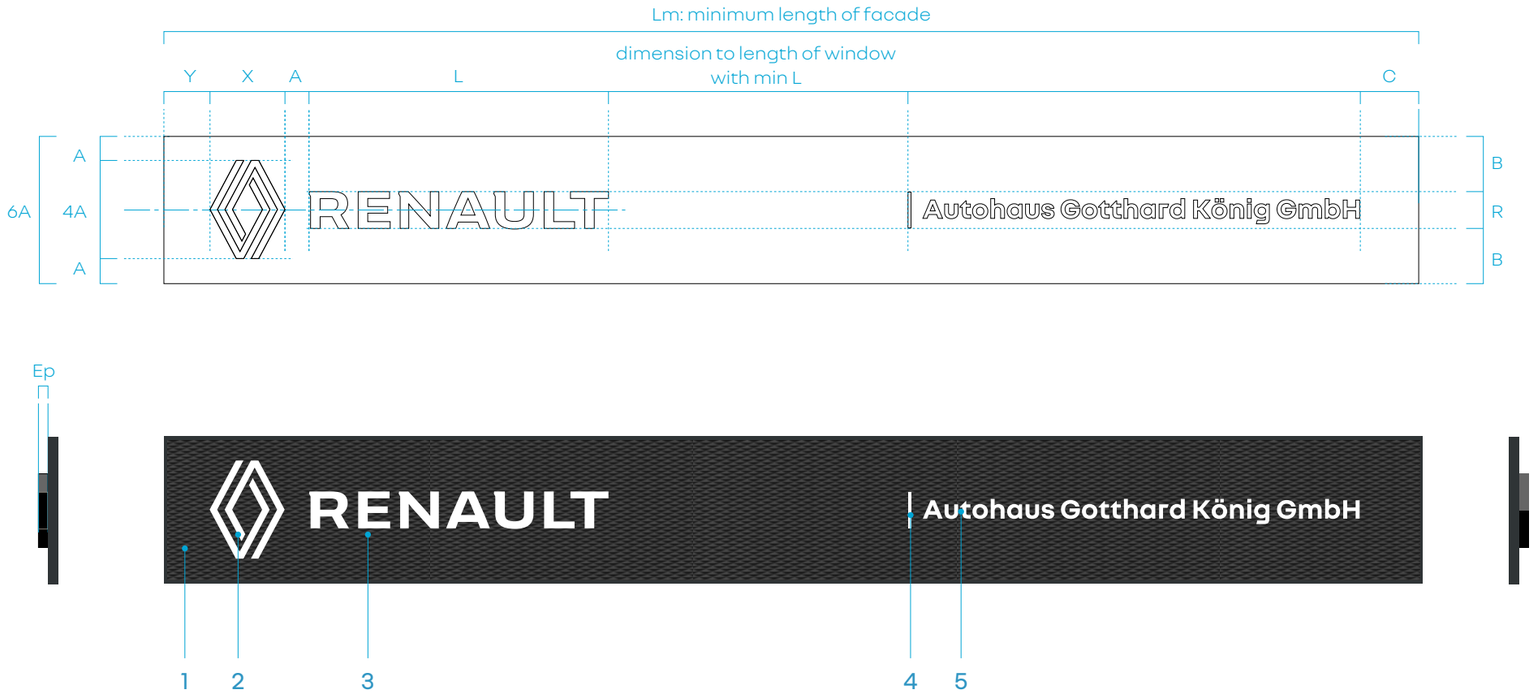
4 Existing backlit vertical strip

5 Existing backit dealername

dim.	500 emblem	900 emblem
A	127	223
Y	247	434
4A	508	892
6A	760	1340
X	387	680
R	228	402
L	1650	2909
Ep	72	72
B	266	469
Lt	2658	4680

B is the height of the Renault wordmark calculated on the "E" letter

4.9 dealername on a single line v2



principle

This lay-out is used on the main facade of low buildings (less than 1.5 m of frontage).

The existing emblem must be replaced by the new one without deplacing the existing wordmark.

1 Dark grey background in woven-metal mesh

2 Emblem, LED-backlit, with light-diffusing face, edges made with aluminum sheeting black painted

3 Existing Renault wordmark in backlit box letters

4 Existing backlit vertical strip

5 Existing backit dealername

B is the height of the Renault wordmark calculated on the "E" letter

dim.	500 emblem	900 emblem
A	127	223
Y	247	434
4A	508	892
6A	760	1340
X	387	680
R	228	402
L	1650	2909
Ep	72	72
B	266	469
C	304	536
Lm	4061	7155

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