renault signage

totems & flag insignia

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 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.

2.1.3.2 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.

general technical requirements

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.

general technical requirements

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

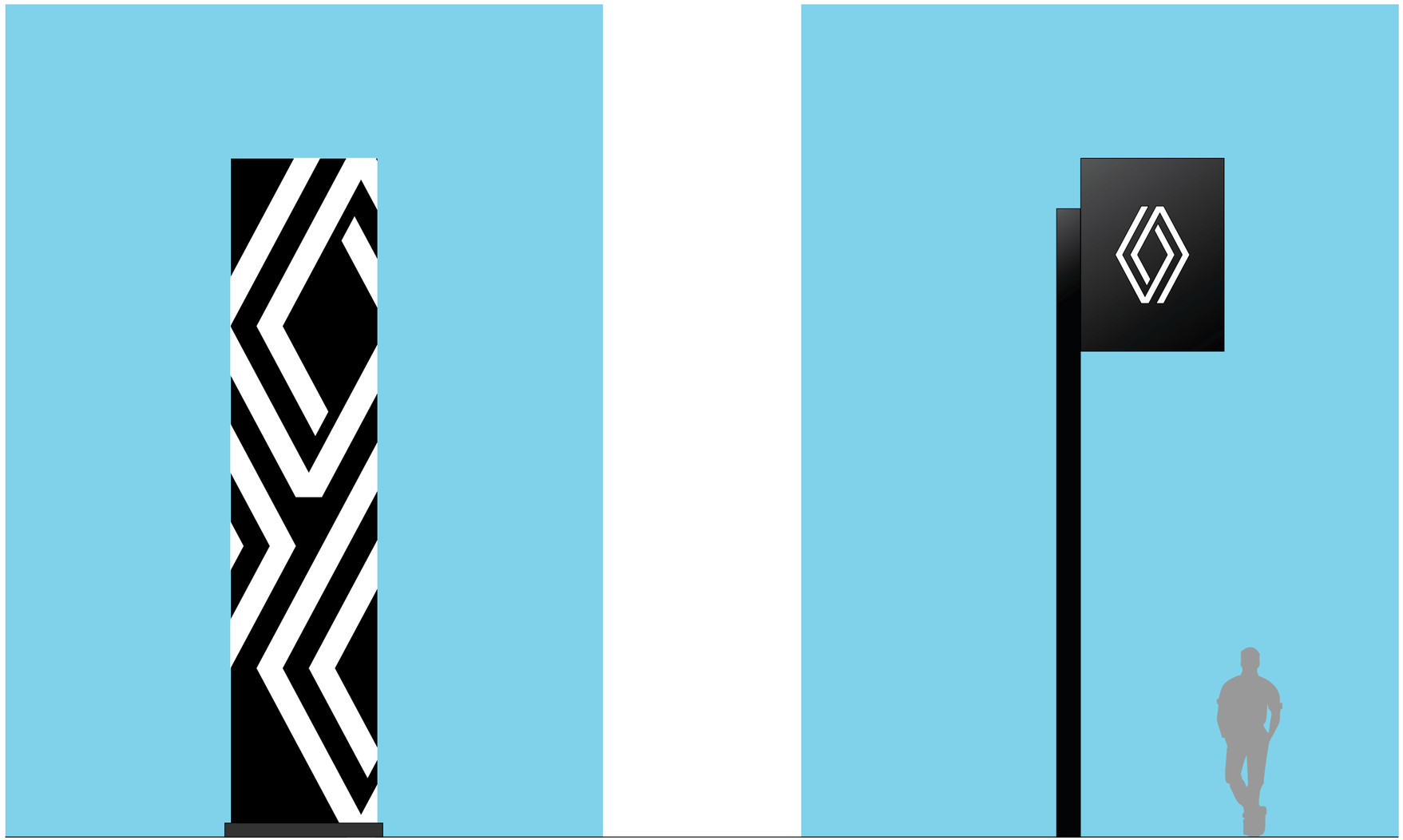
The suppliers undertake to offer the guarantee conditions below for their products:

- 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 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

2.1 general view



1 2

description

Renault sites are identified by a totem or, failing that, by a flag insignia.

These elements are essential contributors to brand recognition present in the dealer networks.

1 Totem

2 Flag insignia on mast

2.2 family of totems

description

Different technical variants of totems are recommended depending on whether you are retrofitting an existing totem, a new installation or even a high-visibility flagship site.

1

Totem with ACM sheet metal faces featuring a graphic decor

lighting from the base

economical solution recommended as part of the retrofit of a previous generation totem.

2

Totem with stretched canvas faces with graphic decor

full face backlighting

recommended solution for new installations or for flagship sites.

3

Totem with faces in completely black satin ACM sheet metal

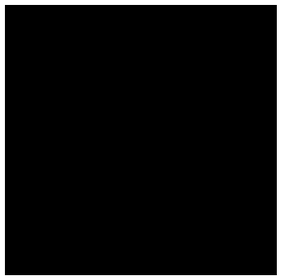
backlit emblem and optional lighting from the base

recommended only if the two previous variants are prohibited locally by the regulations.

2.3 colours & materials

dark grey
equivalent to RAL 7021

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

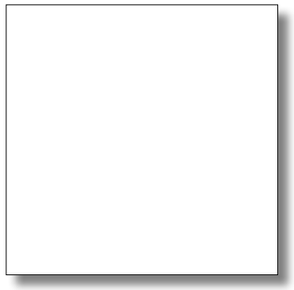


RAL 9005 black

- pre-lacquered aluminium sheeting, 15/10 mm thick
- satin finish with 40% gloss
- printing on pvc fabric 650 g/m^2

pantone 3955 C yellow
equivalent to RAL 1016

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



pure white
equivalent to RAL 9001

- matt adhesive pvc
- printing on pvc fabric 650 g/m^2
- white diffusing pmma, 40/10 mm thick

3

retrofit of existing totems with ACM faces

3.1 presentation

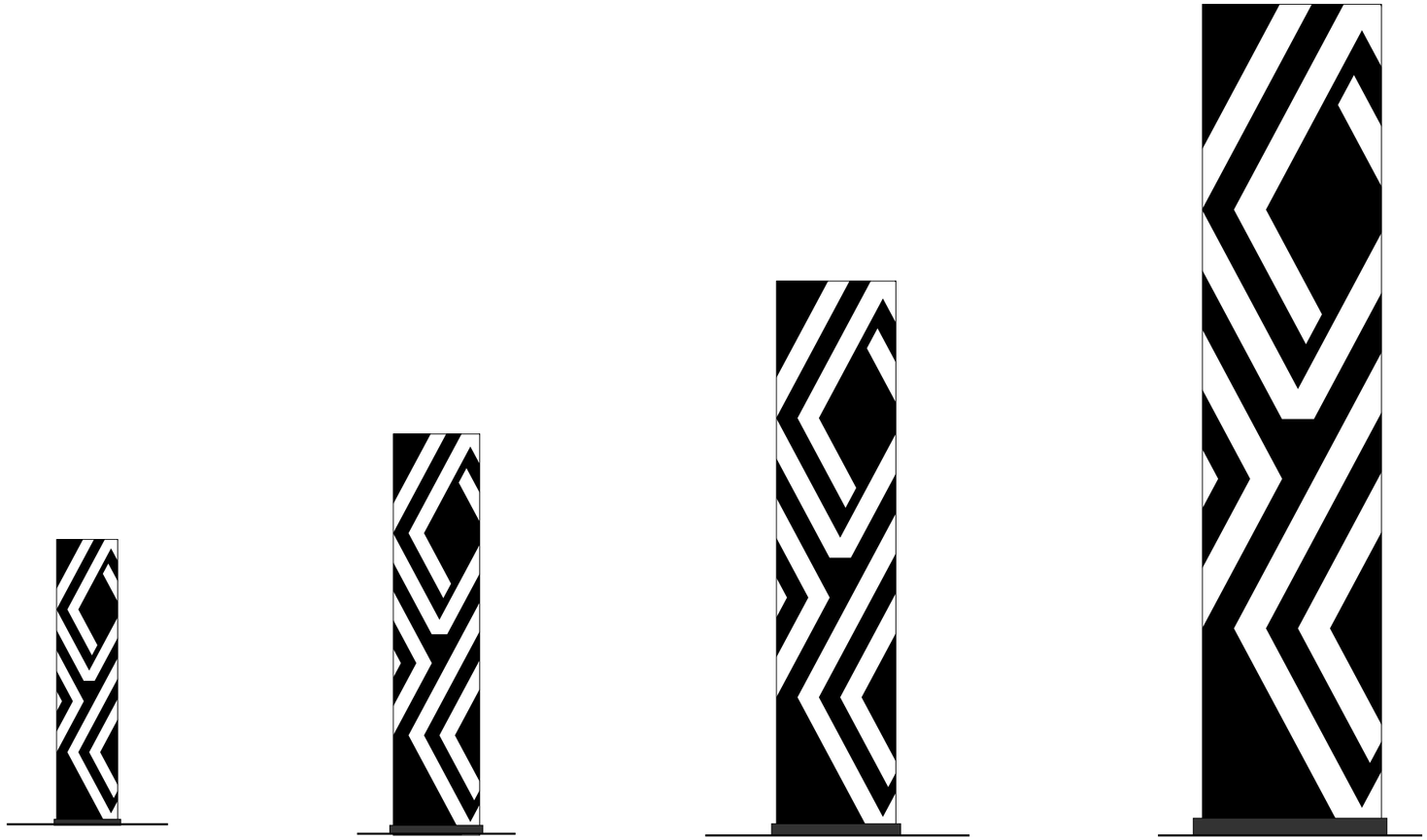
description

For exisiting Renault sites, it is recommanded to replace the yellow faces of existing totem by ACM panels with new decoration.

Existing lighting in the base is adapted with new chain leds more powerful with a cold colour.

1 Retrofited totem

3.2 family of elements



4500 totem

6500 totem

9000 totem

13500 totem

principle

The 4 existing sizes of yellow totems must be retrofitted when needed.

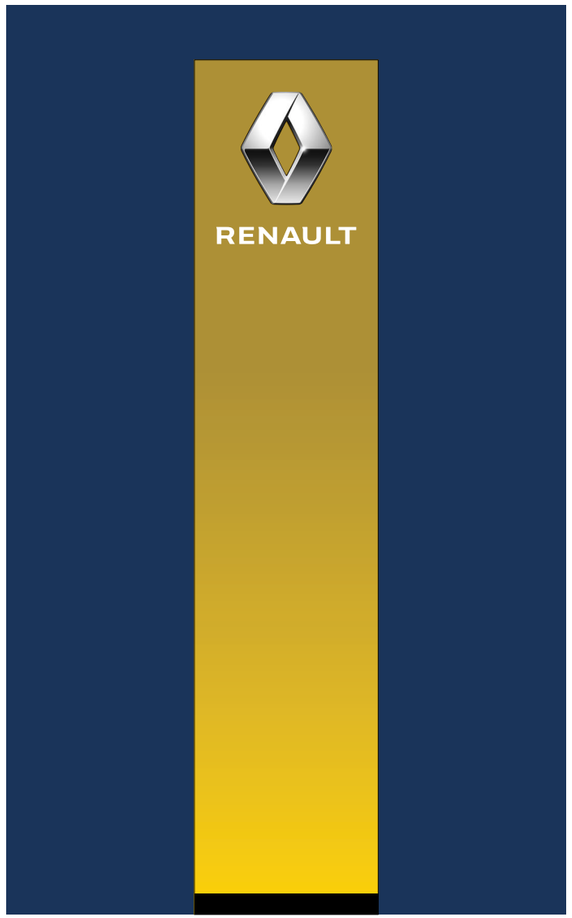
The retrofit principles used consists in removing the whole cladding parts and replacing by new ones with new decoration.

Lighting boxes in the base of totems are updated with new chain leds.

nota

According to the more and more demanding environnemental rules and to obtain a good result, it may be interesting to downsize the 13500 mm format.

3.3 lighting of retrofitted totems



1

2

principle

Lighting is integrated in the base.

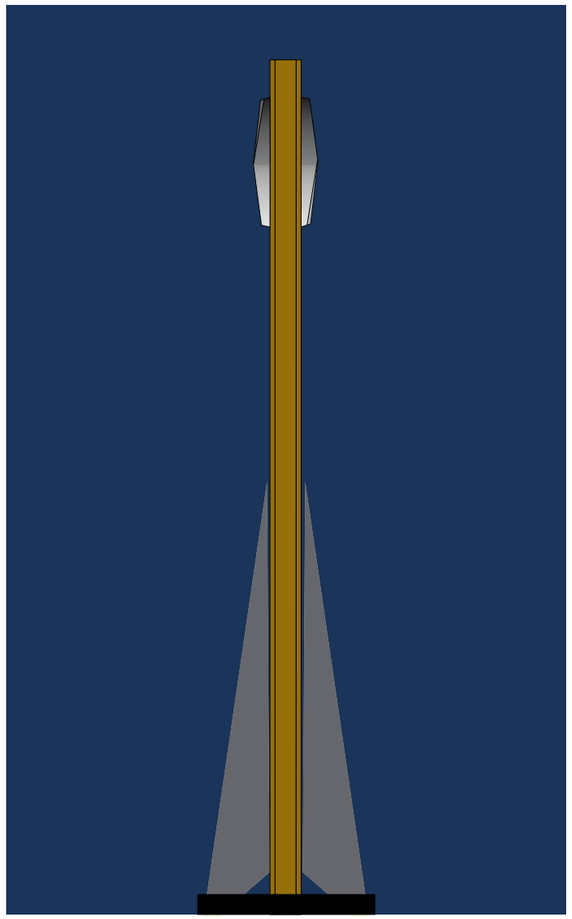
Sides made with aluminum sheeting are changed but not enlightened.

key

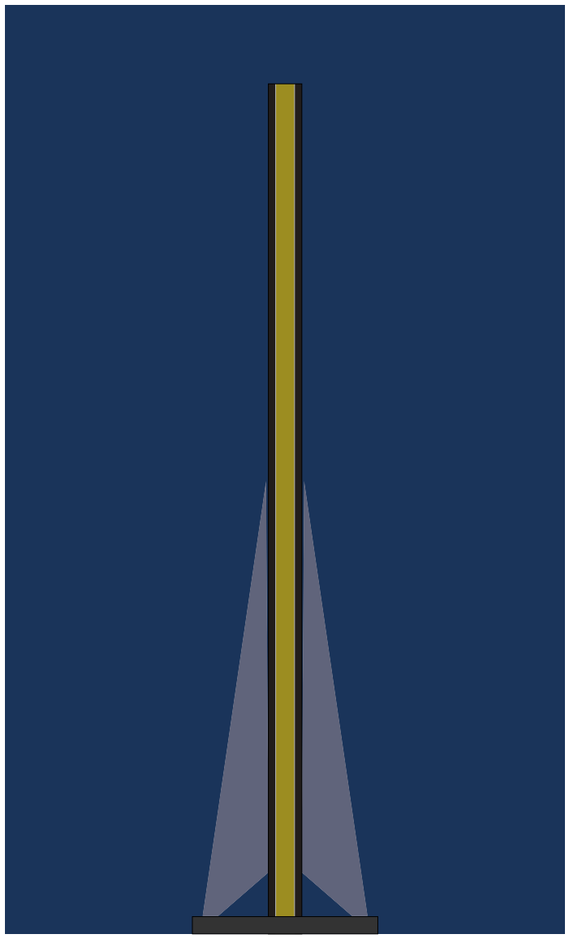
1 Before retrofit

2 After retrofit

3.4 sides of retrofitted totems



1



2

principle

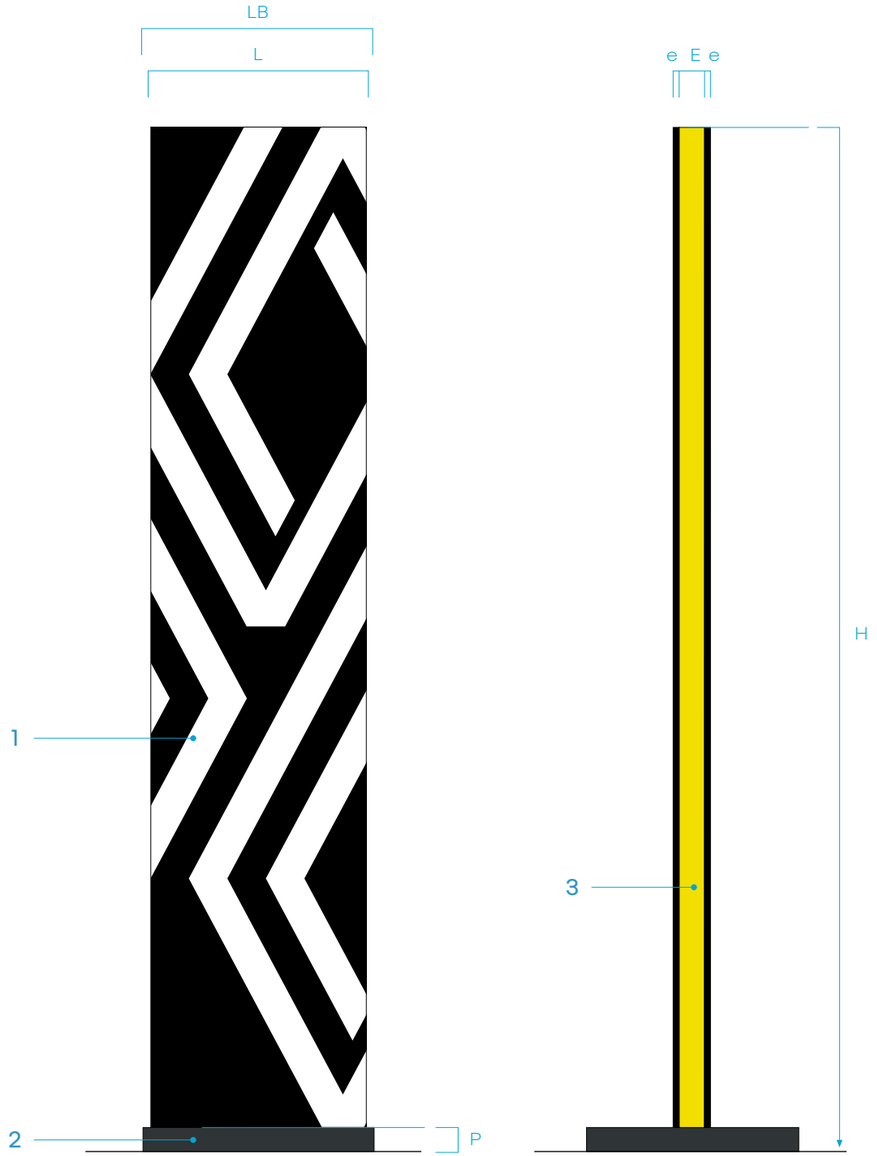
Face are enlightened from the bottom part of the totem with indirect lighting.
Sides made with aluminum sheeting are changed but not enlightened.

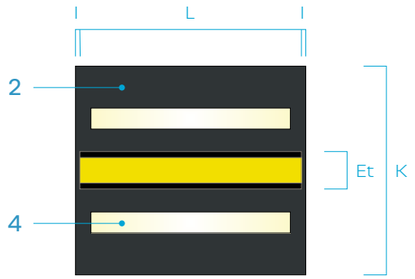
key

1 Before retrofit

2 After retrofit

3.5 description of 4,500 and 6,500 mm totems





Dim.	4500 mm totem	6500 mm totem
LB	1200	1480
Et	182	240
H	4500	6500
P	126	180
E	126	160
e	28	40
I	40	40
L	1120	1400
K	1120	1200

key

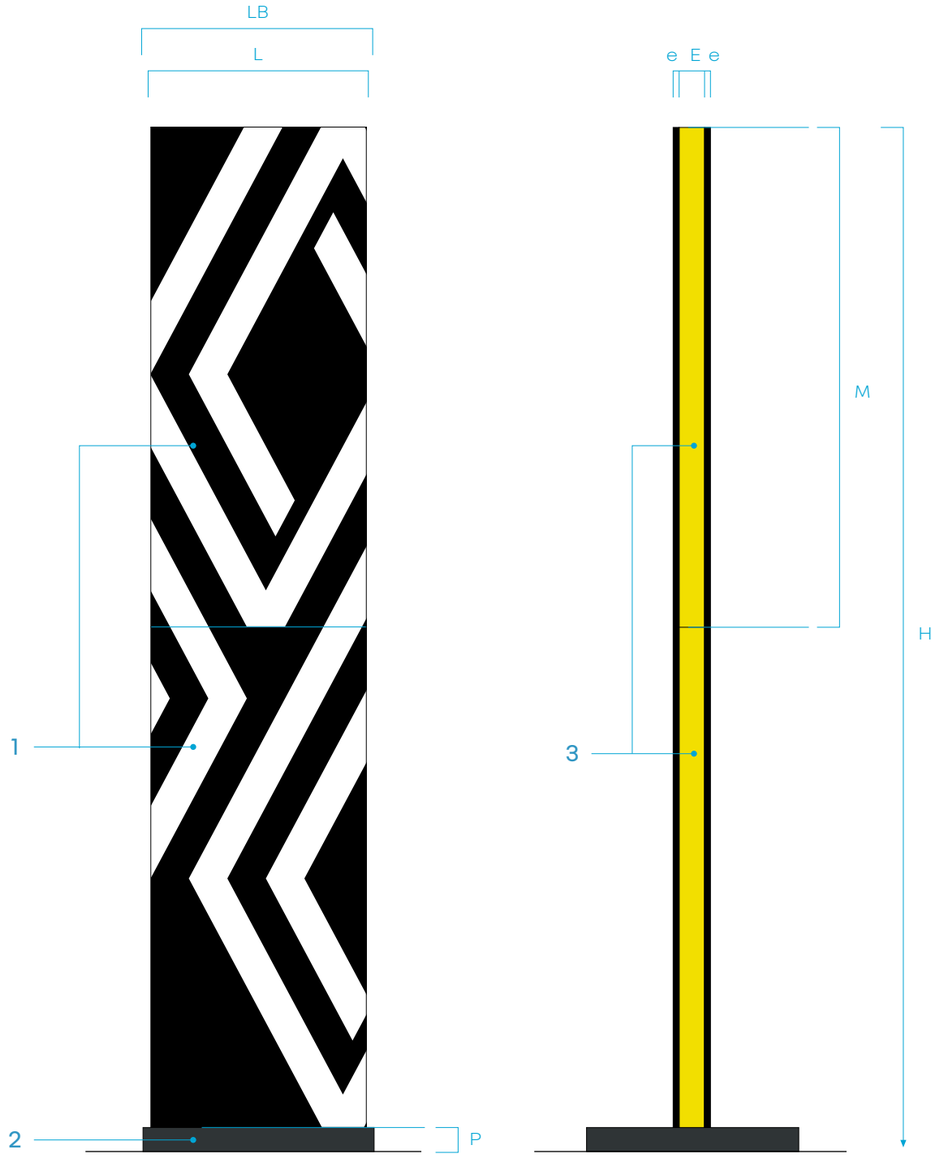
1 One-piece front panel in 4mm ACM decorated with ink-jet printed with UV protection,

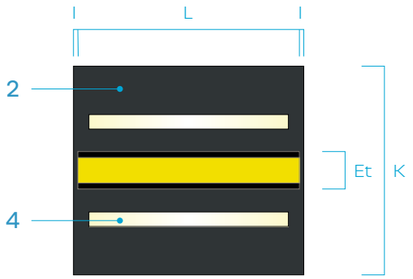
2 Base in RAL 7021 dark grey pre-lacquered aluminium, 20/10 mm thick,

3 Edge in one piece, in pre-lacquered Alucobond sheeting, 40/10 mm thick, RAL 1016 Yellow.

4 Integrated lighting in the base.

3.6 description of 9,000 mm totem





Dim.	9000 mm totem
LB	1950
H	9070
P	280
E	200
e	50
Et	300
L	1850
l	50
K	1500
M	4395

key

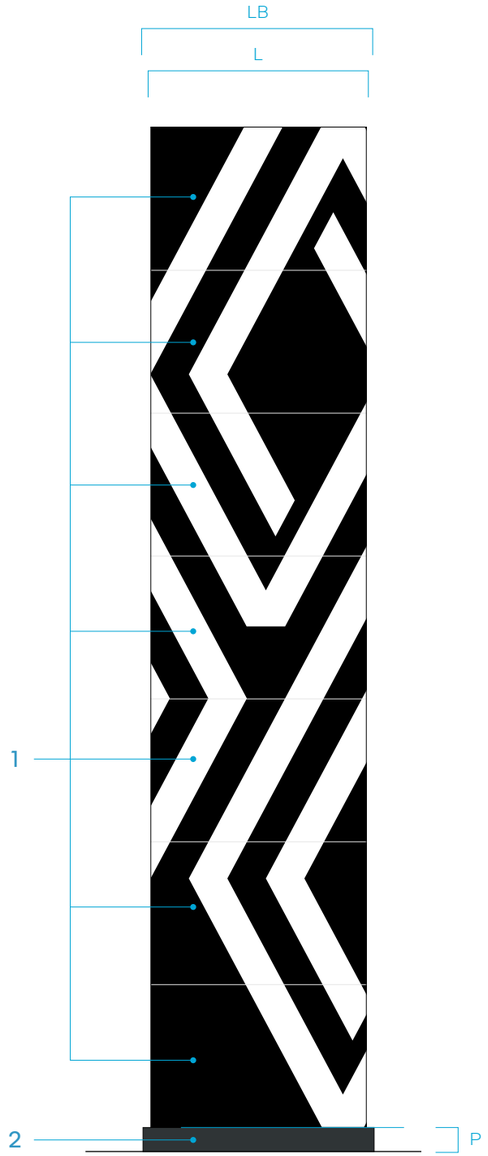
1 Front divided into 2 ACM panels decorated with ink-jet printed with UV protection,

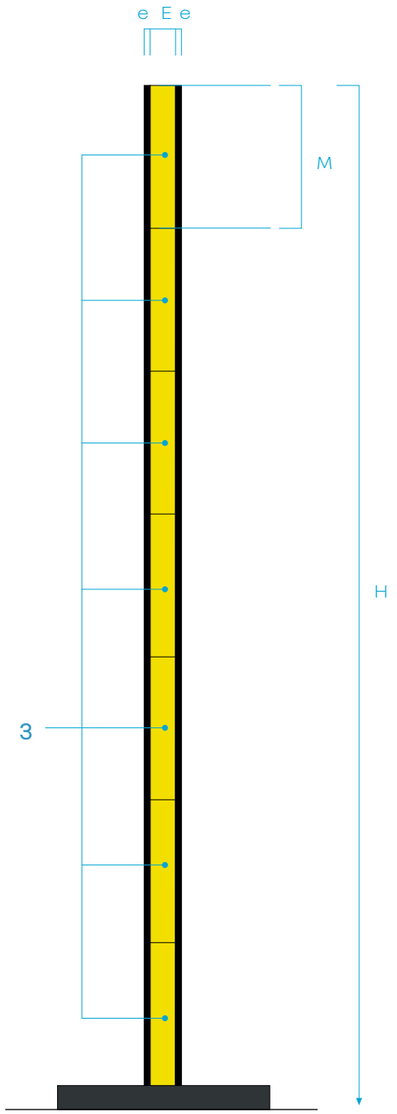
2 Base in RAL 7021 dark grey pre-lacquered aluminium, 20/10 mm thick,

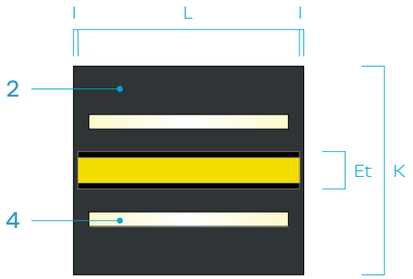
3 Edge in one piece, in pre-lacquered Alucobond sheeting, 40/10 mm thick, RAL 1016 Yellow.

4 Integrated lighting in the base.

3.7 description of 13,500 mm totem







Dim.	13500 mm totem
LB	2925
H	13600
P	400
E	300
e	75
Et	450
L	2825
l	50
K	3000
M	1885

key

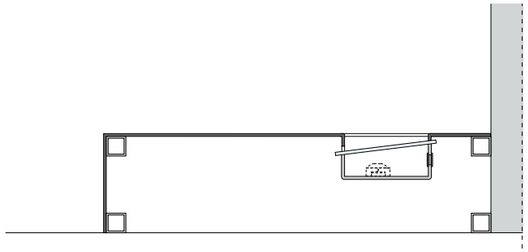
1 Front divided into 7 ACM panels decorated with ink-jet printed with UV protection,

2 Base in RAL 7021 dark grey pre-lacquered aluminium, 20/10 mm thick,

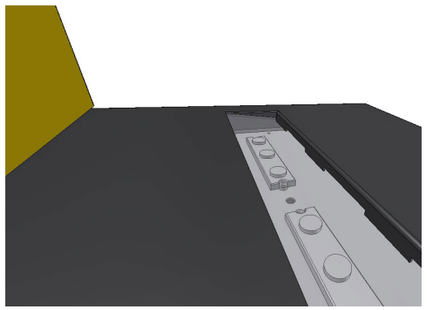
3 Edge in one piece, in pre-lacquered Alucobond sheeting, 40/10 mm thick, RAL 1016 Yellow.

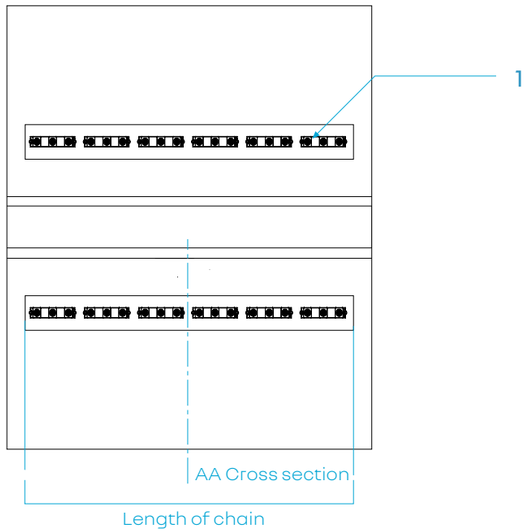
4 Integrated lighting in the base.

3.8 implementation of lighting



AA Cross section





principle

This recommendation is made on the basis of moduled with asymmetric optics: 10-40° and 550 lm per module.

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

description

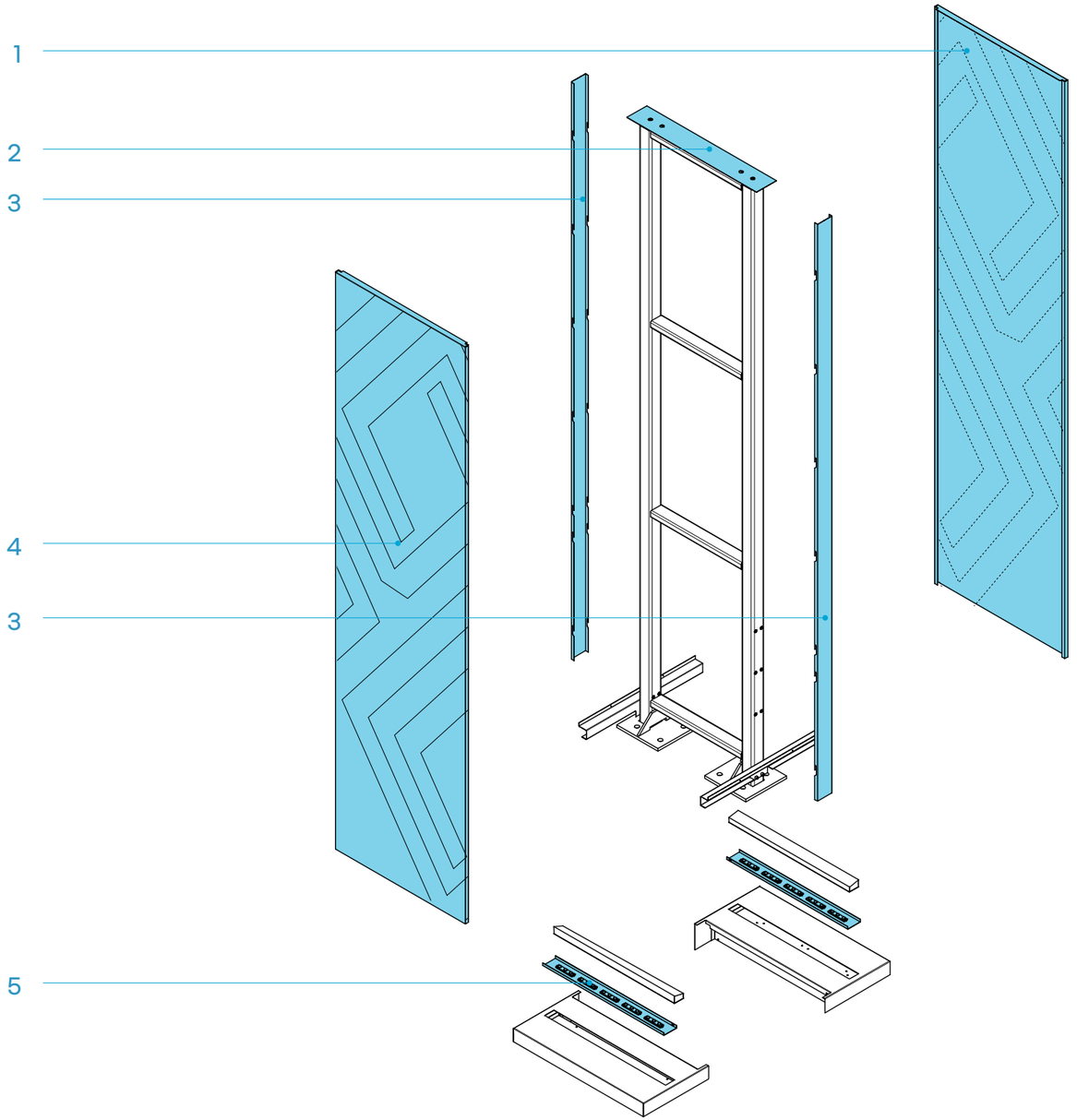
- Temperature: 6,500° K Cool White.
- Supply: 220 volts
- Converter: 12 volts, constant current
- Protection index: IP 67

Characteristics (per face)	4500 totem	6500 totem	9000 totem	13500 totem
Number of modules	6	7	11	16
Energy consumption	36 w	42 w	66 w	96 w
Luminous flux	3300 lm	4200 lm	6600 lm	9600 lm
Converter	35 vA	50 vA	100 vA	100 vA
Length of chain	1020 mm	1300 mm	1900 mm	2900 mm

key

1 LED modules

3.9 schematic exploded view of retrofitted totems



key

1 Rear panel made ACM sheet decorated with ink-printer

2 Cover in pre-lacquered aluminium sheeting, RAL 1016 Yellow

3 Edge in pre-lacquered aluminium sheeting, RAL 1016 Yellow

4 Front panel made ACM sheet decorated with ink-printer

5 Waterproof chain-LEDs lighting the faces

3.10 lighting performances

Lighting equipment

LEDIT ModulBox A8 Pro 600 WDL with 10/40° optics:

- 4500 totem : 6 modules per face
- 6500 totem : 7 modules per face
- 9000 totem : 11 modules per face
- 13500 totem : 16 modules per face

Expected performance levels

Supply: 220 volts.

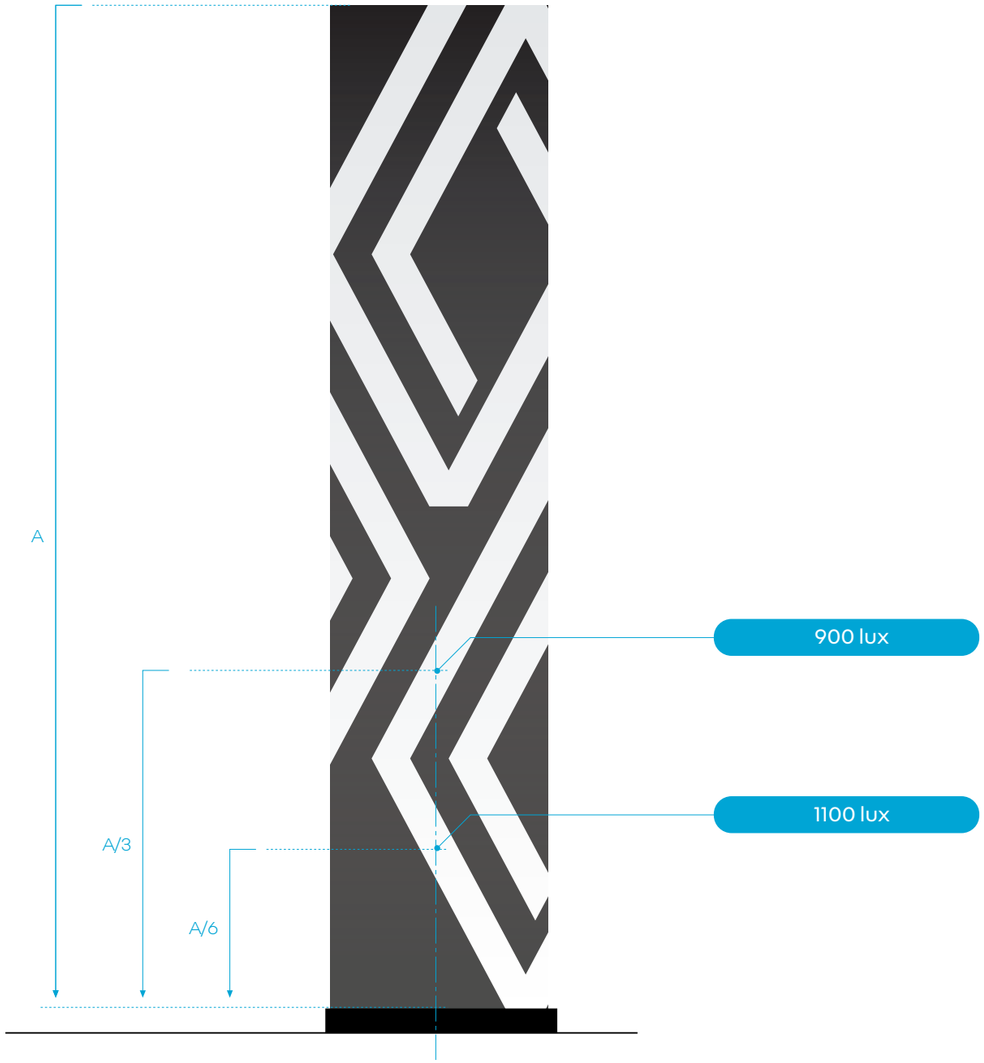
12 volt converter with regulated voltage, IP 68 protection.

Temperature colour : WDL 6,500 °K

Measurement points are defined for characterizing the shading effect on the white parts of the face of totems.

The illuminance measurements on these opaque surfaces are:

- at a height A/6: approx. 1,100 lux,
- at a height A/3: approx. 900 lux.



4

totem with stretched canvas faces for new installations

4.1 presentation

description

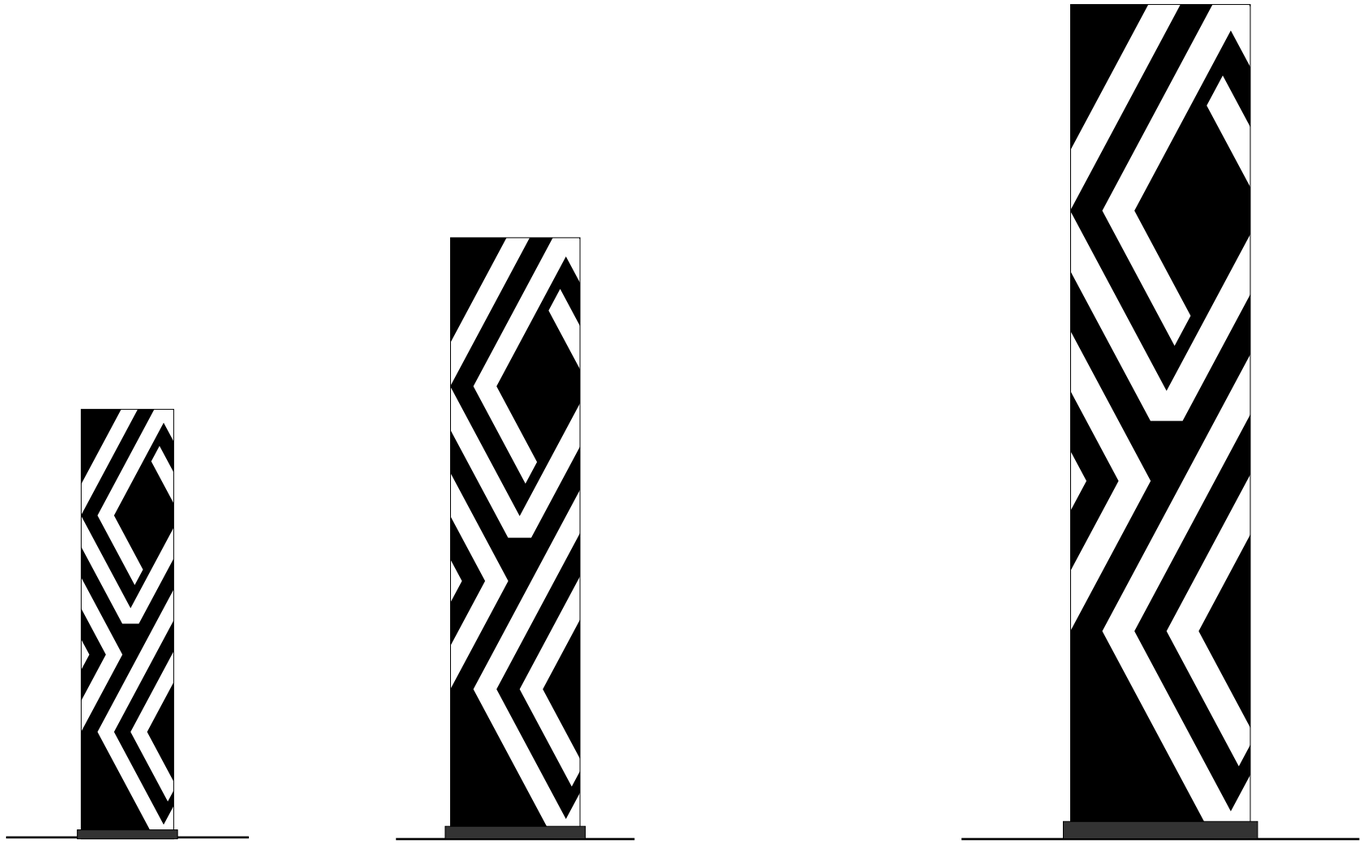
Renault sites are identified by a totem or, failing that, by a flag insignia.

These elements are essential contributors to brand recognition present in the dealer networks.

Totem is the primary visual element identitying the Renault brand when approaching the dealership.

1 Totem

4.2 family of elements



4500 totem

6500 totem

9000 totem

series manufactured items

individually manufactured item

principle

Three heights of totem make up this family.

The 4,500 and 6,500 mm totems are the ones most commonly used: they are industrially produced which means that their cost can be optimized.

One other height is offered to respond for particular situations: 9,000 mm.

4.3 lighting of totems

principle

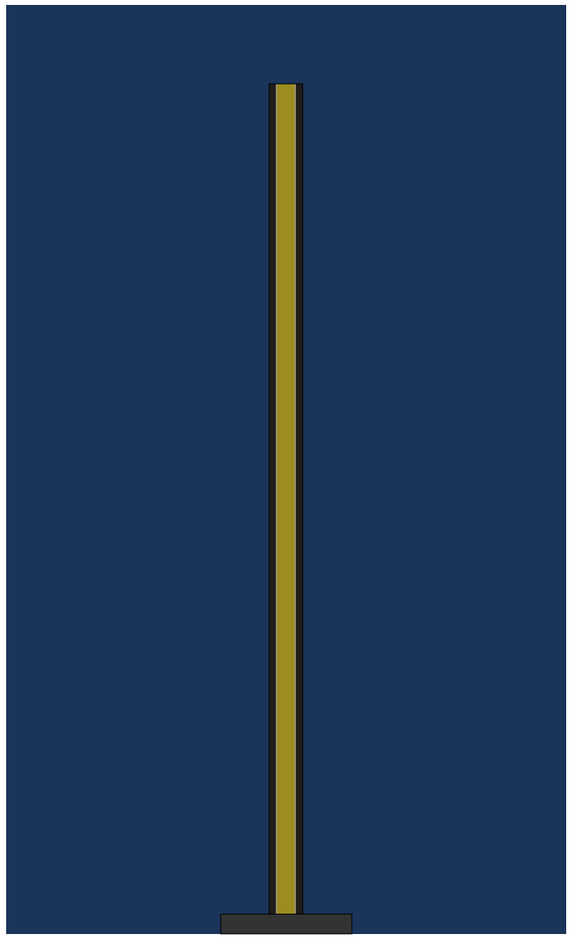
The whole face is backlit. Sides are made with aluminum sheeting.

optimized structure of totems

The traditional structures (such as the existing totems) are not recommended as the poles can create shadows and spotlights on the illuminated face.

It is necessary to develop a specific approach using aluminium profiles to strech the fabric combine with a trapezoidal central structure.

Each provider will have to develop and propose an industrial solution according to its skills, habbits and tooling.



1

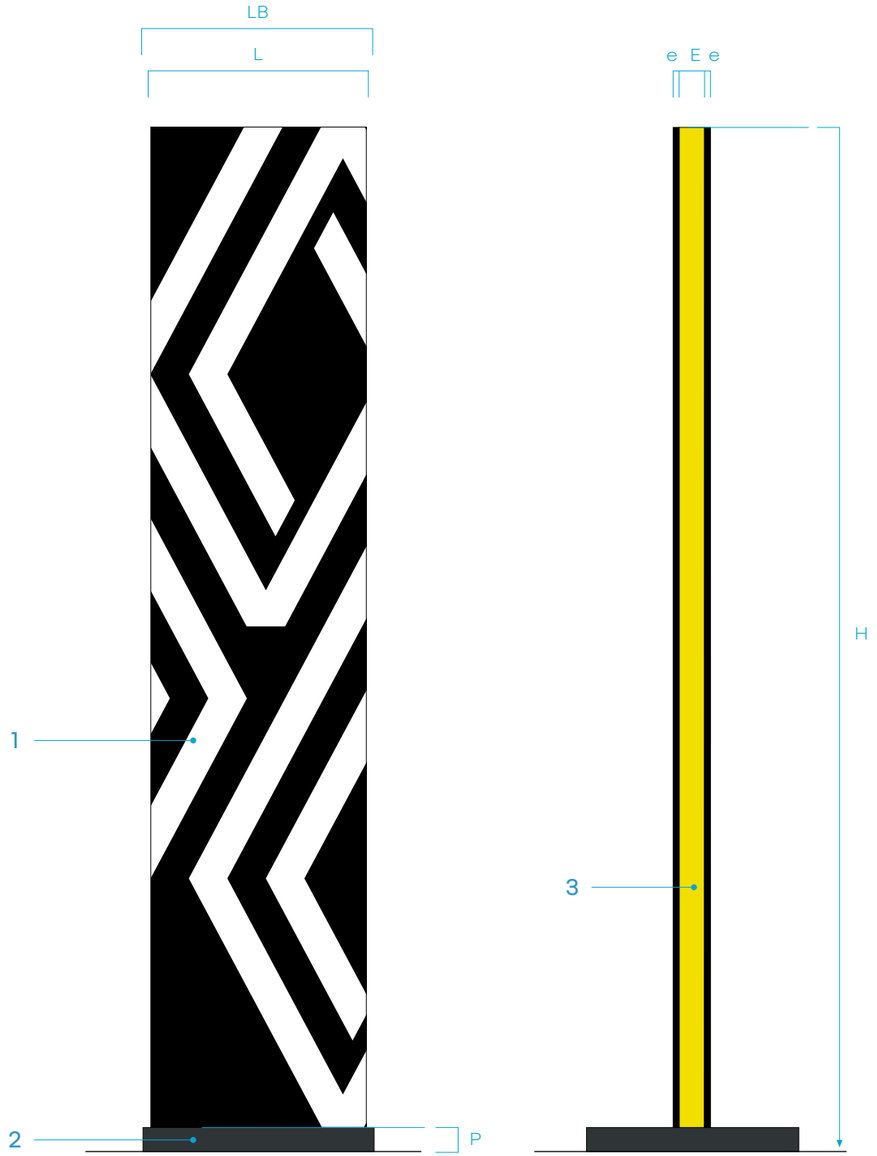
2

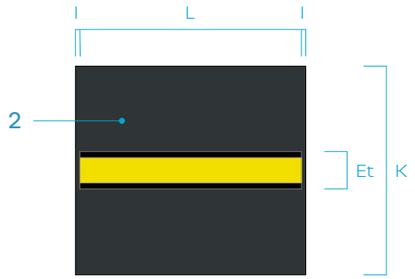
key

1 Side view

2 Front view

4.4 description of 4,500 and 6,500 mm totems





Dim.	4500 mm totem	6500 mm totem
LB	1200	1480
Et	182	240
H	4500	6500
P	126	180
E	126	160
e	28	40
I	40	40
L	1120	1400
K	1120	1200

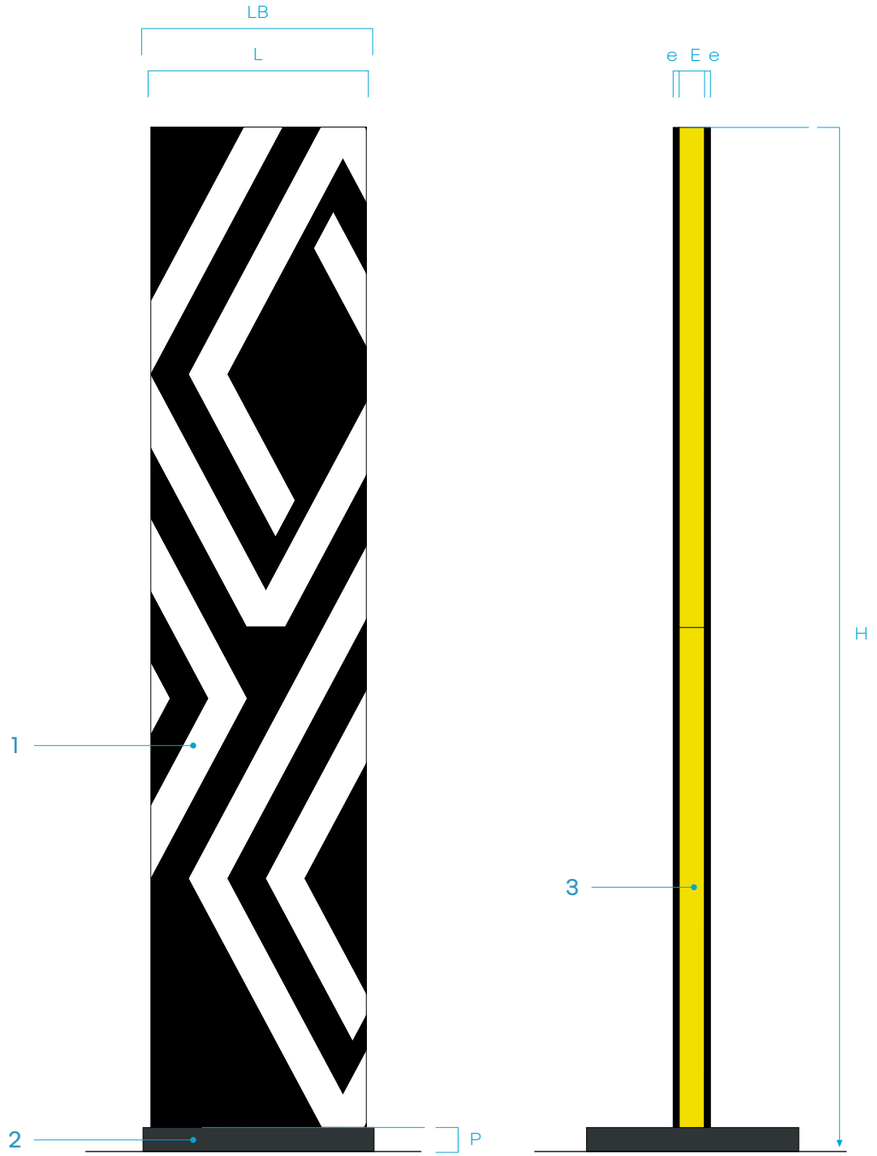
key

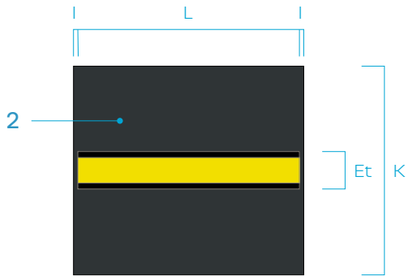
1 One-piece front panel in PVC fabric decorated with ink-jet printed with UV protection,

2 Base in RAL 7021 dark grey pre-lacquered aluminium, 20/10 mm thick,

3 Edge in one piece, in pre-lacquered Alucobond sheeting, 40/10 mm thick, RAL 1016 Yellow.

4.5 description of 9,000 mm totem





Dim.	9000 mm totem
LB	1950
H	9070
P	280
E	200
e	50
Et	300
L	1850
l	50
K	1500

key

1 One-piece front panel in PVC fabric decorated with ink-jet printed with UV protection,

2 Base in RAL 7021 dark grey pre-lacquered aluminium, 20/10 mm thick,

3 Edge in one piece, in pre-lacquered Alucobond sheeting, 40/10 mm thick, RAL 1016 Yellow.

4.6 anchoring principle

principle

The recommended installation is on concrete block flush with ground surface to facilitate maintenance operations in case of damage to the totem.

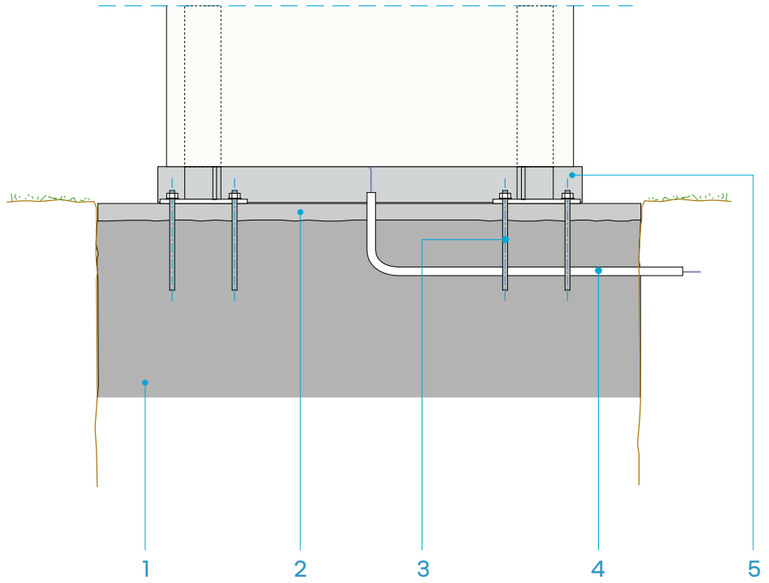
An attachment plate concealer is used to finish the anchor points on the concrete block.

Approximate weight of totems:

- 4,500 mm totem: 350 kg.

- 6,500 mm totem: 625 kg.

The anchoring system and the weight of the 9,000 totem is to be specified by the manufacturers according to the concepts developed.



key

1 Concrete block

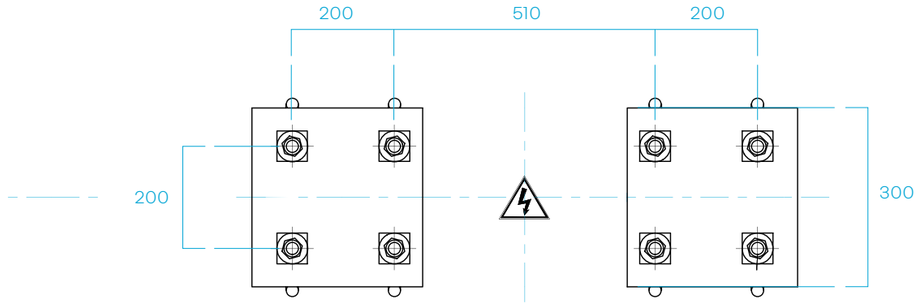
2 Concrete screed

3 Anchoring system

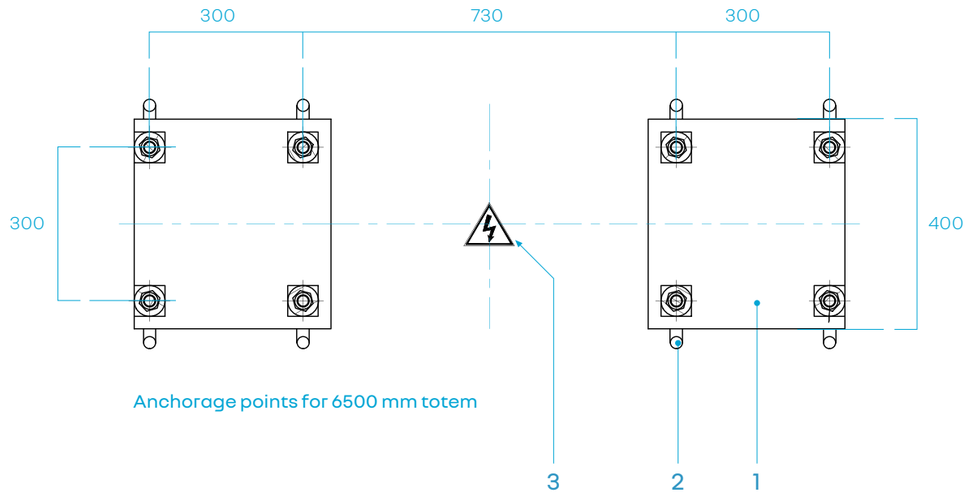
4 Power supply in

5 Attachment plate concealer

4.7 anchorage points for totems



Anchorage points for 4500 mm totem



Anchorage points for 6500 mm totem

ground attachment system

The totems are anchored to the ground via two plates fitted with 8 anchoring rods (M24 x 420).

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

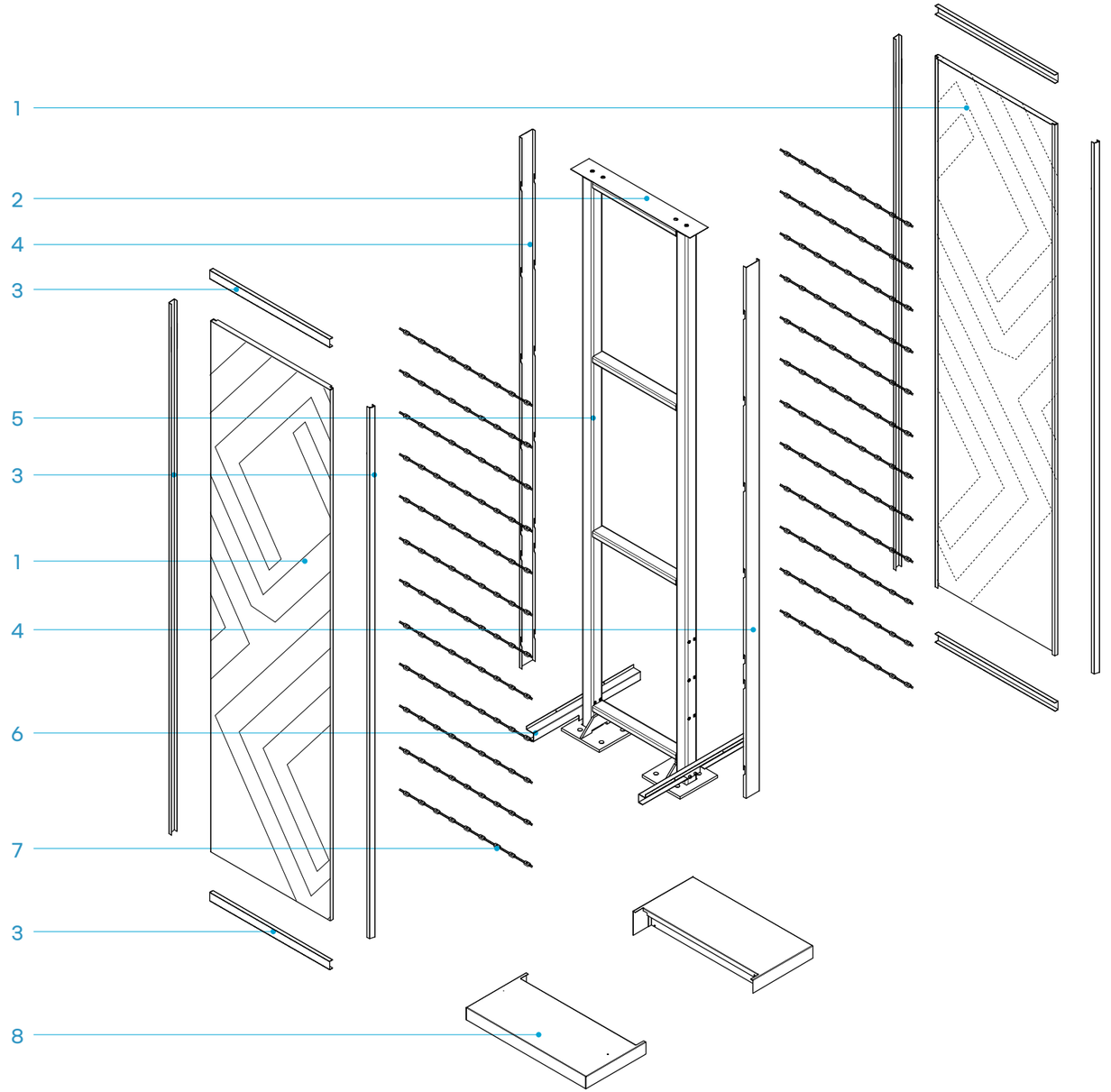
key

1 Galvanized steel attachment plate

2 M24 x 420 anchoring rods

3 Power supply inlet

4.8 schematic exploded view



key

1 Front panel made of stretched fabric (textile finish on surface over PVC reinforced frame) decorated with ink-printer on aluminum profiles

2 Cover in pre-lacquered aluminium sheeting, RAL 1016 Yellow

3 Edging in pre-lacquered aluminium sheet, RAL 9005 black

4 Edge in pre-lacquered aluminium sheeting, RAL 1016 Yellow

5 Structure in galvanized steel including plates and reinforcing gussets

6 Unfinished aluminium angle bracket for attachment of concealer

7 Waterproof chain-LEDs lighting the faces

8 Base in RAL 7021 dark grey pre-lacquered aluminium sheeting 20/10 mm thick, secured laterally with stainless steel fixing elements

4.9 lighting principles

principles

It could be possible to explore 2 concepts for lighting depending of the complexity of the structure and the possibility of implementation of modules.

Tangential concept

40 modules

LEDIT ModulBox Linear 700 WDL

Surface: 9.1 m^2

Power: 288 watts

330 mm center distance

Backlit concept

Double sided on central reflector

2 x 191 modules

LEDIT Optika 70 HL2 OW

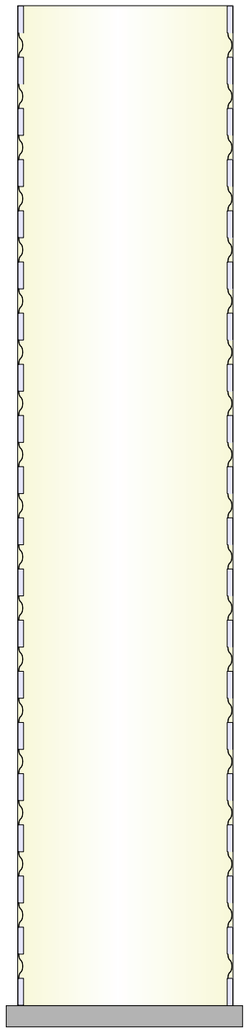
Surface: 3,788 m^2

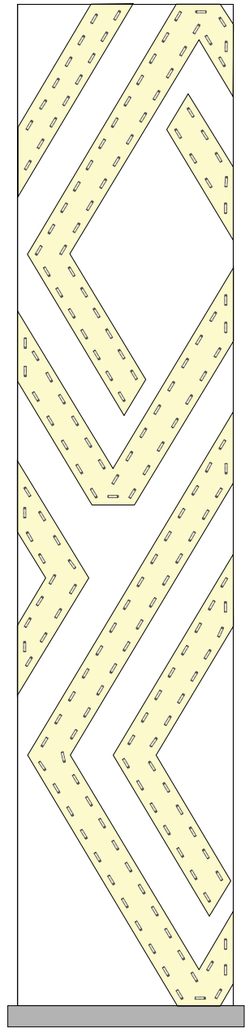
Power: 252 watts

180 mm center distance

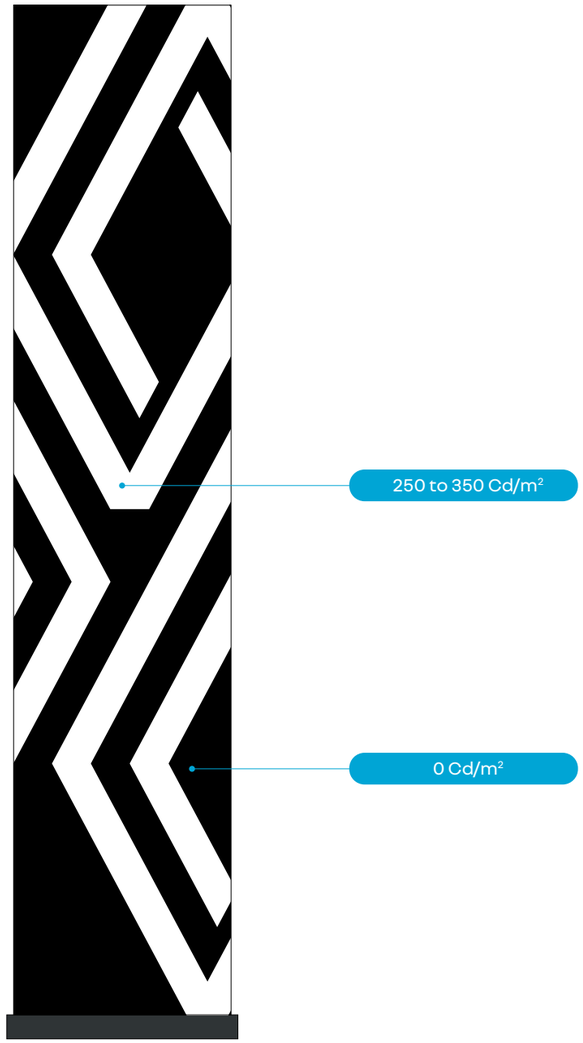
Between line: 100 mm

Distance from edge: 50 mm





4.10 lighting performances



Monitoring the lighting

It is requested to integrate an automatic system of variation and management of the light power according to the ambient light.

This system must include a photosensitive cell and possibilities for adjusting the minimum and maximum power levels.

Required performance levels

Supply: 220 volts.

12 volt converter with regulated voltage, IP 68 protection.

- White parts: 250 to 350 Cd/m²
- Black parts: must be absolutely opaque.

5

totems with black ACM faces by exception

5.1 presentation

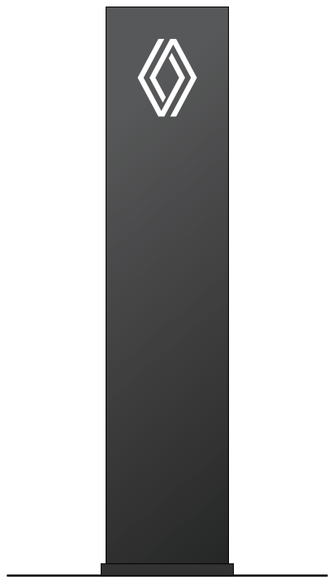
principle of adaptation

Administrative constraints linked to approvals for using signs in listed orprotected town locations may require an adaptation of the brand image.

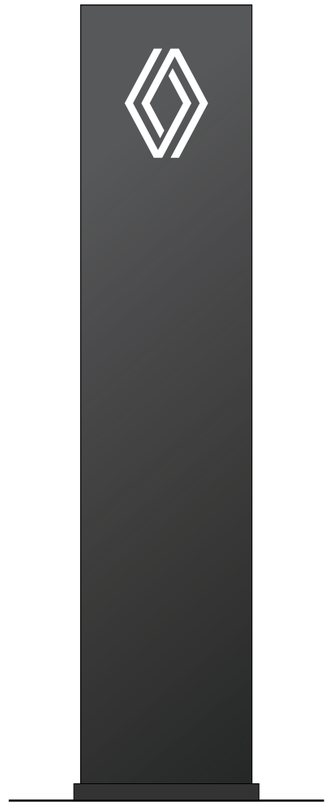
Hence the faces of totems become black in such protected sites with a white diamond.

1 Totem for protected sites

5.2 family of elements



4500 totem



6500 totem

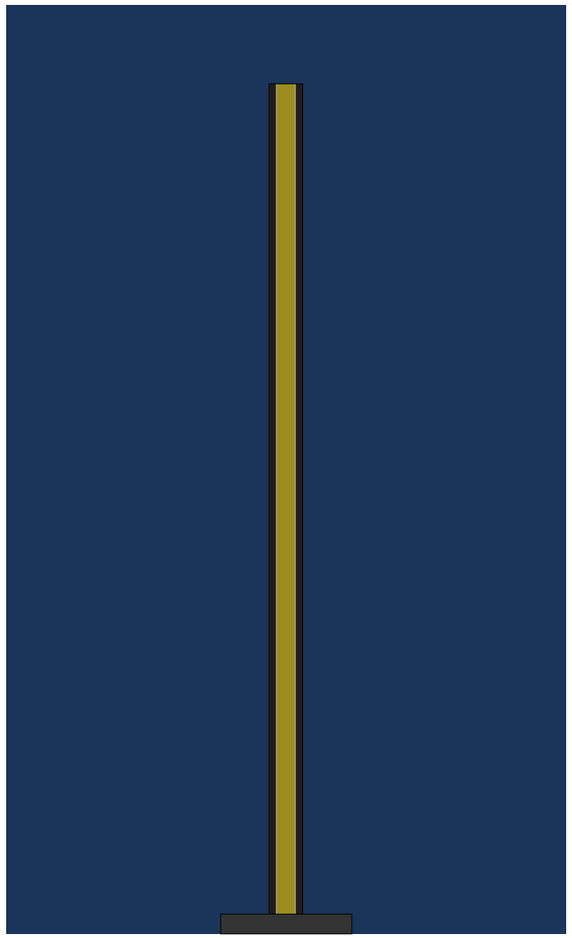
principle

Only 2 sizes is required for this purpose.

Faces are made with Black ACM sheets according the same manufacturing principles as for existing yellow totems.

There is no lighting in the base because of new environmental standards.

5.3 lighting of totems



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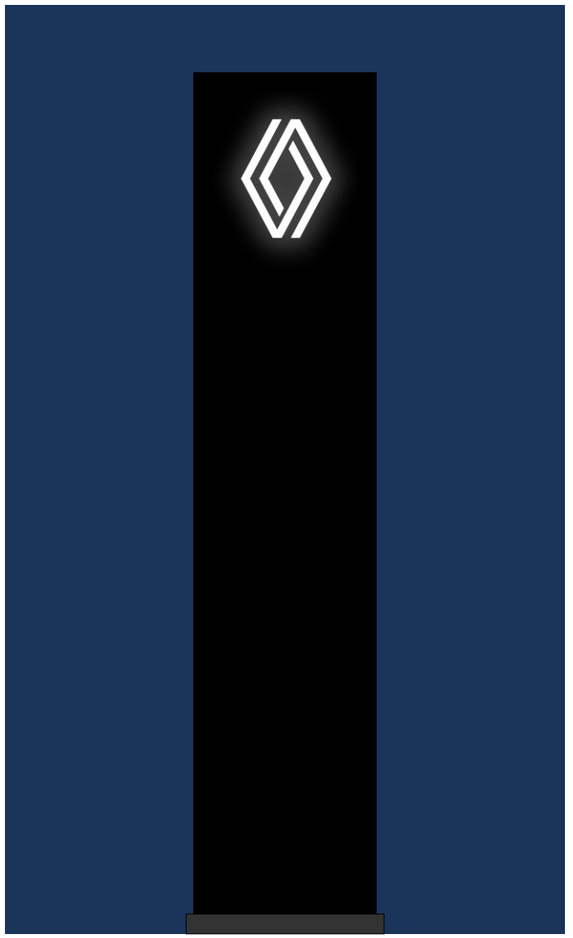


2

principle

Emblems are luminous and backlit.

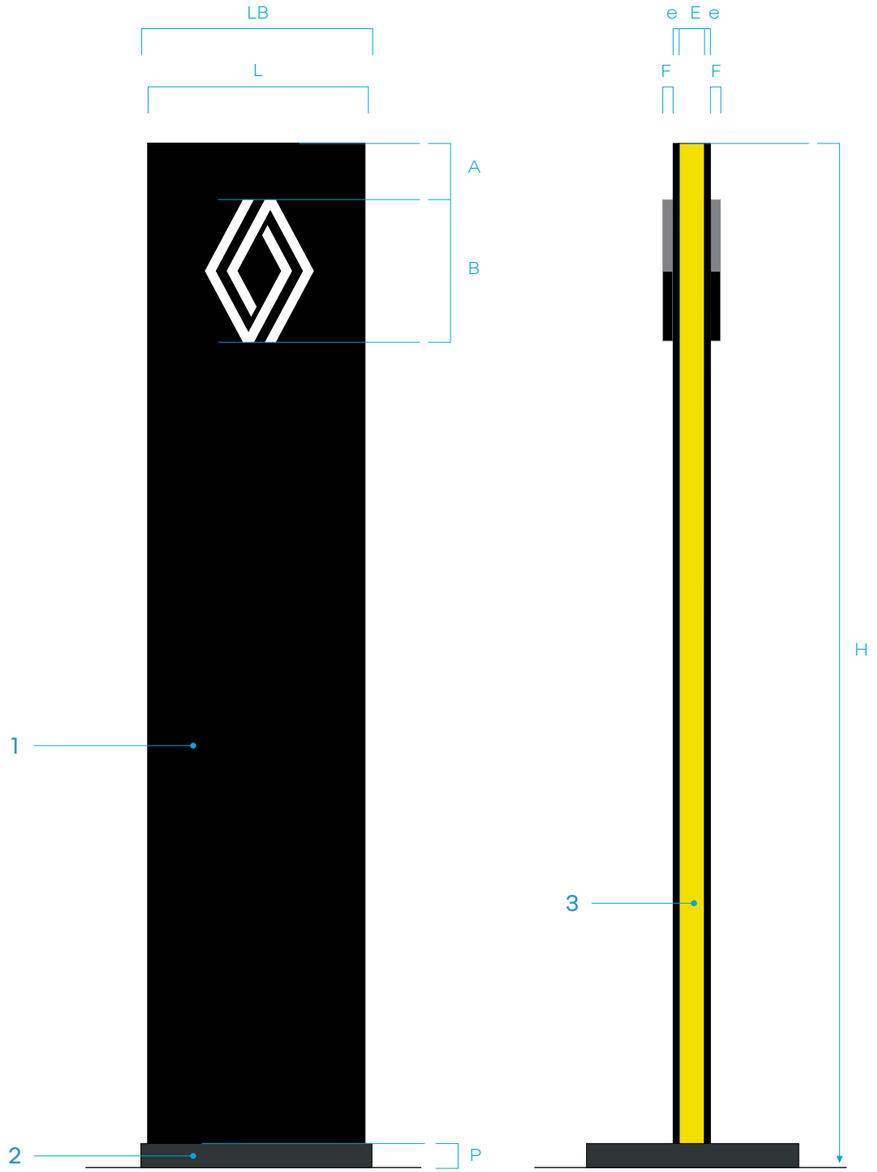
Sides made with aluminum or ACM sheeting are not enlightened.

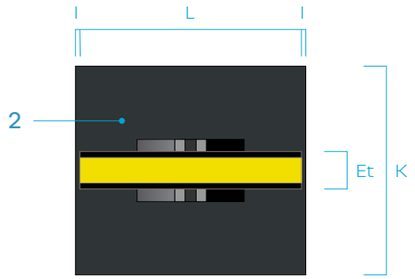
key

1 Side view

2 Front view

5.4 description of 4,500 and 6,500 mm totems





Dim.	4500 mm totem	6500 mm totem
LB	1200	1480
Et	182	240
H	4500	6500
P	126	180
E	126	160
e	28	40
I	40	40
L	1120	1400
K	1120	1200
A	265	380
B	696	892
F	70	70

key

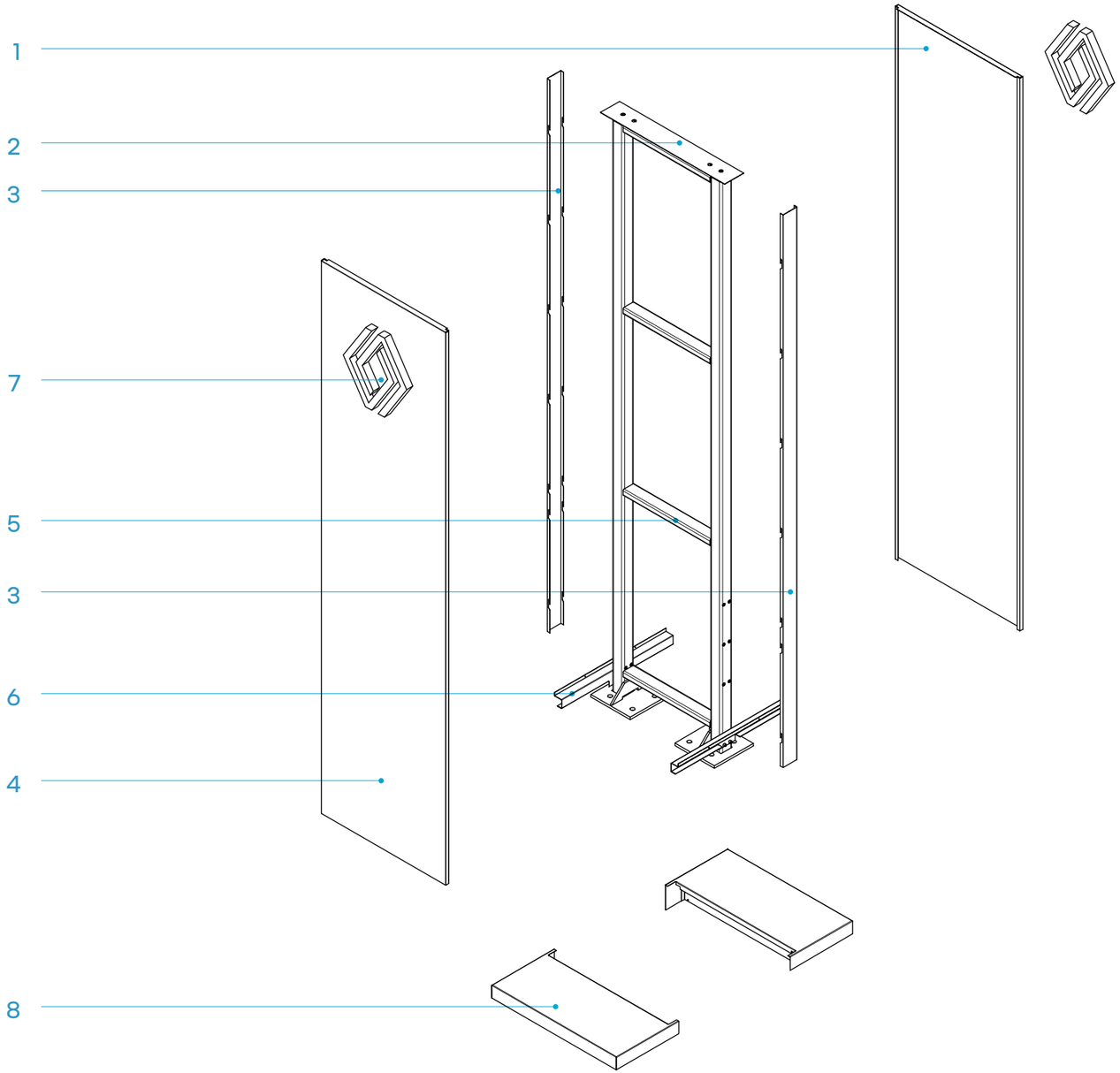
1 One-piece front panel in PVC fabric decorated with ink-jet printed with UV protection,

2 Base in RAL 7021 dark grey pre-lacquered aluminium, 20/10 mm thick,

3 Edge in one piece, in pre-lacquered Alucobond sheeting, 40/10 mm thick, RAL 1016 Yellow.

4 Diamond with face in white diffusing PMMA, black PMMA or aluminium sheet opaque edges, PVC bottom with LED equipment

5.6 schematic exploded view



key

1 Rear panel made with Black ACM sheet

2 Cover in pre-lacquered aluminium sheeting, RAL 1016 Yellow

3 Edge in pre-lacquered aluminium sheeting, RAL 1016 Yellow

4 Front panel made with ACM sheet

5 Structure in galvanized steel including plates and reinforcing gussets

6 Unfinished aluminium angle bracket for attachment of concealer

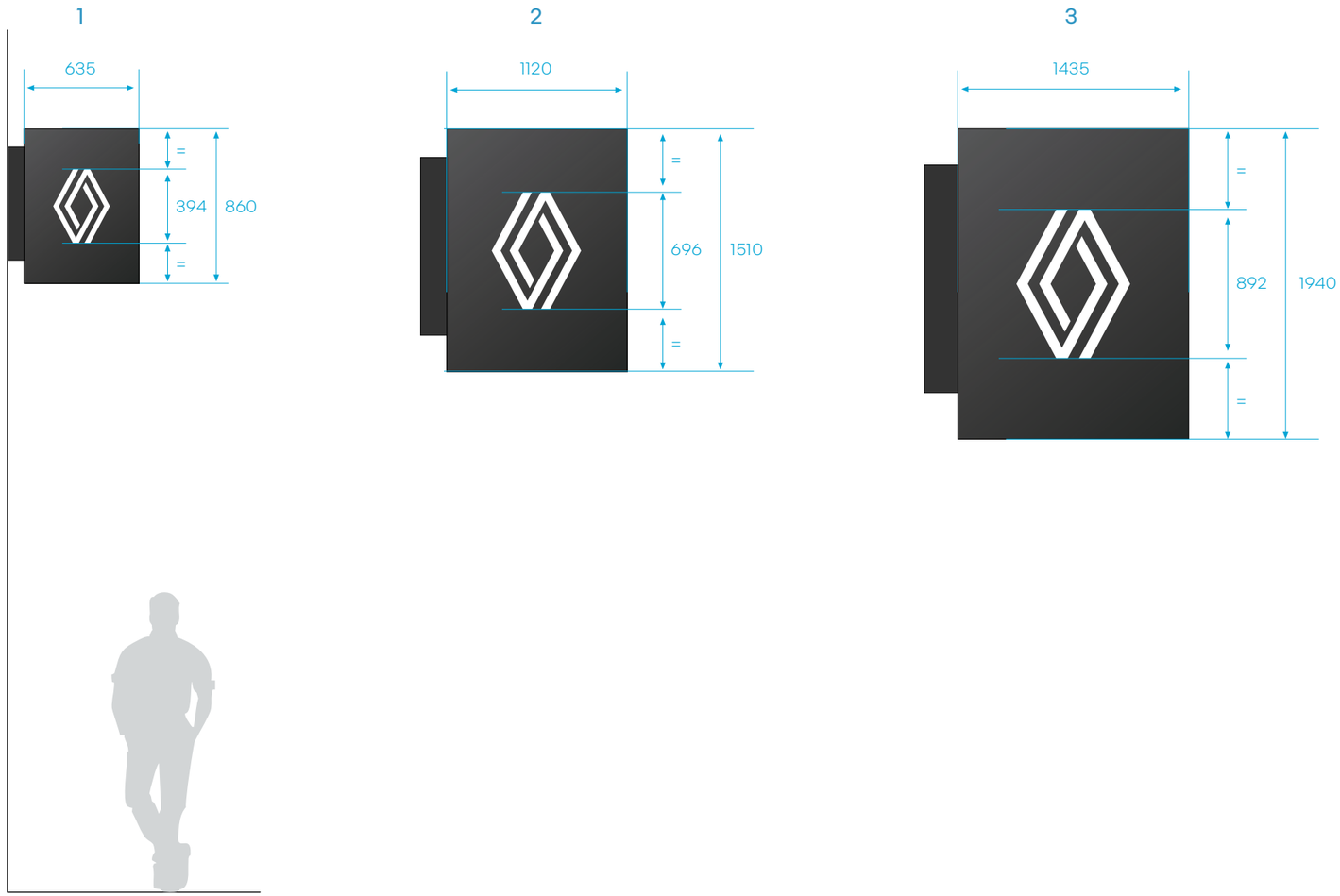
7 Diamond with LED equipment

8 Base in RAL 7021 dark grey pre-lacquered aluminium sheeting 20/10 mm thick, secured laterally with stainless steel fixing elements

6

flag insignia

6.1 family of elements



principle of adaptation

Three sizes of flag insignia are proposed to cover the different situations encountered in networks.

The small 635 mm-wide flag insignia shall be reserved for urban locations where regulatory constraints impose a maximum overhand limit.

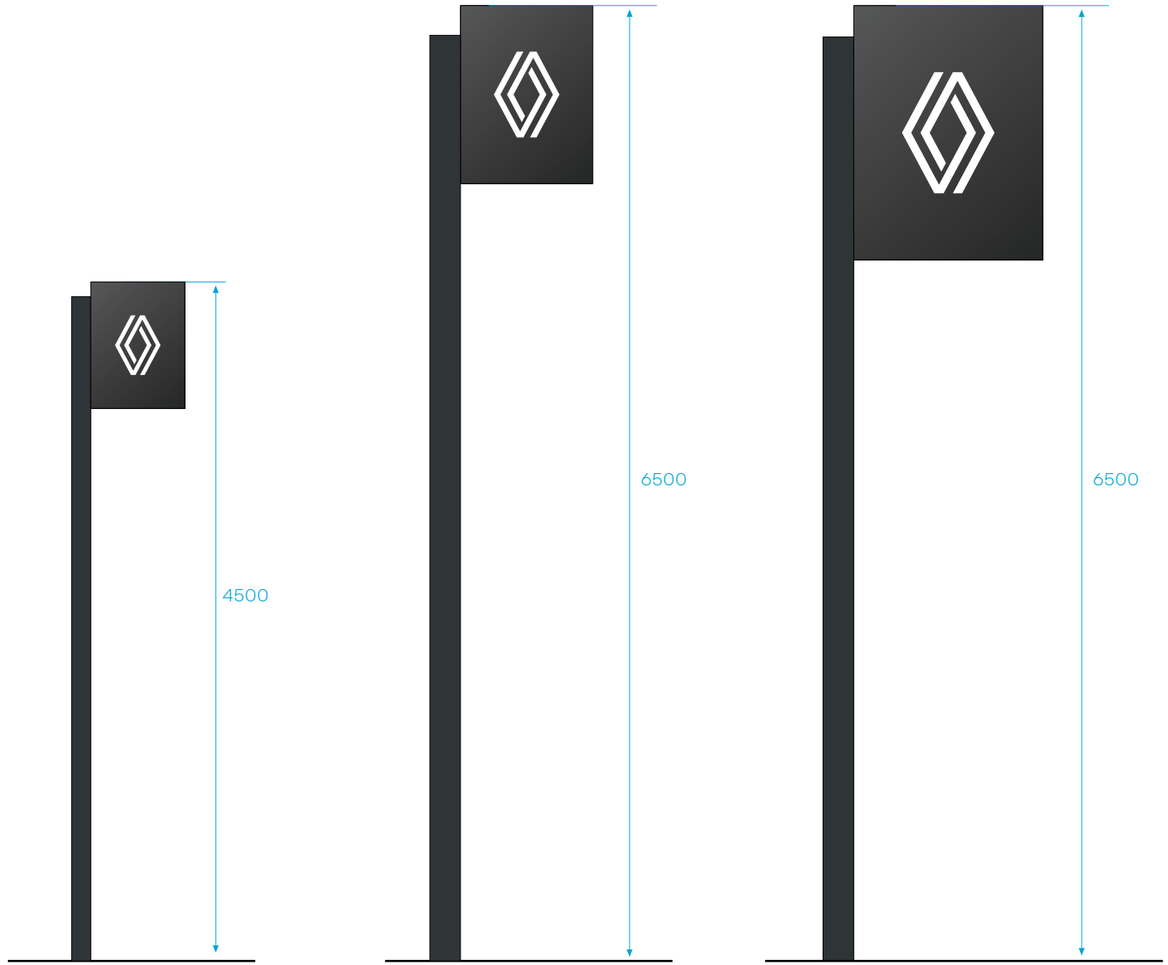
Existing flag insignia can be retroffited.

1 700 mm flag insignia

2 1,100 mm flag insignia

3 1,400 mm flag insignia

6.2 installation of flag insignia on masts



700 flag insignia

1100 flag insignia

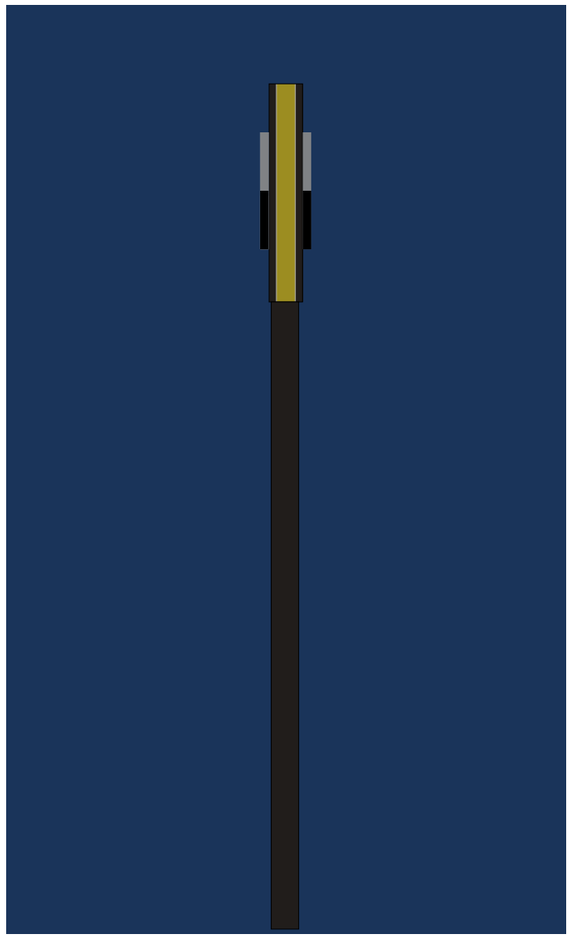
1400 flag insignia

principle of adaptation

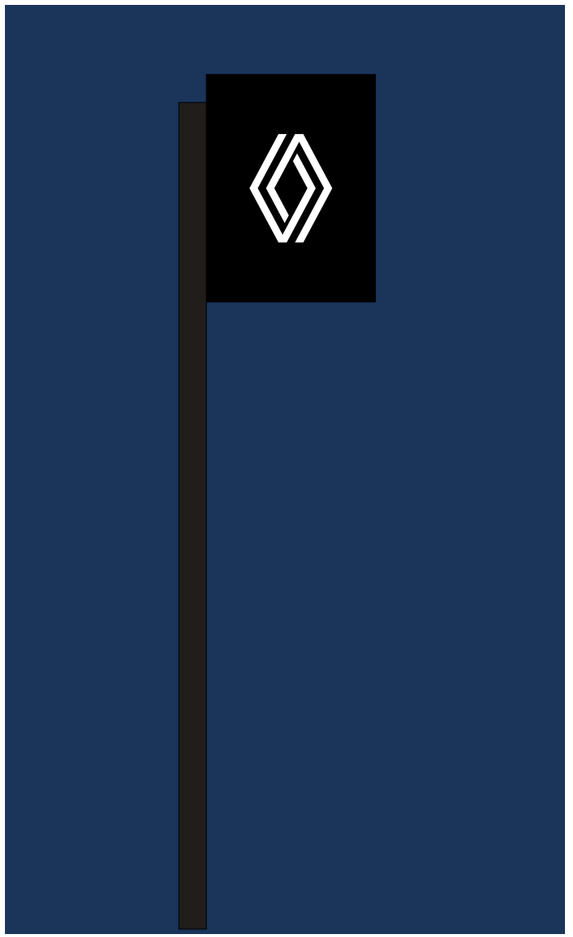
The three flag insignia can be mounted on masts:

- 4,500 mm masts for the small format 700 mm flag insignia
- 6,500 mm masts for 1,100 et 1,400 mm flag insignia.

6.3 lighting



1



2

principle

Emblems are luminous and backlit.

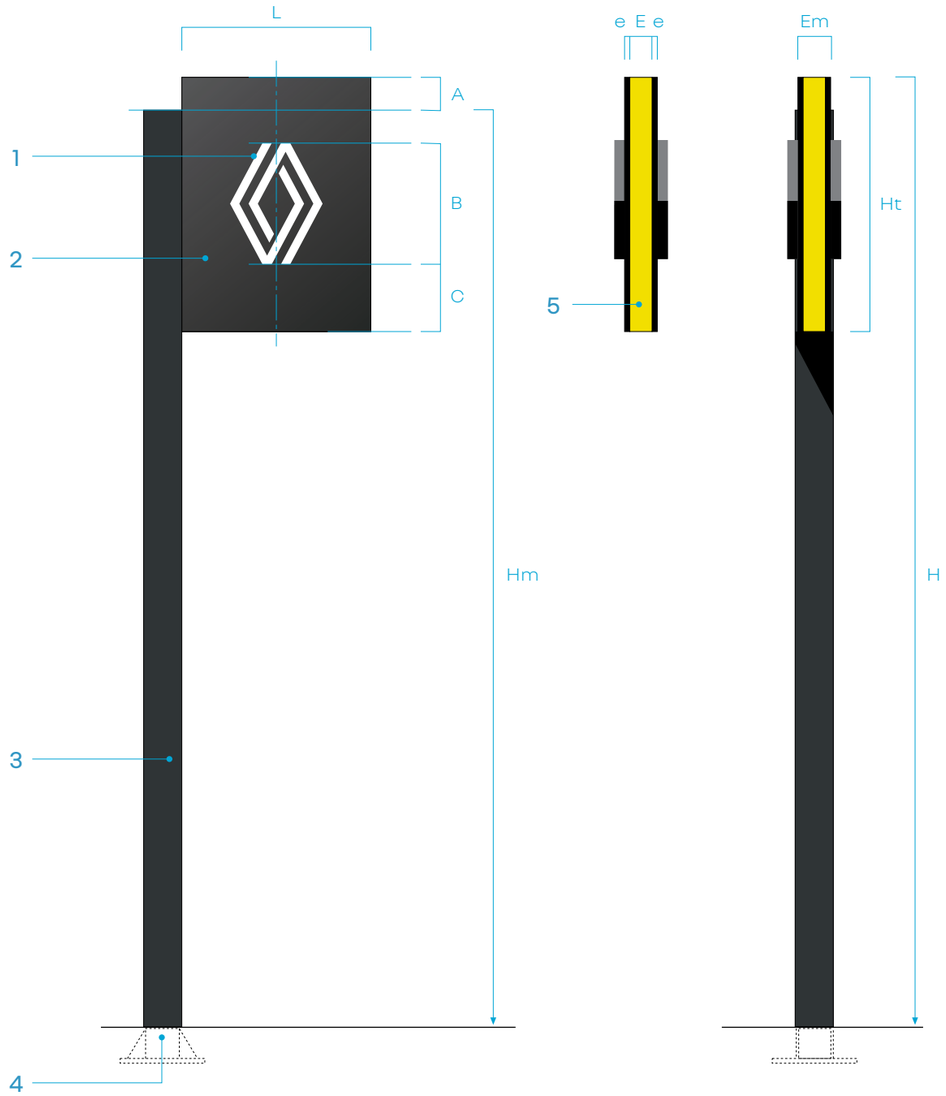
Sides made with aluminum or ACM sheeting are not enlightened.

key

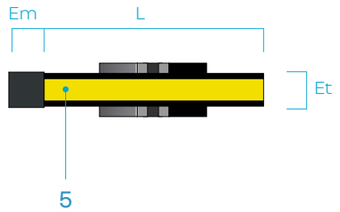
1 Side view

2 Front view

6.4 description of flag insignia



Dim.	700 mm insignia	1100 mm insignia	1400 mm insignia
L	635	1120	1435
A	108	190	238
B	394	696	892
C	233	407	524
Ht	860	1510	1940
H	4500	6500	6500
E	45	90	110
e	20	25	30
Et	85	140	170
Em	120	200	200
Hm	4392	6310	6362



key

1 Emblem with face in diffusing white PMMA, black opaque edges, PVC bottom with LED equipment

2 Front panel in pre-lacquered aluminium sheeting, 20/10 mm thick, RAL 9005 black

3 Galvanized steel mast, post-lacquered with dark grey RAL 7021 paint

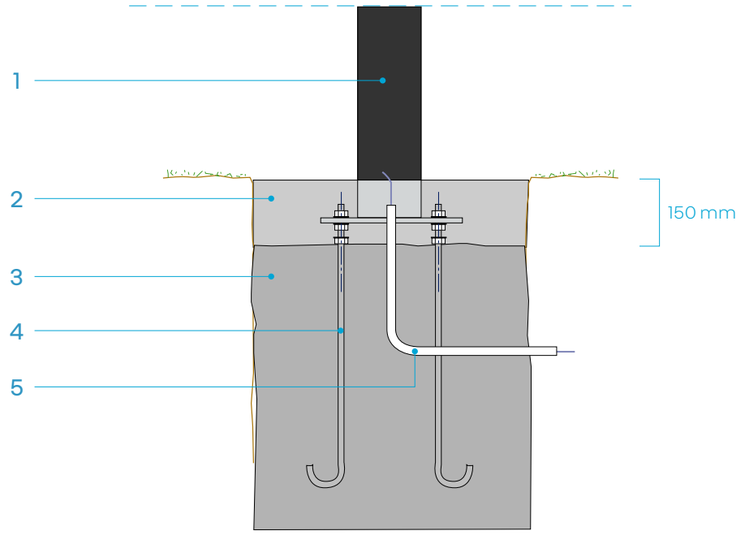
4 Plates and reinforcements for (buried) ground attachment on concrete blocks, galvanized for protection

5 Edge in pre-lacquered aluminium sheeting, 20/10 mm thick, RAL 1016 Yellow

nota

Dimension "Em" gives the cross-section of the masts.

6.5 installation of flag insignia on recessed block



principle

Recommended installation is on recessed block in order to conceal the mast anchoring.

key

1 Mast

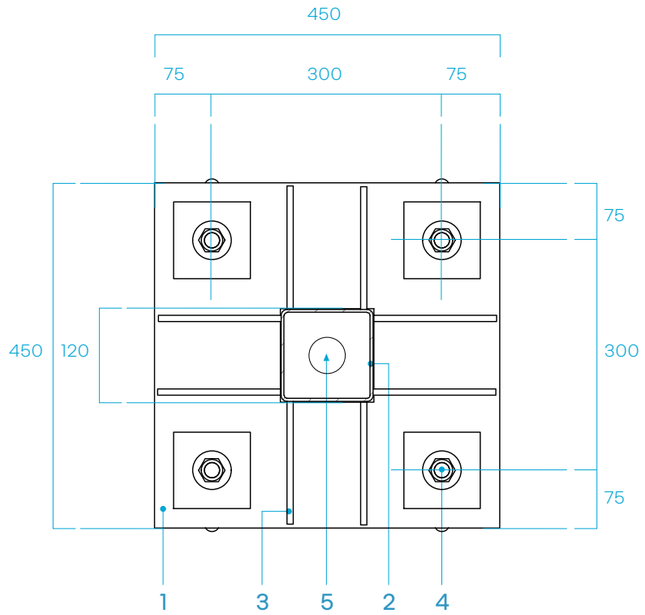
2 Concrete screed

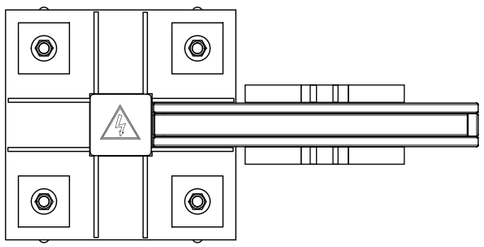
3 Concrete block

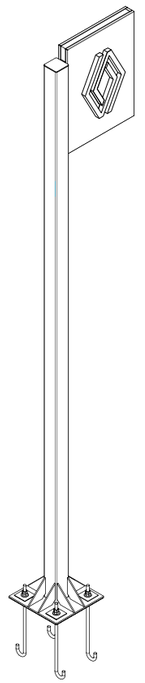
4 Anchoring rods

5 Power supply in

6.6 mast for 700 mm flag insignia







ground attachment system

The flag insignia is anchored to the ground via one plate fitted with 4 anchoring rods.

Weight of the mast and flag insignia assembly: 120 kg

key

1 Galvanized steel attachment plate

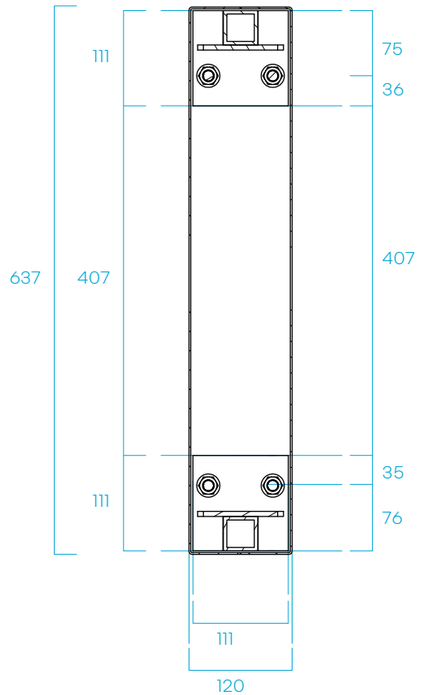
2 120 x 120 x 4,500 mm galvanized steel mast

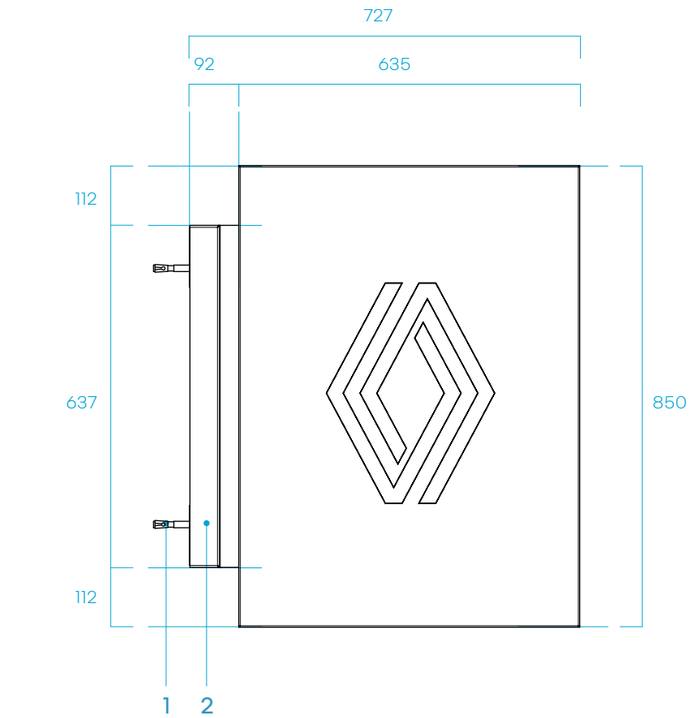
3 Gusset plates

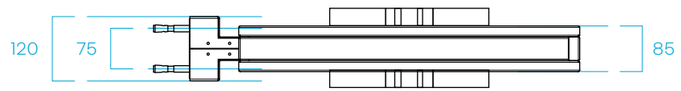
4 M24 x 420 anchoring rods

5 Power supply inlet

6.7 wall mount for 700 mm flag insignia







Wall attachment system

The flag insignia is anchored to the wall via plates with 4 drilled holes. These plates are welded to brackets attached to the flag insignia structure.

The assembly is completed by an attachment plate concealer.

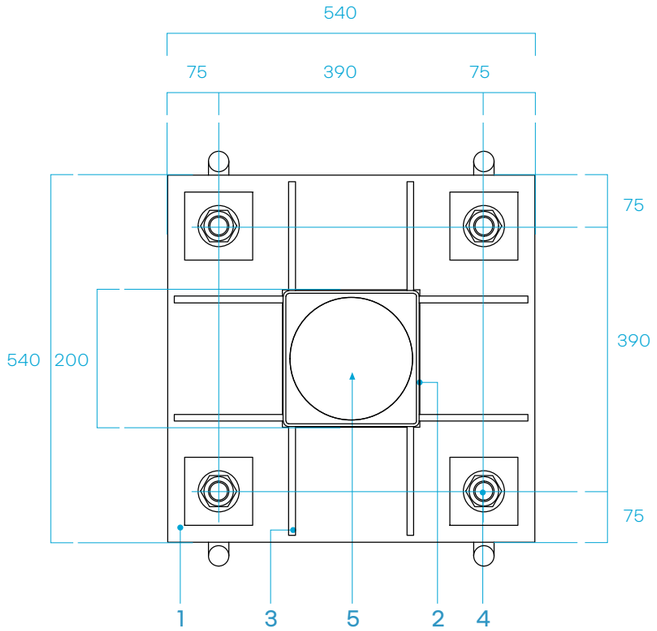
Weight of the flag insignia: 20 kg

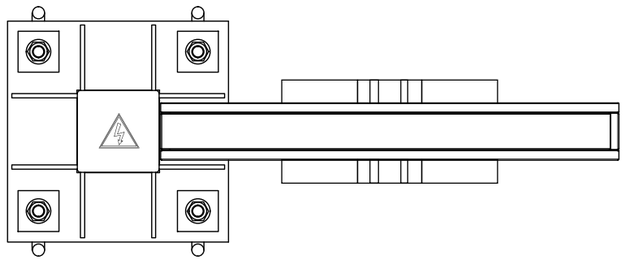
key

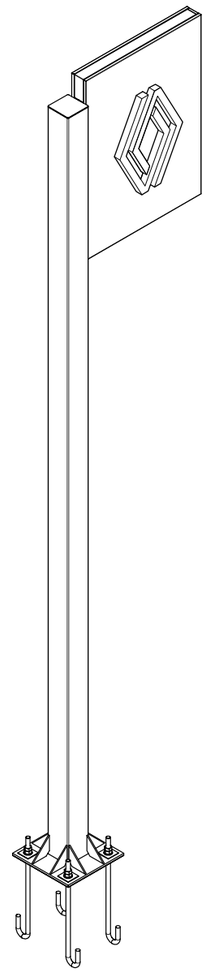
1 M12 anchor studs for attachment to wall

2 Attachment plate concealer, RAL 7021 grey in pre-lacquered aluminium sheeting, 15/10 mm thick, satin finish

6.8 mast for 1,100 mm flag insignia







ground attachment system

The flag insignia is anchored to the ground via one plate fitted with 4 anchoring rods.

Weight of the mast and flag insignia assembly: 250 kg

key

1 Galvanized steel attachment plate

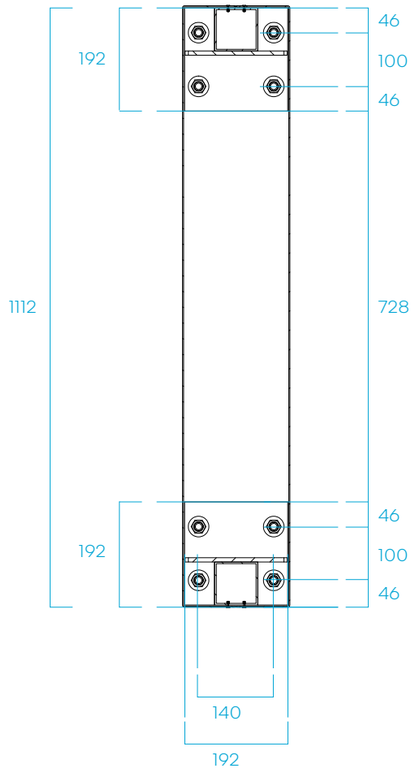
2 200 x 200 x 6,500 mm galvanized steel mast

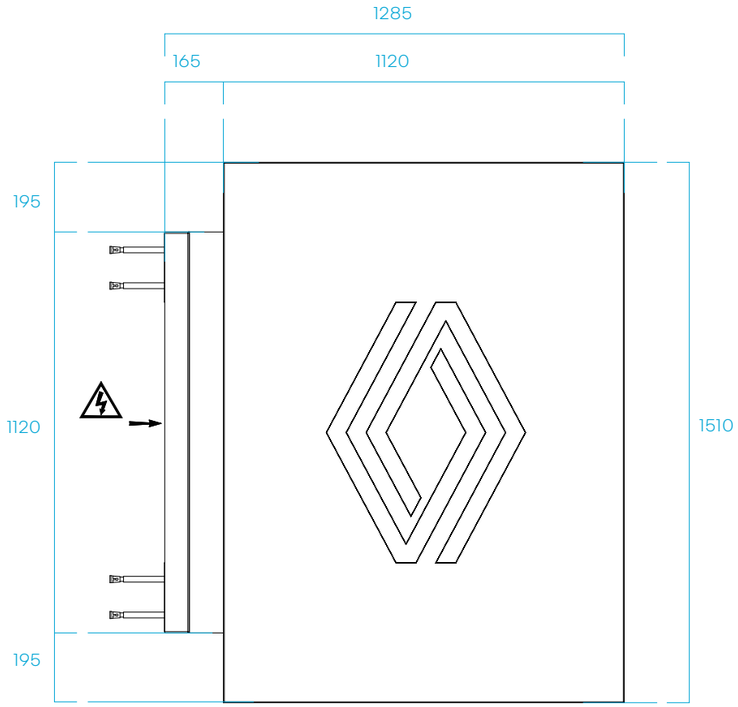
3 Gusset plates

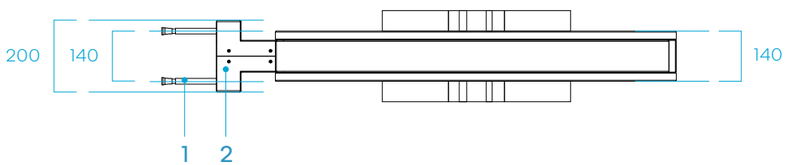
4 M30 x 870 anchoring rods

5 Power supply inlet

6.9 wall mount for 1,100 mm flag insignia







Wall attachment system

The flag insignia is anchored to the wall via plates with 8 drilled holes. These plates are welded to brackets attached to the flag insignia structure.

The assembly is completed by an attachment plate concealer.

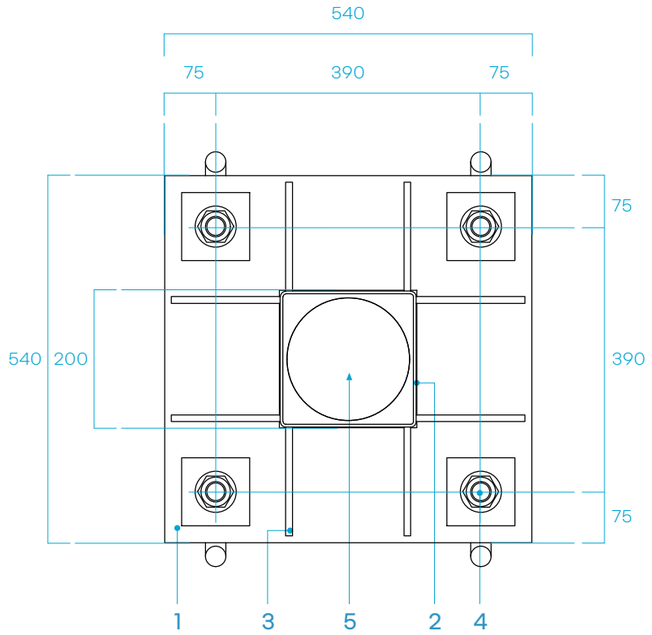
Weight of the flag insignia: 55 kg

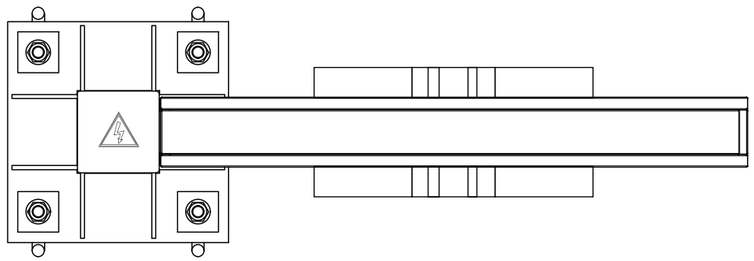
key

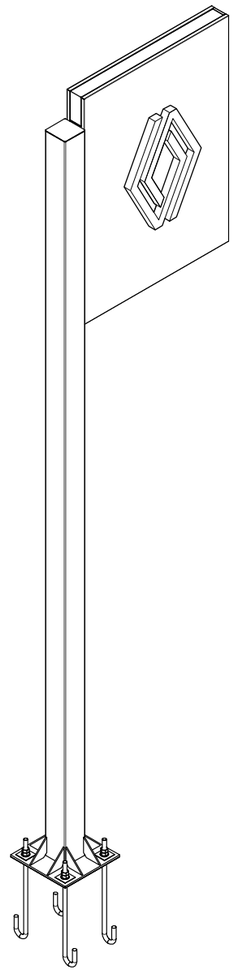
1 M12 anchor studs for attachment to wall

2 Attachment plate concealer, RAL 7021 grey in pre-lacquered aluminium sheeting, 15/10 mm thick, satin finish

6.10 mast for 1,400 mm flag insignia







ground attachment system

The flag insignia is anchored to the ground via one plate fitted with 4 anchoring rods.

Weight of the mast and flag insignia assembly: 320 kg

key

1 Galvanized steel attachment plate

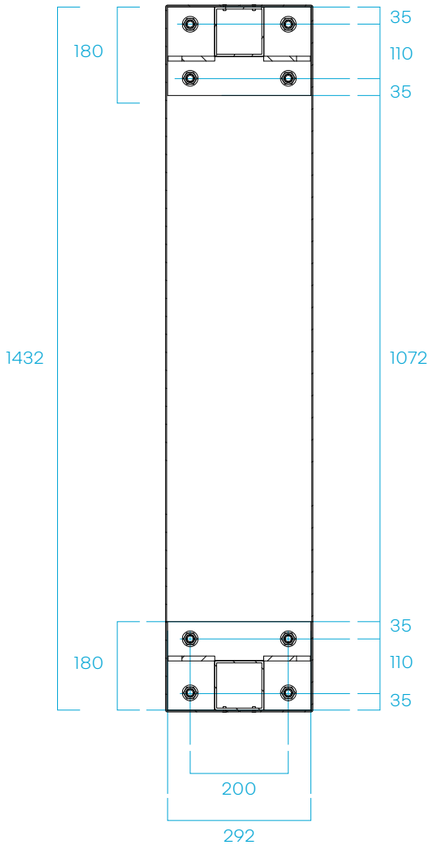
2 200 x 200 x 6,500 mm galvanized steel mast

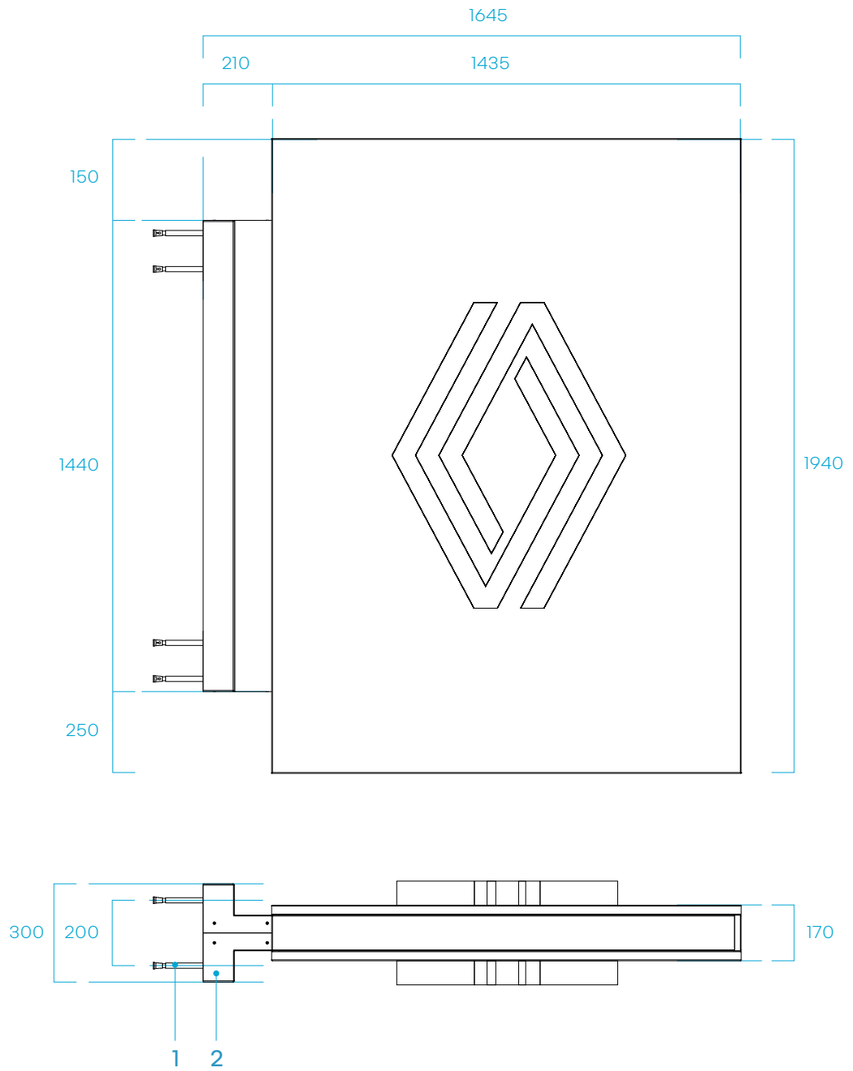
3 Gusset plates

4 M30 x 870 anchoring rods

5 Power supply inlet

6.11 wall mount for 1,400 mm flag insignia





Wall attachment system

The flag insignia is anchored to the wall via plates with 8 drilled holes. These plates are welded to brackets attached to the flag insignia structure.

The assembly is completed by a attachment plate concealer.

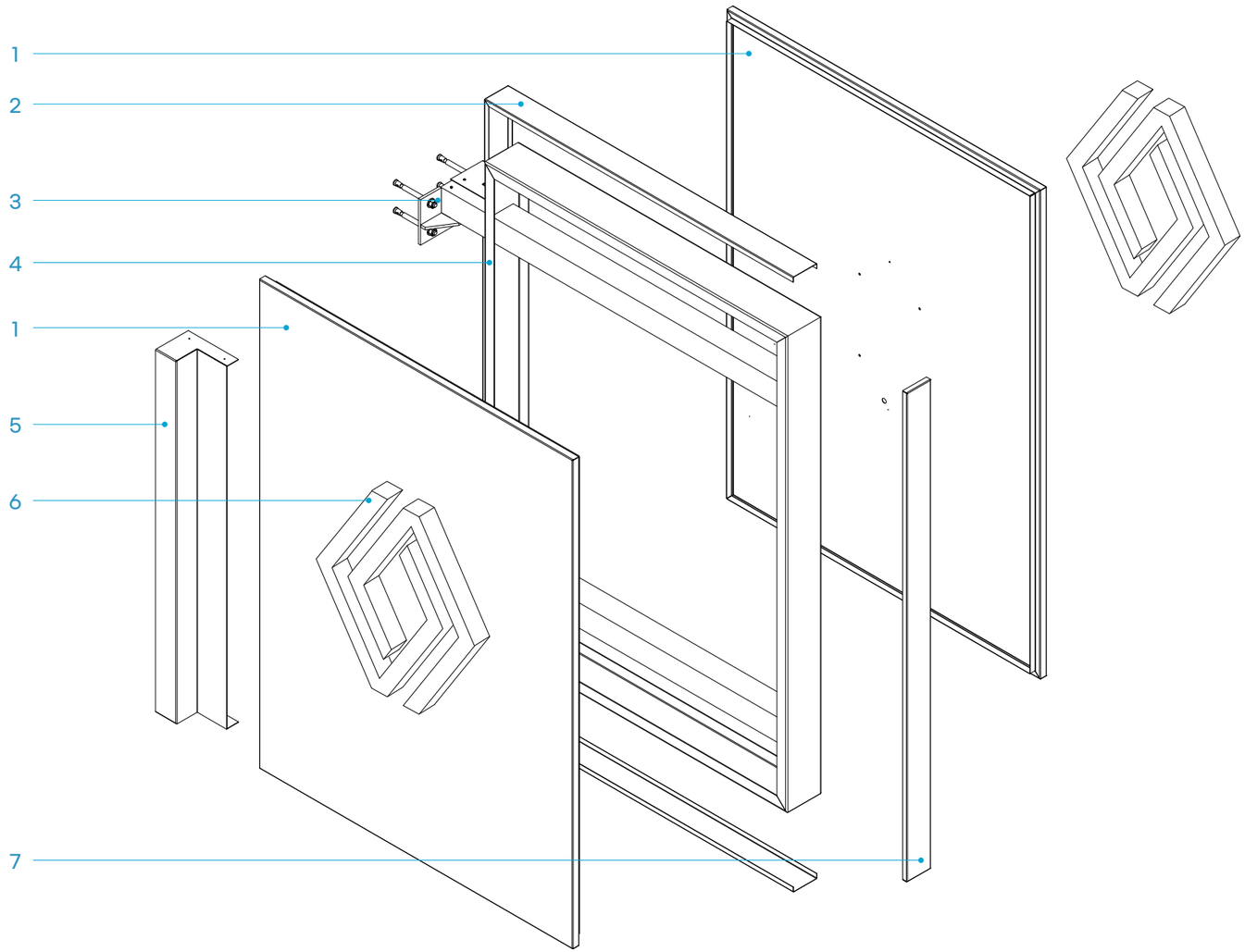
Weight of the flag insignia: 100 kg

key

1 M12 anchor studs for attachment to wall

2 Attachment plate concealer, RAL 7021 grey in pre-lacquered aluminium sheeting, 15/10 mm thick, satin finish

6.12 schematic exploded view



key

1 Front panel with raised edges in aluminium pre-lacquered black sheeting

2 Cover in pre-lacquered aluminium sheeting, RAL 1016 Yellow

3 Aluminium plate welded to bracket

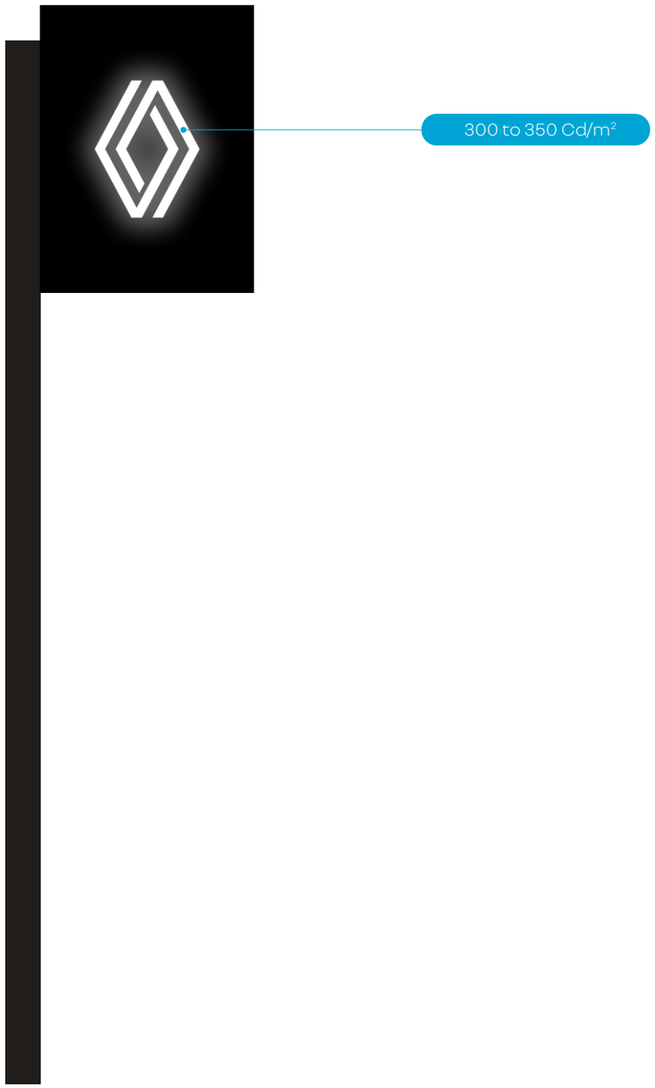
4 Welded aluminium structure

5 Attachment plate concealer in pre-lacquered aluminium sheeting, RAL 7021 grey

6 Diamond with built-in lighting

7 Edge in pre-lacquered aluminium sheeting, RAL 1016 Yellow

6.13 lighting of flag insignia



manufacturing the diamonds

The lighting principles and methods of manufacture of the different sizes of diamonds are covered by another specification.

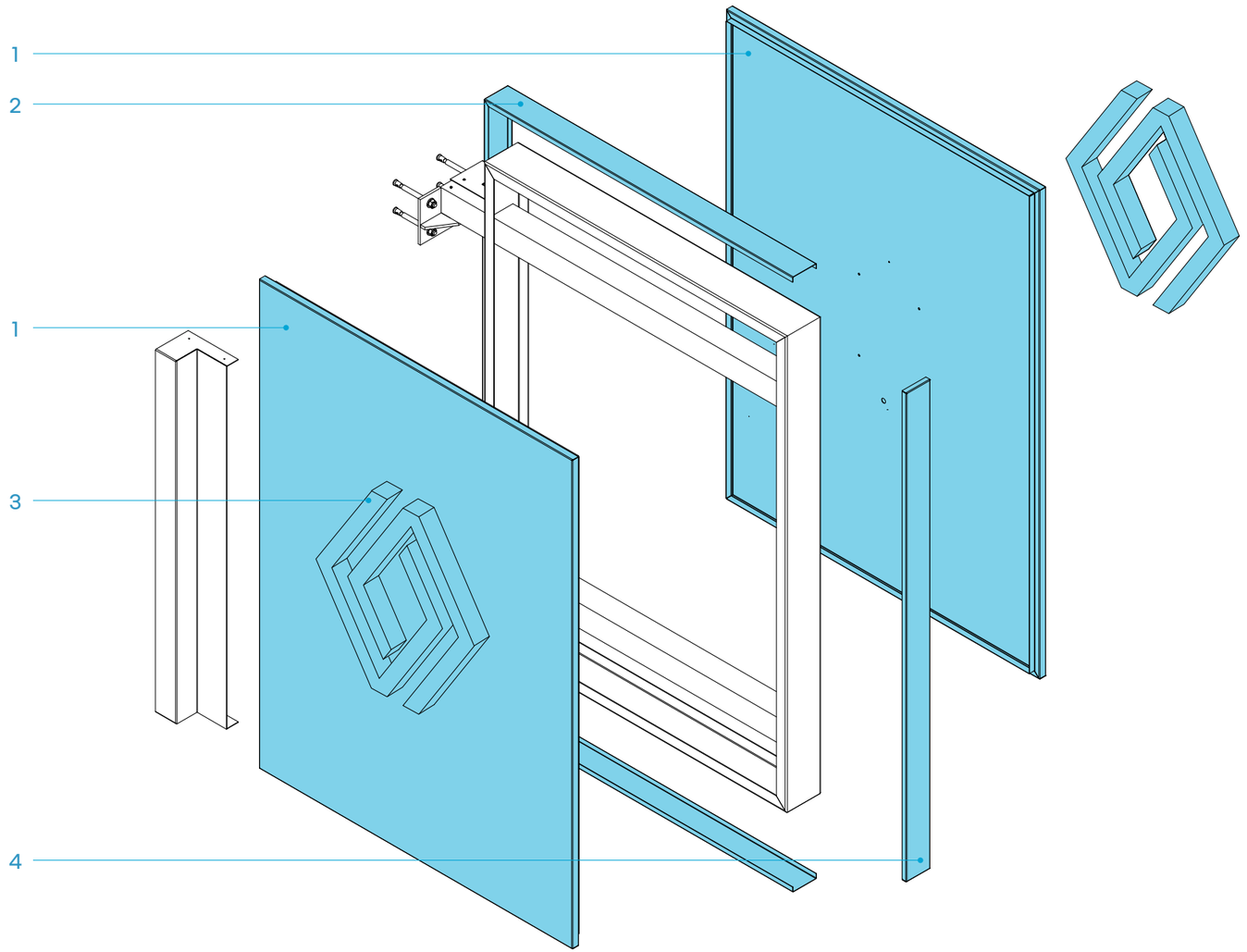
required performance levels

Supply: 220 volts.

12 volt converter with regulated voltage, IP 68 protection.

Diamond: 300 to 350 Cd/m2

6.14 principle of retrofit



principle

It is possible to retrofit the existing signs wthe the reuse of the structure and the concealer.

For this, after washing the sign, it will be necessary to remove and to replace the cladding of the flag insignia.

Faces comes with new diamonds.

key

1 Front panel with raised edges in aluminium pre-lacquered black sheeting

2 Cover in pre-lacquered aluminium sheeting, RAL 1016 Yellow

3 Diamond with built-in lighting

4 Edge in pre-lacquered aluminium sheeting, RAL 1016 Yellow

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