

Renault Store - Technical specifications



**RENAULT**  
La vie, avec passion

# The canopy and its Brand wall



# Sommaire

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## General

Introduction	4
Colours & materials	5
Signatures	6
Layout principles	8

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## Technical principles

General description	11
Brand Wall - Canopy 3500	18
Canopy 3500	20
Brand Wall - Canopy 3000	24
Canopy 3000	26
Multimedia unit and screen	30
Power supply diagram for IT equipment	31
Upper section cladding	33
Lighting	38
Ground markings	39

# General



## Introduction

The canopy is the central element of the Renault Store.

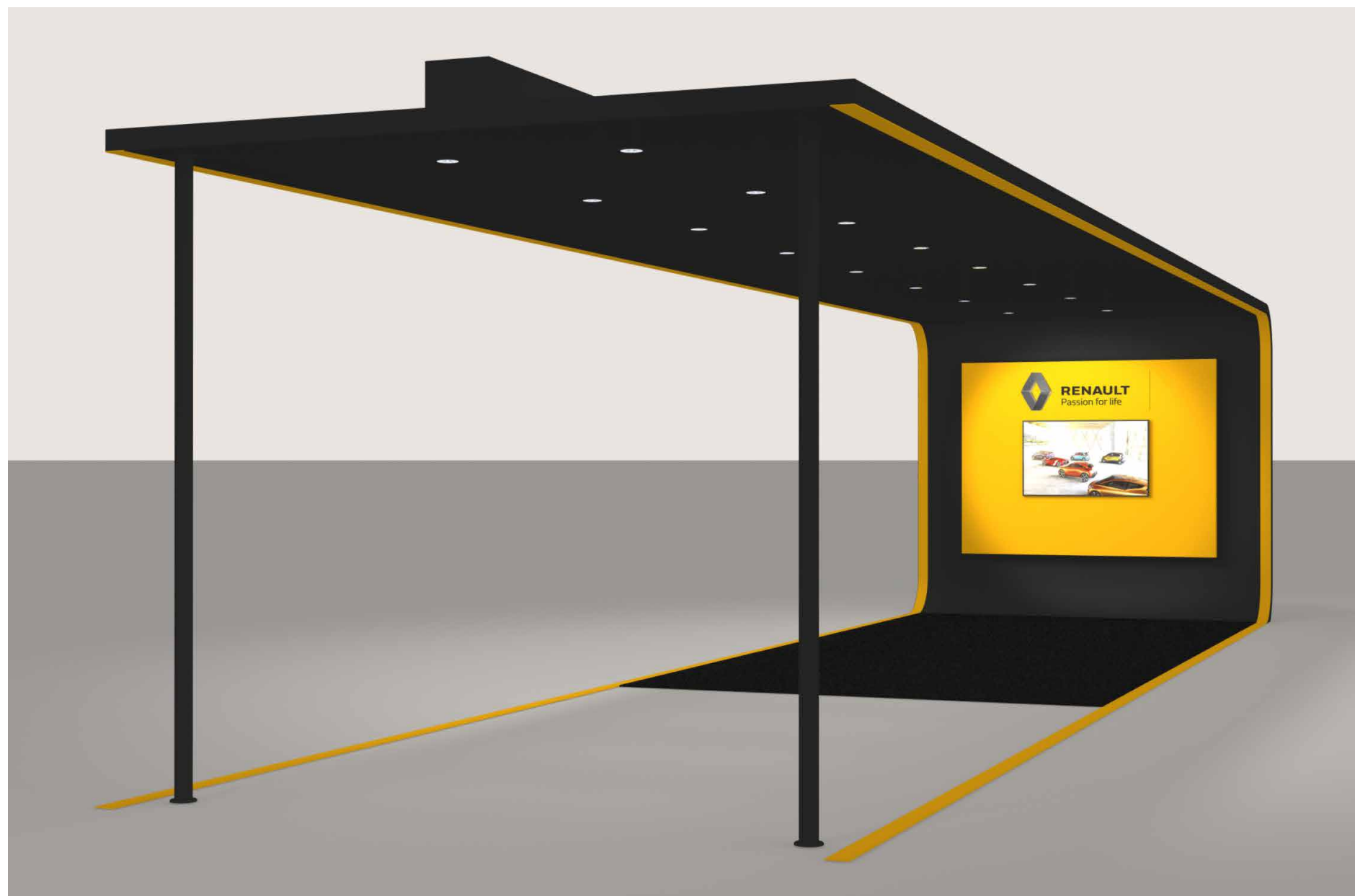
For the customer, it symbolises the entry into the Renault Brand, and it structures the space in such a way as to draw the customer towards the bar and the lounge area.

Its design allows the height of the ceiling to be brought down closer to head-height creating a friendly feel as soon as you enter the showroom.

It is a point of reference which structures the space and symbolises the «Renault Road» which organizes the showroom into two sections and establishes a link with the thematic zones.

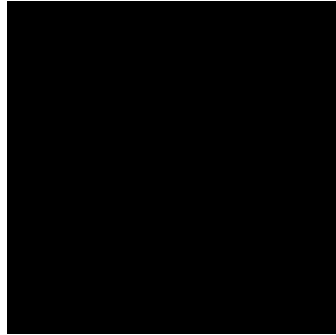
The canopy is to be installed opposite the main entrance.

It comes in two widths and five lengths potentially and features specific lighting, a yellow Brand wall, a screen and a set of ground markings.





## Colours & materials



### **RAL 9005 Matt Black**

(2 % gloss)

- Composite panel with honeycomb structure in M1 aluminium
- Lacquered aluminium
- Lacquered Alucobond
- Black adhesive
- Lettering cut out in satin finish lacquered PMMA



### **Pantone yellow 7408 EC**

- Hexis adhesive for wall
- Lacquered aluminium for wall
- MacTap Street Rap adhesive for use on floor
- Yellow signature strip

### **Typeface**

Renault Life



### **Chrome**

- The diamond emblem of the signature

## Signatures

- 1 International signature
- 2 Signature used in France



## Modularity principles

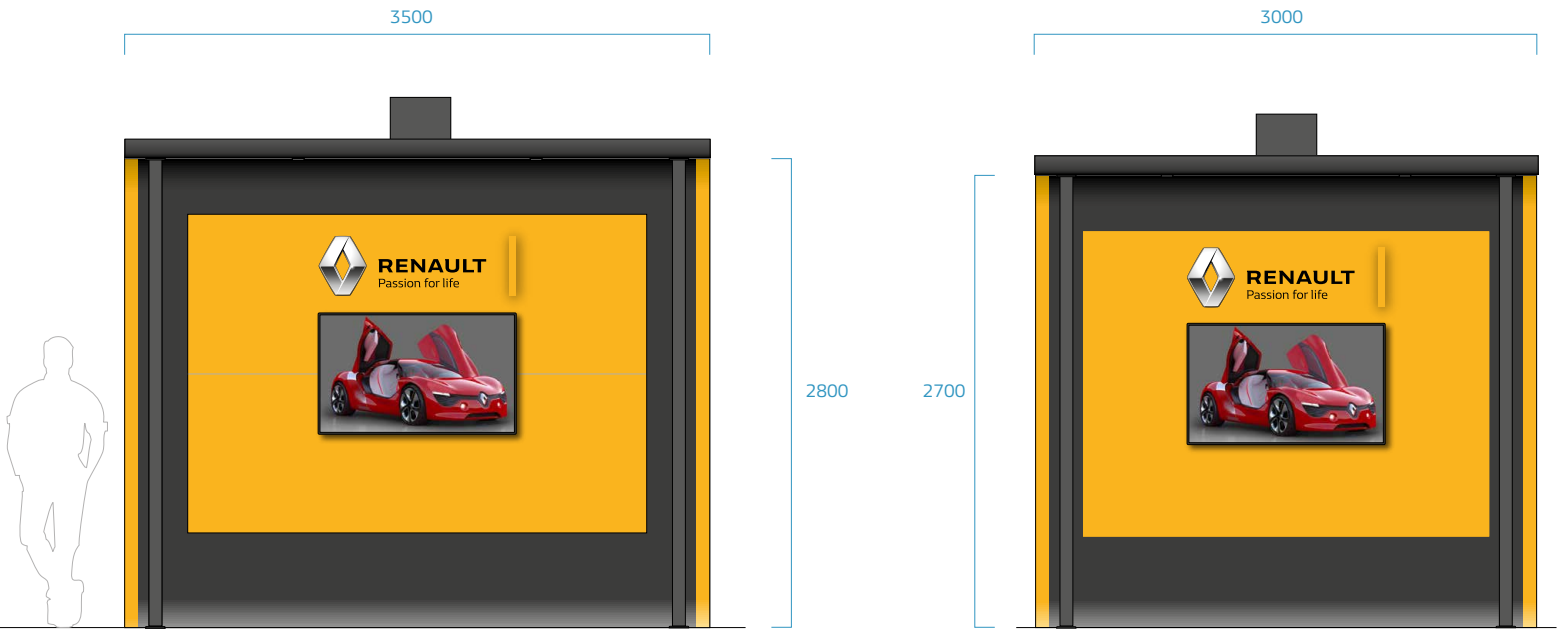
The canopies come in two standard widths: 3,000 and 3,500 mm.

Their length varies in modular increments of 1,500 mm, so that they can be adapted to the different showroom formats and sizes.

The minimum length is 9,000 mm, reserved for the 3,000 mm wide canopy.

The maximum standard length is 15,000 mm.

The screens on the yellow wall are 55" for both models.



MODELS	9000	10500	12000	13500	15000
Number of models	5	6	7	8	9
3,000 mm canopy	●	●	●	●	●
3,500 mm canopy		●	●	●	●

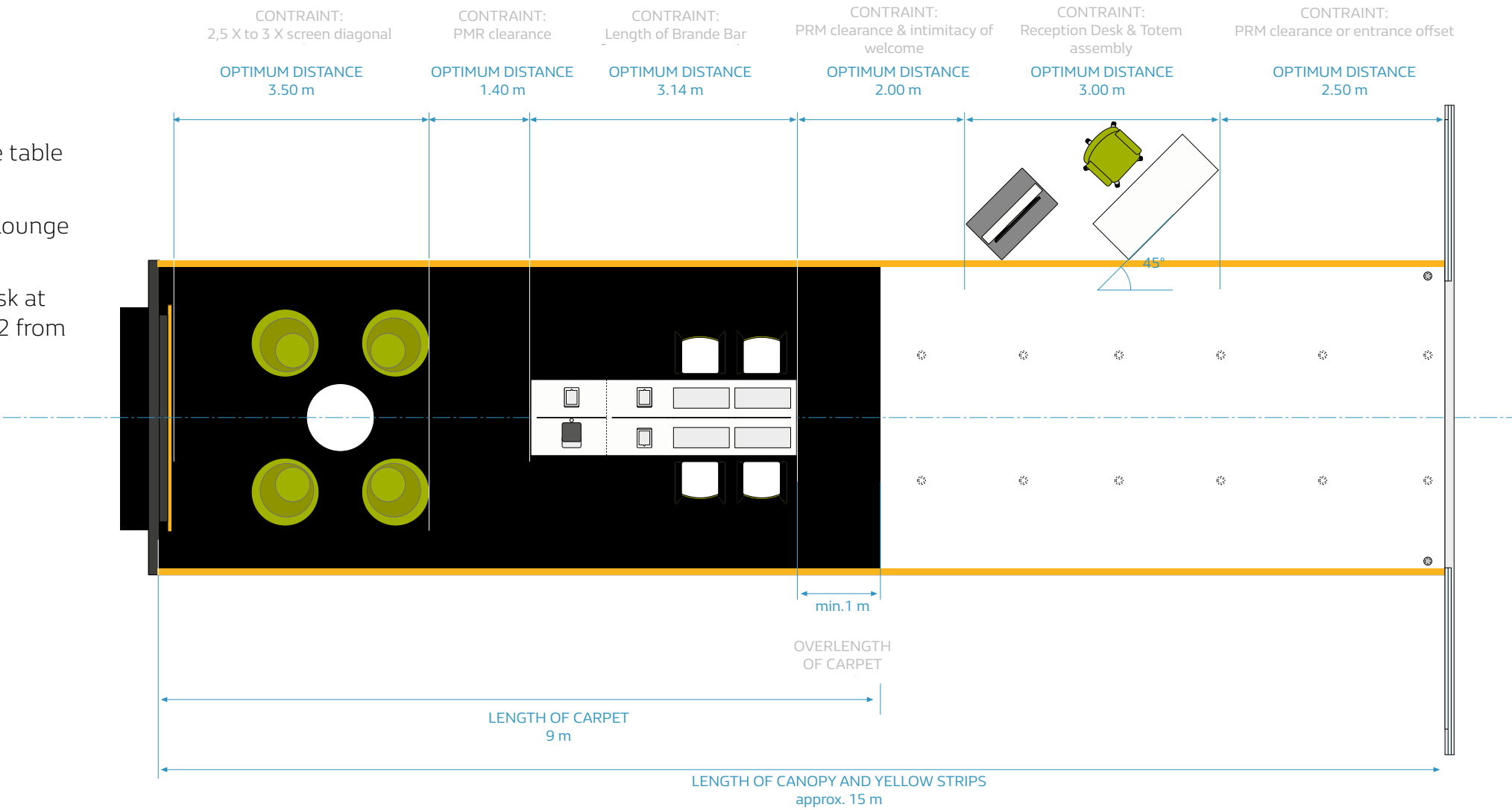
Note: The canopy extension is 1,500 mm in length

# Layout principles

The canopy shall always be installed opposite the main entrance of the showroom.

## Example of a 15 m canopy

- **Lounge**  
Arrange the armchairs around the coffee table
- **Bar de marque**  
Position the Brand Bar 1.40m from the Lounge
- **Totem et pupitre**  
Position the totem and the reception desk at 45° to the canopy, and at a minimum of 2 from the Brand bar





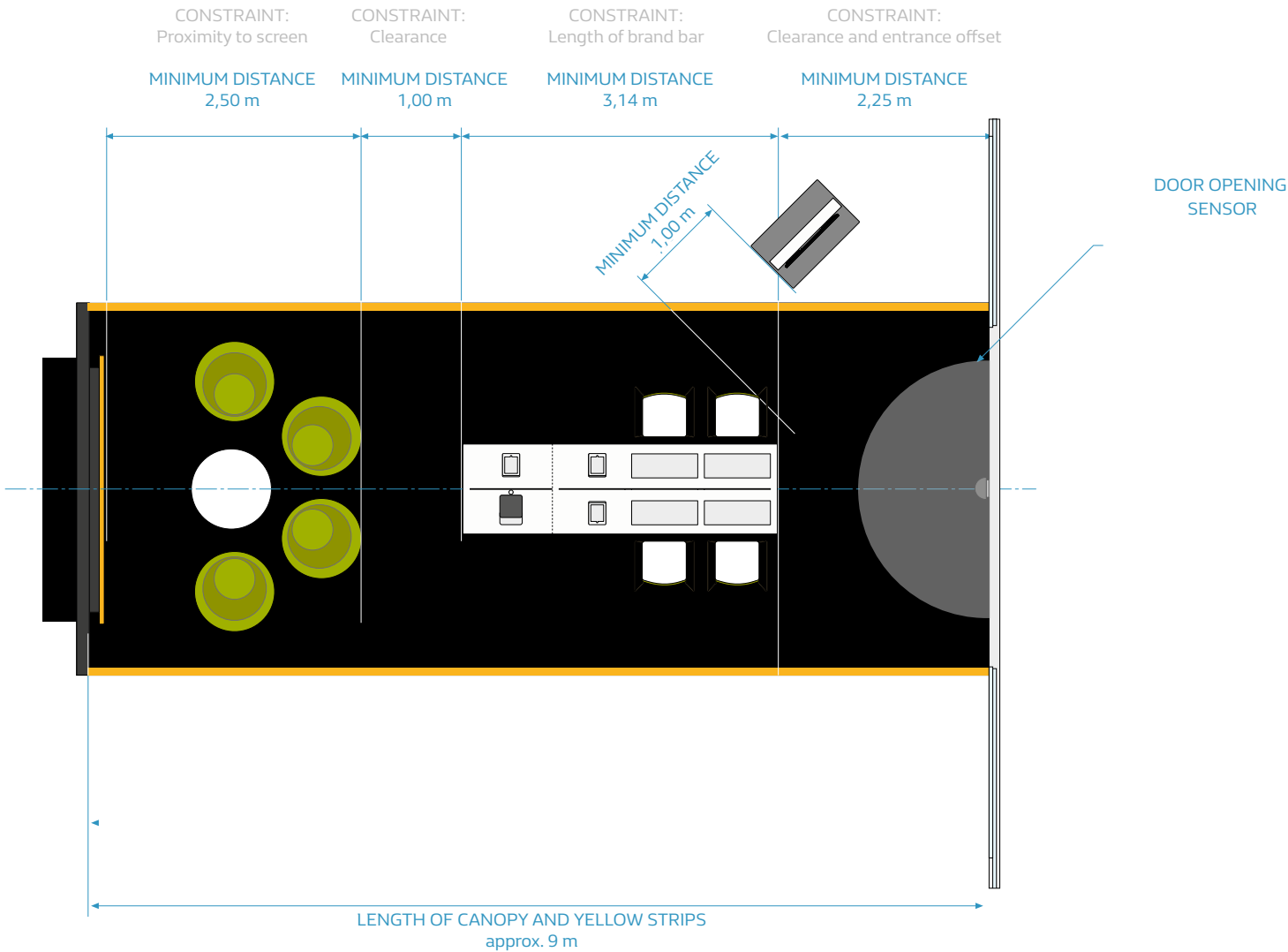
# Layout principles

The canopy shall always be installed opposite the entrance of the showroom.

## Example of a 9 m canopy

- **Lounge**  
Arrange armchairs facing screen
- **Brand bar**  
Reduce distance between Lounge and Brand bar to 1 m
- **Totem and reception desk**  
Position the totem and the reception desk at 45° to the canopy, and at a minimum of 2 from the Brand bar
- **Carpet**  
The carpet may be extended to the door in order to gain in consistency. However, if a doormat is present, the carpet shall be terminated at a minimum distance of 1 m from the Brand bar.

Note  
In case of automatic doors, do not forget to leave the sensing area clear for the opening sensor.

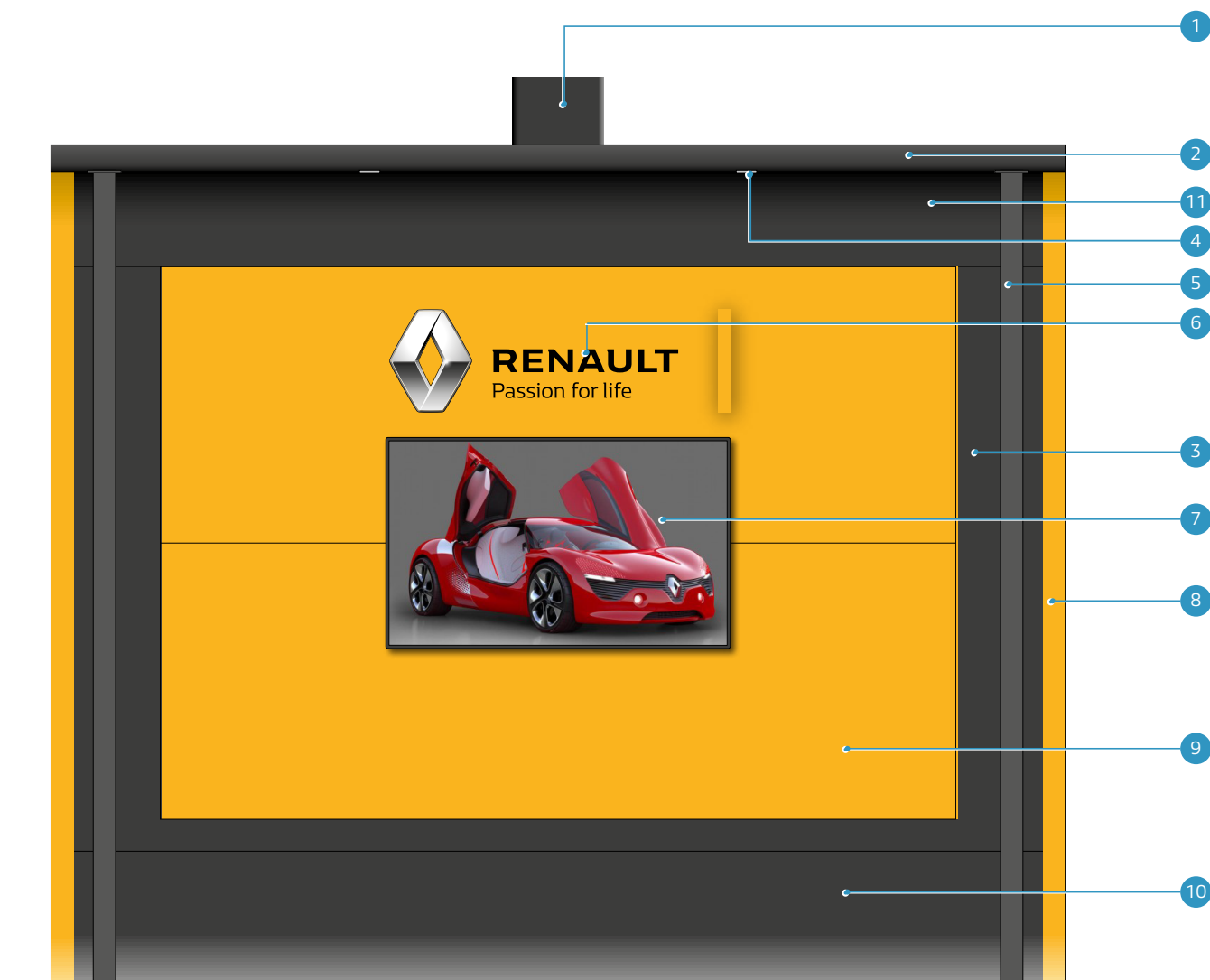


# Technical principles



## General description

- 1 **Structural beam**
- 2 **Canopy front (affixed to showroom entrance façade)**
- 3 **Composite panels**  
Aluminium honeycomb structure  
Front and underside in Matt black lacquered aluminium
- 4 **Embedded** LED lights, dia. 60 mm  
Chrome surrounds T. 3500 ° K IRC > 90
- 5 **Ground** attachment posts  
matt black lacquered steel, dia. 100 mm
- 6 **Brand signature**  
Diamond in injection-moulded ABS with polished gloss chrome finish  
«RENAULT» in PMMA, thk. 6 mm, matt black  
«Passion for life» in PMMA, thk. 4 mm, matt black,  
Strip, 6 mm thick, satin-finish PMMA in Pantone yellow 7408 fastened with double-sided adhesive and studs
- 7 **55" LED screen (not supplied)**
- 8 **Aluminium profile**  
Renault colour Hexis adhesive yellow line
- 9 **Yellow front panel**  
Aluminium sheet comprising four raised edges  
fastened to a Pantone 7408 EC yellow lacquered aluminium framework
- 10 **Curved sections**  
Composite panels finish same as ceiling



# General description

## Principle

The canopy is made up of composite panels of 1,500 m in length enabling the length of the canopy to be varied from 9,000 to 15,000 mm long.

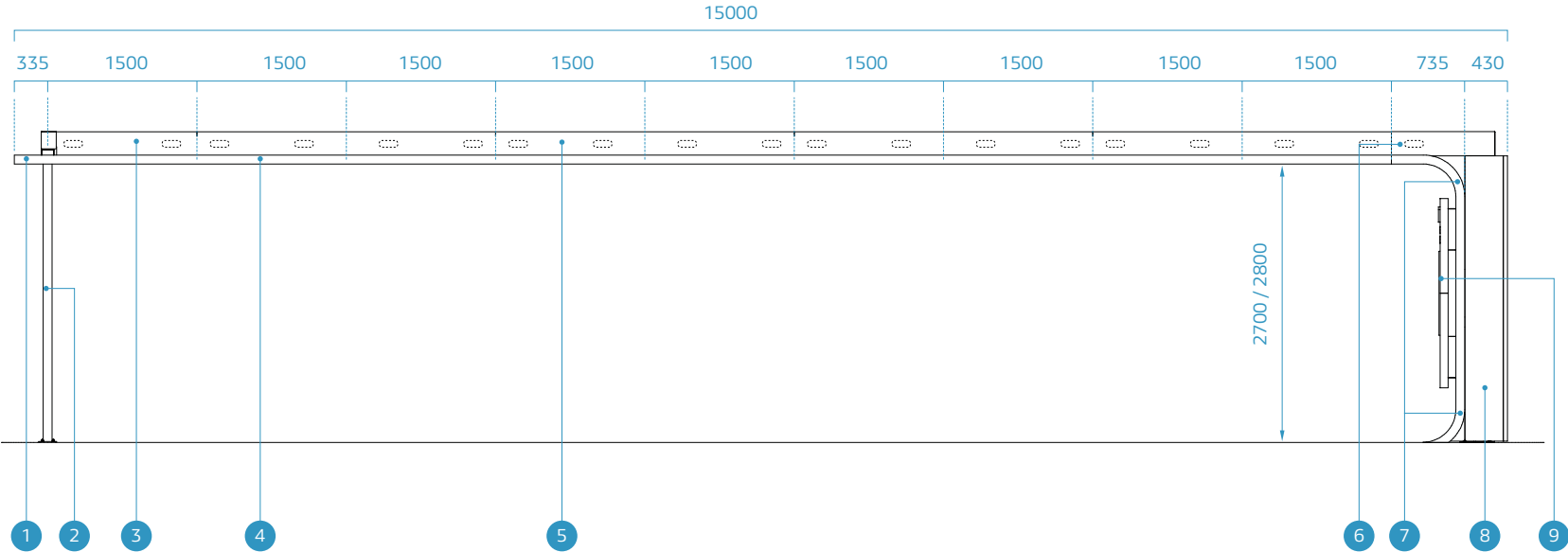
The M1 composite panels meet ERP standards and they feature built-in lighting.

The load-bearing frame comprises an omega-shaped central beam fastened to the ground by an attachment plate at the rear, and two posts attached to a cross-beam at the front.

The beam (visible from a distance) is finished with cladding.

## Key

- 1 Composite end panel
- 2 Ground attachment posts
- 3 Frame component, length 1,500 mm
- 4 Composite panel, length 1,500 mm
- 5 Frame component, length 3,000 mm
- 6 Frame component connected at a 90° angle to the load-bearing attachment plate
- 7 Curved panels
- 8 Rear section cladding comprising an access hatch for IT equipment
- 9 Brand wall incorporating communications signature and screen





## General description

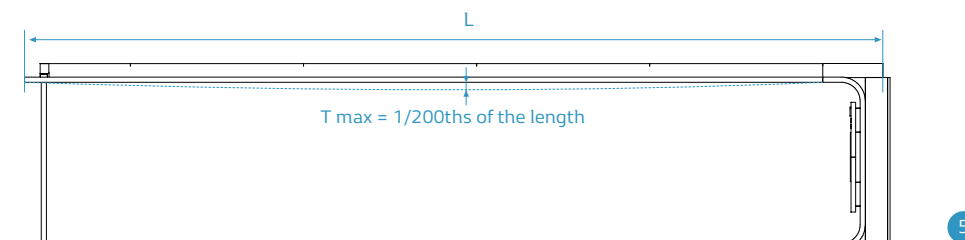
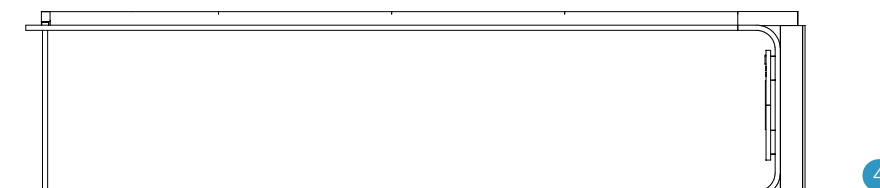
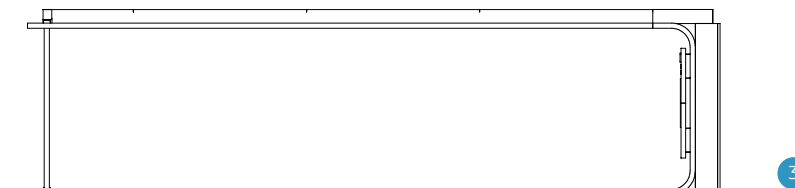
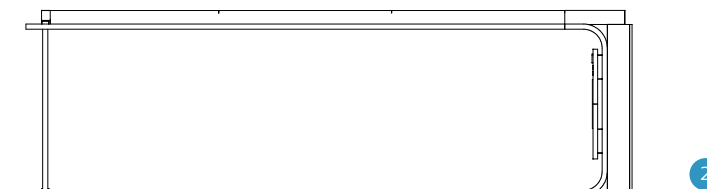
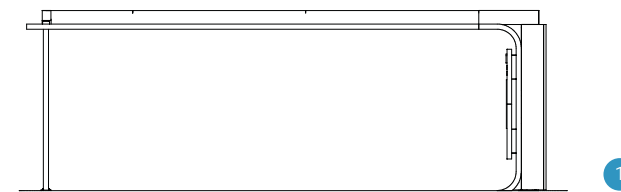
### Tolerance of the structure

The structure of the canopy is common to all the canopies.

It must be sized so that the maximum flexion observed on the 15,000 mm canopy shall not exceed 1/200ths of the length of the structure, equivalent to approx. 3 cm for the longest canopy.

### Key

- ① 9,000 mm canopy
- ② 10,500 mm canopy
- ③ 12,000 mm canopy
- ④ 13,500 mm canopy
- ⑤ 15,000 mm canopy



## General description

### Beam cladding

The galvanized steel horizontal frame is cladded with aluminium sheeting covers in a matt black finish.

### Rear cladding

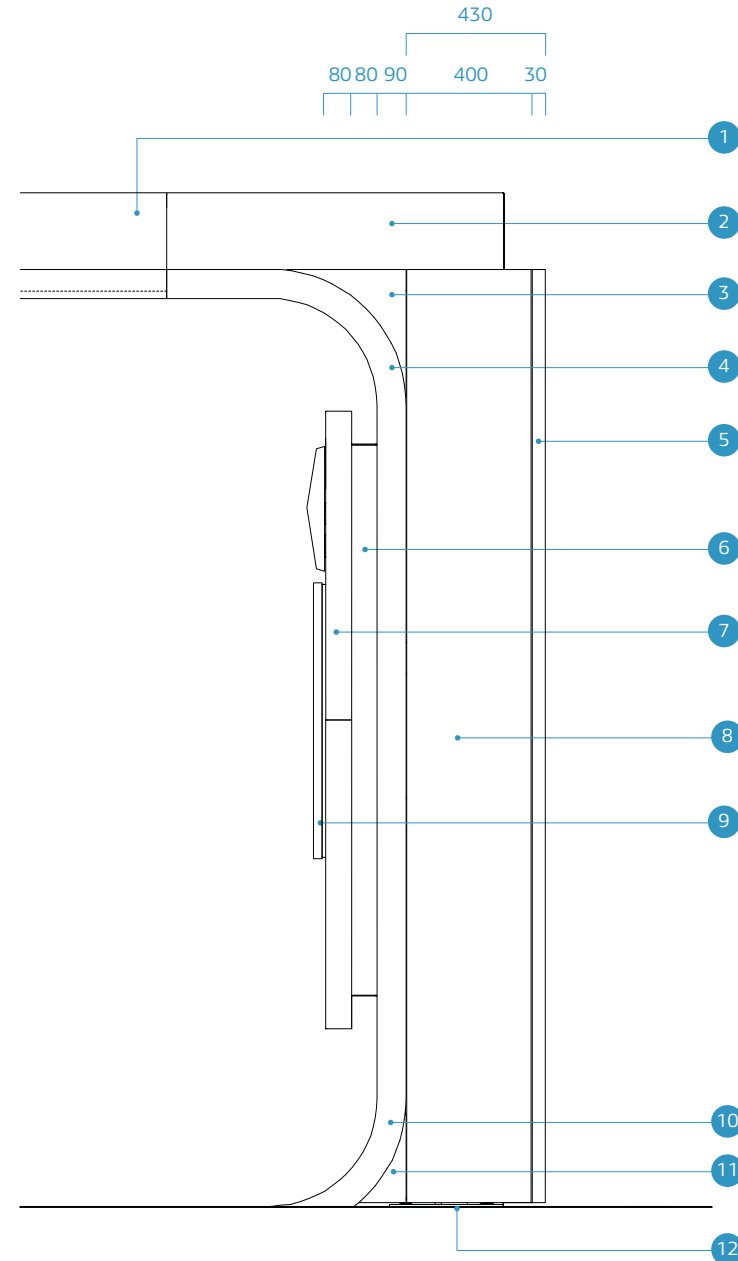
The galvanized steel vertical frame is cladded at the rear with an enclosure of the following dimensions:  
H. 2,800 x L 2,500 x thk. 430 mm.

### Access hatch

A lateral hatch is installed to provide access to IT equipment.  
It features a locking mechanism. It is 400 mm in width and gives direct access to equipment mounted on a shelf.

### Key

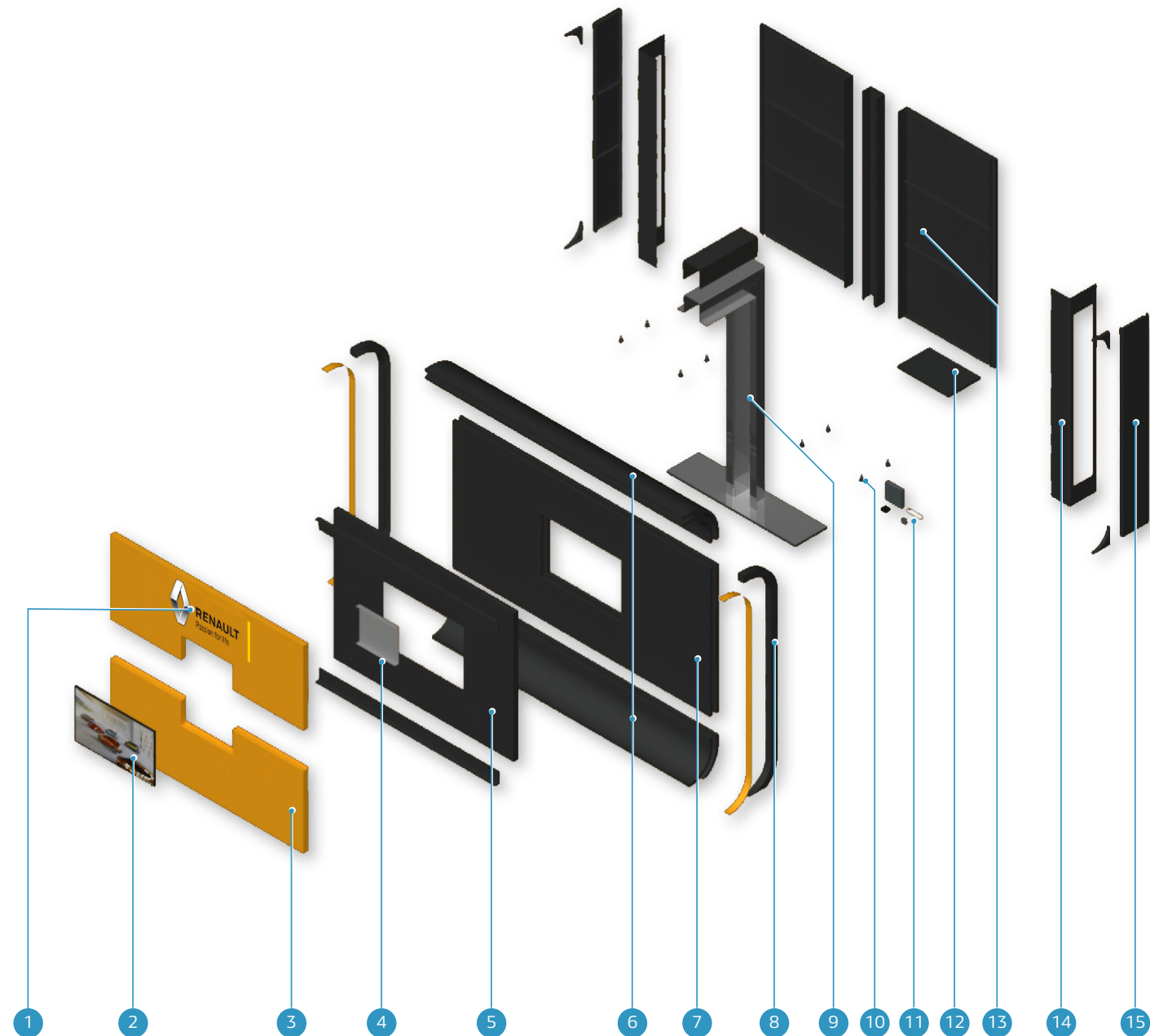
- ① Horizontal beam
- ② Beam cladding
- ③ Side cladding panel
- ④ Upper curved panel
- ⑤ Rear cladding panel
- ⑥ Rear cladding for the brand wall
- ⑦ Yellow Brand wall
- ⑧ IT equipment access door
- ⑨ Screen
- ⑩ Lower curved panel
- ⑪ Side cladding panel
- ⑫ Canopy attachment plate



## General description

### Exploded view of Brand wall

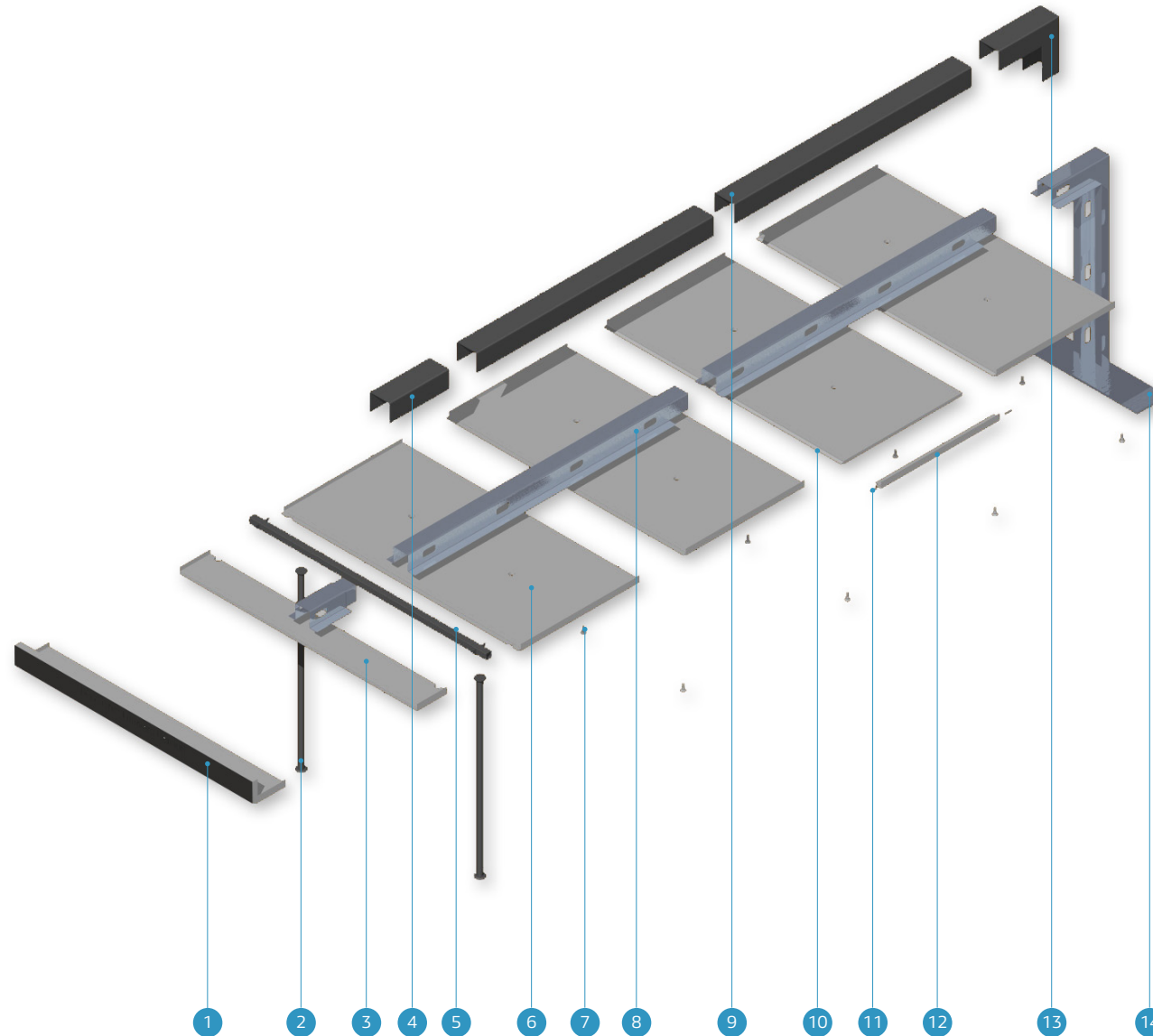
- 1 Brand signature  
Diamond in injection-moulded ABS with polished gloss chrome finish  
«RENAULT» in PMMA, thk. 6 mm, matt black  
«Passion for life» in PMMA, thk. 4 mm, matt black,  
Strip, 6 mm thick, satin-finish PMMA in Pantone yellow 7408 fastened  
with double-sided adhesive and studs
- 2 55" screen (not supplied)
- 3 Aluminium sheet comprising four raised edges fastened to an  
aluminium supporting structure
- 4 Screen bracket
- 5 Mounting frame  
Matt black lacquered aluminium sheet
- 6 Curved composite panels  
M1 honeycomb structure  
Aluminium panel yellow adhesive trim L. 80 mm
- 7 Flat composite panel  
M1 honeycomb structure  
Aluminium panel yellow adhesive trim L. 80 mm
- 8 Aluminium profiles L. 90 mm
- 9 300 x 300 mm omega-shaped galvanized steel section
- 10 Height-adjustable feet
- 11 IT equipment
- 12 IT equipment shelf
- 13 Rear panels  
Matt black lacquered aluminium sheet, horizontal reinforcements
- 14 Interior cladding panel, matt black lacquered aluminium sheet
- 15 IT equipment access door, matt black lacquered aluminium sheet



## General description

### Exploded view of canopy

- 1 Gable (optional on derogation from region and Brand Stores)  
Curved composite panel. Adhesive branding
- 2 Ground attachment posts in matt black lacquered steel, dia. 90 mm
- 3 Composite panel, length 400  
M1 honeycomb structure  
Front and underside in matt black
- 4 Beam cladding  
Matt black lacquered aluminium
- 5 120 x 120 mm steel cross-beam, matt black lacquered aluminium
- 6 Composite panel, length 1500  
M1 honeycomb structure  
Front and underside in matt black
- 7 Embedded lights, dia. 60 mm
- 8 300 x 300 mm omega steel section, base length 3,000 mm. Matt black finish
- 9 Beam cladding. Black lacquered aluminium
- 10 Composite panel alignment joint bar
- 11 Profile alignment joint bar
- 12 Aluminium edge profile, height 90 mm matt black lacquered, yellow adhesive trim L. 80 mm
- 13 Beam angle cladding  
Matt black lacquered aluminium
- 14 300 x 300 mm omega steel section, stainless steel finish fastened to a steel attachment plate





## General description - Cross sections

### Screen

The screen is offset (protruding) from the wall.

### Brand wall offset

The yellow brand wall is offset from the front of the canopy by 80 mm.

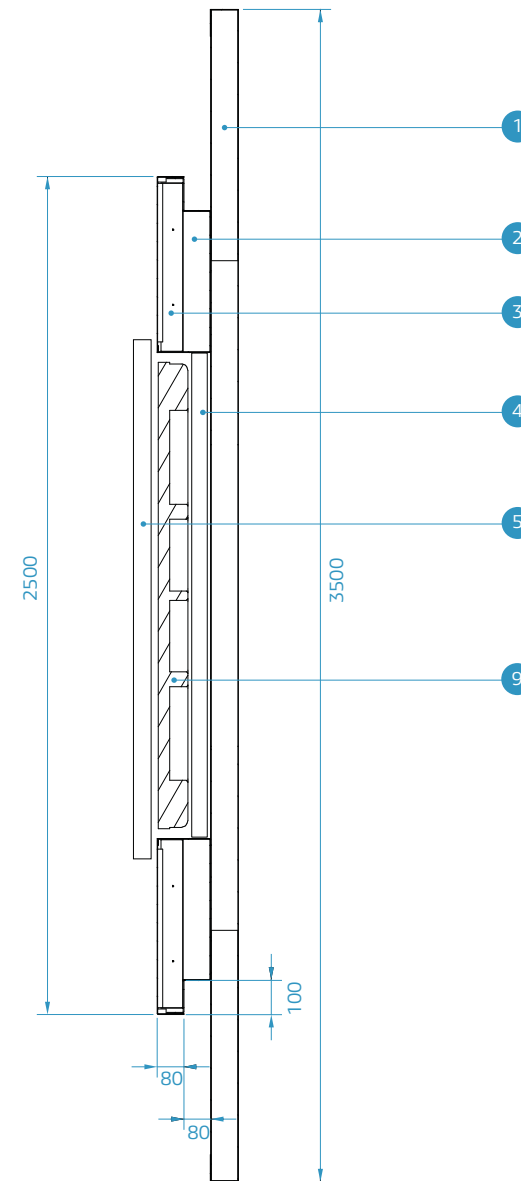
A 100 mm gap runs around the edge.

### Vertical section of the canopy

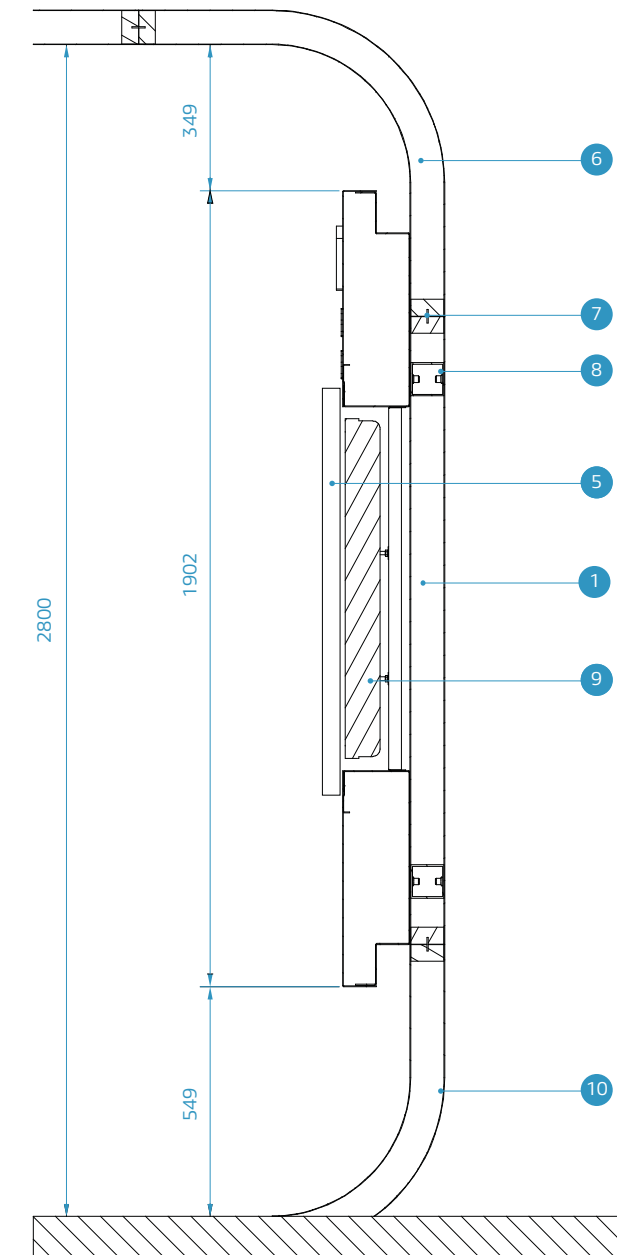
It comprises three sub-sections: the upper curved section, the flat intermediary section including a window, and the lower curved section.

### Key

- ① Intermediary composite panel
- ② Brand wall offset part
- ③ Brand wall cladding
- ④ Window (screen fitting)
- ⑤ Screen
- ⑥ Upper curved panel
- ⑦ Joint bar
- ⑧ Profile to attach cladding
- ⑨ Screen bracket
- ⑩ Lower curved panel



Overhead cross-section



Side cross-section

# Brand Wall - Canopy 3500

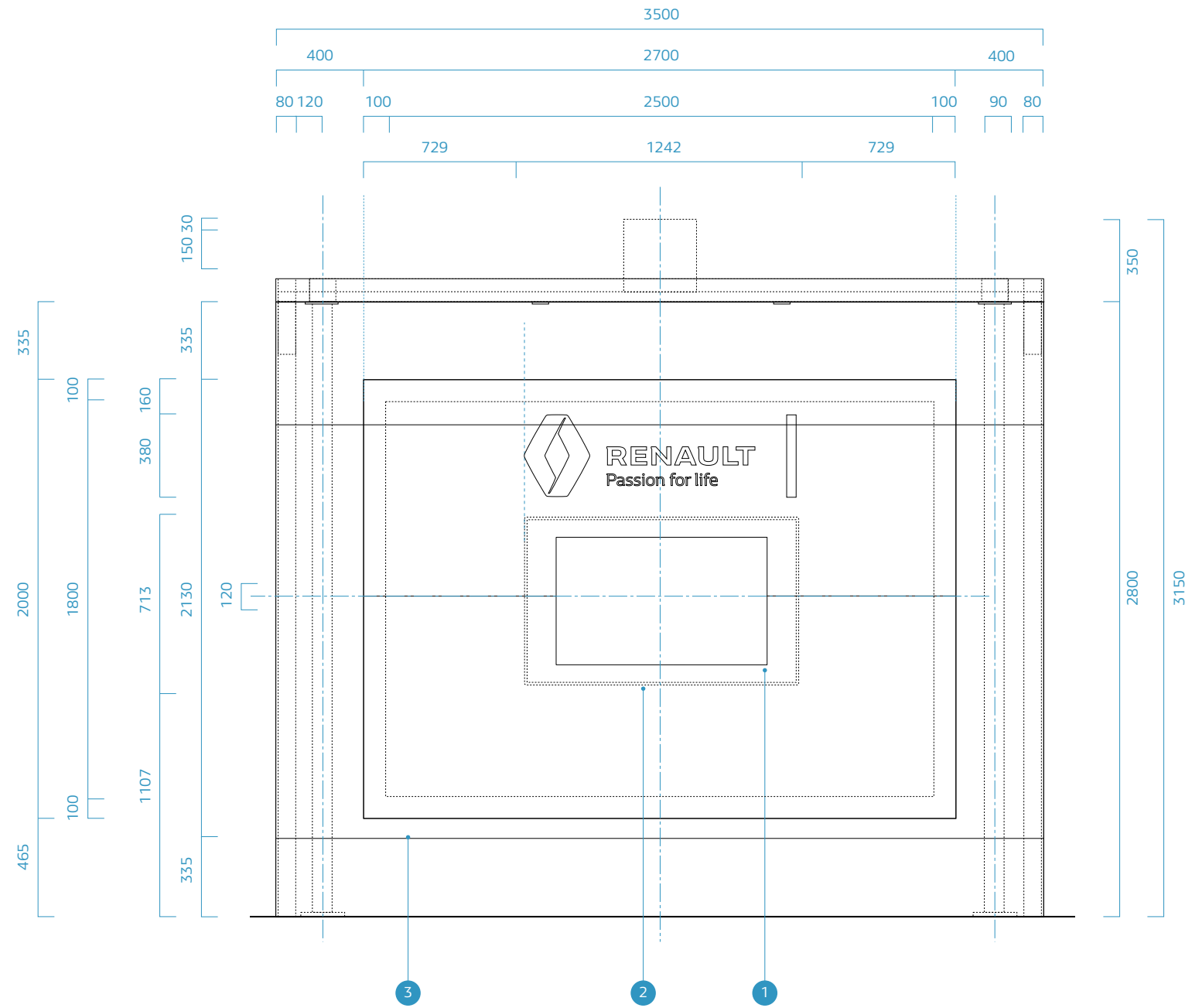
## Recess for offset screen

A recess is created to accommodate the fastening system for the screen (VESA standard 400 x 400 mm). This allows for the routing of power cables and the connection of IT equipment.

The cut-out in the boards of the black front panel is in line with the horizontal edges of the yellow wall to limit the visibility of edge-to-edge connections.

### Key

- 1 Recess
- 2 Cut-out in the yellow front panel
- 3 Fictional outlines of the screen
- 3 Connecting joint of the front panel



## Brand Wall - Canopy 3500

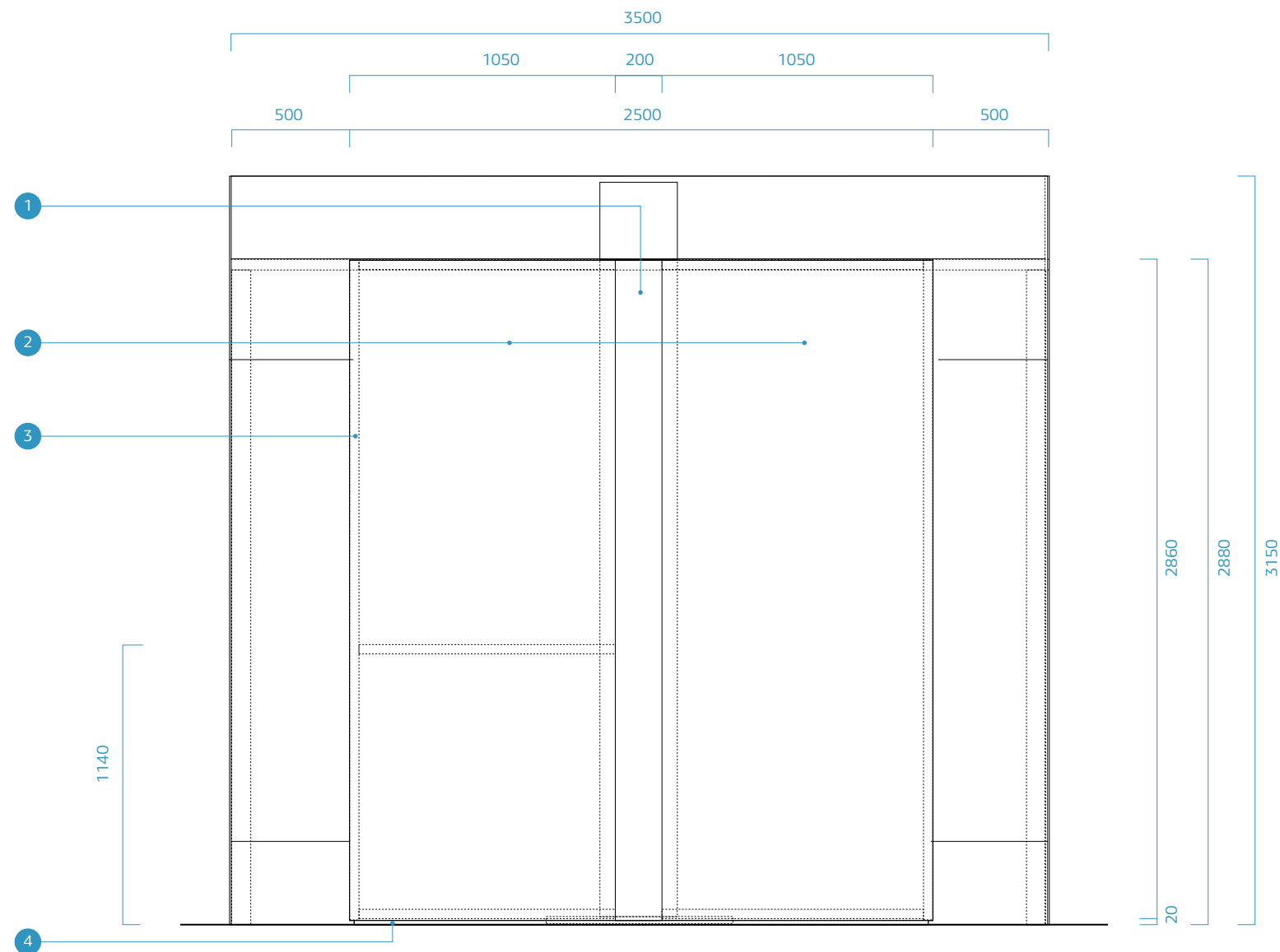
### Back view

The rear section of the canopy comprises a matt black lacquered aluminium sheet cladding.

This cladding allows IT equipment to be integrated and accessed a door on the right hand side (seen from front) of the canopy.

### Key

- ① Central strip hiding the fastening screws of cladding components
- ② Cladding component
- ③ Side door
- ④ Plinth inset by 20 mm



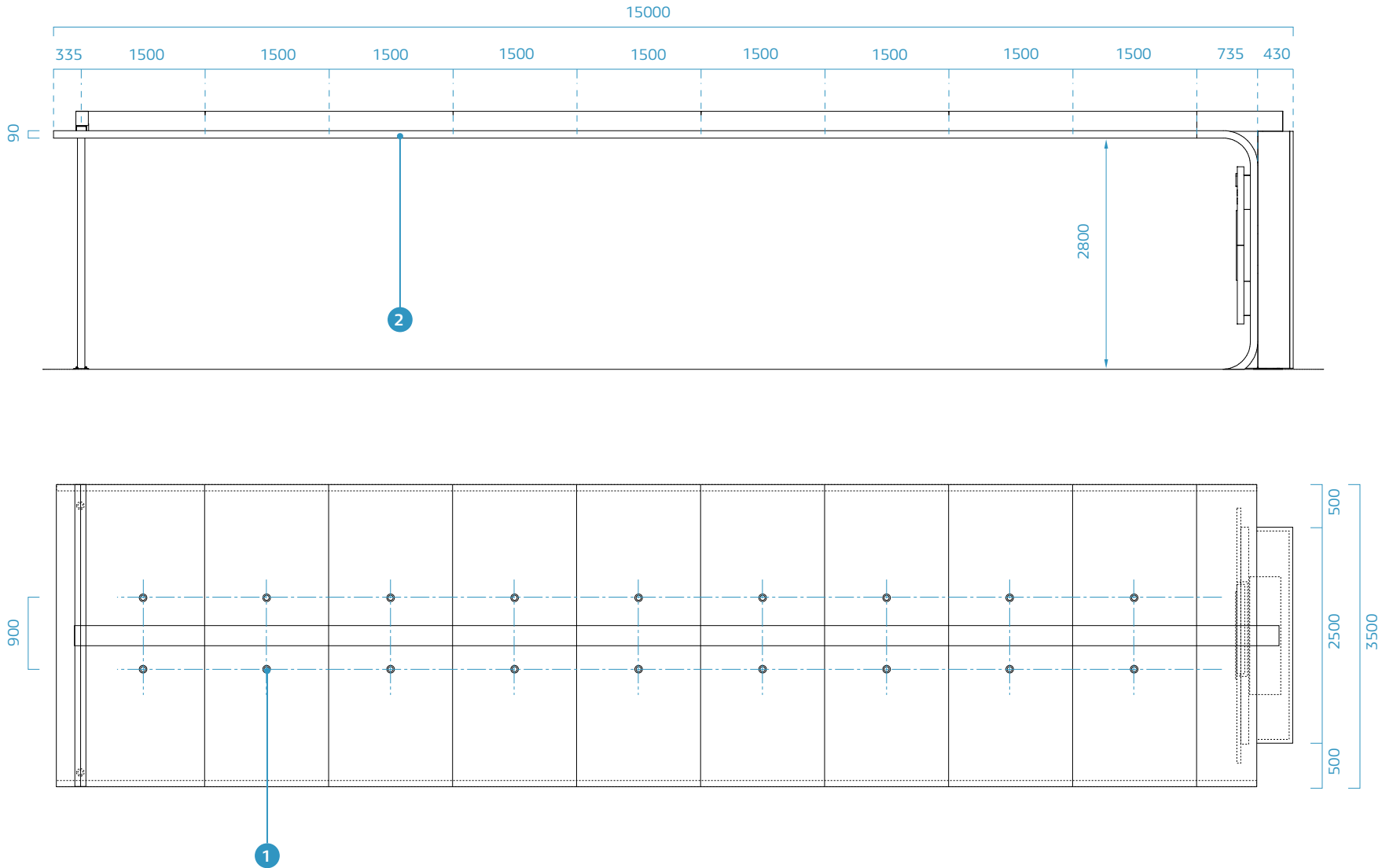
# Canopy 3500 - Side view and overhead view

## Description

The 3,500 mm canopy has a ceiling height of 2,800 mm.

## Key

- 1 Along the centre line of each panel, two lights are installed 900 mm apart.
- 2 The edge of the canopy is made up of an aluminium profile enabling the perfect alignment of the composite panels.  
The coupling tolerance between 2 panels is 0/+ 0.5 mm).  
This aluminium profile is 90 mm high. It is curved over the rear section of the canopy, facilitating the alignment and support of the composite panels.





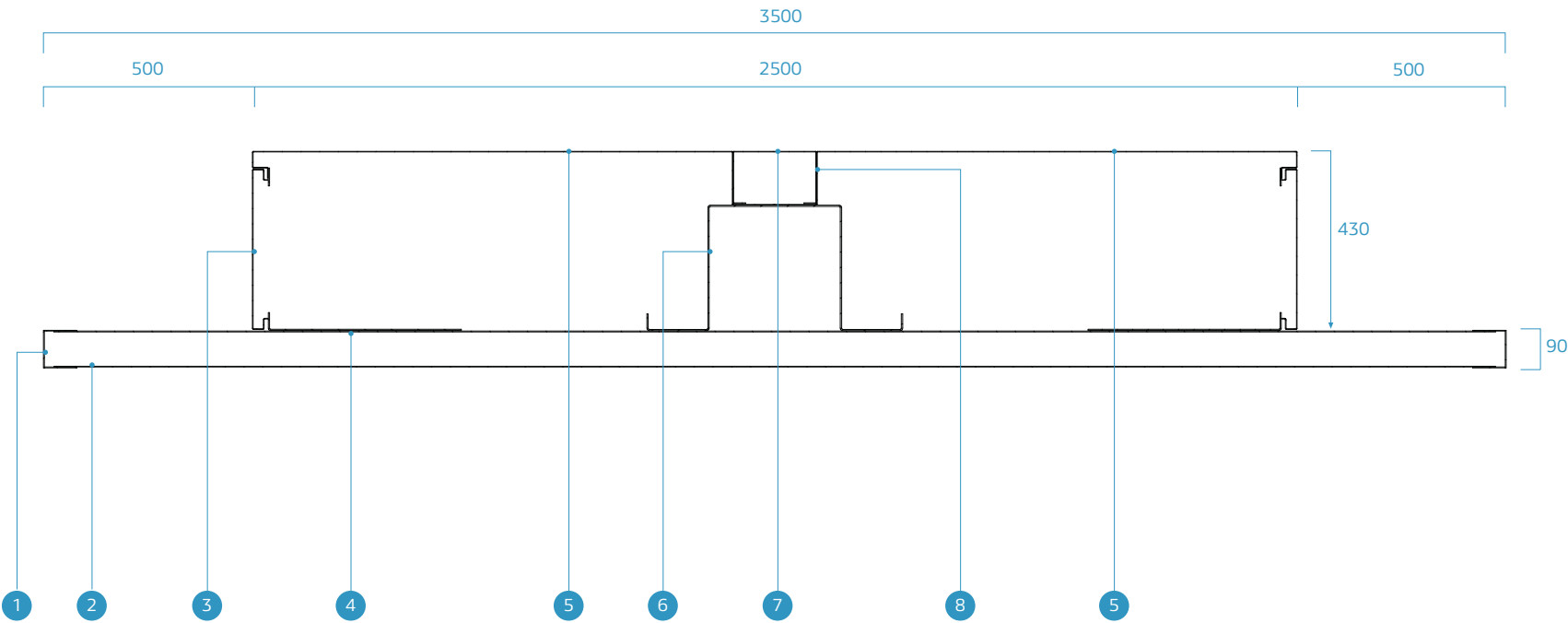
# Canopy 3500 - Horizontal cross-section

## Description

The composite panels are doubled up for the Brand wall (vertical and curved sections) to create continuity in the perception of the thickness of the canopy.

## Key

- 1 Aluminium profile
- 2 Aluminium front panel
- 3 Clip-in cladding skirt  
Aluminium sheet
- 4 Sheet metal component attached to the rear panel
- 5 Left cladding  
Aluminium sheet
- 6 Frame profile  
Galvanized steel
- 7 Central cladding  
Aluminium sheet
- 8 Structural component enabling the cladding of the main frame to be offset



Note:  
Design of the profile to be defined according to the nature of the chosen composite panel.

# Canopy 3500 - Vertical cross-section

## Edge profile

Along their side edges, the composite panels have an edge profile of 90 mm in height. This profile has a visible width of 80 mm bearing a yellow adhesive.

## Lighting

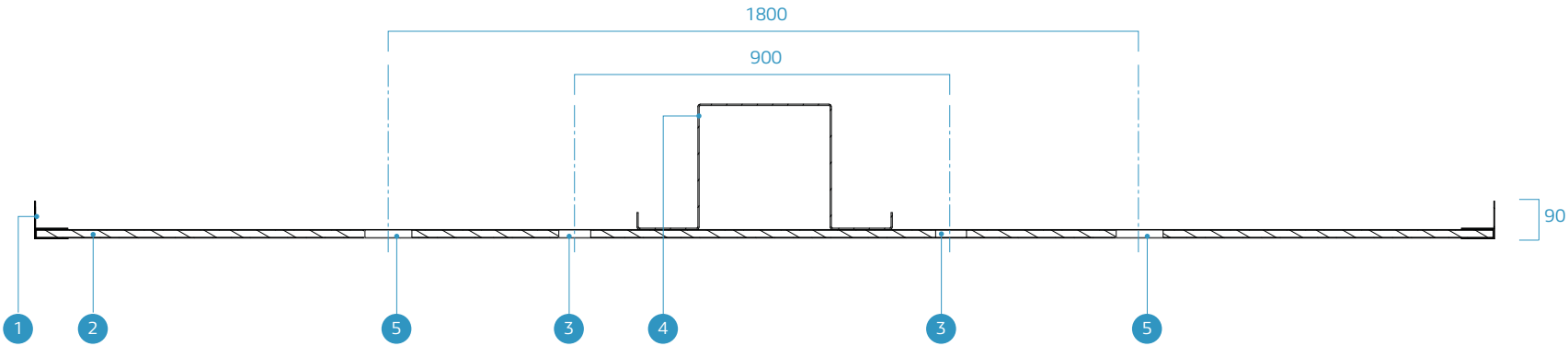
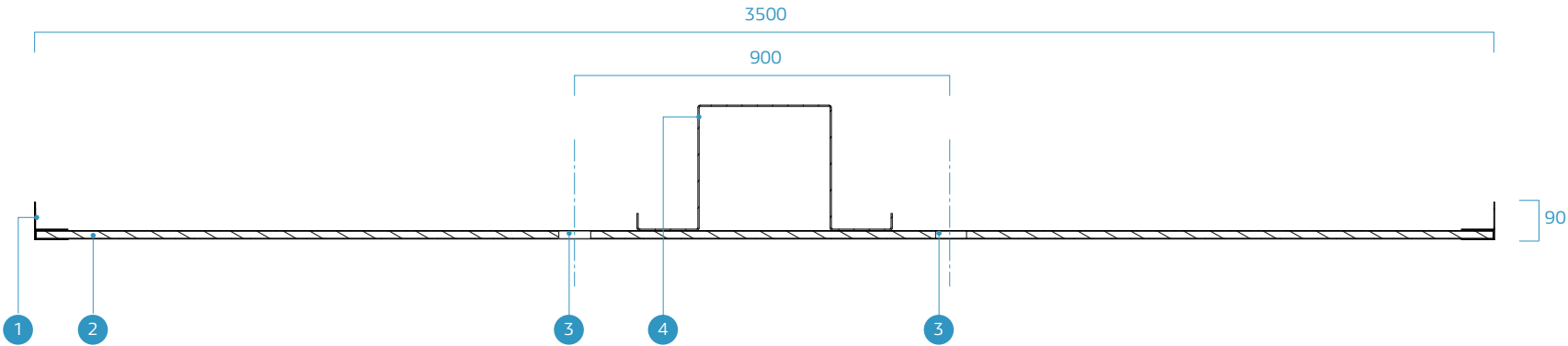
The composite panels are drilled along their length to fasten two lights, placed 90 mm apart.

## First panel

The first composite panel (the nearest to the Brand wall), has two additional drilled holes to fit circular loudspeakers installed above the digital Lounge.

## Key

- 1 Aluminium profile
- 2 Composite panel
- 3 Drilled hole to fasten a light, dia. 60 mm
- 4 Frame profile  
Galvanized steel
- 5 Drilled hole to fit a circular loudspeaker,  
dia. 100 mm



## Canopy 3500 - Longitudinal section

### Connecting the panels

The composite panels are adjusted individually through their underside to manage manufacturing tolerances.

An aluminium joint bar is placed along each panel to provide a quality edge-to-edge connection, with a tolerance of < 0.5 mm.

### Front attachment plates

The square attachment plates have oblong holes to ensure the structure stands perfectly vertically after installation.

The attachment plates and bolts are hidden by a matt black lacquered aluminium sheet attachment plate concealer.

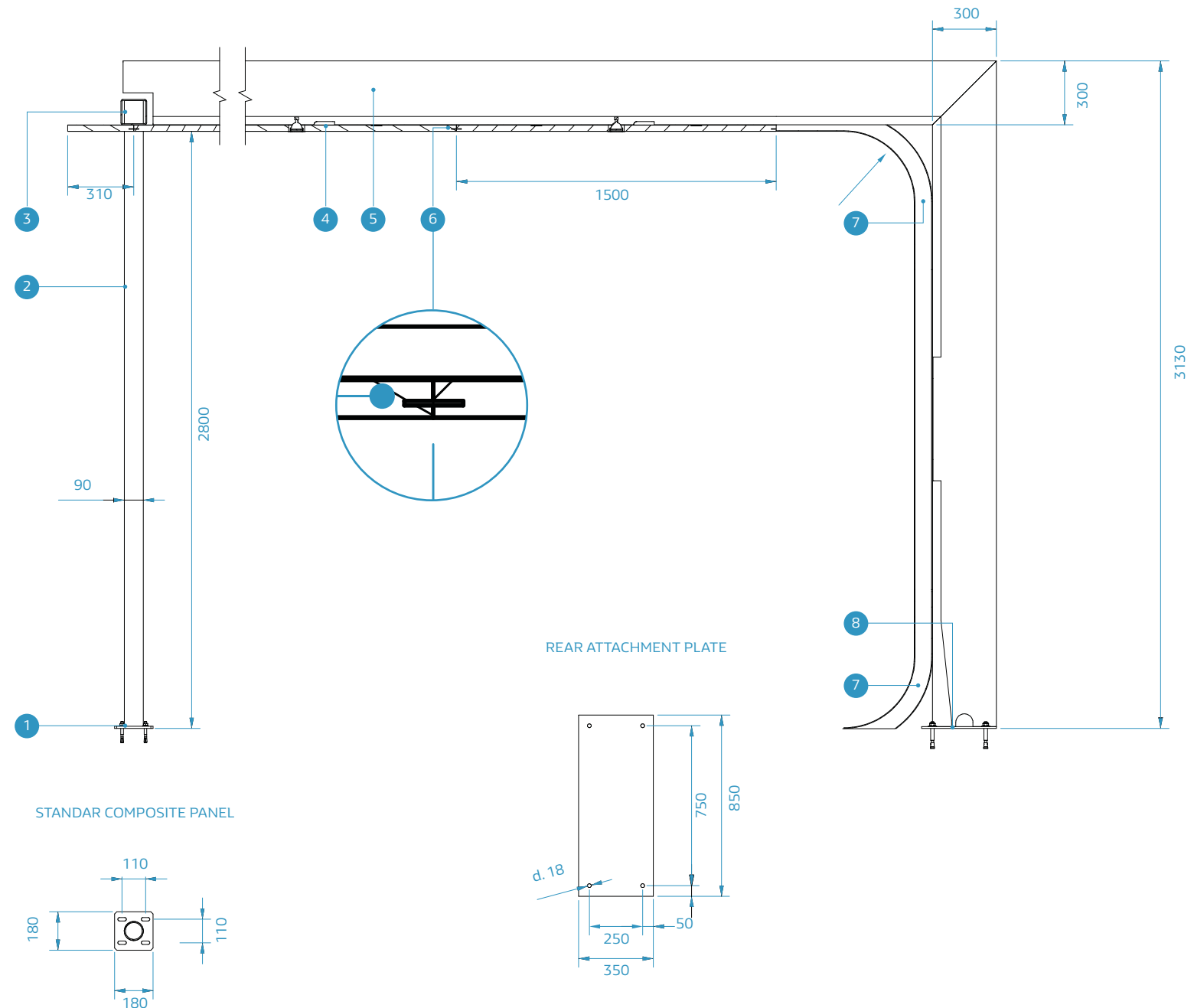
### Central frame

The central frame comprises a 300 x 300 mm omega-shaped galvanized steel sheet.

The vertical section and horizontal section are connected at a 90° angle.

### Key

- ① Front attachment plate
- ② Steel load-bearing post, dia. 90 mm
- ③ 120 x 120 mm steel cross-beam
- ④ Composite panel
- ⑤ Omega-shaped central frame
- ⑥ Aluminium joint bar
- ⑦ Curved panel
- ⑧ Rear attachment plate



# Brand Wall - Canopy 3000

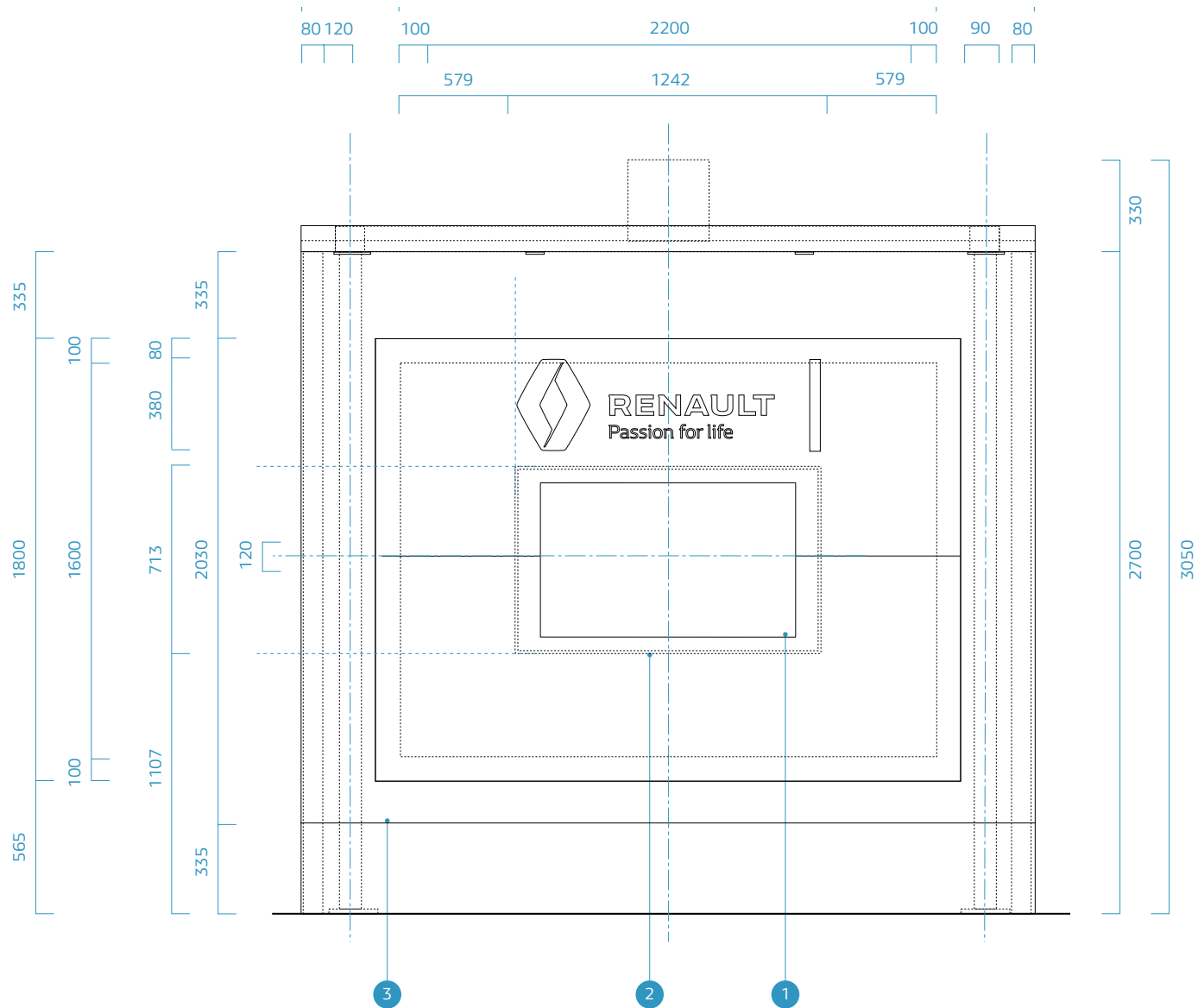
## Front view

A recess is created to accommodate the fastening system for the screen (VESA standard 400 x 400 mm). This allows for the routing of power cables and the connection of IT equipment.

The cut-out in the boards of the black front panel is in line with the horizontal edges of the yellow wall to limit the visibility of edge-to-edge connections.

## Key

- 1 Cut-out in the yellow front panel
- 2 Fictional outlines of the screen
- 3 Connecting joint of the front panel



# Brand Wall - Canopy 3000

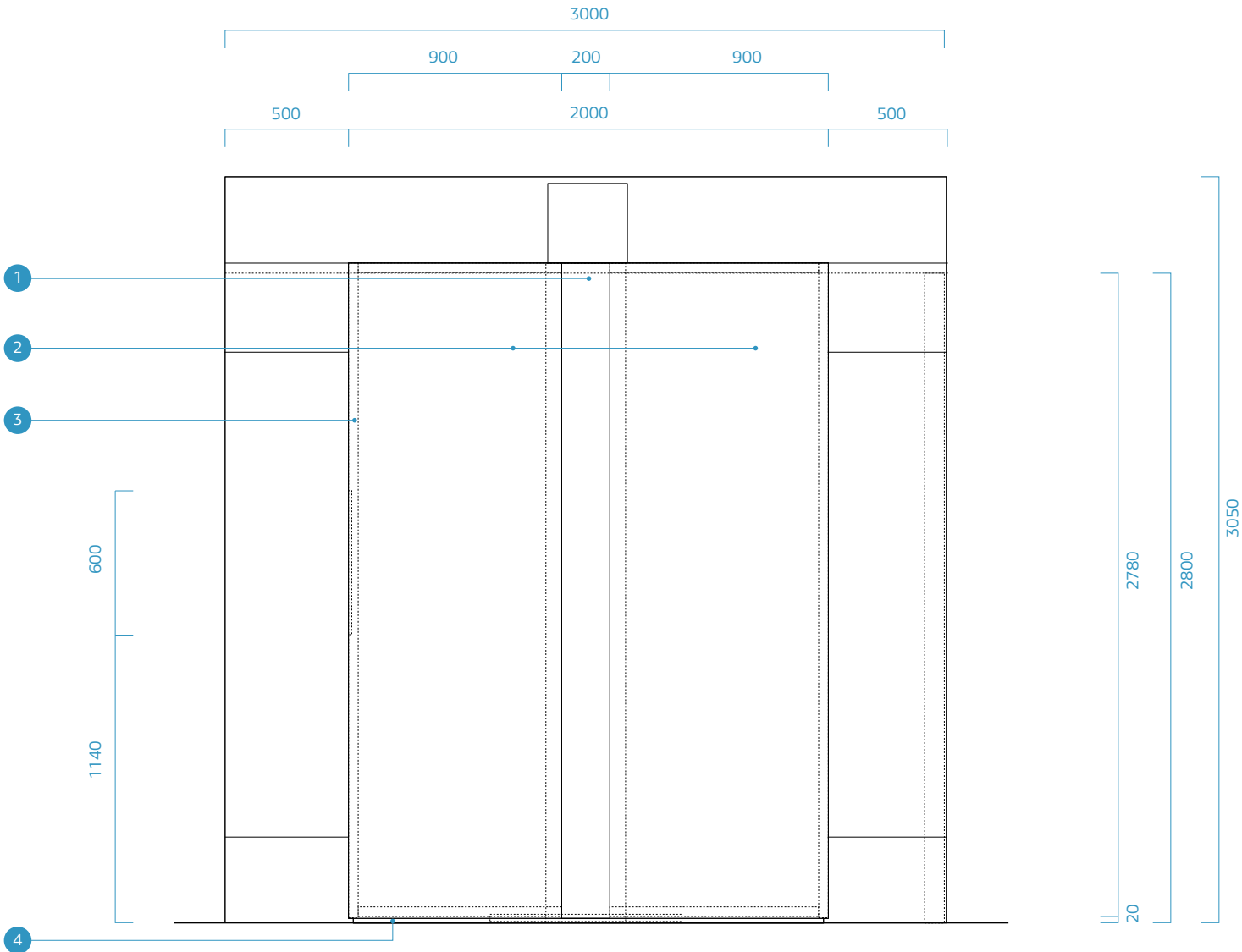
## Back view

The rear section of the canopy comprises aluminium sheet cladding.

This cladding allows IT equipment to be integrated and accessed a door on the right hand side (seen from front) of the canopy.

## Key

- 1 Central strip hiding the fastening screws of cladding components
- 2 Cladding component
- 3 IT equipment side access door
- 4 Plinth inset by 20 mm



# Canopy 3000 - Side view and overhead view

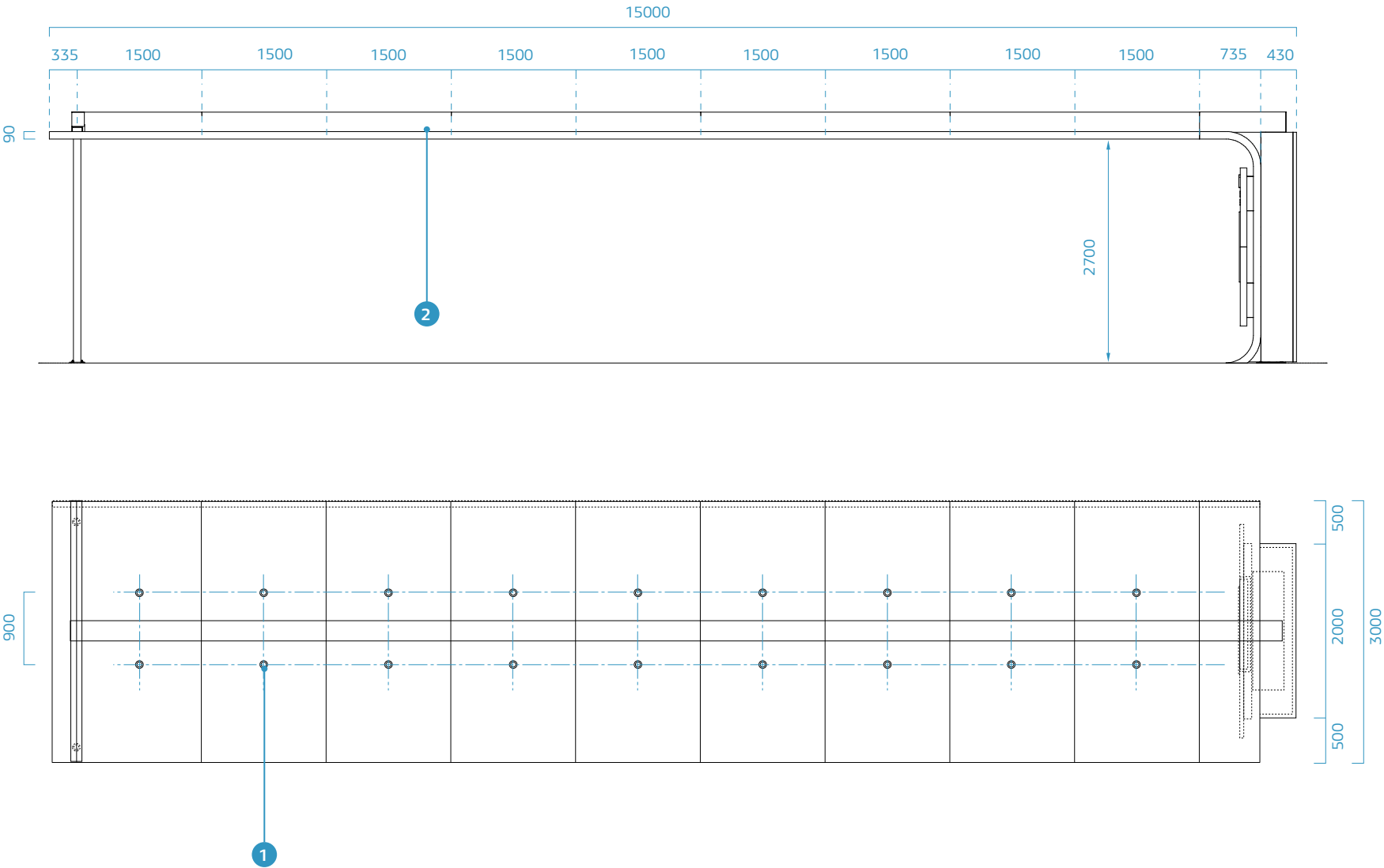
## Description

The 3,000 mm canopy has a ceiling height of 2,700 mm.

## Key

- 1 Along the centre line of each panel, two lights are installed 900 mm apart.
- 2 The edge of the canopy is made up of an aluminium profile enabling the perfect alignment of the composite panels.  
The coupling tolerance between 2 panels is 0/+ 0.5 mm).

This aluminium profile is 90 mm high. It is curved over the rear section of the canopy, facilitating the alignment and support of the composite panels.



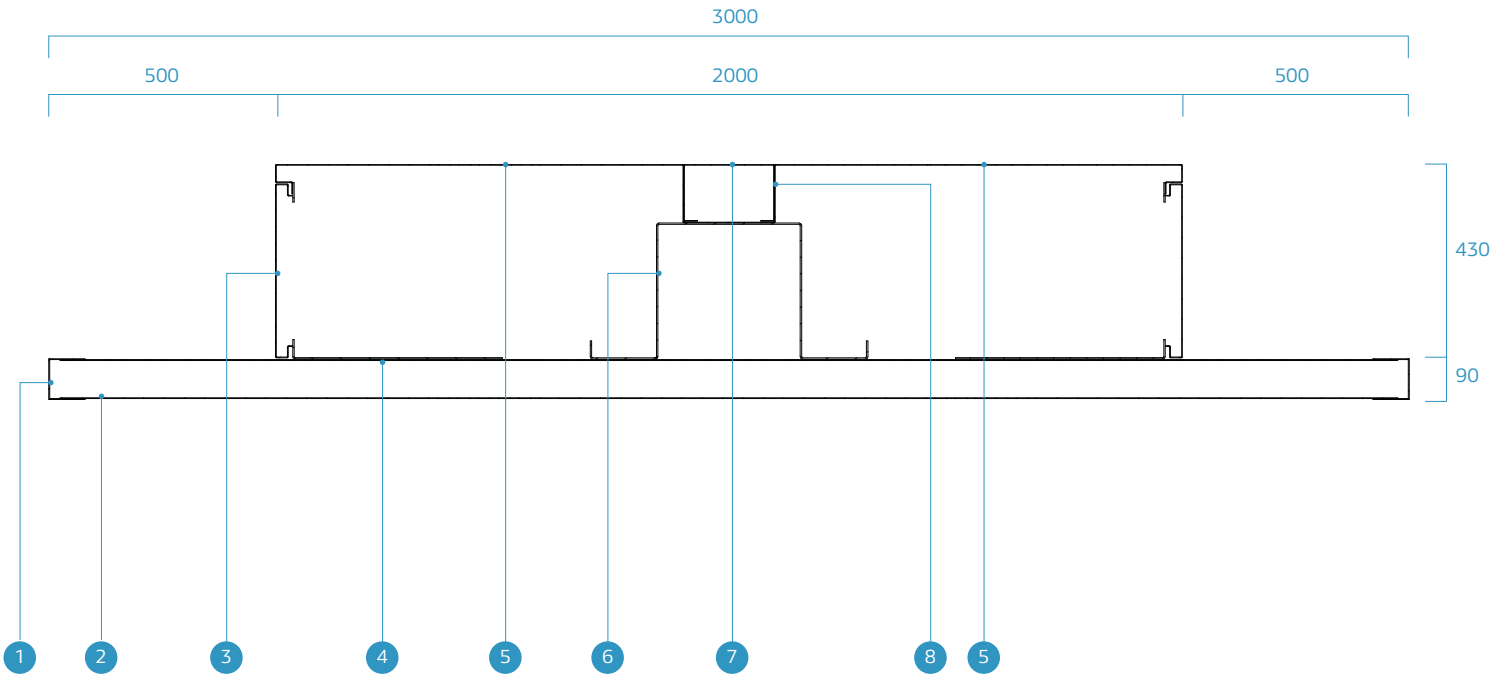
# Canopy 3000 - Horizontal cross-section

## Description

The composite panels are doubled up for the Brand wall (vertical and curved sections) to create continuity in the perception of the thickness of the canopy.

## Key

- 1 Aluminium profile
- 2 Aluminium front panel
- 3 Clip-in cladding skirt  
Aluminium sheet
- 4 Sheet metal component attached to the rear panel
- 5 Left cladding  
Aluminium sheet
- 6 Frame profile  
Galvanized steel
- 7 Central cladding  
Aluminium sheet
- 8 Structural component enabling the cladding of the main frame to be offset



Note:  
Design of the profile to be defined according to the nature of the chosen composite panel.



# Canopy 3000 - Vertical cross-section

## Edge profile

Along their side edges, the composite panels have an edge profile of 90 mm in height. This profile has a visible width of 80 mm bearing a yellow adhesive.

## Lighting

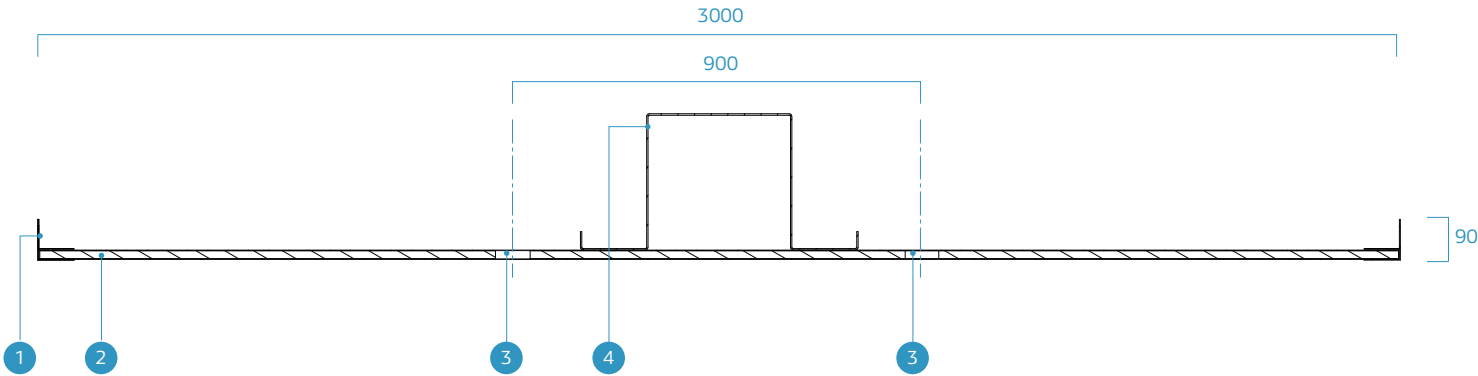
The composite panels are drilled along their length to fasten two lights, placed 90 mm apart.

## First panel

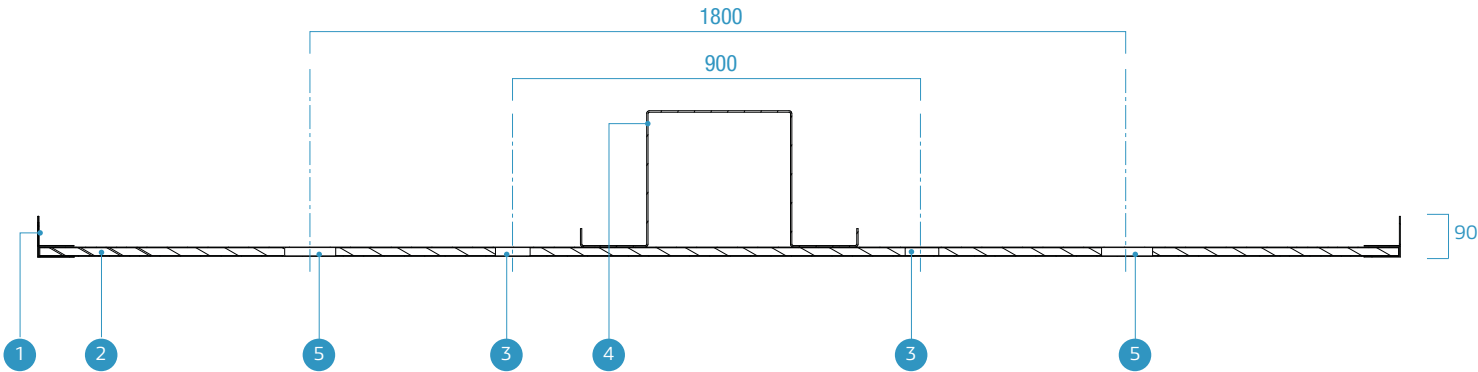
The first composite panel (the nearest to the Brand wall), has two additional drilled holes to fit circular loudspeakers installed above the digital Lounge.

## Key

- 1 Aluminium profile
- 2 Composite panel
- 3 Drilled hole to fasten a light, dia. 60 mm
- 4 Frame profile  
Galvanized steel
- 5 Drilled hole to fit a circular loudspeaker, dia. 100 mm



STANDARD COMPOSITE PANEL



FIRST COMPOSITE PANEL

# Canopy 3000 - Longitudinal section

## Connecting the panels

The composite panels are adjusted individually through their underside to manage manufacturing tolerances. An aluminium joint bar is placed along each panel to provide a quality edge-to-edge connection, with a tolerance of < 0.5 mm.

## Front attachment plates

The square attachment plates have oblong holes to ensure the structure stands perfectly vertically after installation. The attachment plates and bolts are hidden by a matt black lacquered aluminium sheet attachment plate concealer.

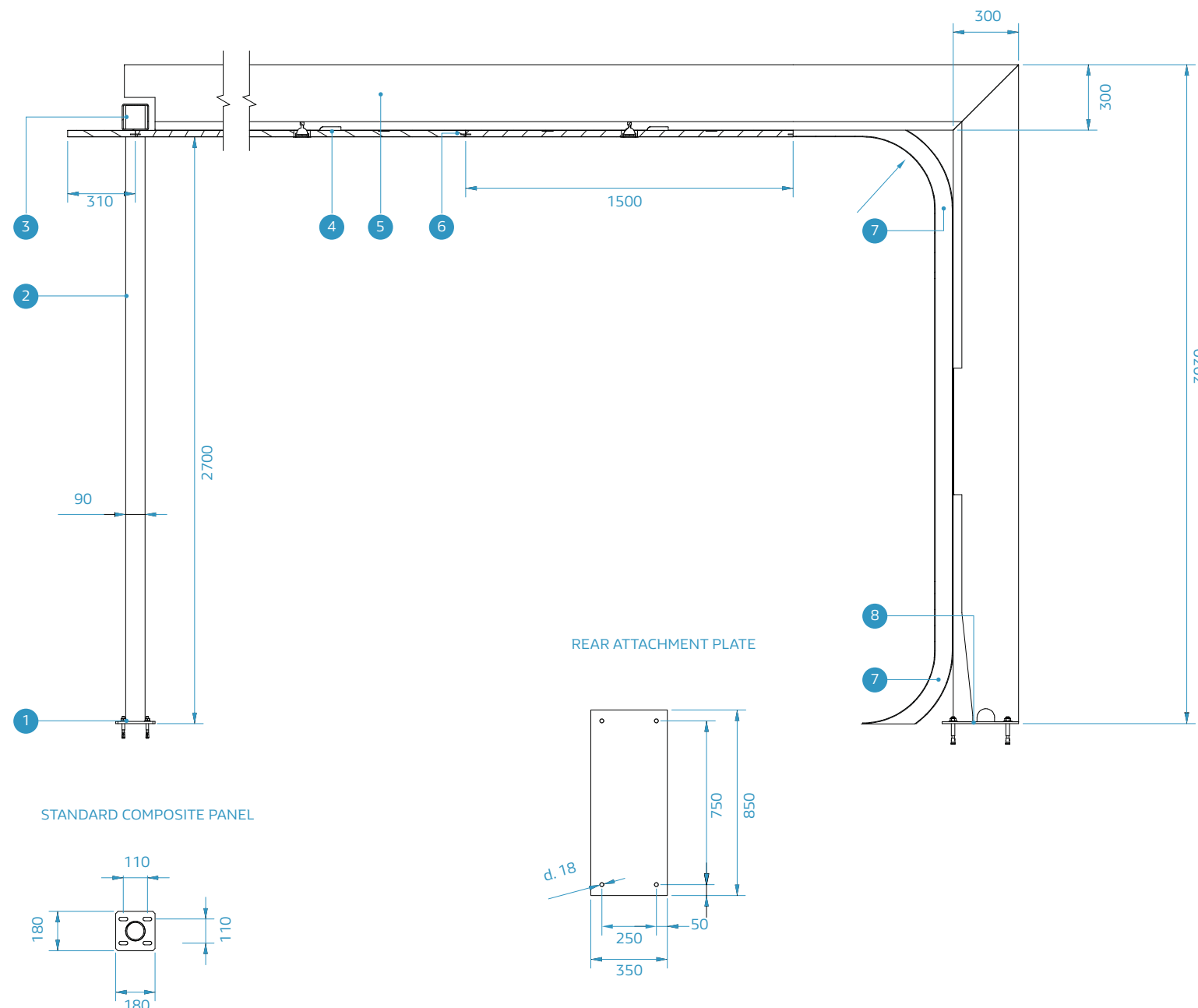
## Central frame

The central frame comprises a 300 x 300 mm omega-shaped galvanized steel sheet.

The vertical section and horizontal section are connected at a 90° angle.

## Key

- ① Front attachment plate
- ② Steel load-bearing post, dia. 90 mm
- ③ 120 x 120 mm steel cross-beam
- ④ Composite panel
- ⑤ Omega-shaped central frame
- ⑥ Aluminium joint bar
- ⑦ Curved panel
- ⑧ Rear attachment plate



## Multimedia unit and screen

### 1 55" screen

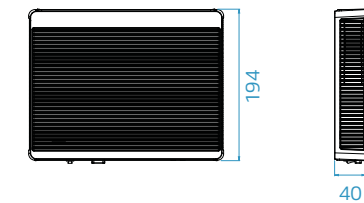
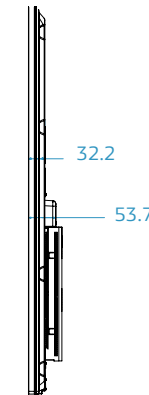
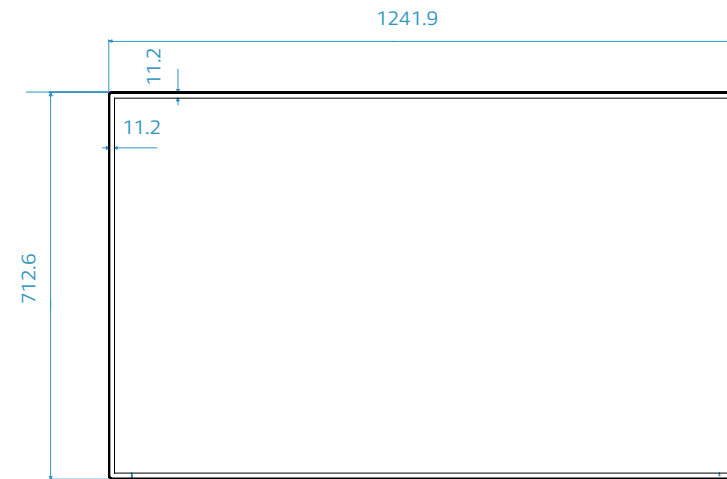
Its reduced thickness allows it to be fastened directly to the Brand wall (only the fastening system remains embedded).

Connections are grouped together on the right-hand side of the screen. It is compatible with VESA 400 x 400 standard.

Example of dimensions:

W. 1242 x H. 713 x thk. 33 mm

N.B. Ensure that the dimensions of the chosen screen are fully compatible with the fastening system. Check that the screen has a sufficient resolution to support display of content in at least HD quality.

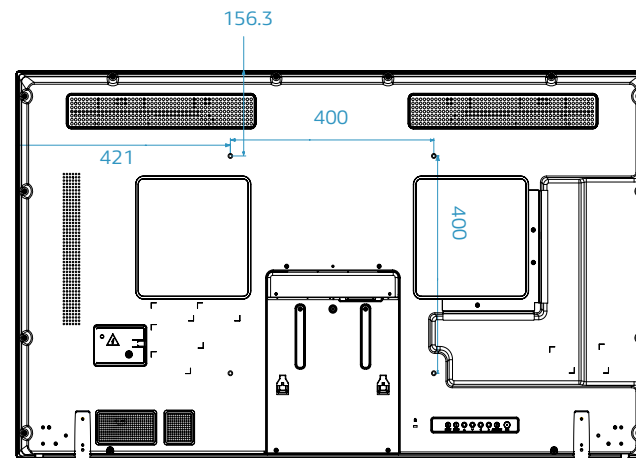


2

### 2 Multimedia unit

Multimedia for displaying video content on the screen in conjunction with the use of a content delivery management solution. The specifications of this unit are to be determined in consultation with the supplier of the content management solution. It is also necessary to ensure that the dimensions of the cabinet and the unit are compatible.

Example: Quanmax MVP225 player deployed for the central digital solution.



1

# Power supply diagram for IT equipment

## Description

The power supply is routed through the left-hand side (looking at the canopy from the back).

It is routed to a connection box from which 2 lines are fed out.

The first powers IT equipment, while the second lights the canopy.

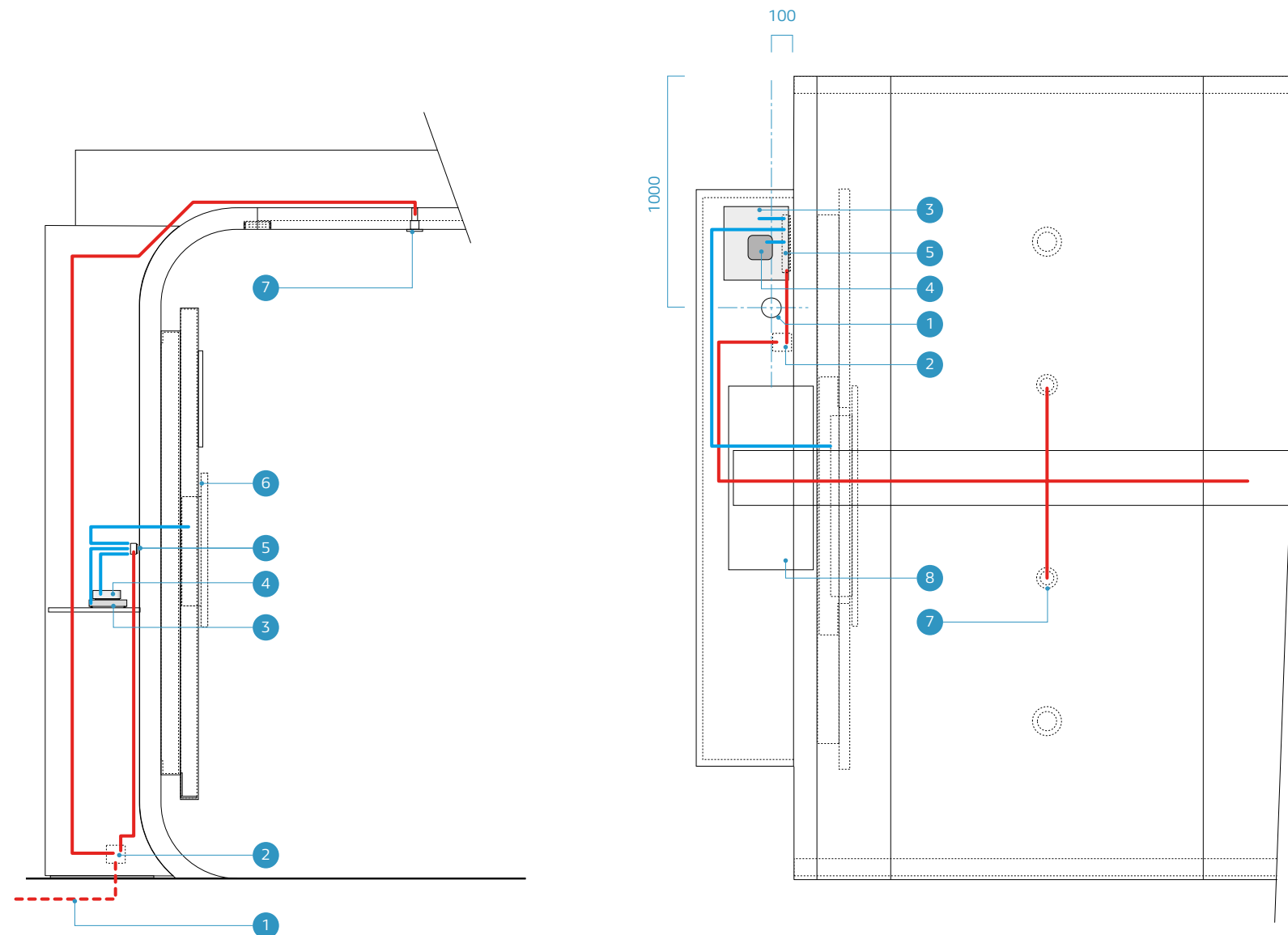
## Power supply routing

The power supply travels straight up to the IT equipment located to the right of the screen (looking at it from the front).

The equipment can be accessed through the side section of the cladding.

## Key

- 1 Power supply
- 1 Connection box
- 1 Player PC (4 sockets)
- 1 Apple TV
- 1 Plug socket board (4 sockets)
- 1 55" screen
- 1 Lights
- 1 Canopy attachment plate



## Power supply diagram for IT equipment - Specific case

### Description

When the configurator is set up against the 3500 mm canopy, the power supply input point is shared between the canopy and the configurator. It is located on the right-hand side (when looking at the screen from the entrance).

#### Canopy

- IT equipment power supply
- canopy lighting power supply
- RJ 45 Ethernet ports (3)

#### Configurator

- IT equipment power supply
- RJ 45 Ethernet ports (3)

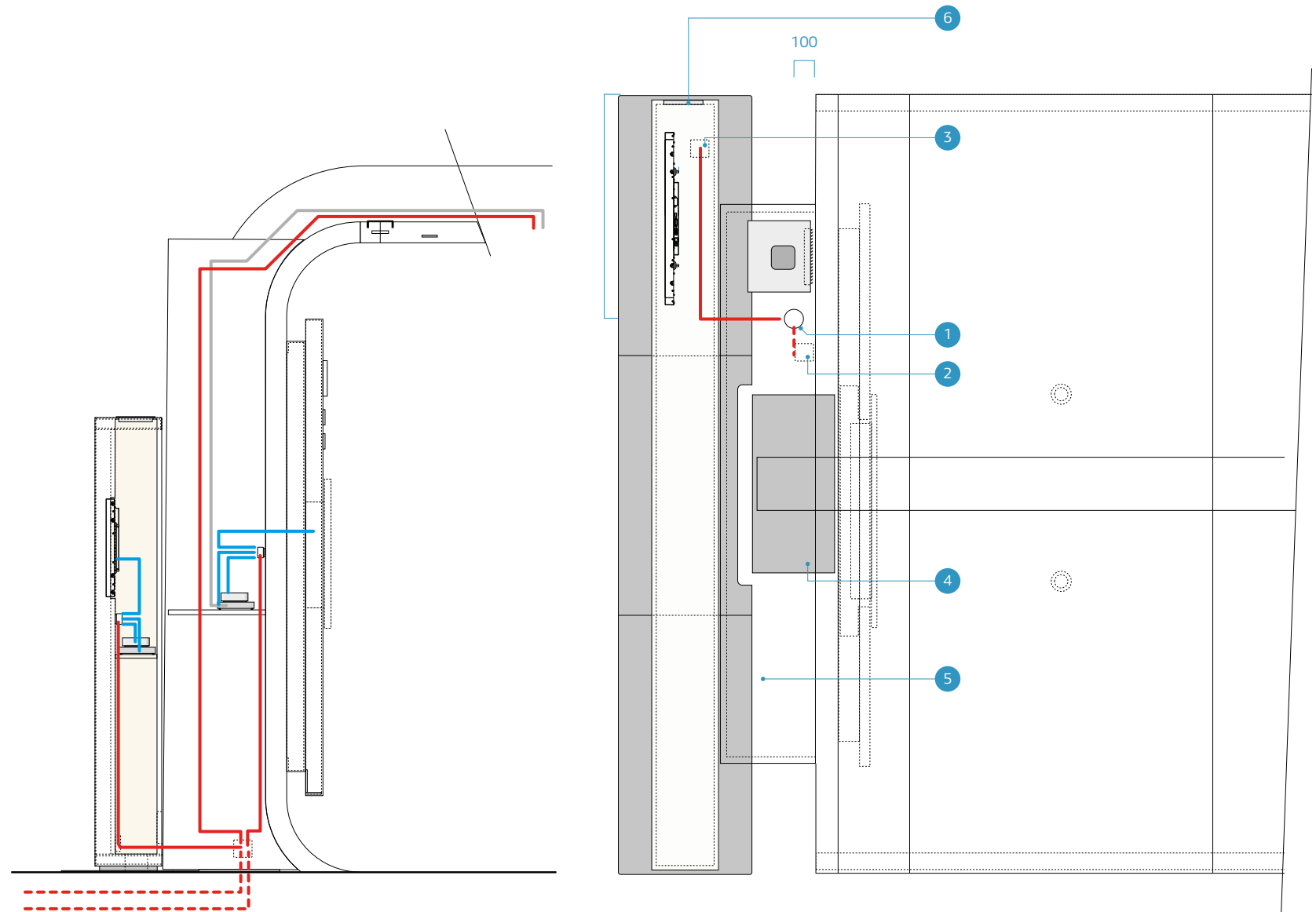
### Power supply routing

The configurator is powered through the its back panel, to the right of the input point.

The connection is performed in the box located inside the configurator, which can be accessed through the side hatch provided for this purpose.

### Key

- ① Power supply
- ② Canopy connection box
- ③ Connection box
- ④ Canopy attachment plate
- ⑤ Configurator attachment plate
- ⑥ Access hatch



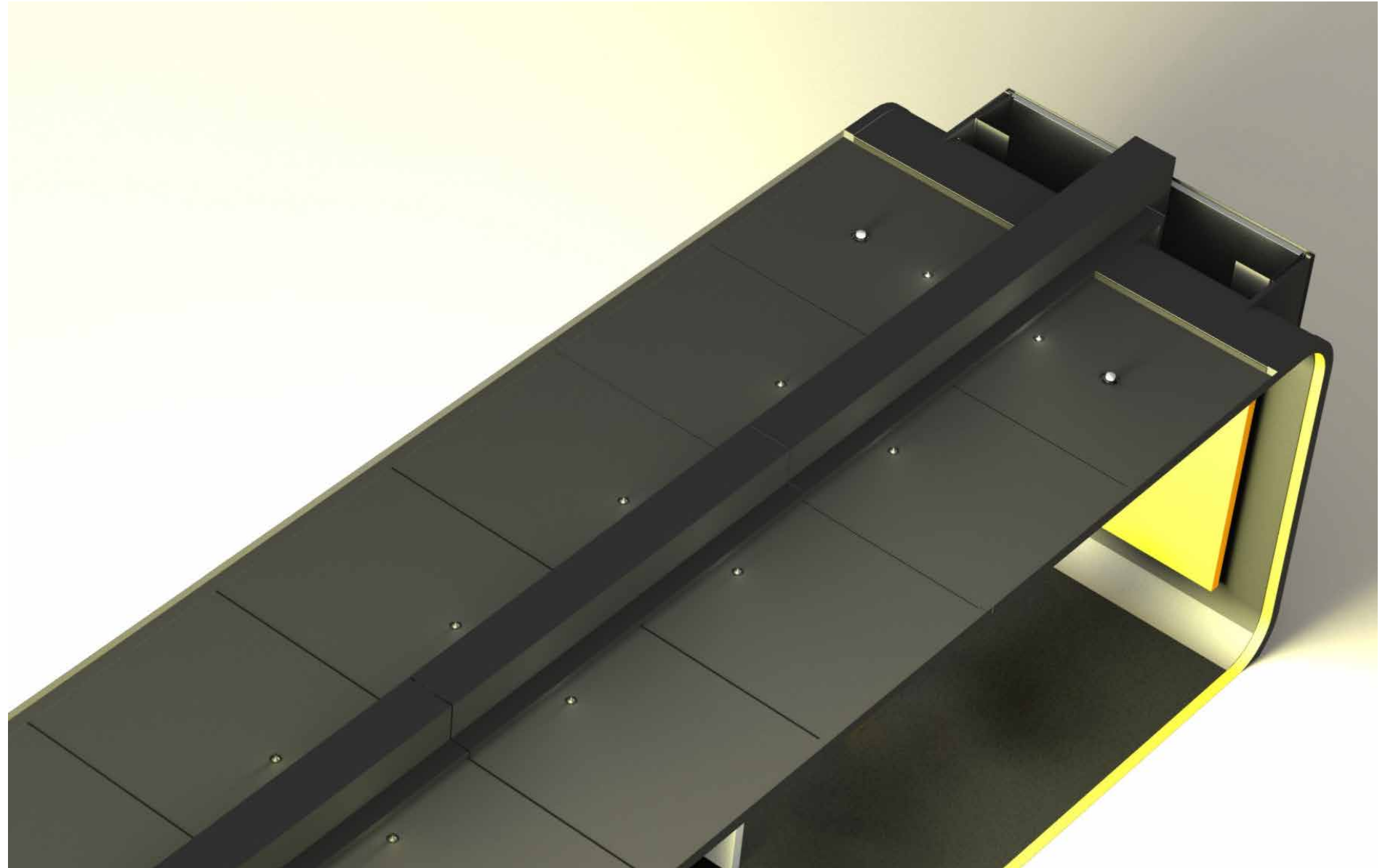
## Upper section cladding

### Principle

The upper section of the canopy must be cladded. This cladding serves to mask the visible technical elements such as: the top of the cabinet, the spotlights and the loudspeakers, etc. in order to enhance the final visual impact of the whole setup.

It should be noted that the central beam is always clad with black sheeting.

If the top of the canopy is not visible, the standard cladding is accepted. If the top of the canopy is visible, the maximum cladding option is mandatory.



## Upper section cladding

### Standard cladding for non-visible canopy top

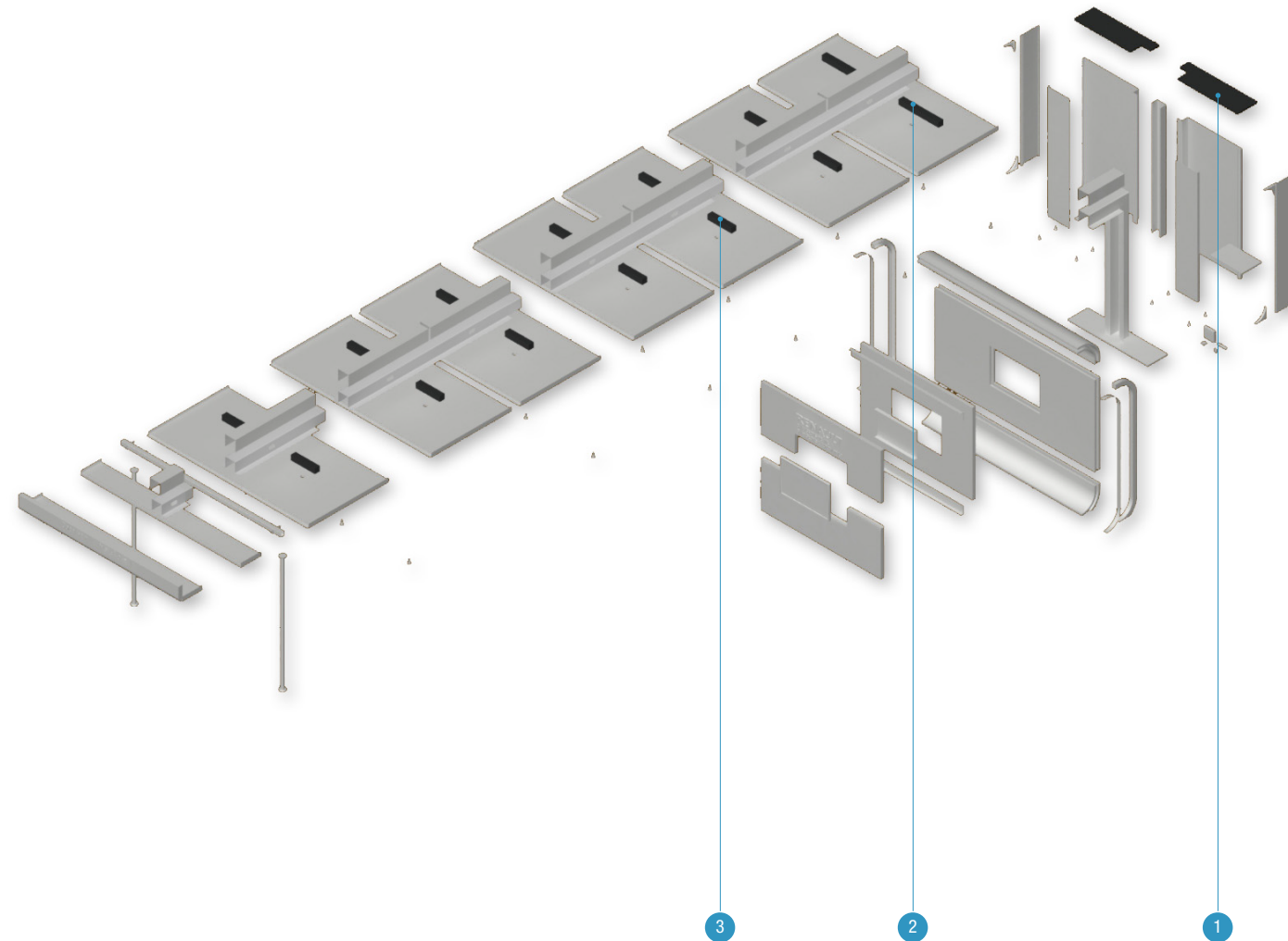
This configuration is the minimum option for cladding of the upper section of the canopy including:

- cladding of the upper section of the cabinet,
- cladding of the loudspeakers on the first composite panel,
- cladding of the spotlights and power supply cables.

The cladding is made of black lacquered aluminium sheeting as per for the cabinet.

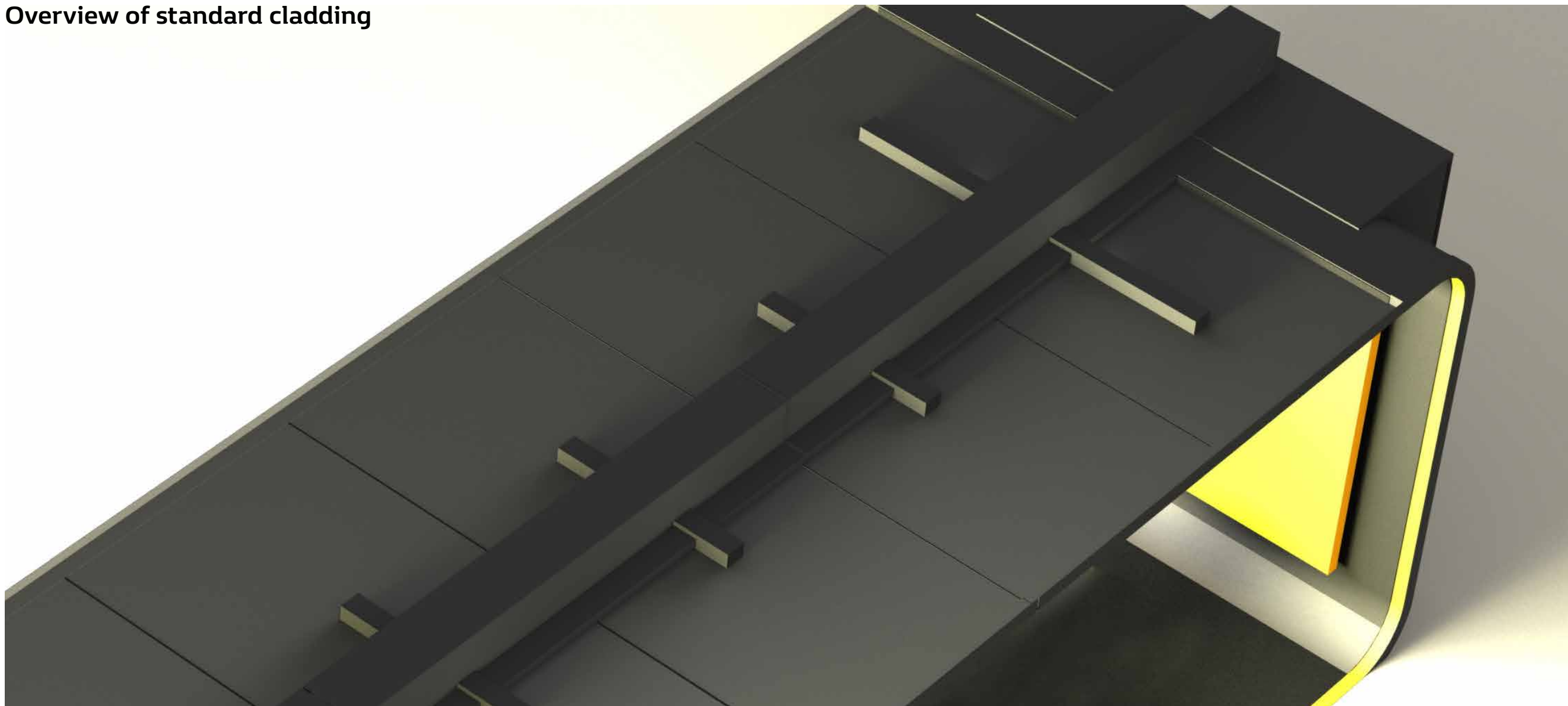
### Key

- ① Cladding of cabinet
- ② Cladding of loudspeakers
- ③ Cladding of spotlights



## Upper section cladding

### Overview of standard cladding





## Upper section cladding

### Maximum compulsory cladding for visible canopy top

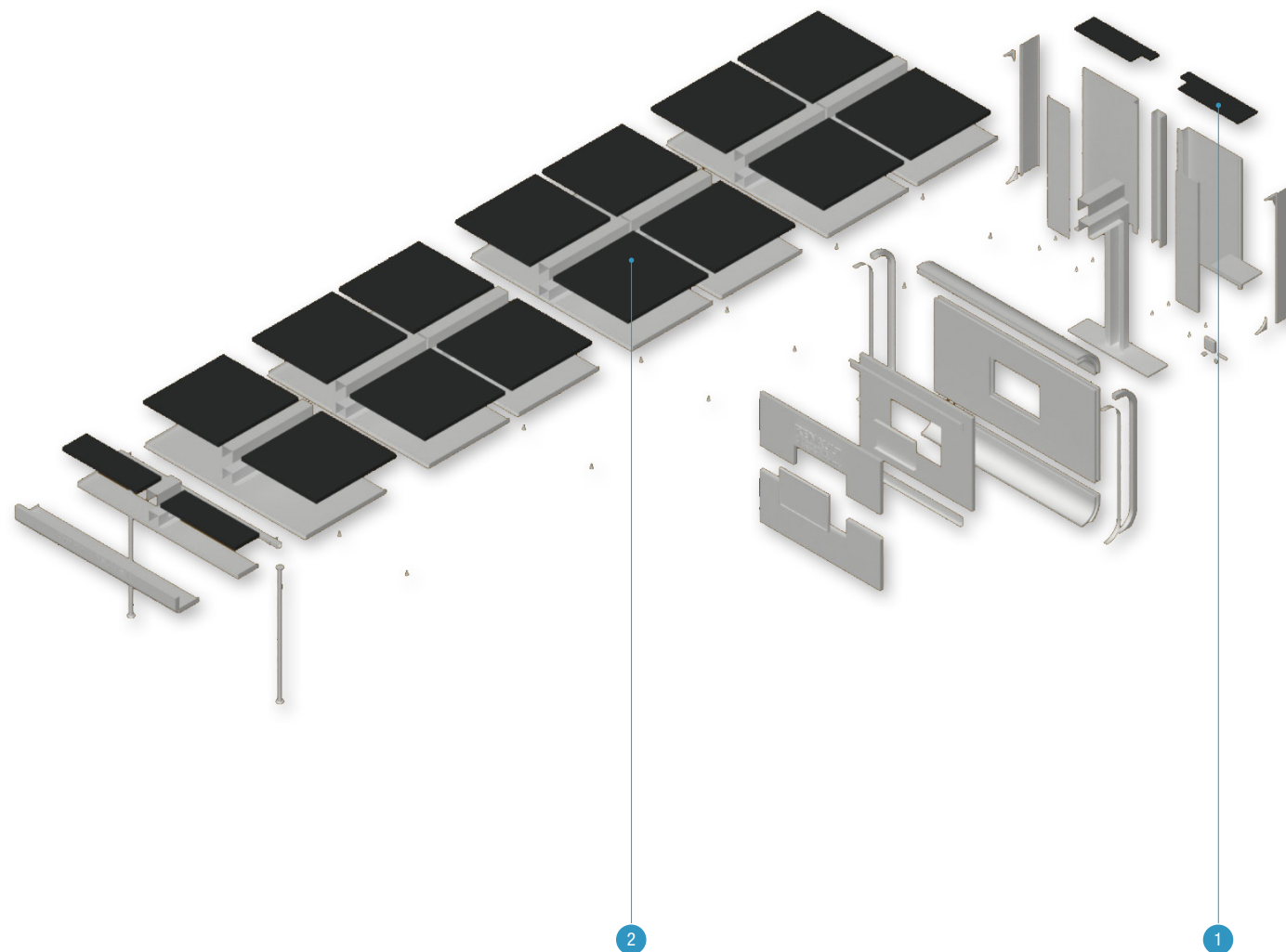
This configuration is the optimal option for cladding of the upper section of the canopy including:

- cladding of the upper section of the cabinet,
- cladding of the upper section of the composite panels.

The cladding is made of black lacquered aluminium sheeting as per for the cabinet.

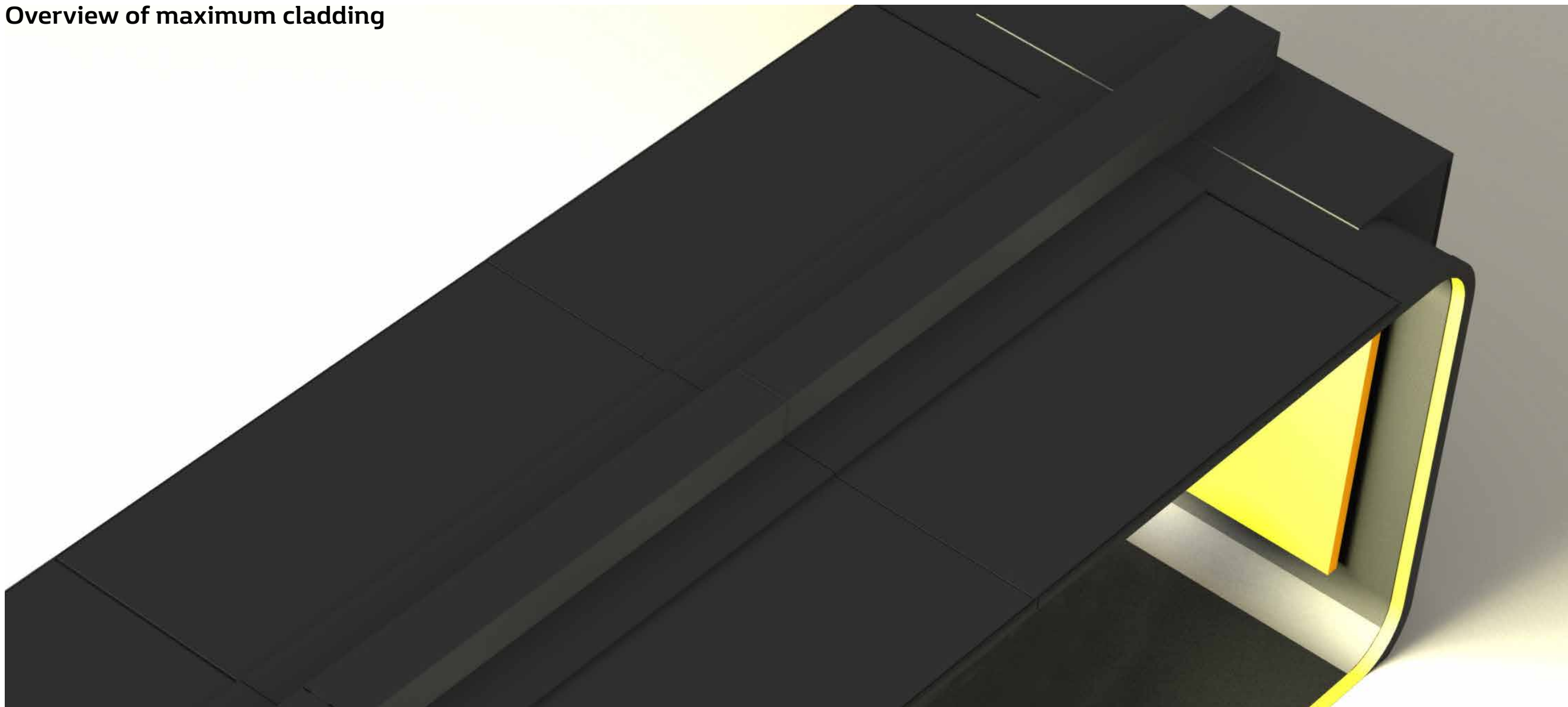
### Key

- 1 Cladding of cabinet
- 2 Cladding of composite panels



## Upper section cladding

### Overview of maximum cladding



# Lighting

## Description

The following information outlines the expected performance of the lighting installed on the underside of the canopy.

## Characteristics

- TOSHIBA E-CORE LDRC0930WU1EUD1
- 9W embedded LED
  - Beam angle 25°
  - 3,000 K° warm white
  - Standard base, dia. 90 mm gloss chrome surround
  - 550 lumens
  - 61 lm/watt
  - GU 10
  - Life time up to 40,000 hours

## Implementation

Plan for an overflow of 2 mm of lamp with regards to the ring of the surround, to generate more brightness and boost the light emitted by this light source.

The spacing between devices is 1.5 m.

Two rows of LEDs for all canopy configurations; rows spaced 900 mm apart.

## Measured performance

300 lux on the Brand bar tabletop, 1,100 mm from the ground.

E-CORE  
LED Lighting

DATA SHEET

1 / 10

### E-CORE PAR16

#### 3,8W / 7,1W FIT / 9W

The elegant mains-voltage spotlights with robust GU10 base shine with their excellent energy-saving credentials and ease of use. Suitable for a multitude of uses, they can be dimmed to offer atmospheric lighting or daylight-brightness accents – even at considerable distance.

**Application:**

- Accent Lighting
- Display Lighting
- Residential Lighting

TOSHIBA

Leading Innovation >>>

E-CORE  
LED Lighting

E-CORE PAR16 3,8W / 7,1W FIT / 9W

2 / 10

### Product details

- Elegant high-voltage spotlights with GU10 bayonet base
- Highly efficient and energy saving
- Dimmable
- Focussed light with different beam angles
- Mercury free

- Reduction of energy consumption of up to 85%
- Low IR or UV radiation
- Life time up to 40,000 hours
- Pleasant warm or neutral white light
- Instant light
- Outstanding light quality delivered by great optics

### Optical parameters

MODEL NAME	E-CORE PAR16 3,8		
Product code	LDRC0427MU1EU / LDRC0427WU1EU	LDRC0430MU1EU / LDRC0430WU1EU	LDRC0440MU1EU / LDRC0440WU1EU
Luminous flux (lm)	180	180	200
Colour description	Warm white	Warm white	Neutral white
Colour temperature (K)	2700	3000	4000
Colour rendering index (Ra)	80	80	80
Beam angle	25° / 40°	25° / 40°	25° / 40°
Luminous intensity (cd)	700 / 350	700 / 350	760 / 380
Lamp efficacy (lm/W)	47,4	47,4	52,6

MODEL NAME	E-CORE PAR16 7,1W FIT		
Product code	LDRC0627MU1EUD2 / LDRC0627WU1EUD2	LDRC0630MU1EUD2 / LDRC0630WU1EUD2	LDRC0640MU1EUD2 / LDRC0640WU1EUD2
Luminous flux (lm)	345	355	370
Colour description	Warm white	Warm white	Neutral white
Colour temperature (K)	2700	3000	4000
Colour rendering index (Ra)	80	80	80
Beam angle	25° / 40°	25° / 40°	25° / 40°
Luminous intensity (cd)	1,320 / 640	1,320 / 640	1,420 / 680
Lamp efficacy (lm/W)	48,6	50	52,1

MODEL NAME	E-CORE PAR16 9W		
Product code	LDRC0927MU1EUD2 / LDRC0927WU1EUD2	LDRC0930MU1EUD2 / LDRC0930WU1EUD2	LDRC0940MU1EUD2 / LDRC0940WU1EUD2
Luminous flux (lm)	520	550	580
Colour description	Warm white	Warm white	Neutral white
Colour temperature (K)	2700	3000	4000
Colour rendering index (Ra)	80	80	80
Beam angle	25° / 40°	25° / 40°	25° / 40°
Luminous intensity (cd)	1,900 / 950	2,000 / 1,000	2,000 / 1,000
Lamp efficacy (lm/W)	57,8	61,1	64,4

TOSHIBA

Leading Innovation >>>

# Ground markings

## Description

The use of an adhesive for outdoor ground markings is recommended for the yellow strips on the tiling in front of the Brand wall.

The technical data sheet opposite provides an example of a suitable adhesive film, available from MacTac.

### Fiche technique



## StreetRap

Film adhésif « spécial Bitume » pour l'impression numérique solvant, éco-solvant et latex

### → Construction

FACE	Film PVC calandré polymère souple blanc mat de 85 µ
ADHESIF	Acrylique permanent gris
PROTECTEUR	Papier kraft blanc de 130 g/m² polyéthylène

### → Avantages du film

- Le film StreetRap est spécialement conçu pour la communication au sol en extérieur sur bitume. Il doit être impérativement laminé avec le film de plastification anti-dérapant StreetRap Protect.
- Excellente imprimabilité
- Conformabilité parfaite lorsqu'il est chauffé.

### → Surfaces d'application

Surfaces difficiles (bitume, béton...) préalablement nettoyées et sèches.

### → Exemples d'applications

- Décorations de sols en petits, moyens ou grands formats offrant ainsi de nouvelles perspectives de communication à fort impact visuel.
- Applications promotionnelles de courte durée au sol en extérieur (parking, transports publics, salons, événements, signalétique, sécurité...).

### → Méthode d'application

Pose à sec. Chauffez le film avec un décapeur thermique (ou un chalumeau en gardant une distance suffisante pour ne pas brûler le film) puis le déformer avec un rouleau semi-rigide. Chauffez à nouveau le film pour le stabiliser en insistant sur les bords (voir conseils d'application en page 2).

### → Impression

Ce film est spécialement conçu pour l'impression jet d'encre à base solvant, éco-solvant et latex. Pour le réglage de l'imprimante et (ou) les profils ICC, veuillez télécharger à partir du site web du fabricant d'imprimantes. Les profils sont également disponibles sur le site [www.MACtac.eu](http://www.MACtac.eu)  
Conditions d'impression :

Salle d'impression avec une température de ± 23 ° C et de 50% d'humidité relative.

**Note :** afin d'obtenir un résultat optimal après l'application, il est important que le film d'impression soit parfaitement sec. La présence des solvants dans les encres rend les films d'impression mous et extensibles. Sans séchage l'adhésif perd ses propriétés initiales pouvant entraîner un soulèvement des bords, un retrait, un décollement du vinyle ou un transfert d'adhésif. C'est pourquoi nous recommandons d'utiliser une baie de séchage auxiliaire en sortie d'impression numérique et de respecter un temps de séchage

d'environ 24h (idéalement en position 30 °C). Quand le taux d'encrage utilisé est de 300 % ou plus, la baie de séchage additionnelle est vivement préconisée. Sans séchage approprié, les solvants d'encres résiduelles peuvent entraîner des difficultés de pose du film adhésif et altérer sa tenue à court ou moyen terme. En cas de non-disposition de baie de séchage, nous préconisons un séchage à plat. Le stockage bobine enroulée est fortement déconseillé car il empêche l'évacuation des solvants. Le temps de séchage préconisé dans ces conditions est de 24h à 48h en fonction de la charge d'encre. Il est recommandé de tester les produits destinés à l'impression numérique avec les encres et le film de lamination sur le support dédié afin de vérifier qu'ils conviennent à l'application spécifiée par le client.

### → Lamination

Afin de garantir les propriétés anti-dérapantes, nous préconisons de laminer les impressions avec le film de plastification **StreetRap Protect**. Avant de laminer, nous vous recommandons de veiller à ce que l'impression soit complètement sèche. Il est, par ailleurs, conseillé de faire sécher le matériel au moins pendant 24 heures avant d'être laminé ou transporté.

### → Durabilité garantie

La durabilité extérieure du film **StreetRap** non imprimé est de **3 mois** (trafic piétonnier). Afin d'obtenir des propriétés anti-dérapantes conforme à la norme ASTM C 1028-2007, le film doit être laminé avec le film de plastification **StreetRap Protect**.

### → Durabilité au stockage

2 ans sous condition de stockage de 15 à 25 °C ± 50 % d'humidité relative (dans l'emballage d'origine).

### → Transport

Afin d'en faciliter le transport, les films d'impression peuvent être enroulés, image vers l'extérieur, à condition de garder un diamètre minimum de 15 cm (sur mandrin de 6", par exemple). Si l'image n'est pas protégée par un film de laminage, assurez-vous que l'impression soit complètement sèche avant de l'enrouler. Afin de protéger vos impressions contre les agressions telles que l'eau ou d'autres liquides, vous pouvez les recouvrir d'un sac plastique. Durant le transport ou lors du stockage, évitez de les exposer à des variations importantes de température et d'humidité.

### → Propriétés physiques

	VALEURS MOYENNES Adhésif permanent	METHODE DE TEST
<b>Propriétés adhésives, 23 °C</b> Adhésion sur verre (N/25 mm) Pelage sur verre (N/25 mm) après 24 heures	46 ± 5 31 ± 5	FTM 9 FTM 1
<b>Stabilité dimensionnelle</b> Retrait : 48 heures à 70 °C (monté sur Alu)	max 1.0 mm	FTM 14
<b>Limites de températures</b> Température minimum d'application Plage de température d'utilisation	+ 10 °C - 40 °C à + 100 °C	
<b>Résistance à la flamme</b>	Auto-extinguible (lorsqu'il est appliqué sur des panneaux en aluminium)	

### → Remarque générale : facteurs influant sur l'adhésion

Les facteurs suivants peuvent modifier l'adhésion d'un produit auto-adhésif :

- Poussières, saletés, surfaces grasses ou oxydées
- Substrats à faible tension de surface tels que polyéthylène, polypropylène ....
- Applications à des températures inférieures à celles préconisées

### → Conseils d'application

- 1) La surface sur laquelle doit être appliqué le film doit être parfaitement sèche et propre (attention au remontée d'humidité après la pluie).
- 2) Le film doit être appliqué par temps sec à une température extérieure supérieure à 10 °C les jours où la température est supposée atteindre 18 °C. Afin d'assurer une bonne adhésion, le film doit rester au sec pendant au moins 24 heures après la pose. Ne pas appliquer le film en fin de journée lorsque la température risque de chuter.
- 3) Plus la surface est rugueuse et plus l'adhésion du film sera difficile. C'est pour cette raison qu'il est conseillé de chauffer le film, pour d'une part ramollir l'adhésif et assurer une meilleure adhésion, et d'autre part pour conformer le film à cette surface.
- 4) Appliquer l'adhésif sur la surface en commençant par retirer 5 cm de protecteur puis commencer l'application en pressant fermement un rouleau semi-rigide sur l'adhésif. Renouveler l'opération en retirant 20 cm de protecteur à la fois.
- 5) Chauffer uniformément toute la surface du film afin de le conformer au substrat (réglage du décapeur à 600 °C, la surface du film doit atteindre une température de 90 °C – il est conseillé d'utiliser un thermomètre infrarouge pour contrôler la température) puis revenir sur les bords avec une ferme pression pour s'assurer qu'ils sont pleinement en contact avec la surface (vous éviterez ainsi les infiltrations d'eau). Chauffer à nouveau sur toute la surface du film pour le stabiliser (le décapeur doit être réglé à 600 °C, la surface du film doit atteindre une température de 90 °C).
- 6) Afin d'éviter le décollement du film, il est conseillé d'arrondir les coins de l'image avec un cutter. Par mesure de sécurité, nous vous recommandons d'éviter de créer de multiples chevauchements (overlaps).

### REMARQUE IMPORTANTE

Tous les produits MACtac font l'objet d'un contrôle de qualité vigilant pendant tout le processus de fabrication; par conséquent, ils sont réputés être des produits de bonne qualité marchande et exempts de défauts de fabrication. Les informations publiées sur les produits MACtac sont basées sur des recherches que la société considère comme sûres; elles ne constituent cependant pas une garantie. Etant donné la grande diversité des usages possibles et le développement continu de nouvelles possibilités, l'utilisateur doit examiner attentivement les aptitudes et les performances du produit pour chaque utilisation précise et il assume seul tous les risques relatifs à cette utilisation. Le vendeur ne sera responsable des dommages qu'à concurrence du prix d'achat des produits et ne sera pas responsable des dommages indirects ou fortuits. Le présent document n'est qu'une simple traduction de la fiche technique originale en anglais disponible sur le site internet [www.mactac.eu](http://www.mactac.eu) dont les données font référence.

Toutes les spécifications de nos produits sont sujettes à modification sans notification préalable.

### SUPPORT TECHNIQUE ET COMMERCIAL



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