

furniture for showrooms

brand walls

technical requirements

edition v2c - july 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:

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

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

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

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

2.1.4.5 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 I. 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 aluminium manufacturer,
- 10 year guarantee on the internal structures,
- 10 year guarantee on the PMMA acrylic panels.

2

general remarks

2.1 brand walls



principles

The brand walls adopt the brand's new color codes as well as the new emblem.

Economical retrofitting solutions for existing elements are planned.

Moreover, more modern elements will be created for the new installations.

2.2 canopies

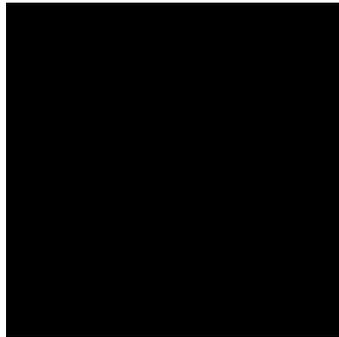


principles

The brand walls integrated in the canopies use the brand's new color codes as well as the new emblem.

Economical retrofitting solutions for existing elements are planned.

2.3 colours & materials



RAL 9005 black

- post-lacquered aluminium sheeting, 20/10 mm thick
- pre-lacquered acm
- matt finish with 2% gloss



Pantone 3955 C equivalent to RAL 1016 yellow

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



black pmma

- opaque pmma th. 5 mm
- satin finish with 40% gloss or matt finish

3

technical principles

brand walls for new installations

3.1 family of elements

the different brand walls

4 versions comprise the family of brand walls:

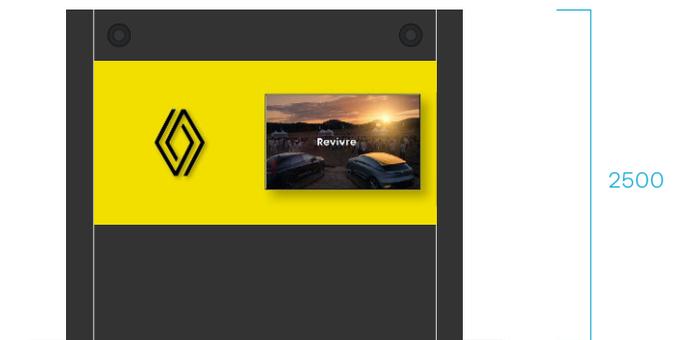
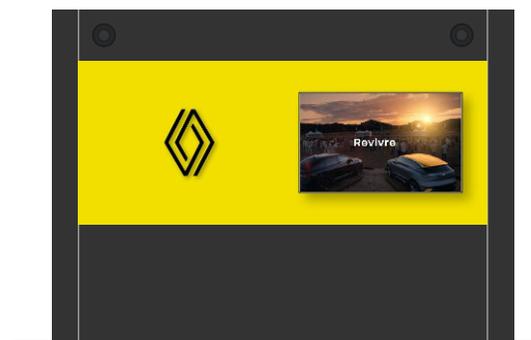
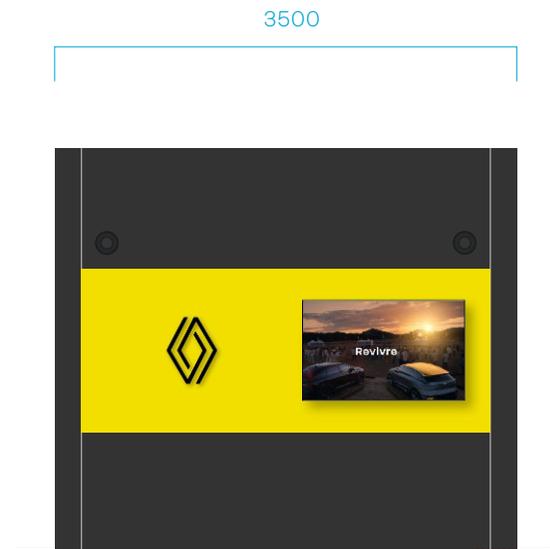
- 2 variations in height: 2.5 and 3 m,
- 2 variations in length: 3 and 3,5 m.

standard 3.00 m high brand walls

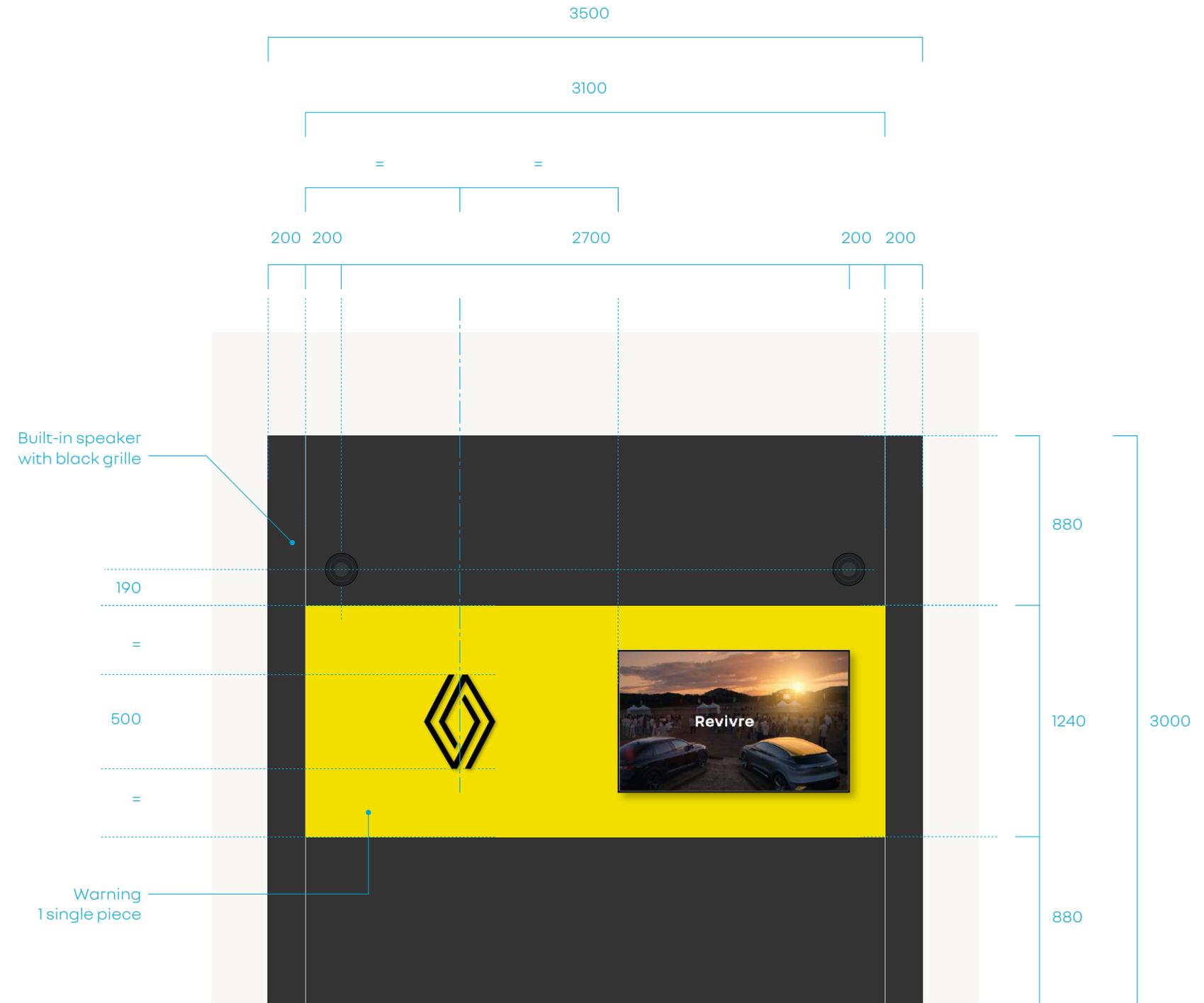
When the ceiling height allows, these elements are recommended as a priority, their height of 3.00 m being harmonized with the other elements present in the showroom (wall customization furniture, fresco, etc.).

brand walls reduced to 2.50 m

Reduced height brand walls should only be used in the case of a ceiling height of less than 3.00 m or in the case of small showrooms (shallow depth or shallow surface).



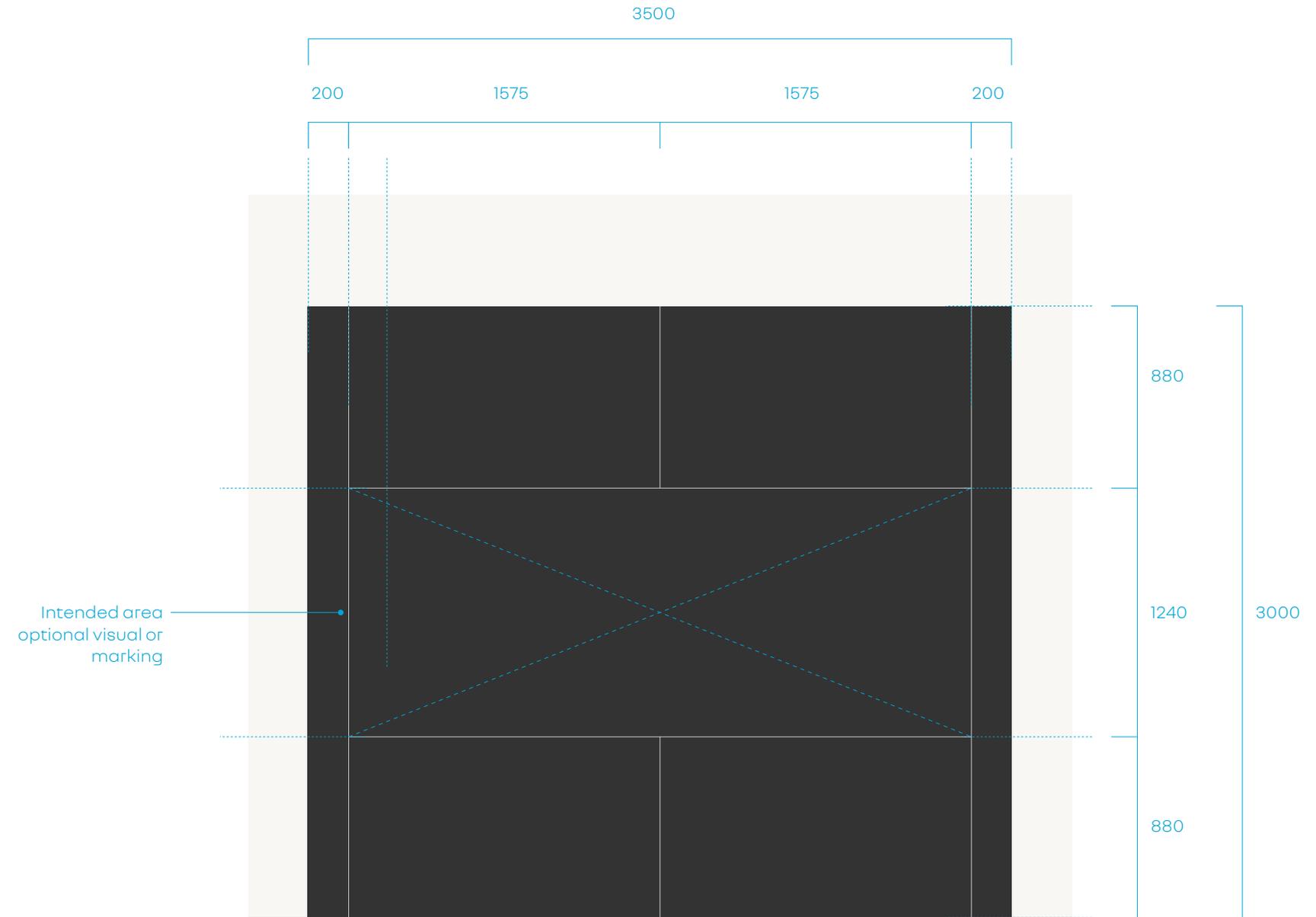
3.2 3500 mm brand walls



nota

Industrial concept made with ACM or aluminium sheets for cladding on steel structure.

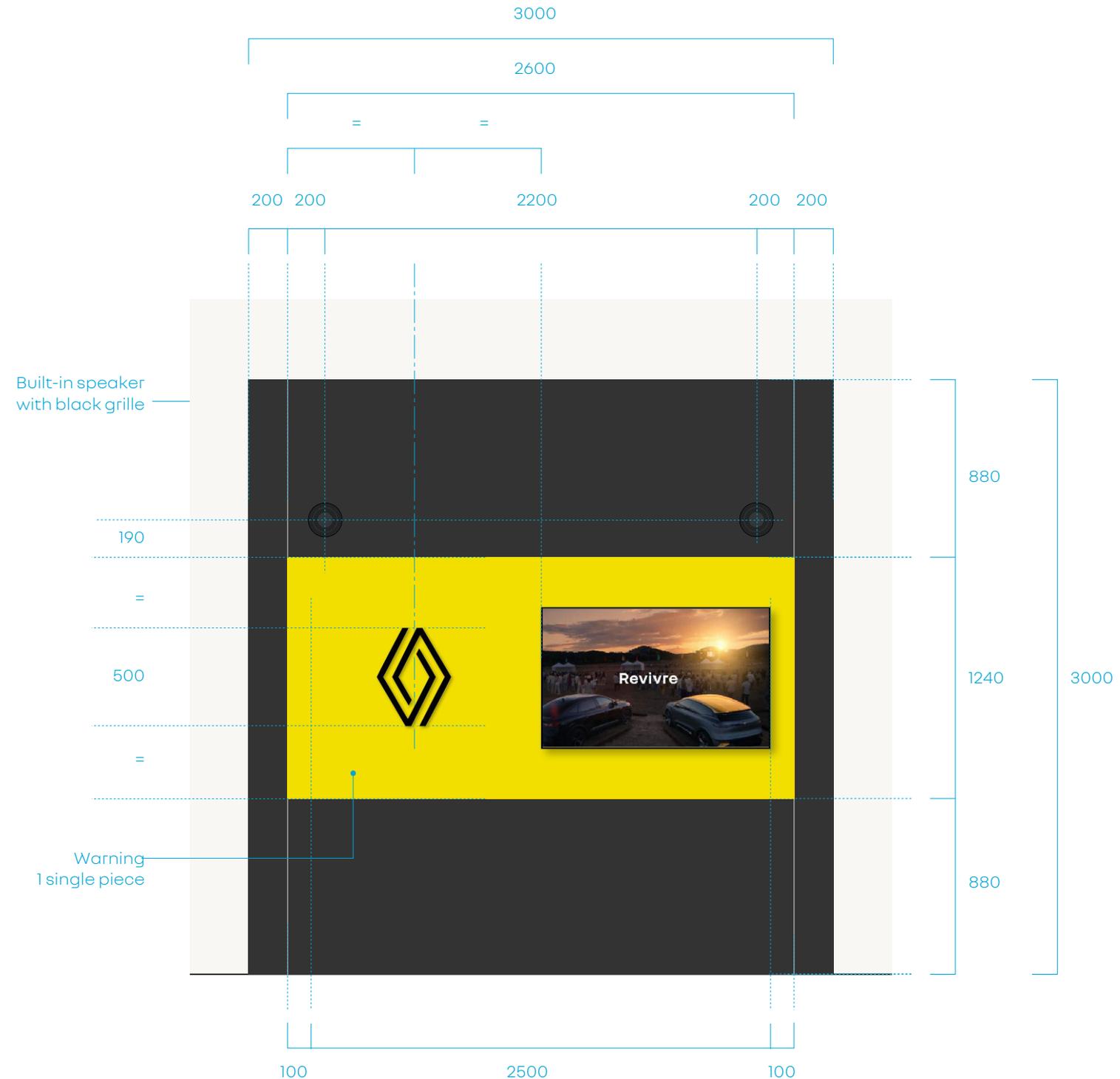
3.3 back of 3500 mm brand walls



nota

Industrial concept made with ACM or aluminium sheets for cladding on steel structure.

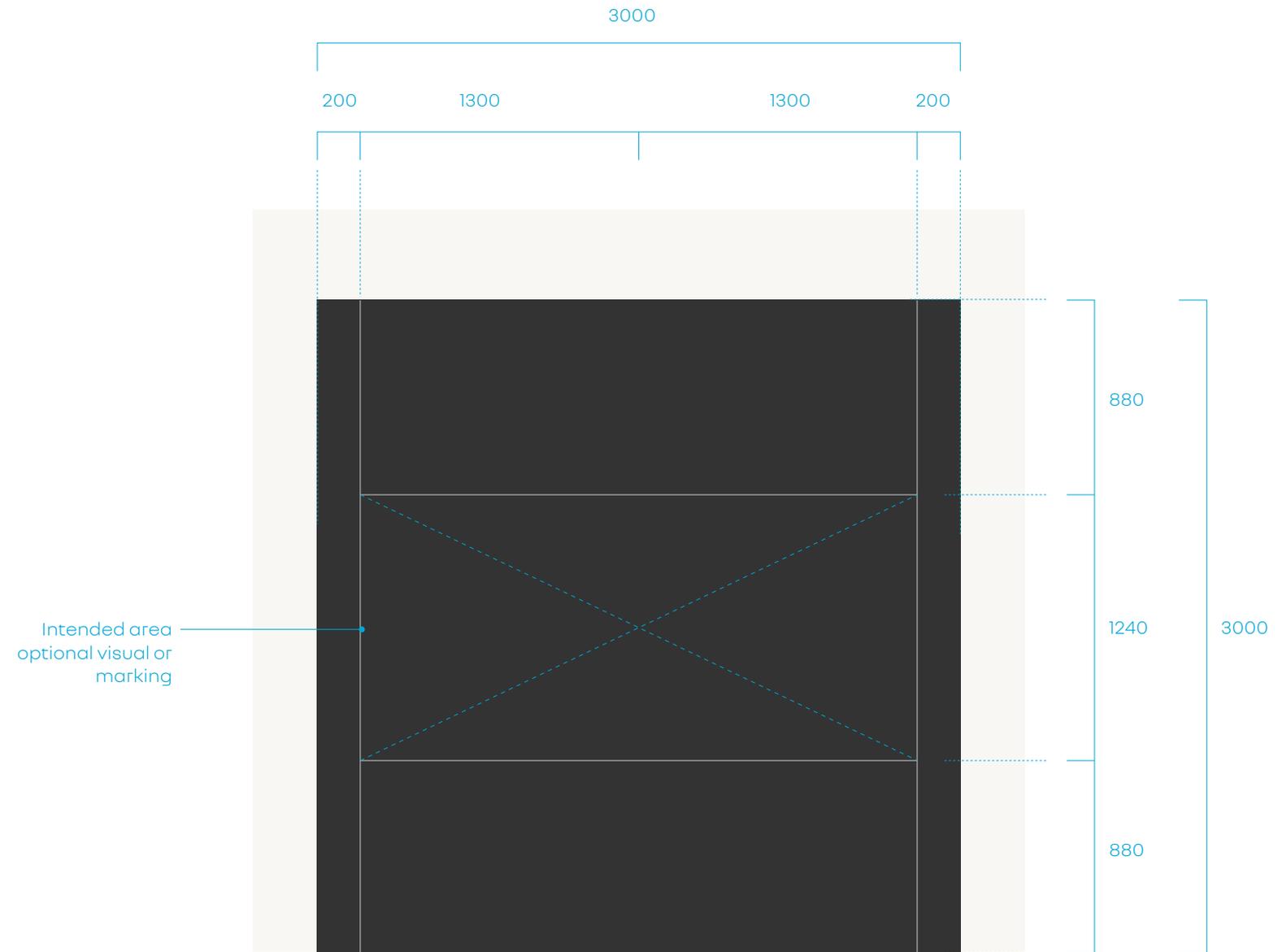
3.4 3000 mm brand walls



nota

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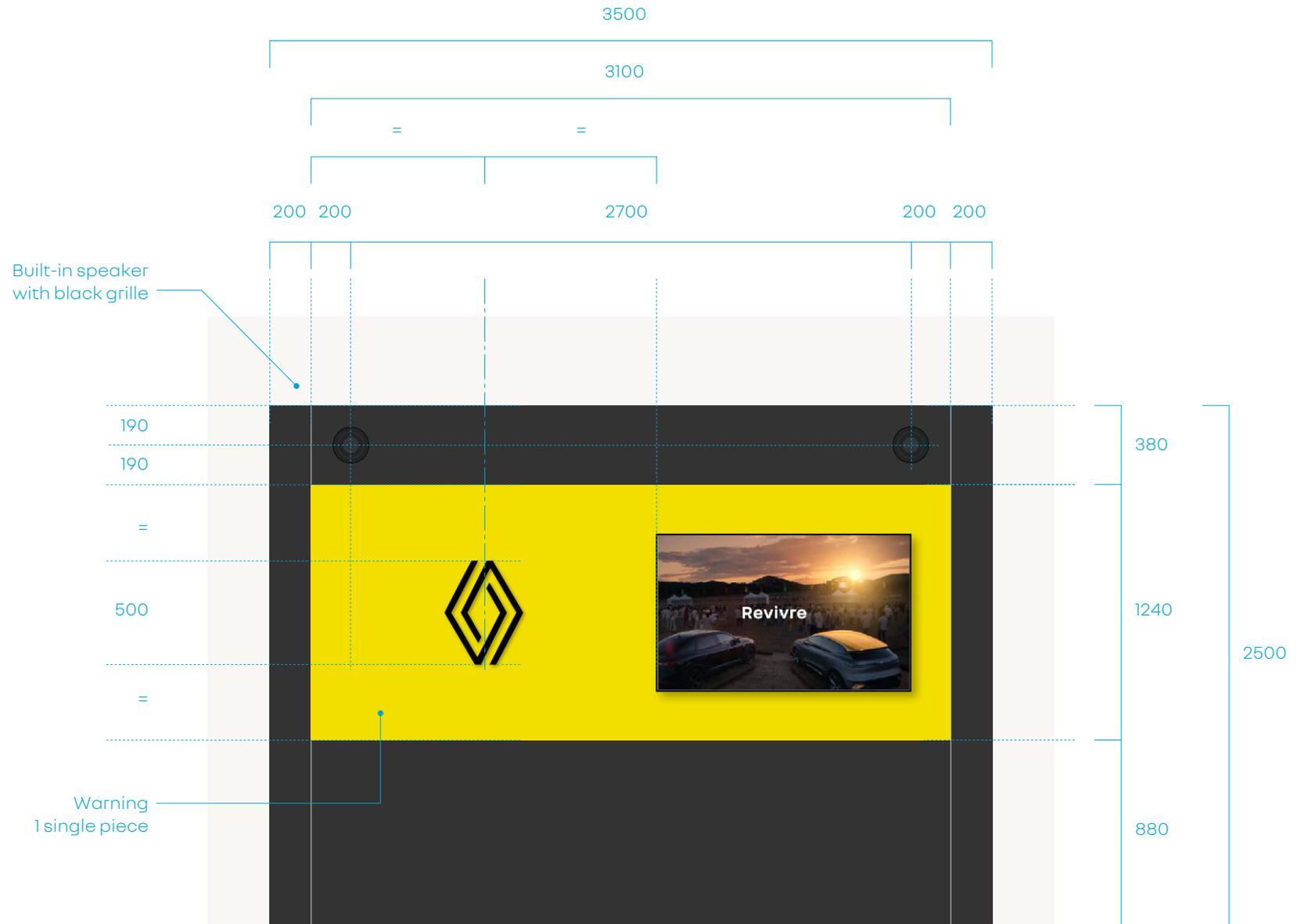
3.5 back of 3000 mm brand walls



nota

Industrial concept made with ACM or aluminium sheets for cladding on steel structure.

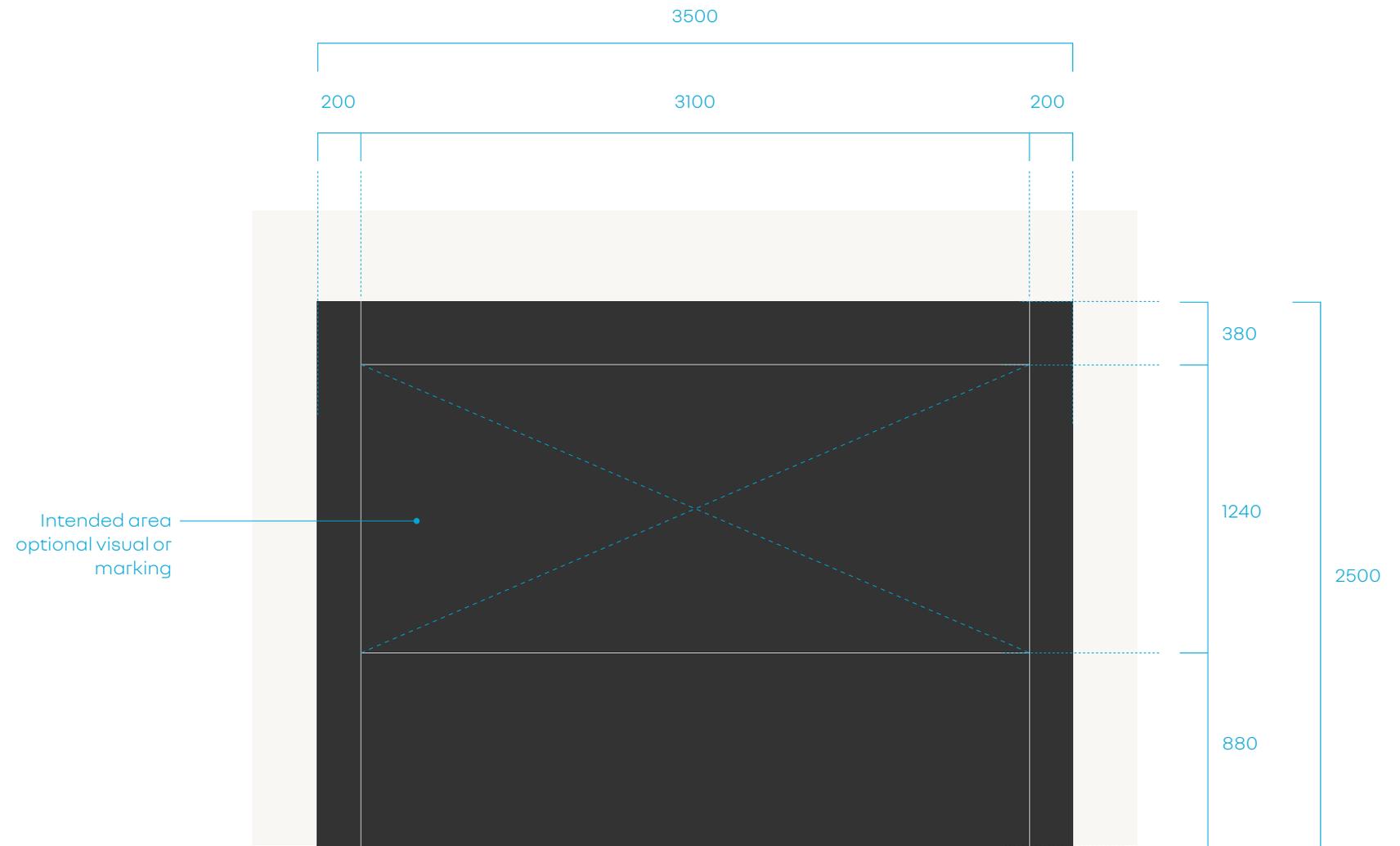
3.6 reduced height 3500 mm brand walls



nota

Industrial concept made with ACM or aluminium sheets for cladding on steel structure.

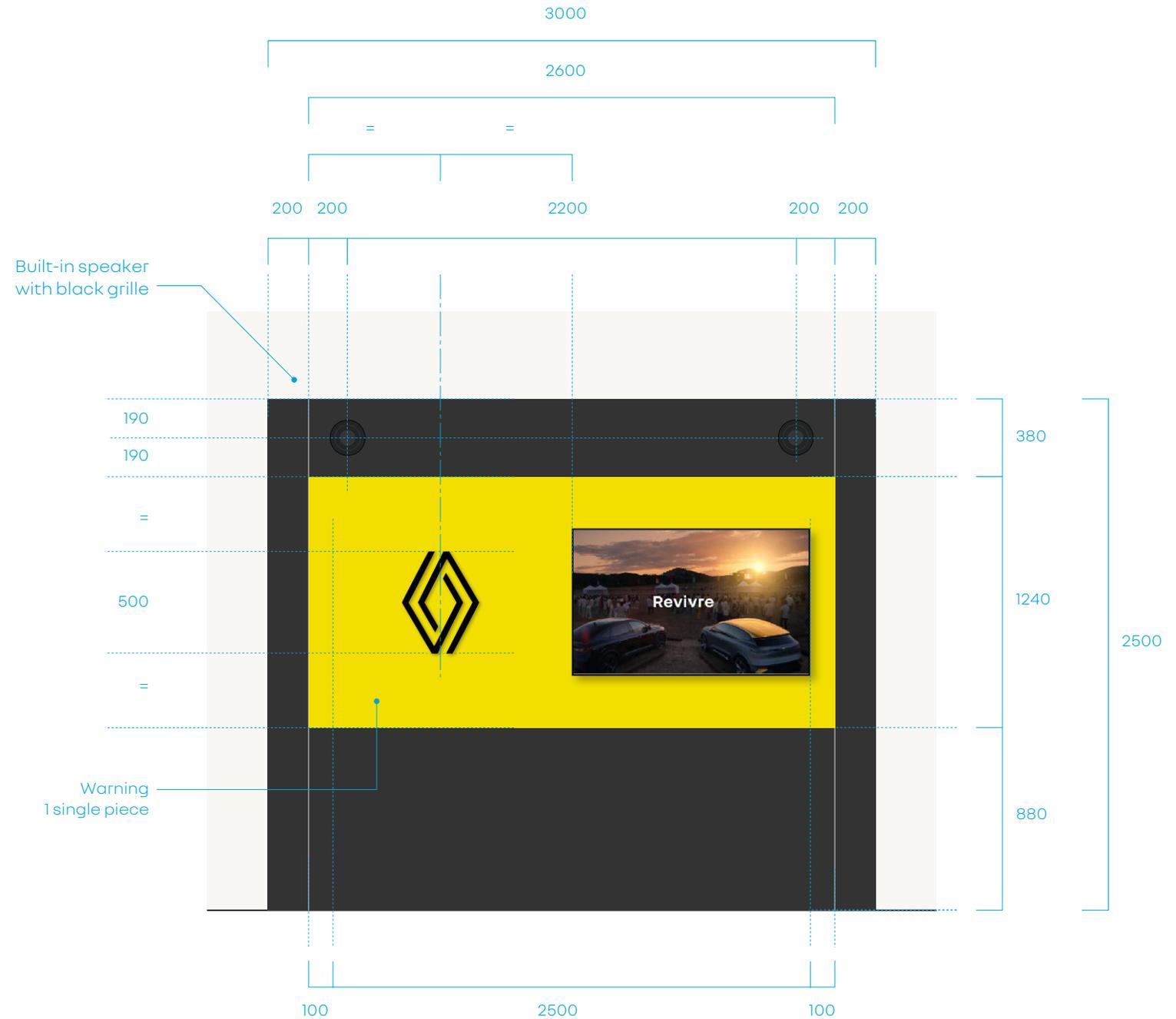
3.7 back of reduced height 3500 mm brand walls



nota

Industrial concept made with ACM or aluminium sheets for cladding on steel structure.

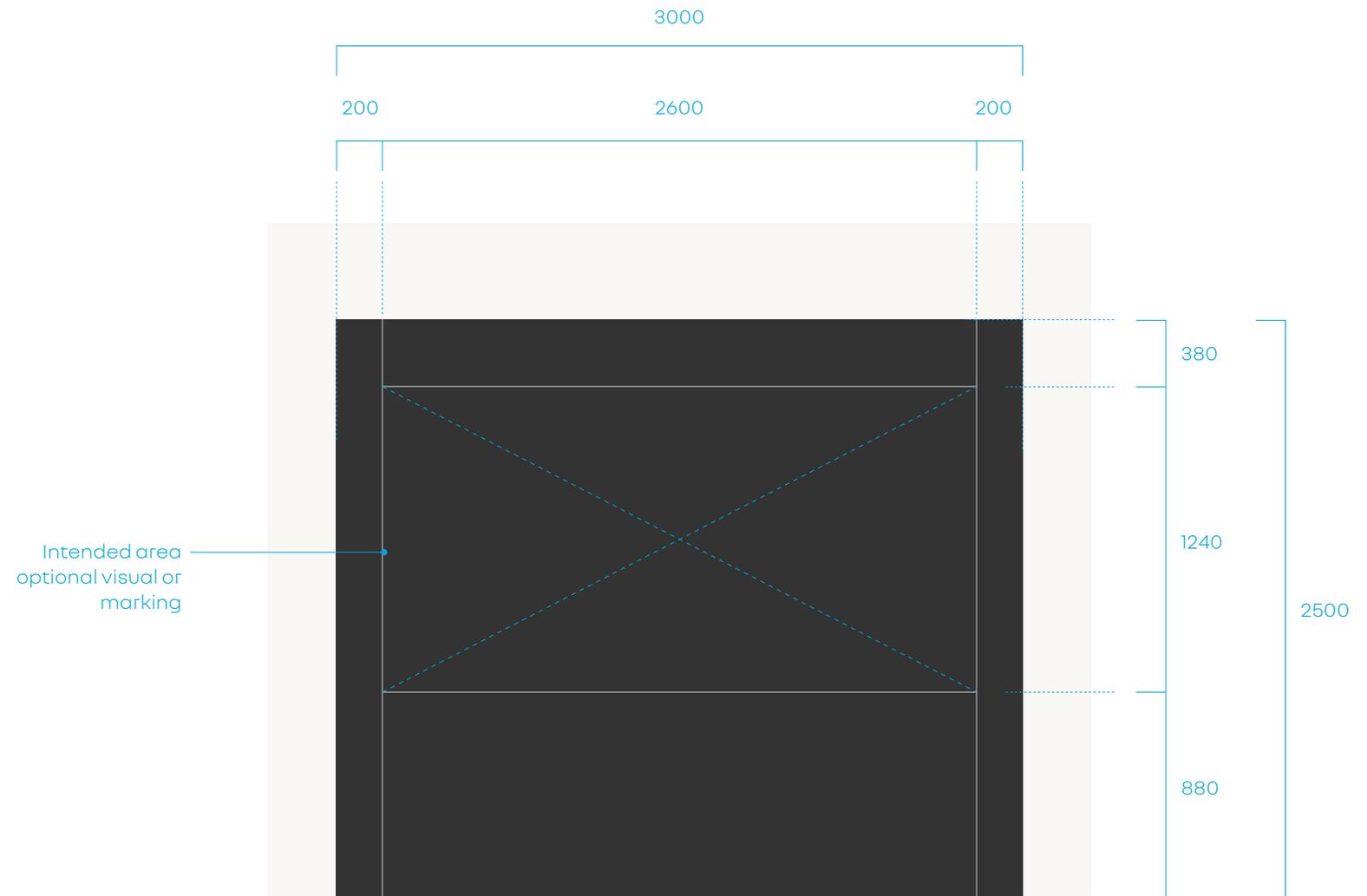
3.8 reduced height 3000 mm brand walls



nota

Industrial concept made with ACM or aluminium sheets for cladding on steel structure.

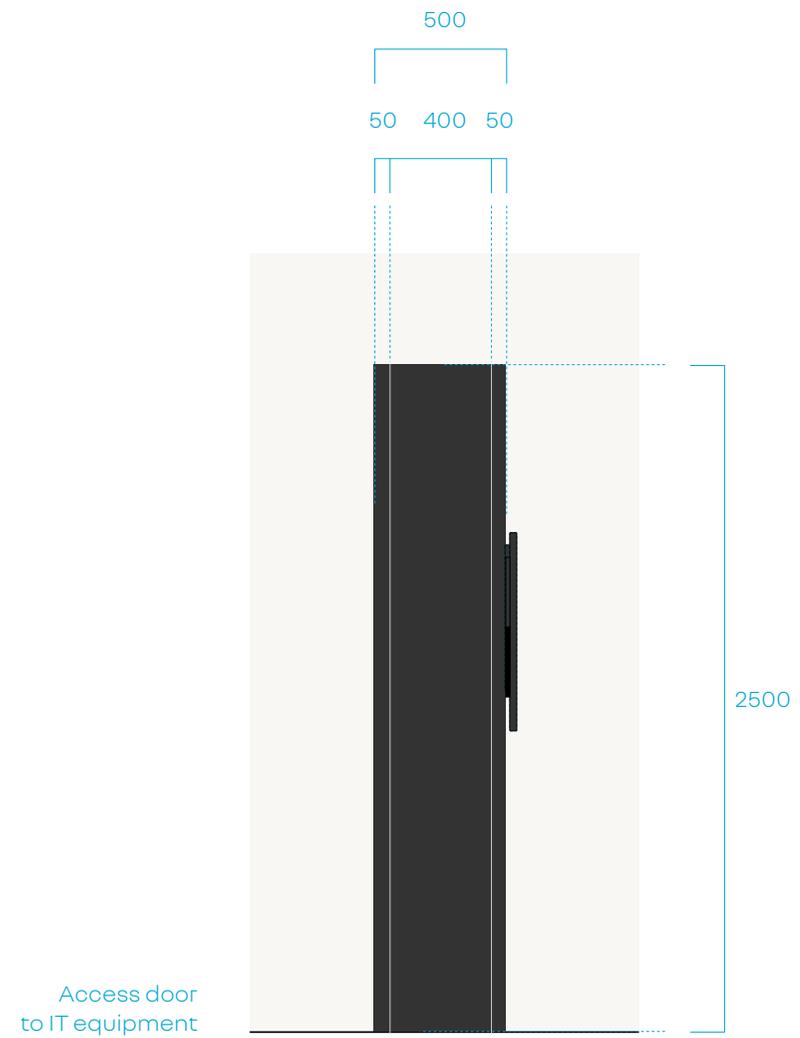
3.9 back of reduced height 3000 mm brand walls



nota

Industrial concept made with ACM or aluminium sheets for cladding on steel structure.

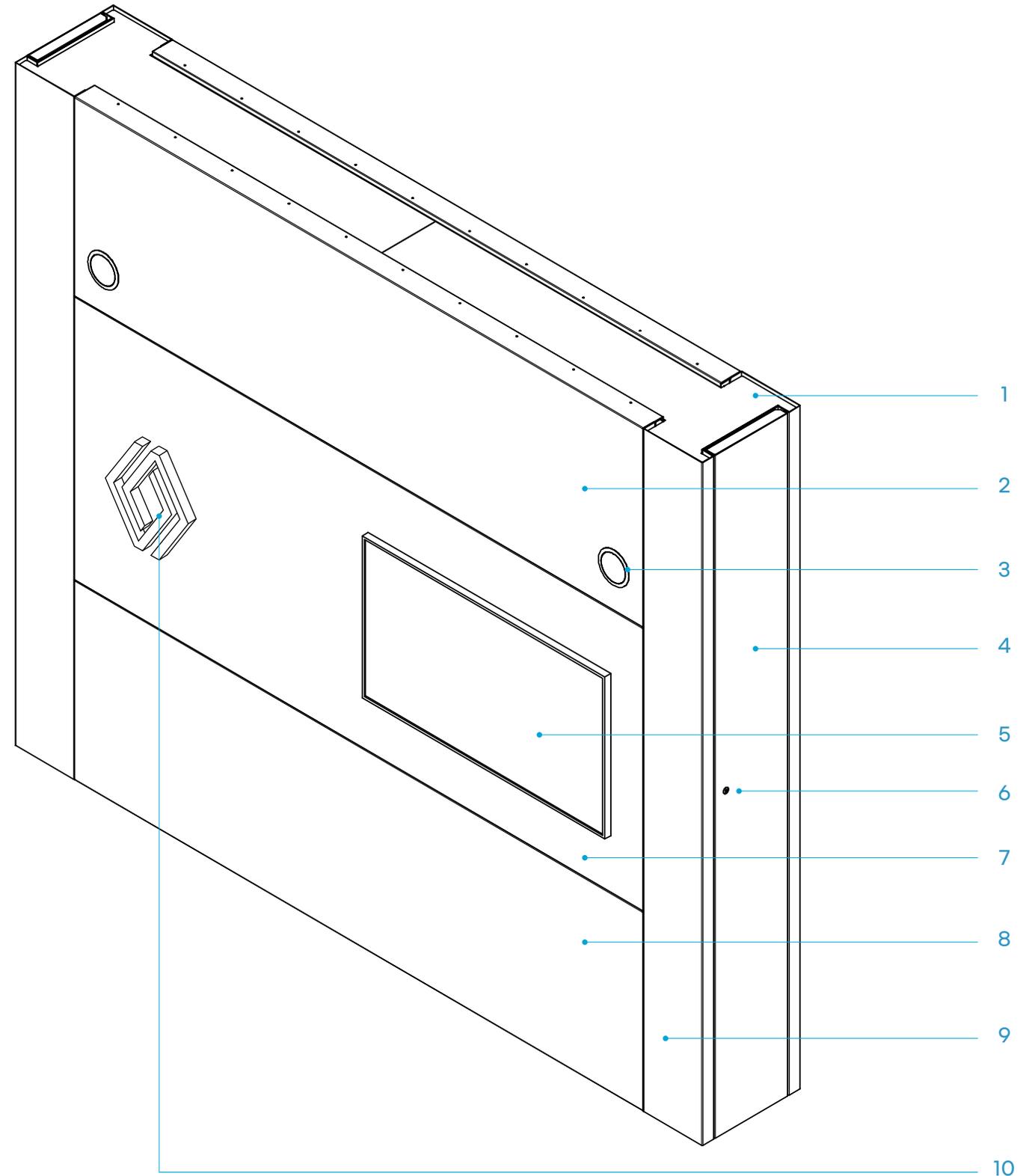
3.10 side of reduced height brand walls



nota

Industrial concept made with ACM or aluminium sheets for cladding on steel structure.

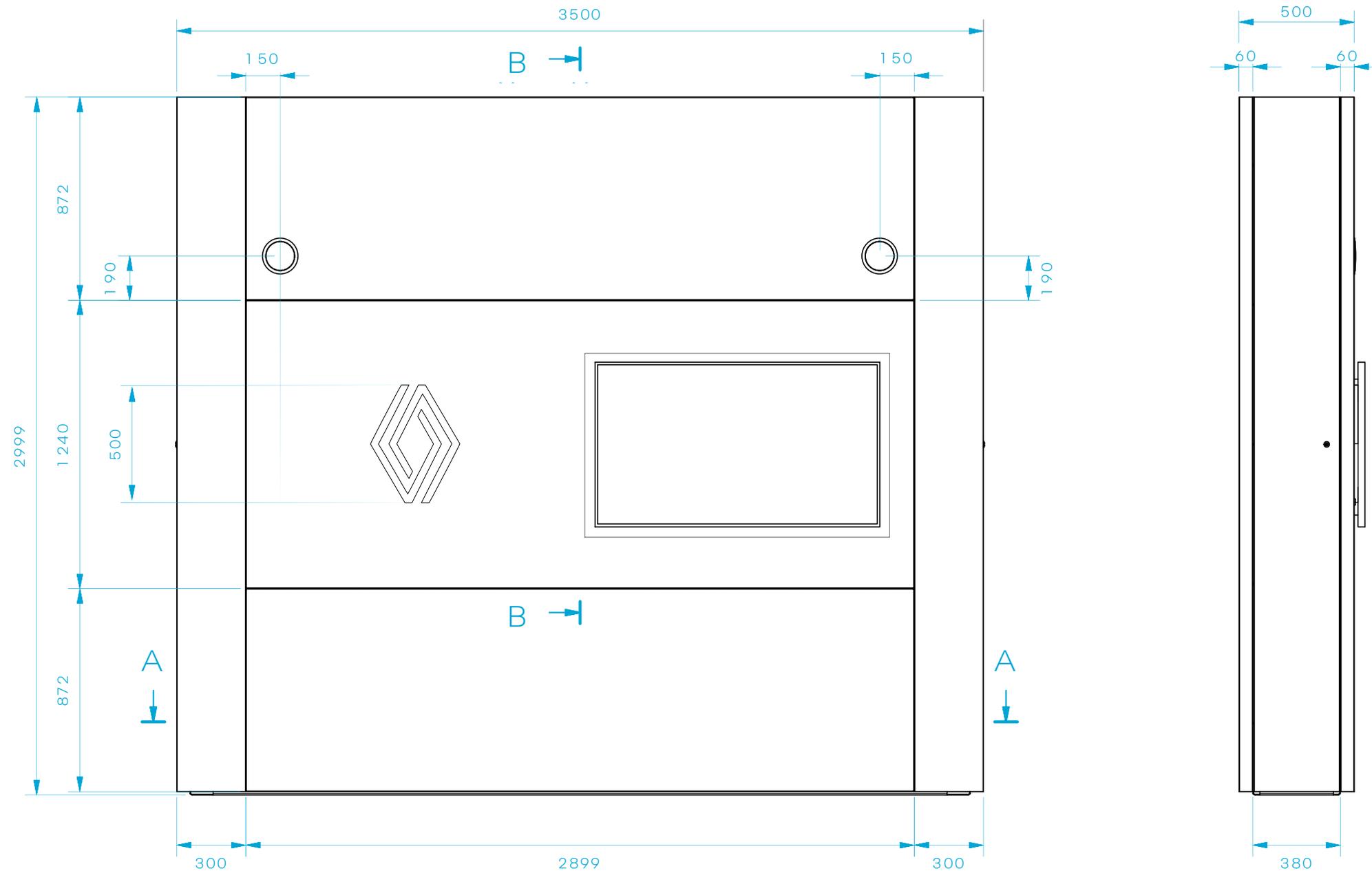
3.11 general design



key

- 1 Upper structure
- 2 Top cladding panel
- 3 Loud speaker
- 4 Access door to IT equipment
- 5 Screen
- 6 Lock
- 7 Intermediate cladding panel
- 8 Lower cladding panel
- 9 Side cladding panel with raised edges
- 10 New emblem in satin black PMMA th. 5 mm screw fixing in the yellow face.

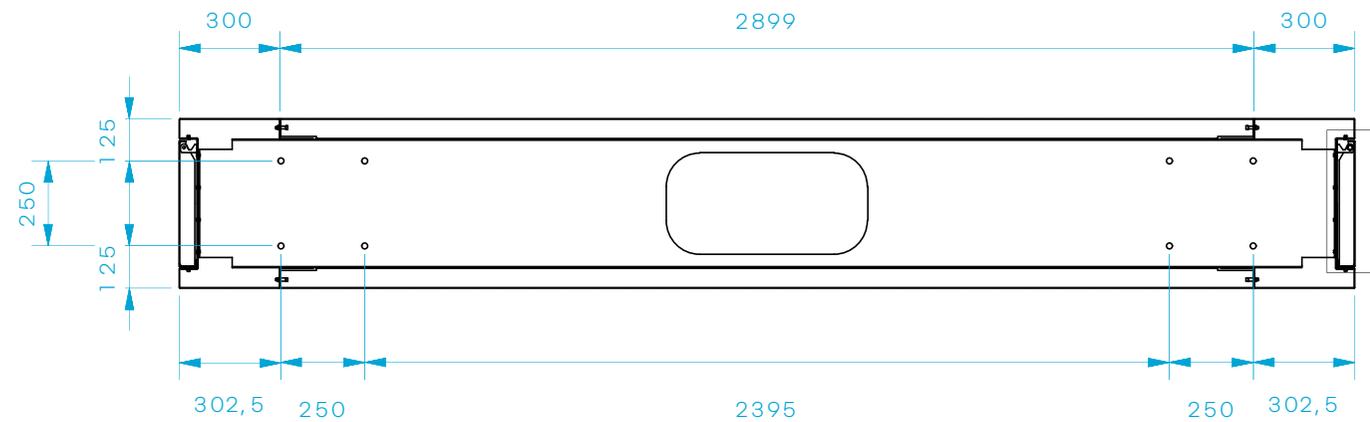
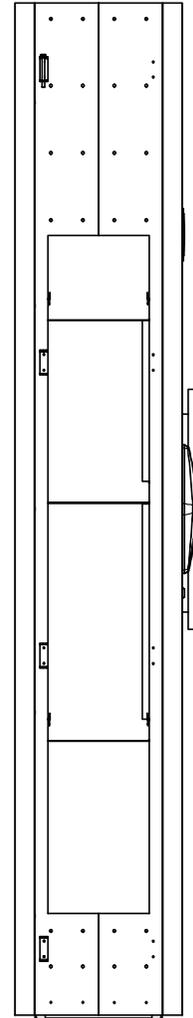
3.12 general dimensions



nota

Industrial concept made with ACM sheets for cladding on steel structure.

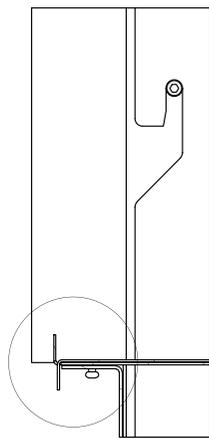
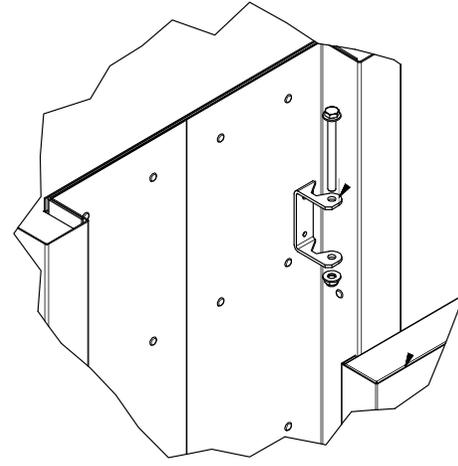
3.13 general design



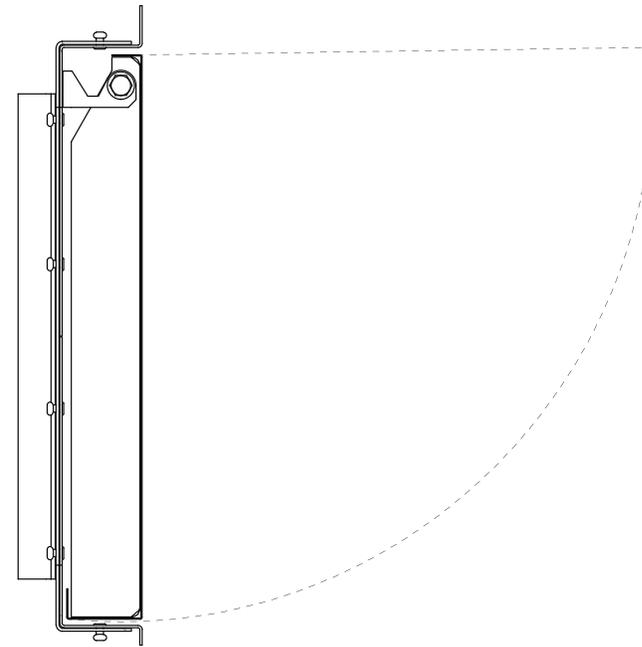
nota

Industrial concept made with ACM sheets for cladding on steel structure.

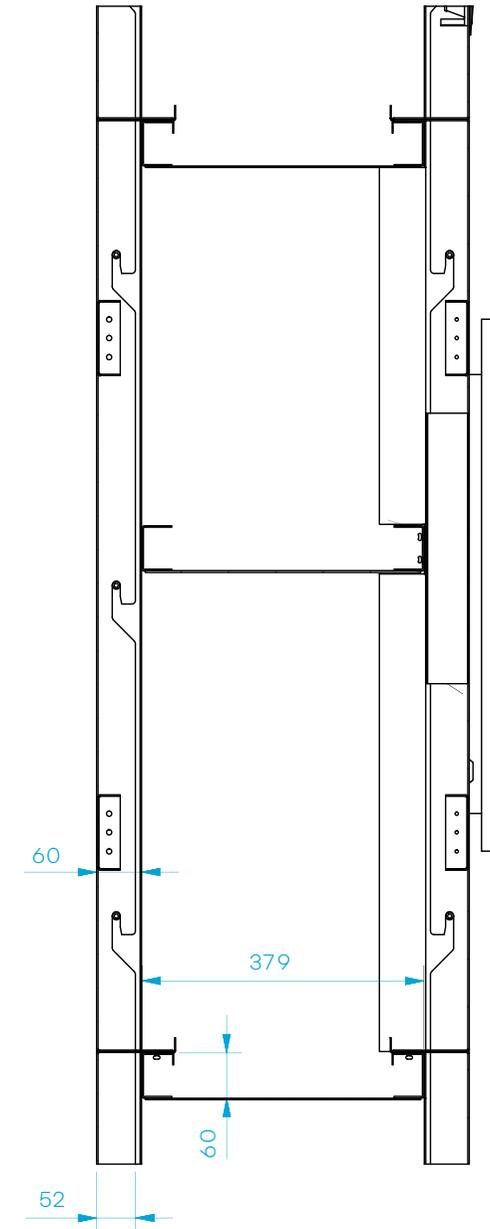
3.14 details of manufacturing



ATTACHING THE CLADDING
PANELS



ACCESS DOOR
TO IT MATERIAL



CLADDING ON
INTERNAL STRUCTURE

3.15 retrofit of existing rse brand walls

principle

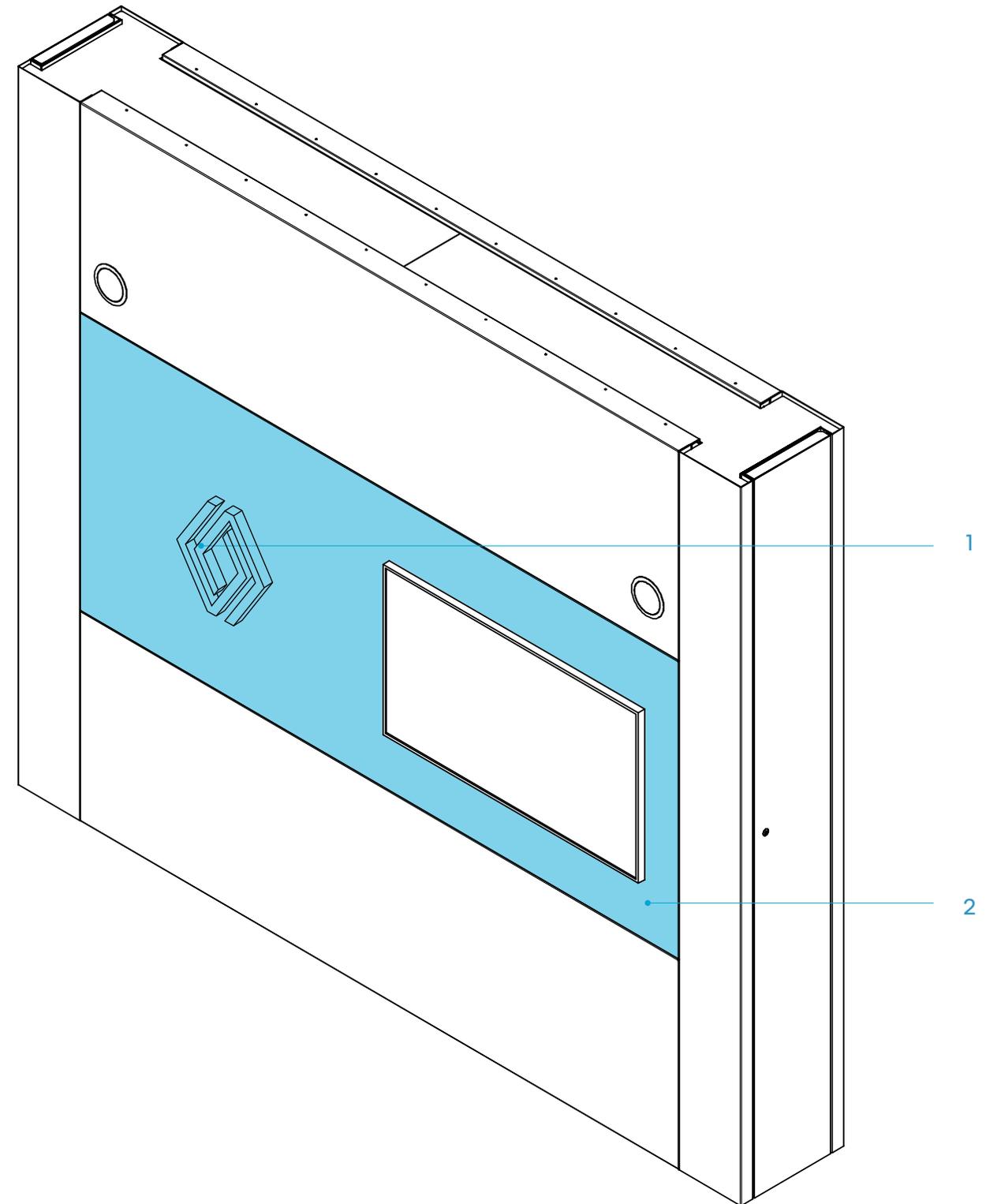
It is possible to retrofit the few existing RSE wall brands (2020) with the reuse of the structure and the cladding

For this, it will be necessary to remove and to replace the intermediate yellow panel.

New panel comes with new emblem.

key

- 1 New emblem in satin black PMMA th. 5 mm screw fixing in the yellow face.
- 2 Yellow intermediate cladding panel



4

technical principles

flat brand wall for small R2 sites only

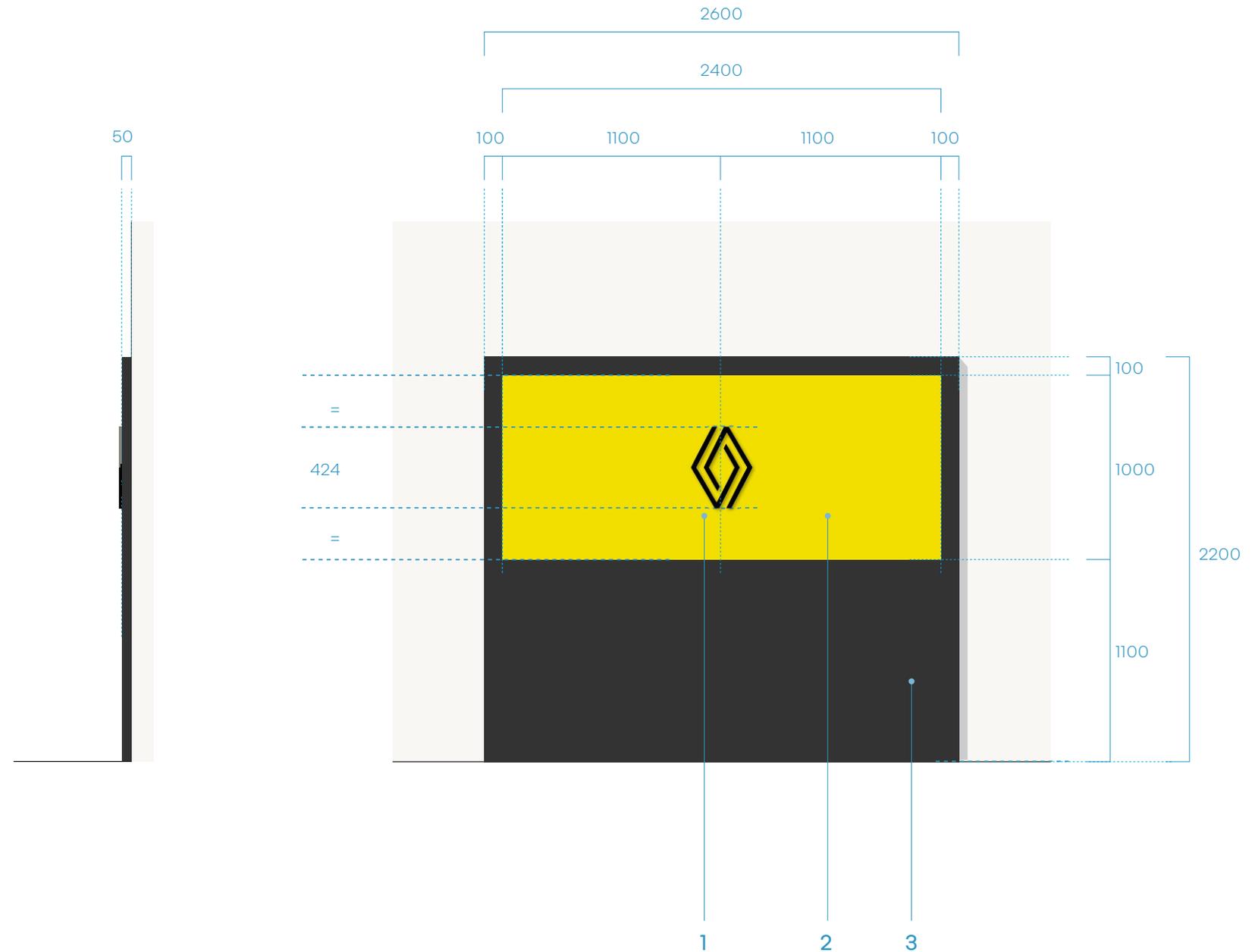
4.1 description

principle

This flat brand wall does not allow the integration of IT and television equipment, and as such, constitutes an economical alternative reserved only for Renault Contact.

The general dimensions are H. 2200 x L. 2600 x Thick. 50 mm.

- 1 The non-illuminated Renault signature is common to all brand walls.
- 2 The yellow part in horizontal format is made of tinted adhesive.
- 3 The black part of the flat brand wall is made of lacquered aluminium sheet.



5

**technical principles
brand walls retrofit**

5.1 family of elements to retrofit



the existing brand walls

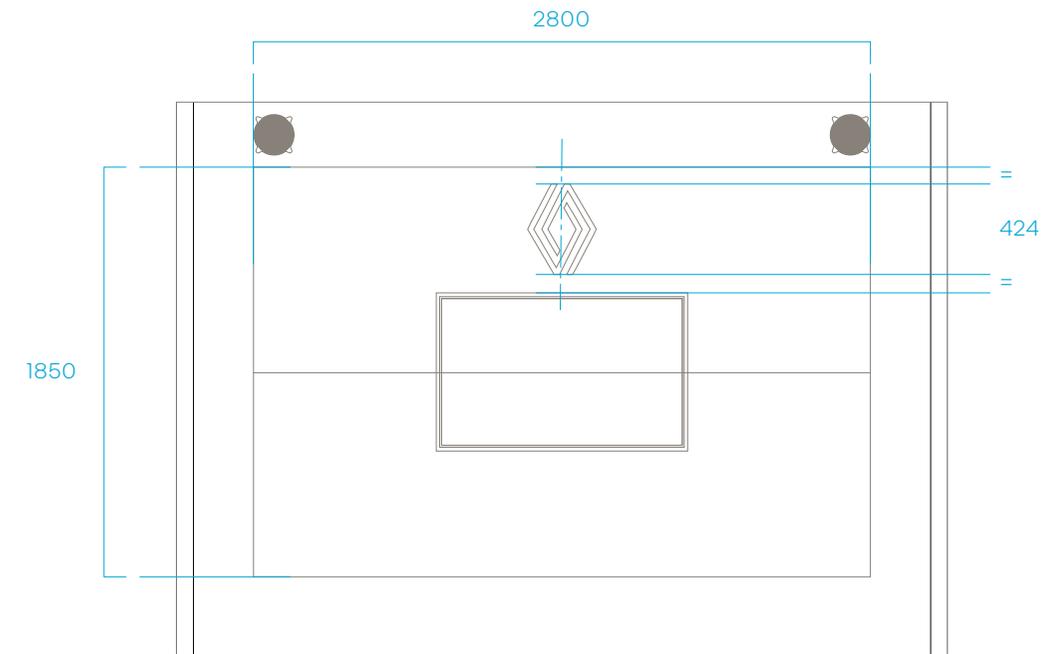
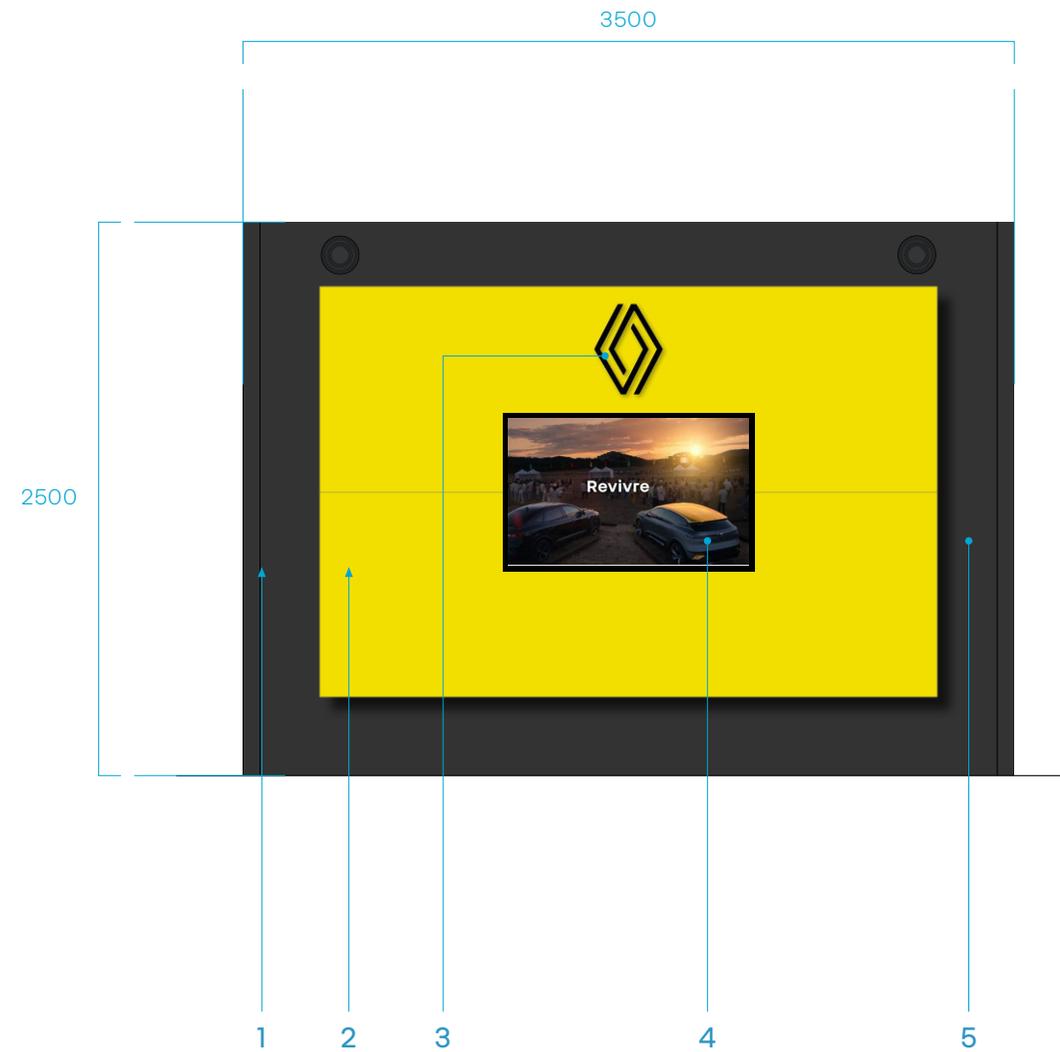
2 elements comprise the family of existing brand walls with a variation in length: 3 and 3,5 m.

The suppliers will have to make sure of the compatibility of the industrial concepts used with the existing elements.

1 Existing brand walls

2 Brand walls after retrofit

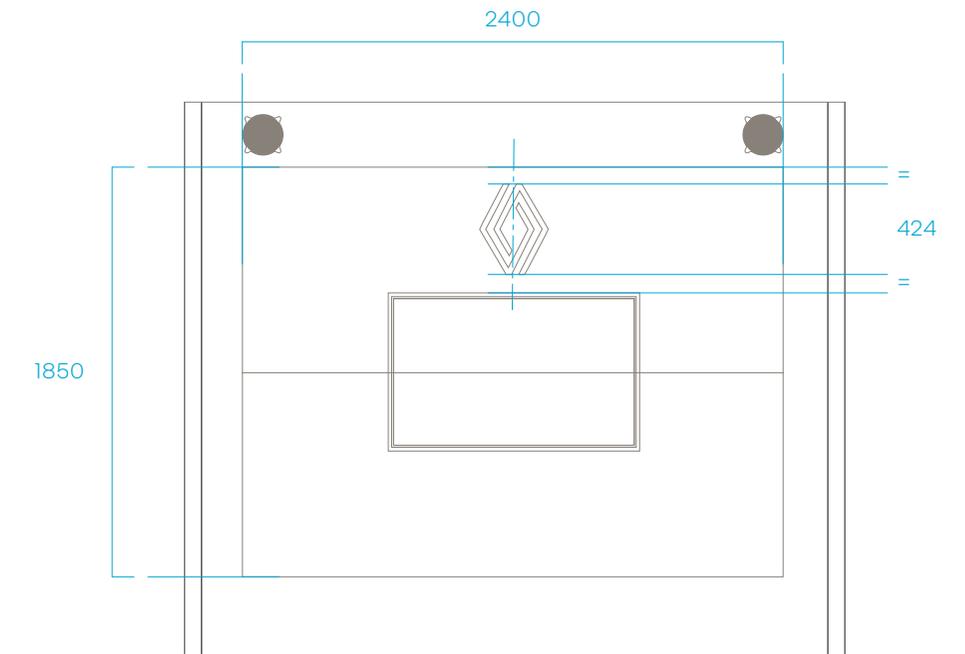
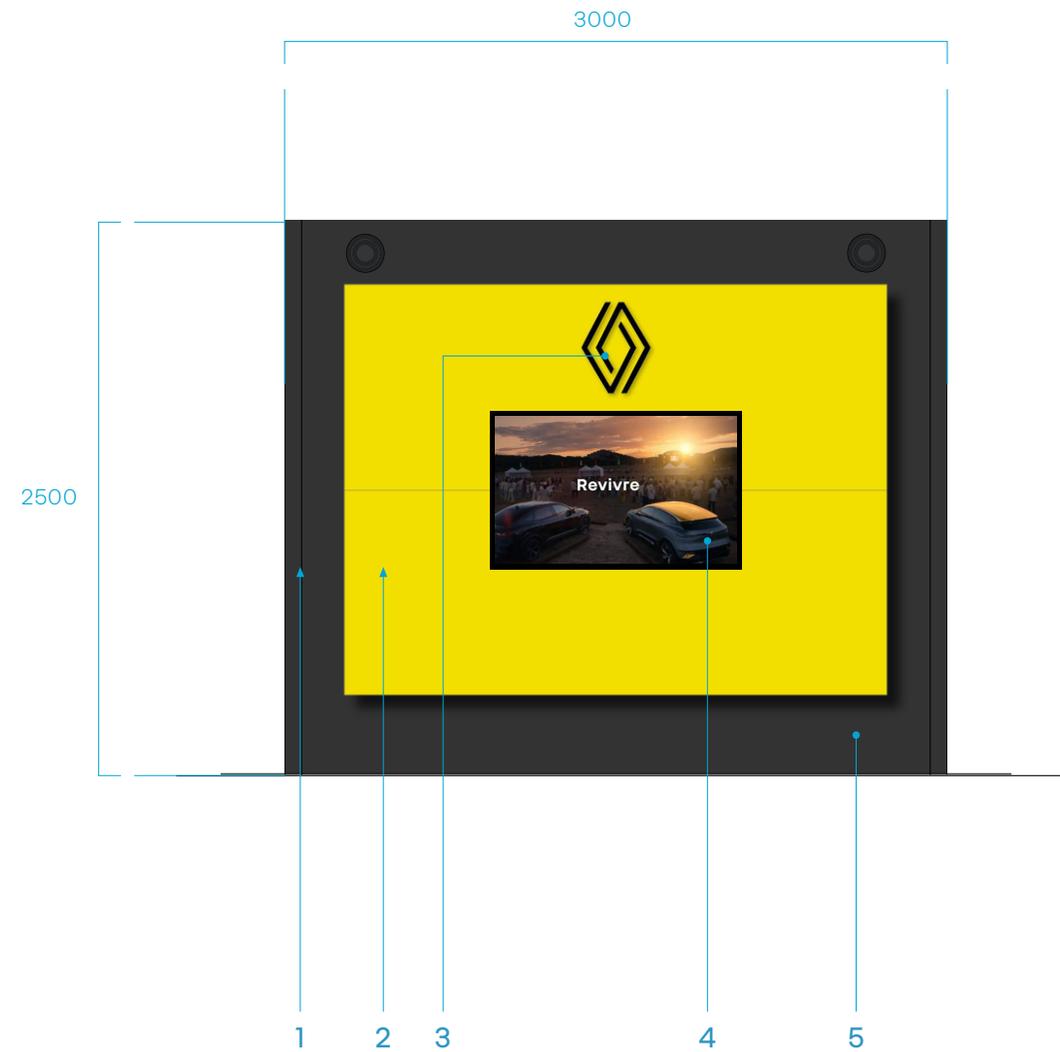
5.2 3500mm brand wall



key

- 1 Sides made with a U shape black profile
- 2 RAL 1016 yellow lacquered sheets in 40% satin finish with raised edges
3. New emblem in satin black PMMA th. 5 mm screw fixing in the yellow face.
4. TV set installed in a recess
5. Front face in black ACM or aluminium sheet.

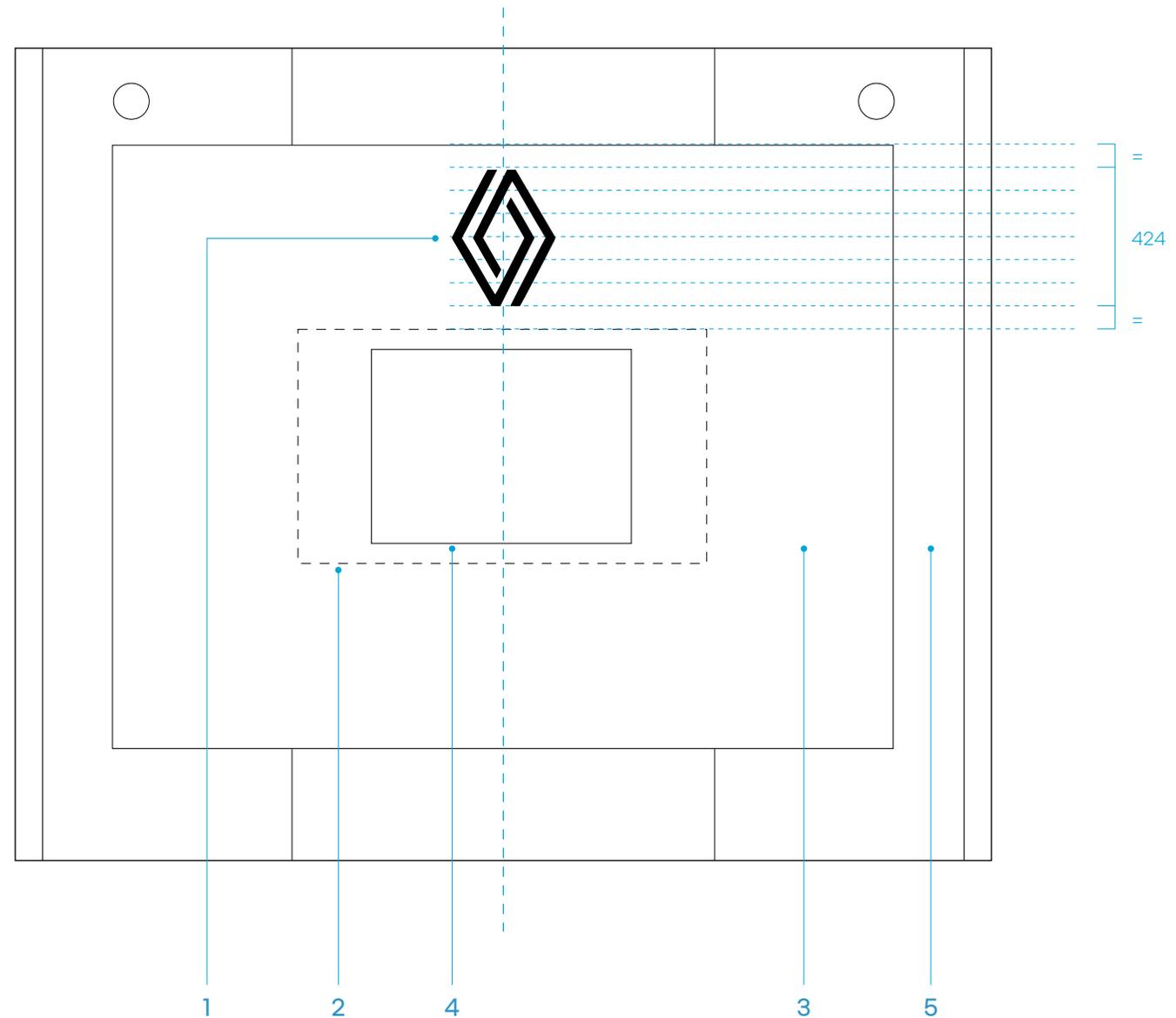
5.3 3000mm brand wall



key

- 1 Sides made with a U shape black profile
- 2 RAL 1016 yellow lacquered sheets in 40% satin finish with raised edges
- 3. New emblem in satin black PMMA th. 5 mm screw fixing in the yellow face.
- 4. TV set installed in a recess
- 5. Front face in black ACM or aluminium sheet.

5.4 outlines of new emblem on yellow face



key

1. New emblem in satin black PMMA th. 5 mm screw fixing in the yellow face.
2. TV set
3. RAL 1016 yellow lacquered sheets in 40% satin finish with raised edges
4. Recess for wires and TV bracket.
5. Flat front face in black ACM or aluminium sheet.

5.5 principle of retrofit

principle

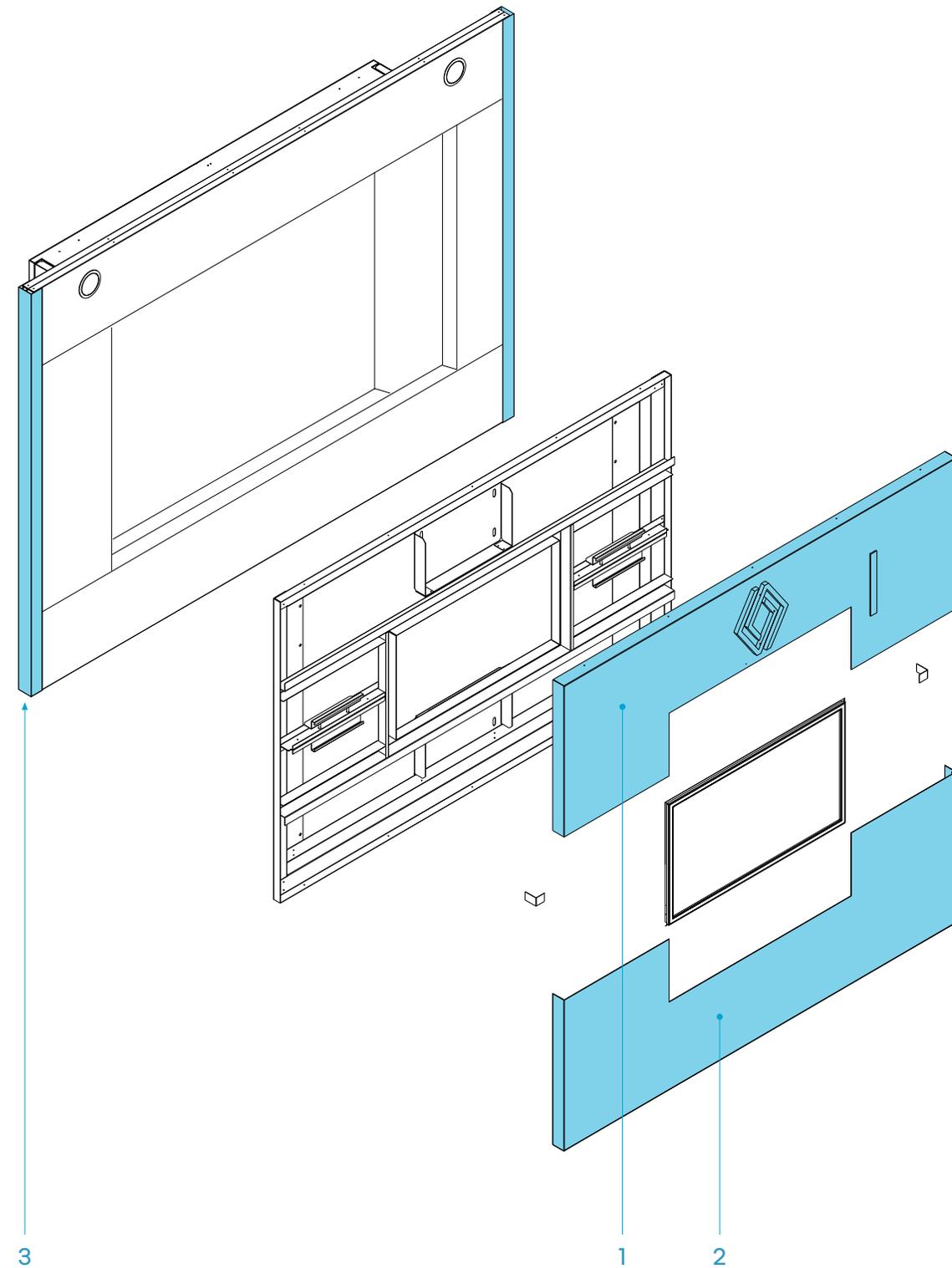
It is possible to retrofit the existing brand walls.

For this, it will be necessary to remove the yellow front faces and to replace them by RAL 1016 yellow faces with a new emblem.

The yellow adhesive strips on the sides of the brand wall have to be removed.

key

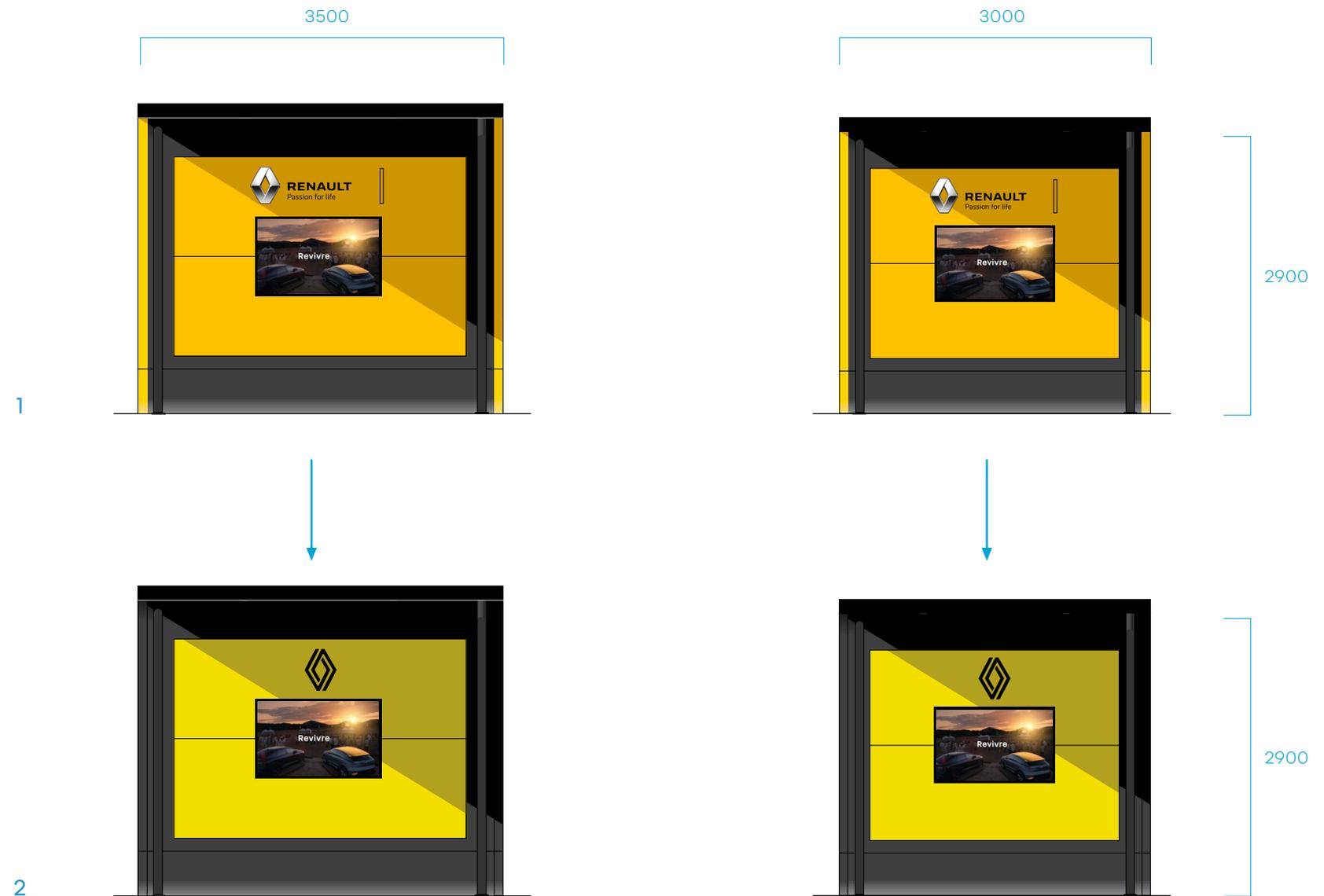
- 1 Replacing the upper yellow front face with a new face with black emblem.
- 2 Replacing the lower yellow front face.
- 3 Removing the yellow strips on the sides of the brand wall parts.



6

**technical principles
canopies retrofit**

6.1 family of elements to retrofit



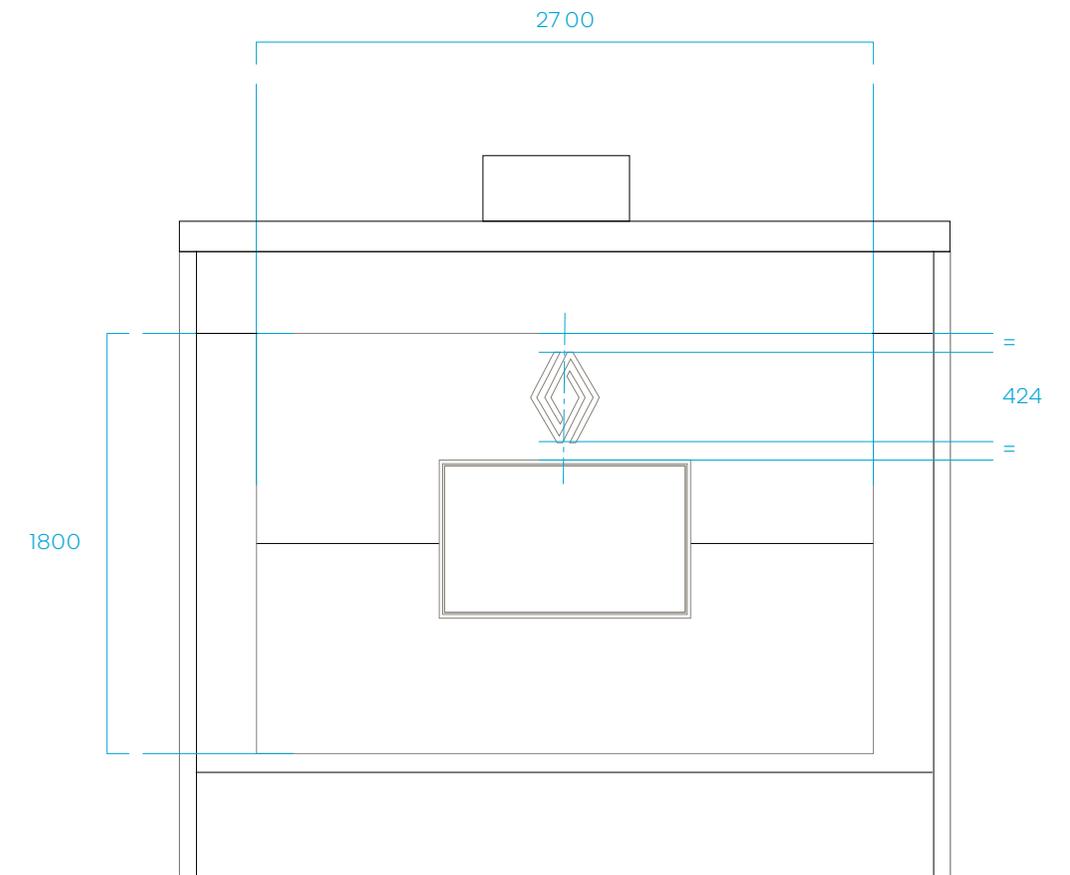
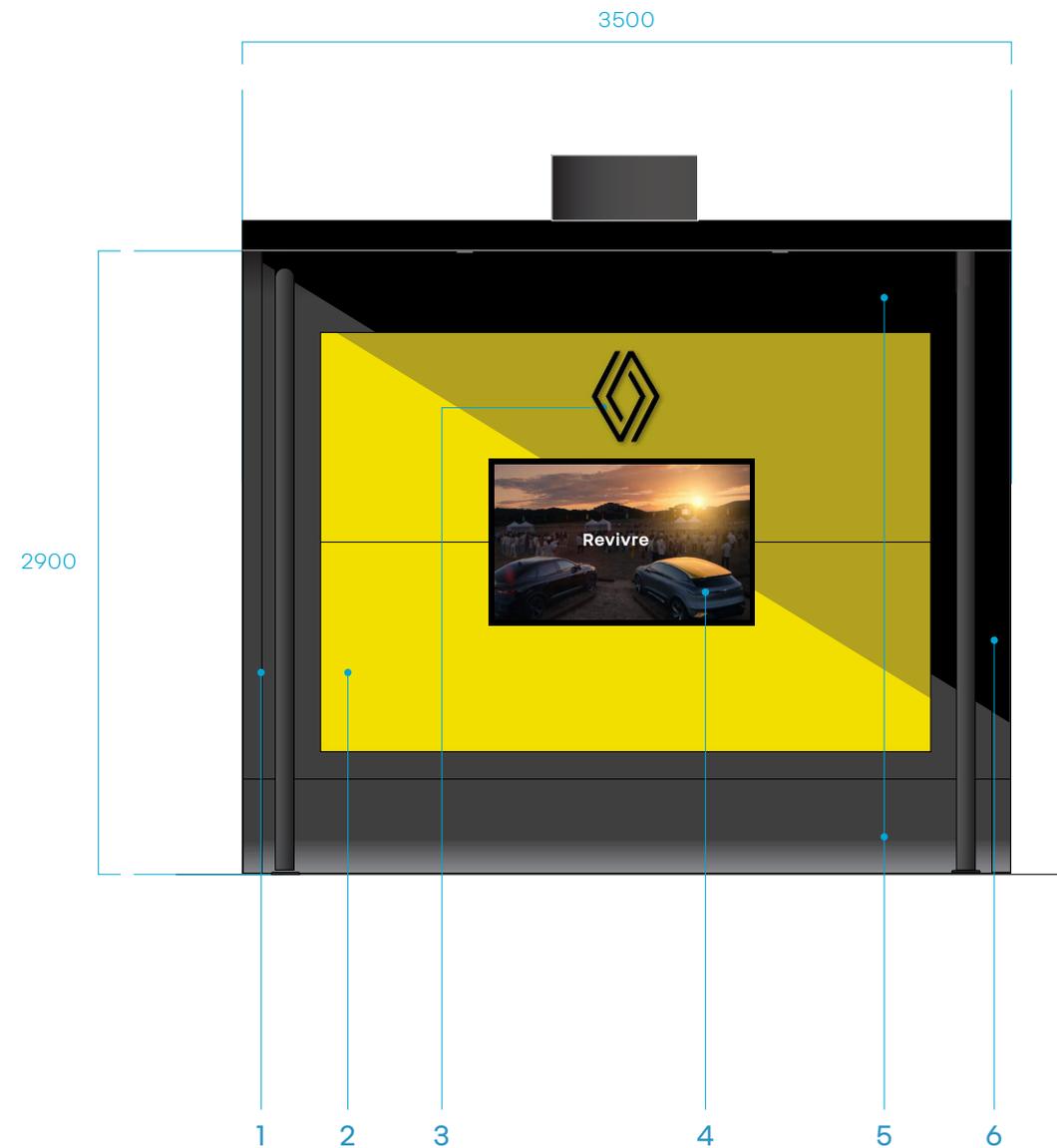
the existing canopies

2 versions comprise the family of existing brand walls integrated to canopies with a variation in length: 3 and 3,5 m.

Suppliers will have to make sure of the compatibility of the industrial concepts used with the existing elements.

- 1 Existing canopies
- 2 Canopies after retrofit

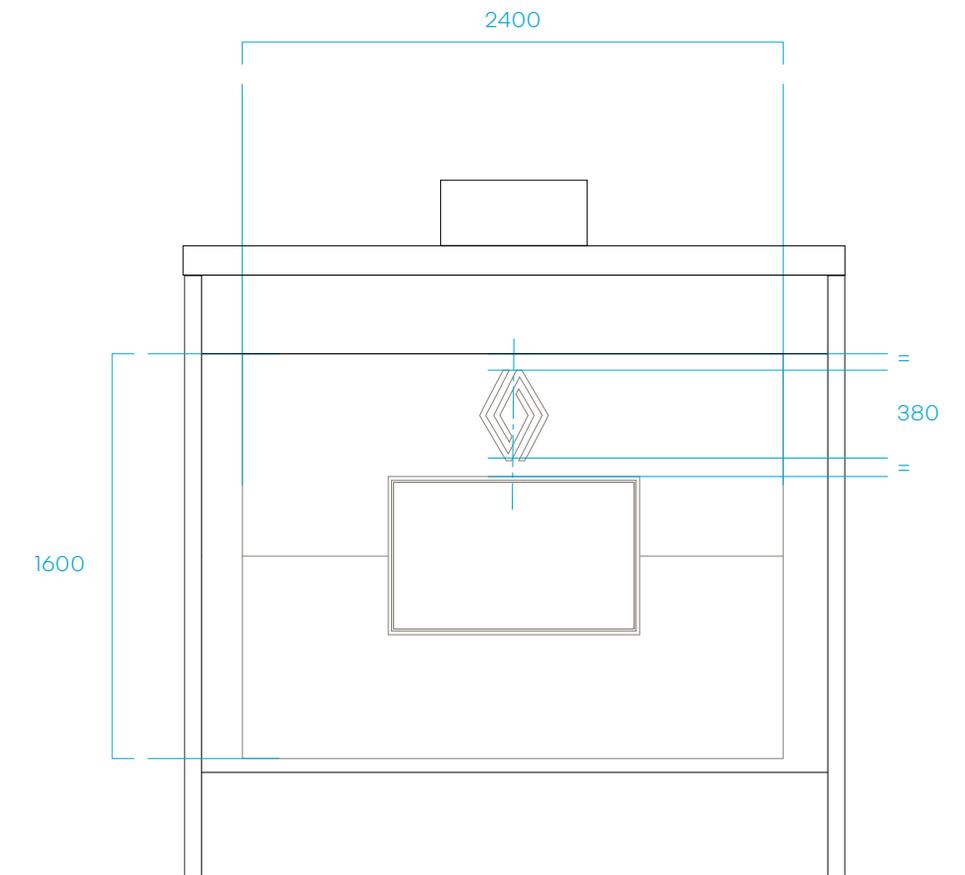
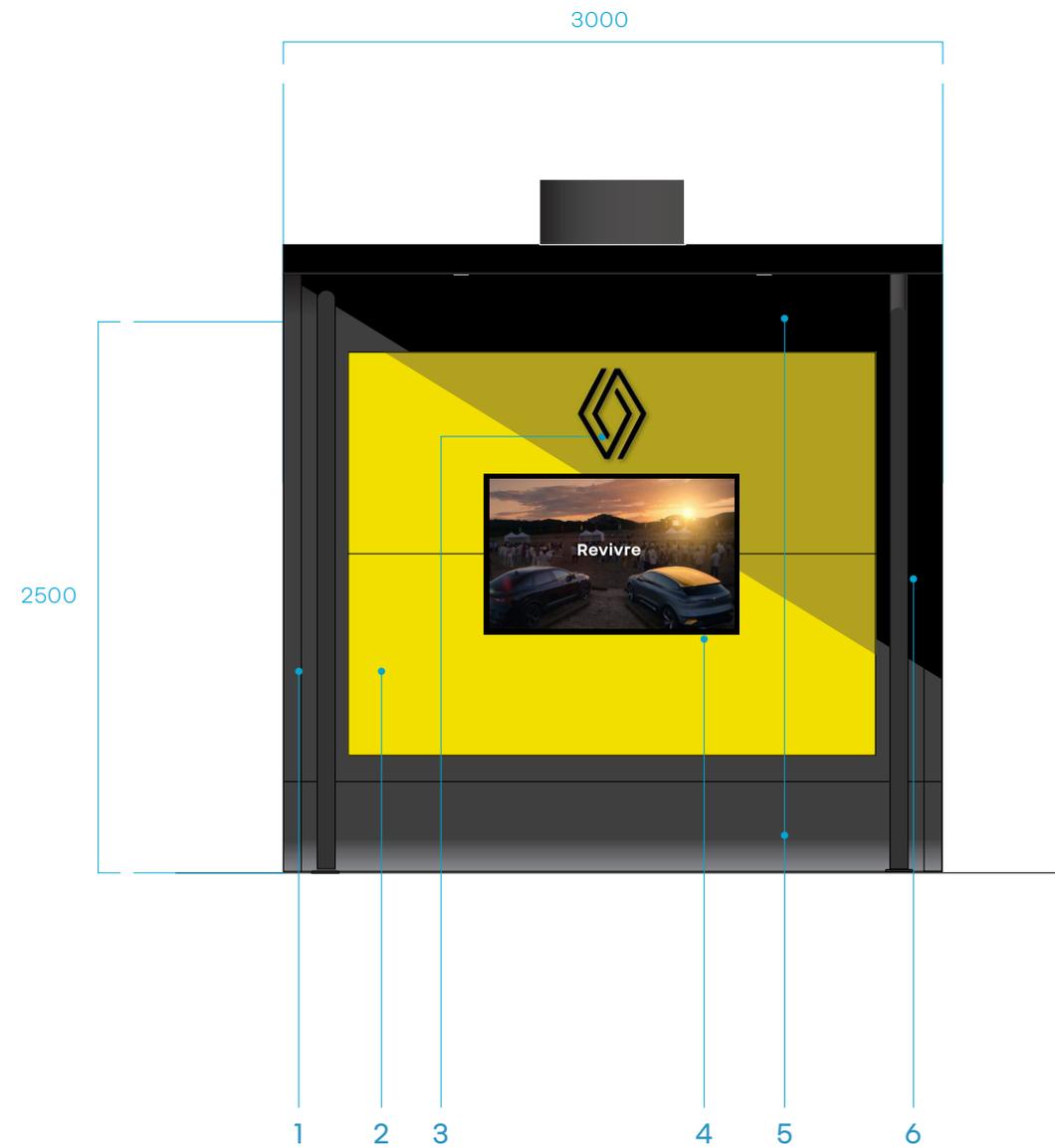
6.2 3500mm brand wall of canopy



key

- 1 Sides made with a U shape black profile
- 2 RAL 1016 yellow lacquered sheets in 40% satin finish with raised edges
3. New emblem in satin black PMMA th. 5 mm screw fixing in the yellow face.
4. TV set
5. Curved face in black ACM or aluminium sheet.
6. Flat front face in black ACM or aluminium sheet.

6.3 3000mm brand wall of canopy



key

- 1 Sides made with a U shape black profile
- 2 RAL 1016 yellow lacquered sheets in 40% satin finish with raised edges
3. New emblem in satin black PMMA th.5 mm screw fixing in the yellow face.
4. TV set
5. Curved face in black ACM or aluminium sheet.
6. Flat front face in black ACM or aluminium sheet.

6.4 principle of retrofit

principle

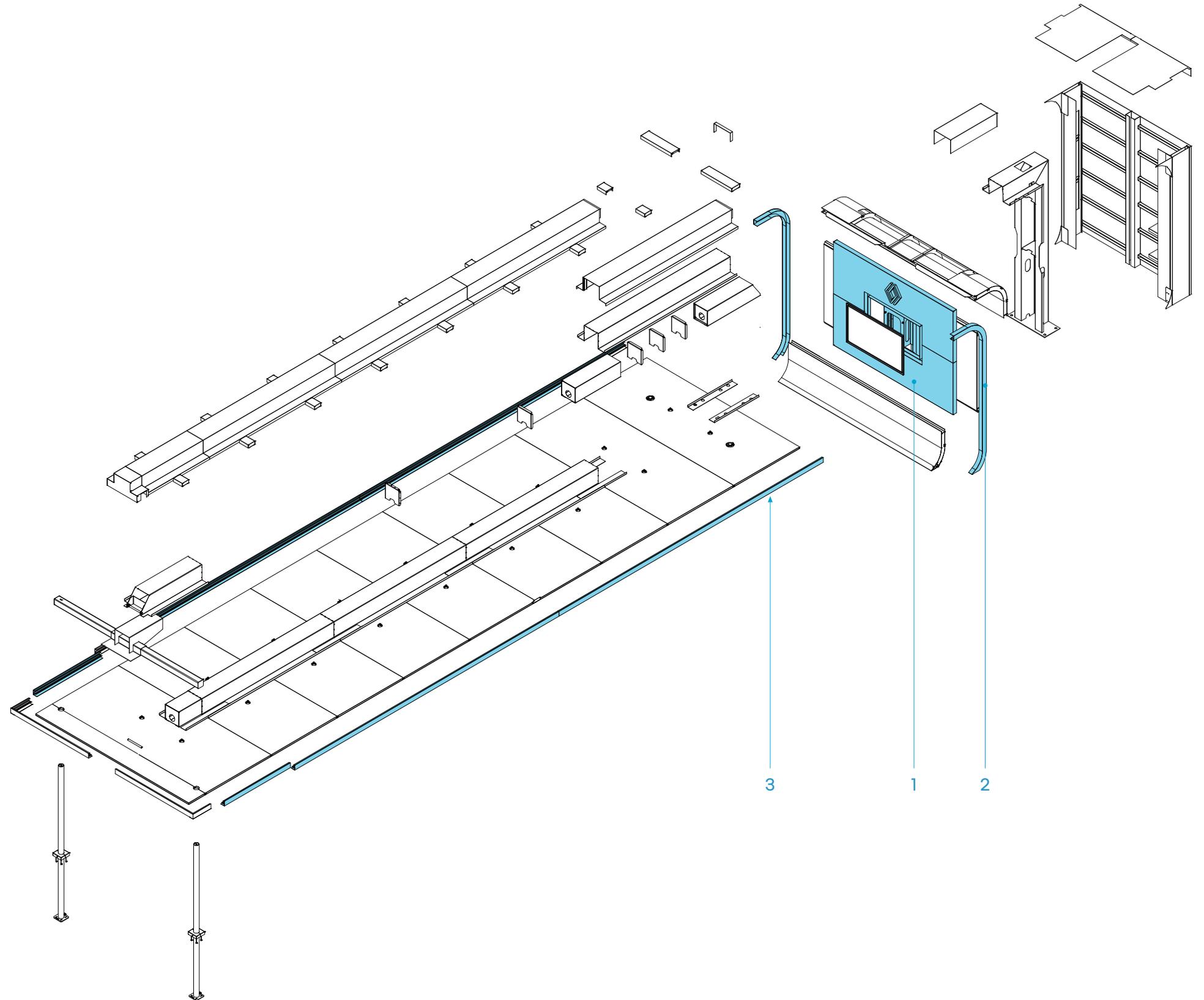
It is possible to retrofit the existing canopies.

For this, it will be necessary to remove the yellow front faces and to replace them by RAL1016 yellow faces with a new emblem.

The yellow adhesive strips on the sides (on the brand wall and on the ceiling) must be removed.

key

- 1 Replacing the yellow front faces with new faces with black emblem.
- 2 Removing the yellow strips on the sides of the brand wall parts.
- 3 Removing the yellow on the sides of the horizontal parts.



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