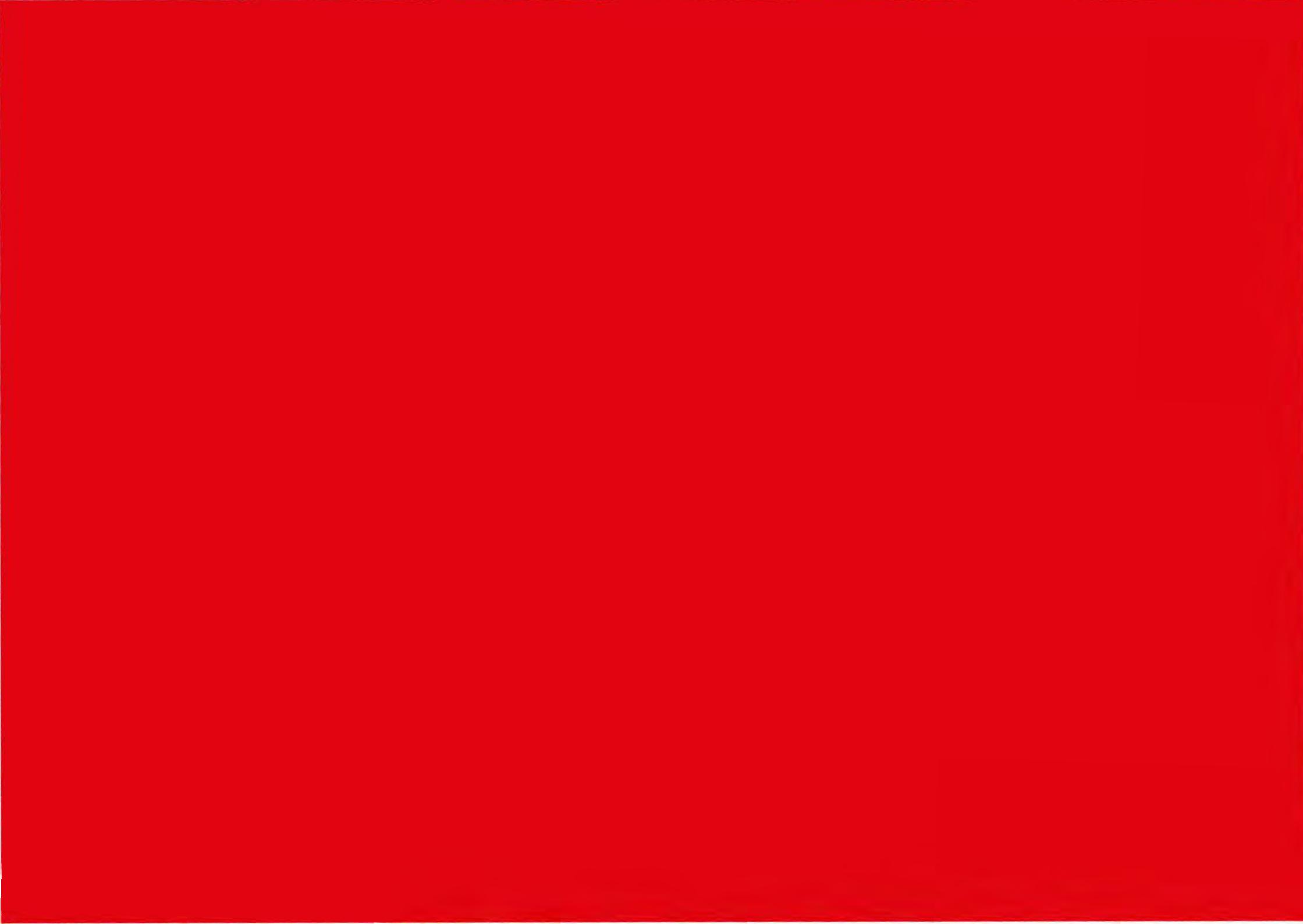


# Wayfinding Design Guidance



# Document Verification



Wayfinding Design Guidance  
Compliance  
NR/GN/CIV/300/01  
December 2020  
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1/128

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## KING'S CROSS SQUARE

- ← King's Cross Station
- ← Underground
- ← Taxis

← Entrance No entry →

4

← Entrance No entry →

2



# Foreward



Wayfinding Design Guidance  
Compliance  
NR/GN/CIV/300/01  
December 2020

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This Wayfinding Design Guidance presents Network Rail's requirements for the specification of new and updating of existing directional signs within Network Rail managed stations.

The intended audience for the Design Guidelines is Managed Station Managers, sign manufacturers and others involved in the planning, design and implementation of wayfinding signage for Network Rail.

This Wayfinding Design Guidance supports the statutory requirement to achieve consistency between installations undertaken in different locations. It illustrates the requirements for the provision of Wayfinding in a consistent manner that enables designs and compliance to be measured as described in the Network Rail standard NR/L2/CIV/150.

## Standards Reference

Station Wayfinding Design and Assurance Procedure  
**NR/L2/CIV/150**

# How to use this document

Wayfinding Design Guidance  
Compliance  
NR/GN/CIV/300/01  
December 2020

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3

4

## Section 1 **Introduction**

This chapter outlines the purpose and scope of this document, explains the field of design known as Wayfinding, and the stages involved in a Network Rail project.

## Section 2 **The Principles of Design**

This chapter sets out the salient design principles to take into consideration when undertaking a signage and wayfinding design project within a Network Rail Station environment.

## Section 3 **Wayfinding Strategy**

This chapter explores the process through which a designer can understand the project site and its movement framework, so as to formulate a wayfinding strategy.

## Section 4 **Information Structure**

This chapter provides guidance on how to present information in such a way that it can be grasped easily and effectively, translating complex data into valuable and meaningful information.

5

6

7

A

B

## Section 5 **Graphic Standards**

The graphic standards defined in this chapter have been designed to address traveller requirements and should be applied consistently across all signage and wayfinding applications in stations.

## Section 6 **Sign Family**

The suite of sign types is a family of elements that has a common design language. Each element is tailored to fulfil a certain function and convey a certain type of information in the passenger's journey.

## Section 7 **Integration with Other Systems**

This chapter deals with how wayfinding should integrate into other types of information at stations, how to establish a hierarchy and how to balance competing interests for space and attention.

## Appendix A **Document References**

Document references including books, PDFs and websites. A further reading list includes Design Guidelines, British Standards and National Standards documents.

## Appendix B **Acknowledgements**

Image and content credits and acknowledgements.



Hint and tips:

To quickly navigate this document click on any of the titles on this page.

To return to the contents page you can click on the Double Arrow symbol.

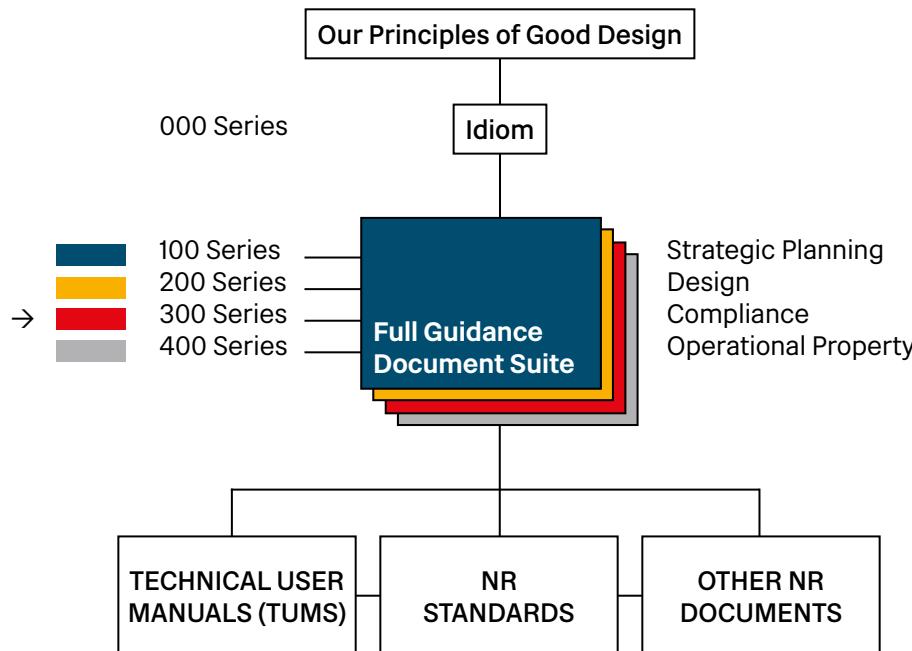
# How to use the guidance suite

Wayfinding Design Guidance  
Compliance  
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December 2020

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## The Network Rail Document Suite

You are here



## References to other documents

- █ Code of Practice Guidance
- █ National Standard
- █ Network Rail document
- █ European Standard

Example:

### Standards Reference

- Technical Specification for Interoperability:  
Accessibility for Persons with Reduced Mobility (2014)  
TSI PRM
- Design of Buildings and their Approaches to meet the  
needs of Disabled People – Code of Practice (2015)  
BS 8300

### NR Guidance Suite Reference

- Wayfinding Design Guidance  
NR/GN/CIV/300/01

This guidance has a Network Rail standards Green status, and the contents do not require derogation

A full list of relevant documents, and other guidance suite documents is contained in the appendix.

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↑ Way out  
↑ 1 to 3, 6 to 12 level access  
↑ 13 & 14 via lift from platforms 8/9 & 10

1-3, 6-11, 13 & 14 via stairs  
Way out  
1 to 3, 6 to 12 level access  
13 & 14 via lift from platforms 8/9 & 10

1

# Wayfinding Design Guidance

## Introduction

# Introduction

## 1.1 Purpose



At railway stations the design and positioning of rules for directional, orientation and identification information and signage is commonly known as wayfinding. Wayfinding encompasses all the ways in which people orient themselves in physical space and navigate from place to place.

The provision of effective wayfinding system is recognised as a means of assisting passengers in undertaking their journey efficiently, comfortably, accessibly, conveniently and safely.

This Guidance supports statutory requirements and achieves consistency between wayfinding signage installations undertaken in different stations across the Network. It sets out the requirements for the provision of wayfinding in a coherent and consistent manner that enables designs and compliance to be measured.

This Guidance supports compliance with primary legislation and regulations made under it. In particular, the Equality Act, Department for Transport / Transport Scotland Code of Practice Design Standards for Accessible Railway Station, and the European PRM Mobility TSI which prescribes consistency in visual information on signage. It is advisable to align with this standard in order to comply with European and National requirements of achieving a comprehensive, coherent and consistent system across the railway network.

This Guidance has been produced by Network Rail to support a Network Rail Wayfinding assurance standard and to establish wayfinding as part of a station information system for Network Rail's portfolio of managed stations. It illustrates the application of the principles described in the Network Rail Station Wayfinding Design and Assurance Procedure standard, NR/L2/CIV/150.

The Guidance fits within a framework of other design guidance and standards that should be consulted during the design process. These include various Station Design Standards which set out standards for design elements which may be interrelated with wayfinding at stations as well as the Rail Delivery Group Wayfinding Best Practice Guide which focuses on improving the passenger connections between the rail network and the first and last mile journey.

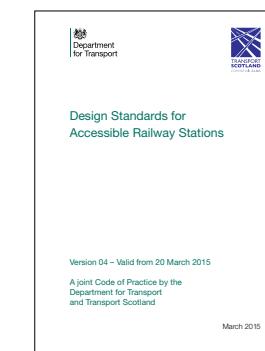
This Guidance supports the free and safe movement of people and addresses passenger service delivery issues of:

- a) Security and safety
- b) Visual information for passengers
- c) Efficiency
- d) Accessibility
- e) Ambience
- f) Branding and corporate design

This Guidance also supports applications for Landlords Consent from Network Rail.



2011  
Managed Stations  
Wayfinding Guidelines



2015  
Design Standards for  
Accessible Railway Stations

# Introduction

## 1.2 Scope



This Guidance applies to fixed directional wayfinding signage intended for use by passengers at Network Rail Managed Stations. This includes wayfinding signage in all passenger-facing areas including those which may be used infrequently by passengers.

This Guidance applies to the following types of proposed or actual Works when undertaken on buildings and civil infrastructure that is owned, or is to be owned, by Network Rail:

### 1. Enhancements:

Wayfinding signage that is delivered through a project that changes operational capability or function of the building or infrastructure.

### 2. Replacements:

Signage replacement where there is no change to the functionality of the building or infrastructure.

### 3. Renewals:

Signage that is replaced at the end of its design life.

### 4. Temporary works:

Signage supplied on a temporary basis for no longer than six months.

### 5. Permanent works or staged construction:

Signage supplied on permanent works, or as a stage in construction where temporary works may have the same impact on the infrastructure as permanent Works

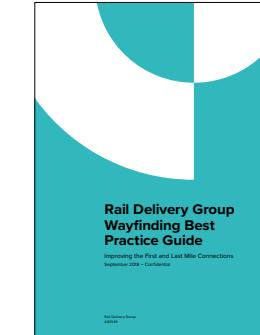
Works which are not covered by this Guidance:

1. Non-public or operational lineside signage;
2. Heritage and listed building requirements.
3. Emergency Do Not Enter (EDNE) signage
4. Electronic Visual Passenger Information Systems installed on stations.

This Guidance is intended for Network Rail and non-Network Rail parties involved in the design, remitting, design approval, installation and bringing into use of signage and wayfinding for station premises.

### Standards Reference

Station Wayfinding Design and Assurance Procedure  
**NR/L2/CIV/150**



2018

Rail Delivery Group Wayfinding Best Practice Guide



2020

Station Design Guidance

## 1.3 What is Wayfinding?



Wayfinding is a little known field of design that crosses a number of disciplines, including urban design and planning, product design, graphic design, information design and behavioural psychology. At its most essential, wayfinding is directly concerned with fundamental human needs, such as being able to travel effectively, to find one's destination in time, to let others know where one can be found. To assist people in finding their way, signage is often added as an afterthought to the design of environments. However, the best design outcome would be to consider wayfinding at the start of any space planning exercise.

'Wayfinding' refers to the design field devoted to planning and designing coherent systems which incorporate maps, signs, directional markers and the insertion of small clues throughout the built environment that enable orientation. The wayfinding system codes the environment – through naming systems which identify, colour which differentiates, numbering systems that perceptually order the space, and the imposition of hierarchies which cast greater importance on some places rather than others. Good wayfinding systems employ explicit signs and information as well as implicit cues and symbols.



Fig.1 London Kings Cross

# Introduction

## 1.4 Project Stages



The Governance for Railway Investment Projects (GRIP) define the eight stages of a Network Rail project. They are used to reduce risks and manage the projects efficiently.

RIBA has organised the process of briefing, designing, constructing and operating building projects into eight stages and details the tasks and outputs required at each stage.

The structure of the RIBA Plan of Work was overhauled in 2020 to better meet Design and Delivery as Network Rail Standard NR/L2/CIV/150. The two processes compare as shown here.

PREPARATION		DESIGN				CONSTRUCTION		IN USE						
GRIP 1: Output definition	GRIP 2: Feasibility	GRIP 3: Option selection	GRIP 4: Single option development	GRIP 5: Detailed design	GRIP 6/7: Commission, test, hand back	GRIP 8: Construction and commission	RIBA 0: Strategic definition	RIBA 1: Preparation and brief	RIBA 2: Concept design	RIBA 3: Spatial Coordination	RIBA 4: Technical design	RIBA 5: Construction	RIBA 6: Handover and close out	RIBA 7: In use
The first stage is defined by the requirements of the project.	The scope and constraints of the project are highlighted and a business proposal is developed, alongside initial design proposals.	Solutions are developed to the flagged constraints in GRIP 2 and an economical business strategy is formed.	The resolved strategy (in GRIP 3) begins and outlined designs developed.	Detailed design drawings, costs and timings are produced.	The project is constructed, tested and commissioned.	The contracts are settled and the project comes to a close.								

**Standards Reference**

Engineering and Architectural Assurance of Building and Civil Engineering Works  
NR/L2/CIV/003

At GRIP 3: Wayfinding Signage Strategy should be produced and included as part of NR/L2/CIV/003 F004 Architectural and Layout Acceptance submission.

At GRIP 4: Wayfinding Signage Design Consultant should be appointed. A wayfinding scheme should be produced and included as part of the NR/L2/CIV/003 F004 Architectural and Layout Acceptance submission.

Fig.2 Project stages

← Platforms  
6 and 7  
Via escalator

Platforms →  
0 to 5

Welcome to  
King's Cross

Welcome to  
King's Cross

Platforms →  
0 to 3

Platforms →  
0 to 3

Platforms →  
0 to 3

Platforms →  
4 and 5  
Via lift

↑ Platforms  
0 to 3

Platforms →  
6 and 7  
Via lift

↑ Platforms  
0 to 5

# Wayfinding Design Guidance

## The Principles of Design



## 2.1 The Station Environment – (De)cluttering



The objective of the signage and wayfinding designer is not to add more words, signs or clutter into spaces but instead to work collaboratively with architects and those responsible for the station layout to design spaces in which people can intuitively navigate.

Planning intuitive spaces requires:

- A layout which provides clear sight lines toward entrances, exits, and vertical circulation cores;
- An understanding of how the layout of spaces affects pedestrian circulation;
- A clear pattern of routes and hierarchy of routes through spaces;
- An understanding of how finishes, lighting and subtle design cues may guide people's movement more powerfully than a written message.

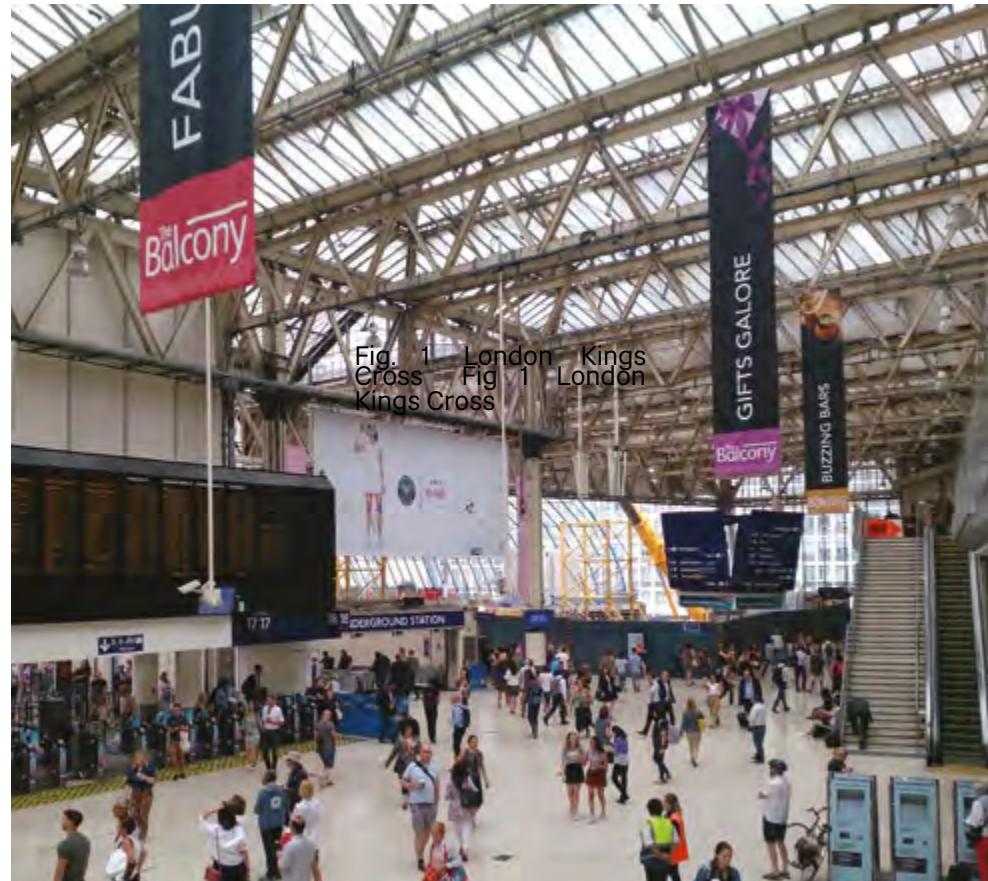


Fig. 1 London Kings Cross  
Cross Fig 1 London Kings Cross  
Kings Cross

### Cluttered

#### Information clutter

Platform information competes with train operator and station information, advertisement and retail signage.

#### Lack of visibility

Signage colours do not stand out against the cluttered background. Text size is frequently too small to be read from a convenient distance.

#### Product aesthetics

In many cases current signage presentation gives an impression of lack of consideration for aesthetics.

#### Poor maintenance

Station assets do not have consistent ownership and are often not kept up to the same level.

## 2.1 The Station Environment – (De)cluttering



In cases where a space is not legible, wayfinding information should be presented in such a way that it engenders efficient and effective understanding. The success of signage rests on how well information has been organised for travellers to grasp, process and utilise for making quick decisions during their journey.

Stations often contain many areas of considerable historical and architectural value. Most Network Rail managed stations have listed building status and the planning and consents team should be consulted to establish all planning and listed building consent obligations.



Fig. 4 Consistent and predictable placement at London Bridge Station

### Clean and consistent

#### Consistent and predictable placement

Consideration given to the consistency of signage placement and mounting heights can significantly improve the predictability of information for travellers.

#### Appropriate spacing between signs

To enable clear visibility, signage should stand out from its environment. A predictable rhythm of signage should be established in order to set expectations for the traveller. Signage which is squeezed together without consistent layout consistency is more difficult to follow.

#### Clear sight lines for signs

Signs should be placed perpendicular to the main flow of passenger movement to allow the passenger to find the relevant wayfinding information intuitively.

#### Clean layout

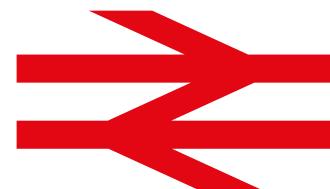
Information designed according to a set of definitive standards – for layouts, letter heights, line spacing, colour palette – should read as a system and give the passenger confidence in the accuracy of the information.

## 2.2 Network Rail Brand – Public and Corporate



Much of the British public associates the National Rail symbol for public use with national rail travel in the UK. This symbol has become identified with railway stations and is implemented both to direct to managed stations, for instance on Transport for London directional signage, as well as for station identification itself. Therefore, Network Rail's corporate logo is not clearly understood by the public, and can cause confusion if used on wayfinding signage. For clarity, this corporate logo should not be introduced on directional signage.

### Public use



This symbol was designed in 1966 by the Design Research Unit and was implemented in the same year. It is used within the public realm and on station identification, indicating National Rail stations as well as franchised stations. Travellers associate the symbol with train travel in the United Kingdom.

### Corporate use



This logo was designed in 2002 and is for corporate use only. It is used within the Network Rail corporation and should not be visible on wayfinding elements.

The double arrow symbol is owned by the Department for Transport which licenses its use. For additional information regarding its use in specific areas please refer to the National Rail Design Guidelines NR012.

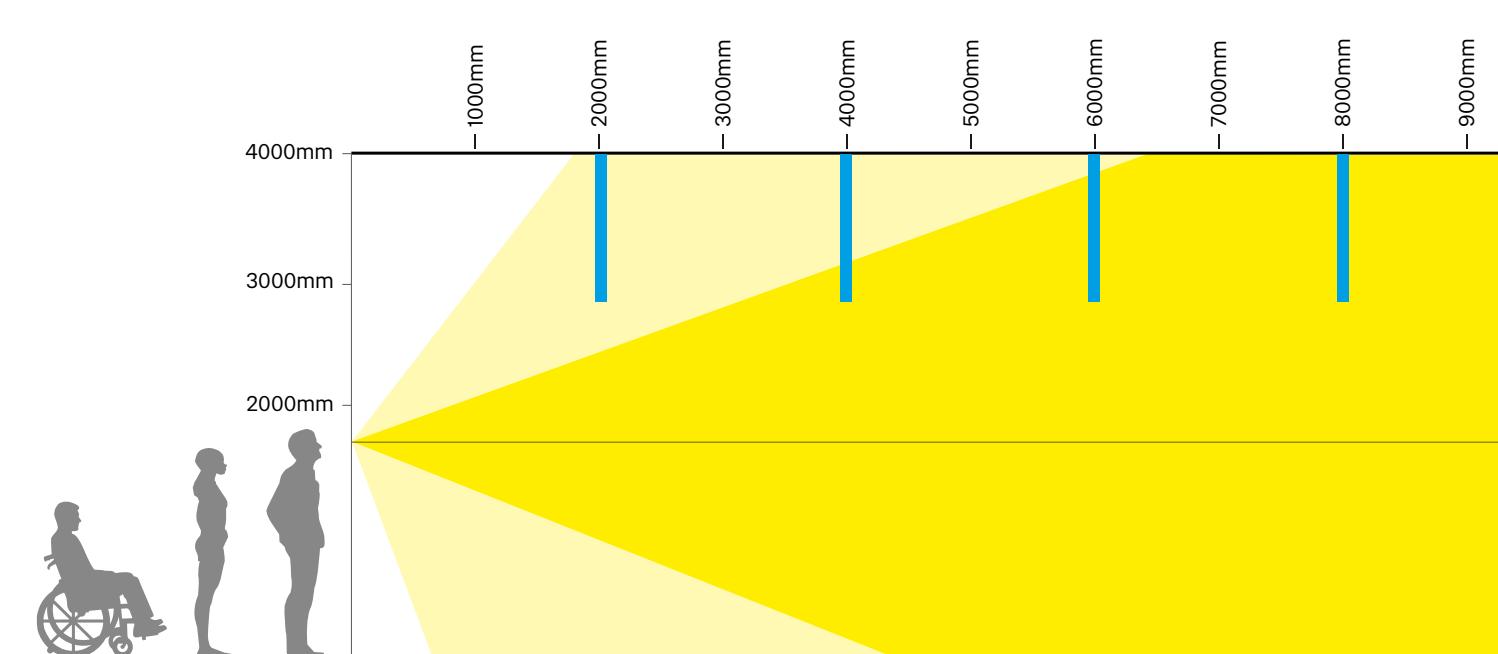
For colour references please refer to Colour Palette, section 5.4 of this document.



**NetworkRail**  


**Here to help**

## 2.3 Sight Lines and Legibility



### Typical Viewing Angles

In order to be functional, signage needs to be legible. The first step to understanding legibility is to understand the human Field of View. The average visual field for a person with full binocular vision is roughly 160 degrees horizontally and 120 degrees vertically, without turning the head. Part of this visual field is peripheral vision, and not suited for recognition of characters and symbols. For signage to be read comfortably, it should be positioned at heights and distances that are comfortable for reading without strain.

Fig. 6 Viewing angles

Please refer to RIS-7700-INS, the Rail Industry Standard for Station Infrastructure, for additional information on mounting heights for signage.

# The Principles of Design

## 2.3 Sight Lines and Legibility

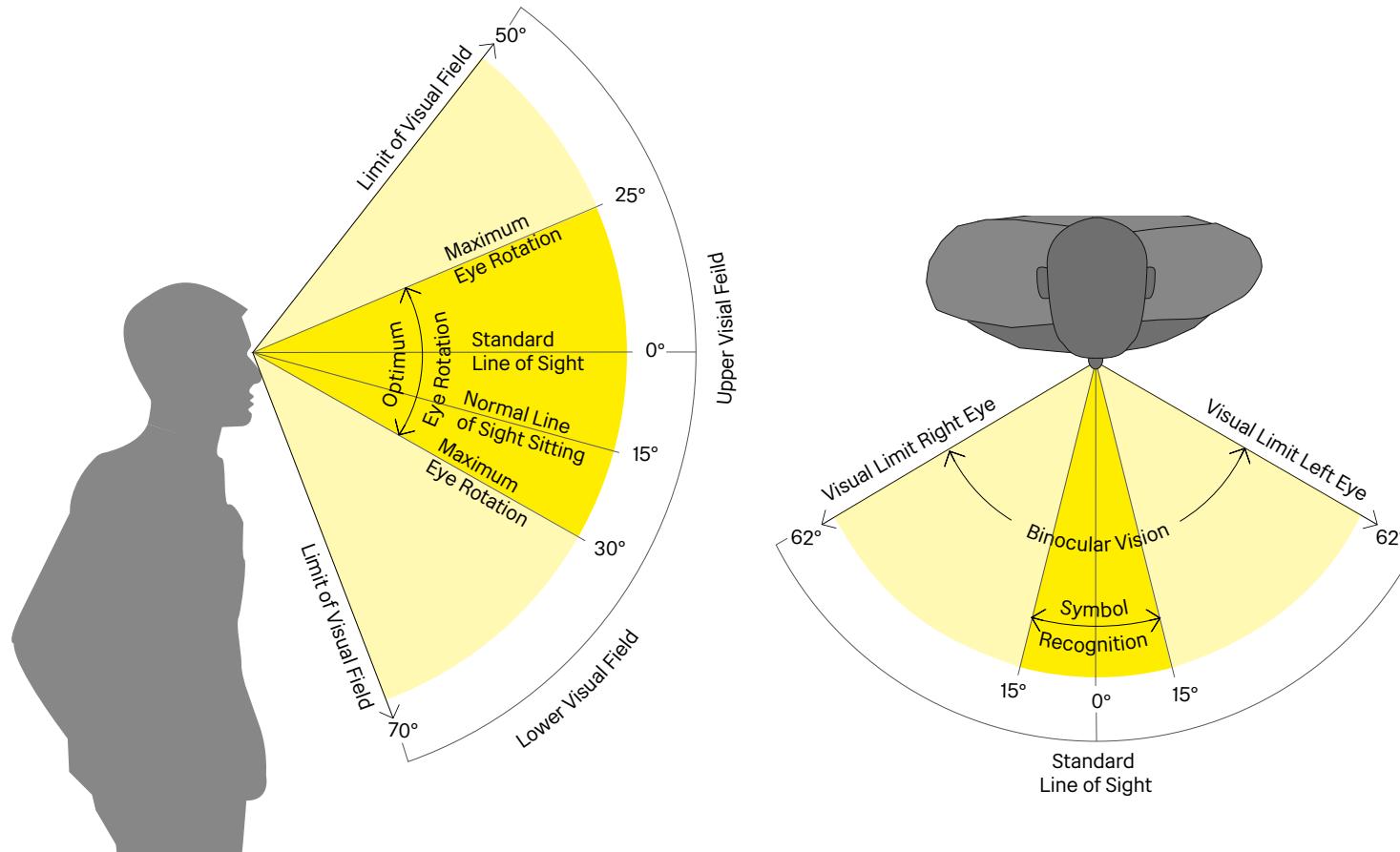


Fig. 7 Visual Fields

### Human visual fields

People tend to read signage from different distances based on whether it is placed overhead or at eye level. From overhead signage, they tend to stand in 4–6m distance in order to read it without straining their neck too much, from eye-level signage they tend to stand 1–2m away.



Caffè BITAZZA

FRIDAYS

Piccadilly Mall

• Taxis • Journey Planner • Station Information

• Shopping  
• Performers B to E  
• Metrolink • Text Local Busstop

Tickets and Travel Centre

• Bookings  
• Enquiries  
• Sales

• Amex George  
• GEICO

Arrivals  
Departures

• Car Park  
• Piccadilly Line  
• District Line

Arrivals  
Departures

Wayfinding Design Guidance  
**Wayfinding Strategy**

3

# 3.1 Visibility to and from Decision-Making Points

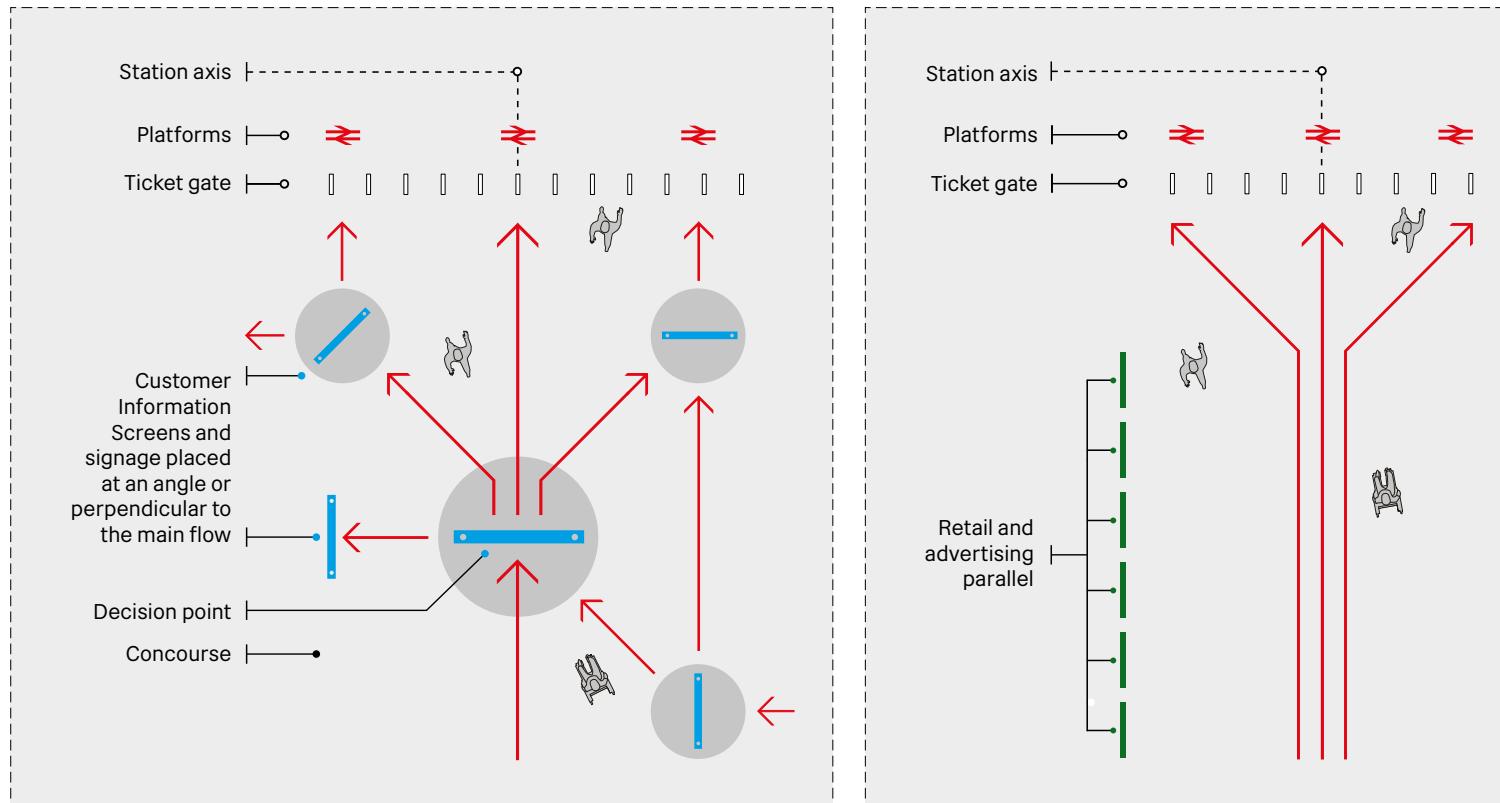


Fig. 8 Signage Location Schematic Diagrams

In stations, it is critical that there are clear lines of sight between the passenger decision-making points and the signage which is providing information for that decision to be made. Signs should be located with a common rationale, considering how they will be read, by whom, from which direction, at which height, and in relation to other elements that exist or will exist within the space.

The location of signage should always follow from the passenger circulation mapping and decision point analysis, and not the other way around. Signs should be placed perpendicular to the main paths of movement, so that they can be seen by flows of passengers while moving.

## Standards Reference

Station Wayfinding Design and Assurance Procedure

NR/L2/CIV/150

## 3.1 Visibility to and from Decision-Making Points



1.

### Passenger Flow Mapping



2.

### Identifying Decision Points



3.

### Locating Signs

Care should be given to follow this sequence:  
1. passenger flow mapping;  
2. identifying decision points;  
3. locating signs.

This sequence has often not been considered in existing station design, leading to cross-flow and friction.

Fig. 9 Wayfinding Project Sequence

## 3.2 Passenger Flows and Destinations

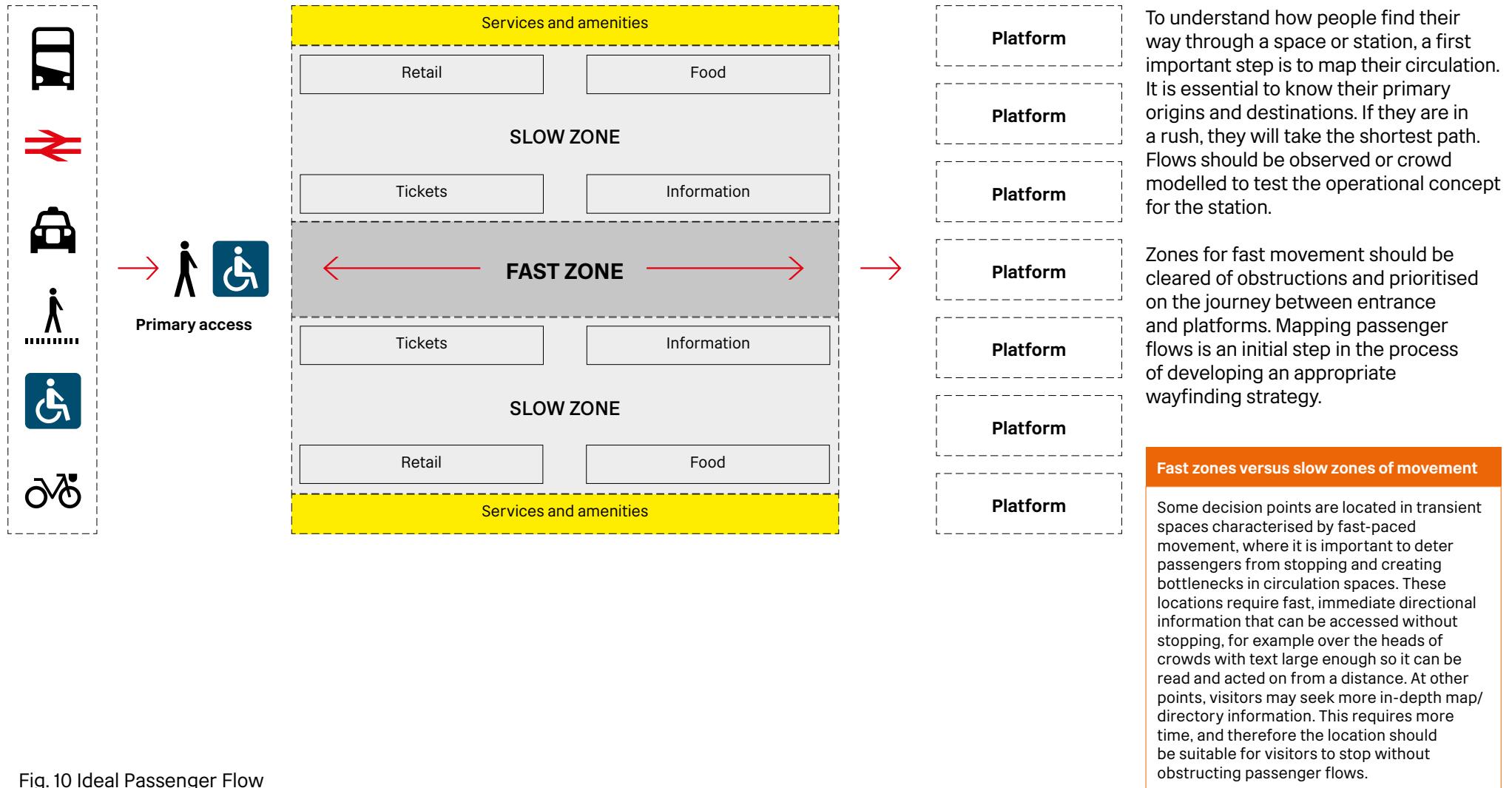


Fig. 10 Ideal Passenger Flow

## 3.2 Passenger Flows and Destinations

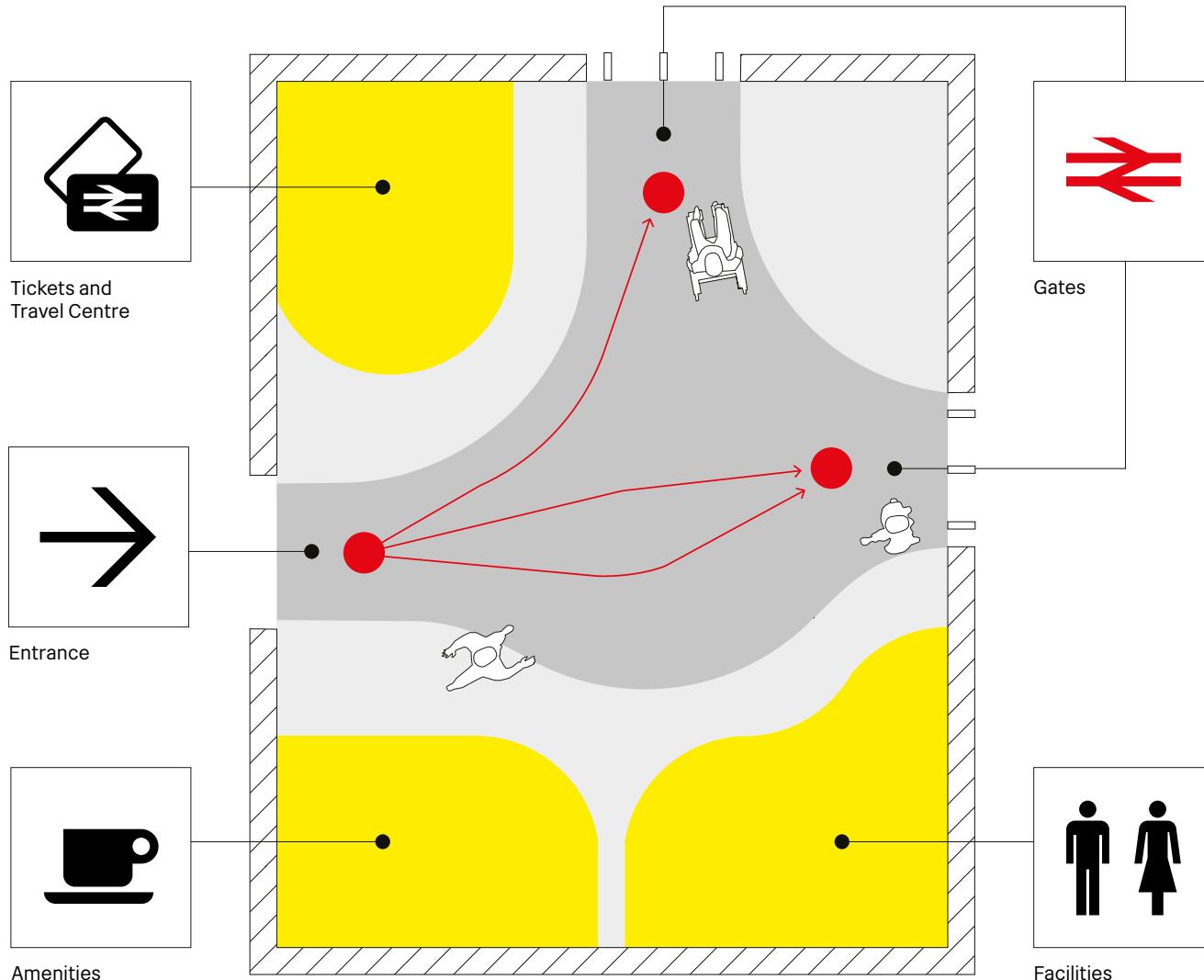


Fig. 11 Primary Flows and Decision Points

- Movement spaces (fast zone)
- Decision points
- Opportunity spaces
- Dwelling spaces (slow zone)

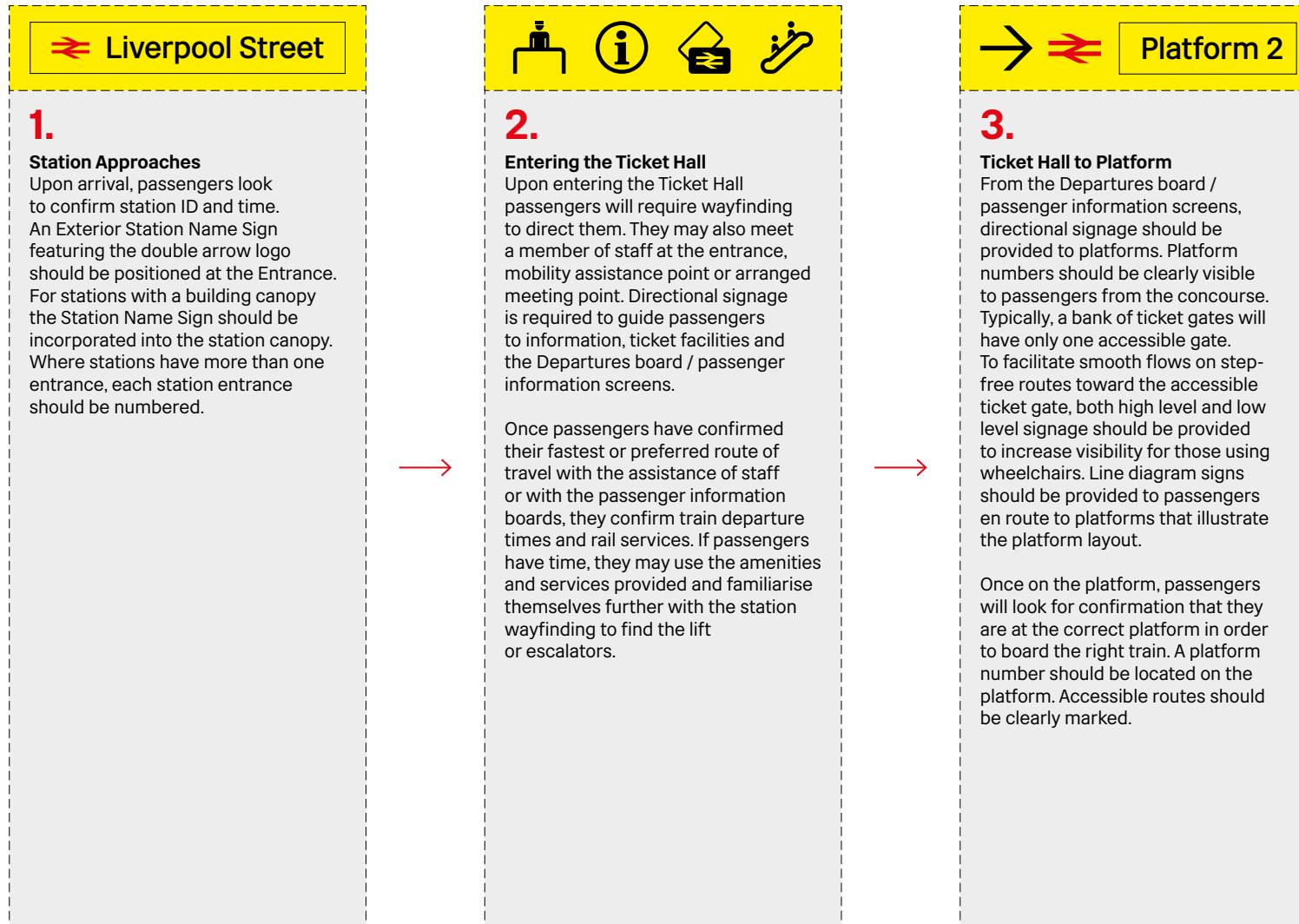
### Decision points

Decision points are locations where the passenger make a wayfinding decision. For example, the passenger will choose whether to continue along the current route or take a turn at an intersection of paths.

### Passenger flow analysis

By analysing passenger flows within movement spaces, it is possible to determine fast zones (for time-poor passengers) and slow zones (for time-rich passengers). Opportunity spaces are thereby created outside fast zones, where passengers stop in dwelling areas to wait for travel information or make use of retail and other station facilities.

## 3.3 Whole Passenger Journey – Departures

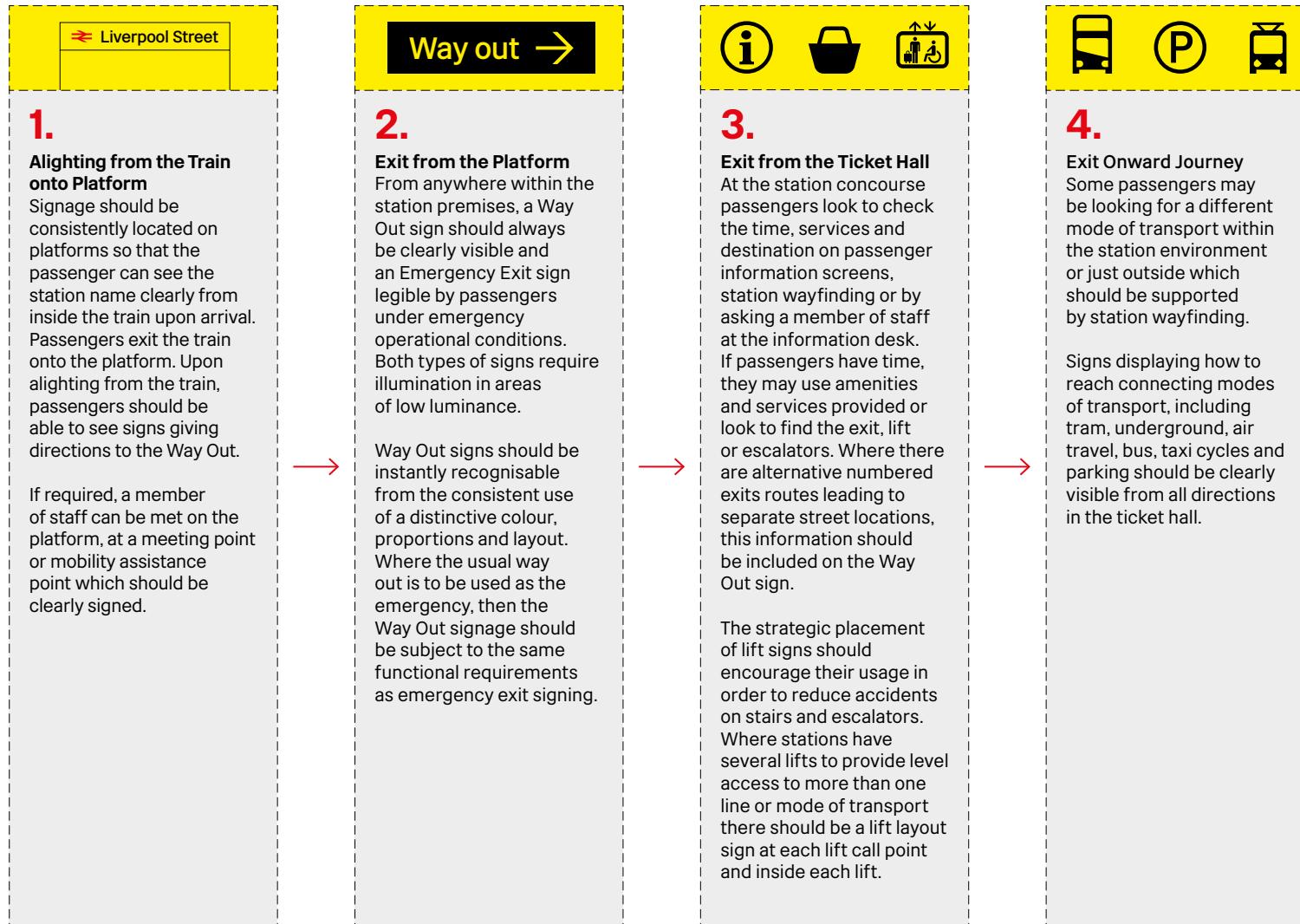


A passenger will pass through a number of distinct stages on the journey to and from the station. At each stage during the journey, the passenger will ask a particular question, relating to the space and the decision to be made there, and these stages together make up the Whole Passenger Journey.

For information to be placed effectively at stations, a common approach is to be taken at all stations wherein specific information should consistently presented and positioned at each stage of the journey, regardless of constraints imposed by the station design. The journey of a passenger on departure from a station is shown on this page and the journey on arrival to the destination station is shown on the following page.

Fig. 12 Departure Journey

## 3.4 Whole Passenger Journey – Arrivals



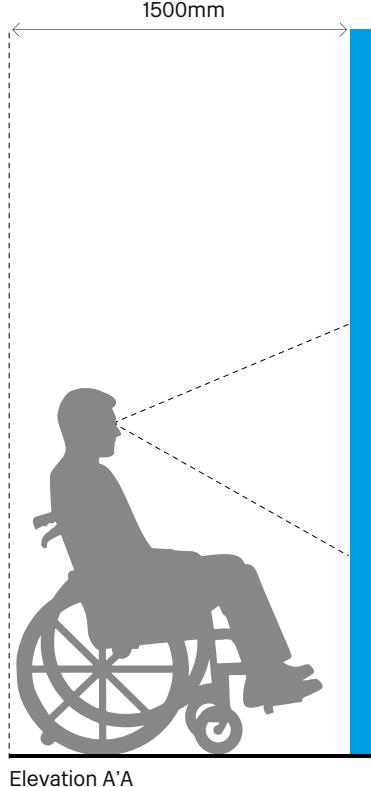
On arrival into a new city, for example, upon alighting and accessing the main concourse, a passenger may ask 'where is the taxi stand?' The answer should appear within the concourse in the form of signage.

Signage should only respond with as much information as is absolutely necessary. This is termed Progressive Disclosure of Information and is a principle that should guide the signage information design and placement. Otherwise, if asked to think several steps ahead and to remember these details amongst the other distractions around, the passenger may become overloaded and forget essential information along the way.

Fig. 13 Arrival Journey

# Wayfinding Strategy

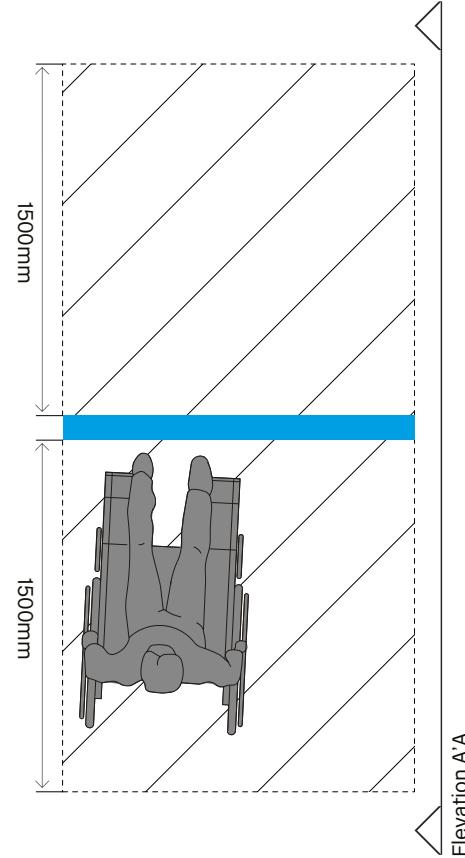
## 3.5 Inclusive Design



Elevation A'A

### Minimum Viewing Zone

When locating free-standing signage within a station environment, a suggested wheelchair-safe waiting zone of 1500mm should be space-proofed, to facilitate a comfortable and safe space without impacting on pedestrian flows.



Elevation A'A

For any public project, there will be a broad audience with a range of different needs and abilities which may affect how they read signs. Inclusive design caters to all groups equally.

For example, up to 8% of the male population and up to 0.5% of the female population are affected by some form of colour blindness, with red-green colour blindness being the most common. Due to this fact, colour should not be relied upon on its own to convey important distinctions, but should be

accompanied by a secondary measure to check the wayfinding message is universally accessible. It is not only the choice, but also the pairings of colours that matter. In order for text on signage to be visible, it needs sufficient contrast with its background. A common rule of thumb is that the contrast between the foreground colour and background colour should be at least 70%. Colour contrast between foreground and background can be calculated through comparing the Light Reflectance Values (LR) of the two colours. Signs should also be well illuminated for clear reading.

The signage designer should also take into consideration such factors as capitalisation when designing signage. Words written in all capital letters can be harder to read than those formed of upper and lower case, including for people with dyslexia and vision impairments. Because lowercase letters have more distinctive shapes and greater variations than capital letters, the combination of lowercase letters creates a more distinctive 'word footprint', making them easier to distinguish and to read than an all-cap 'word footprint'. The spacing between letters is important to check that letters do not appear to blur together for people with vision impairments.

### Standards Reference

The Sign Design Guide (2000)

Design of Buildings and their Approaches to meet the needs of Disabled People – Code of Practice (2018)

BS 8300:2018

# Wayfinding Strategy

## 3.5 Inclusive Design

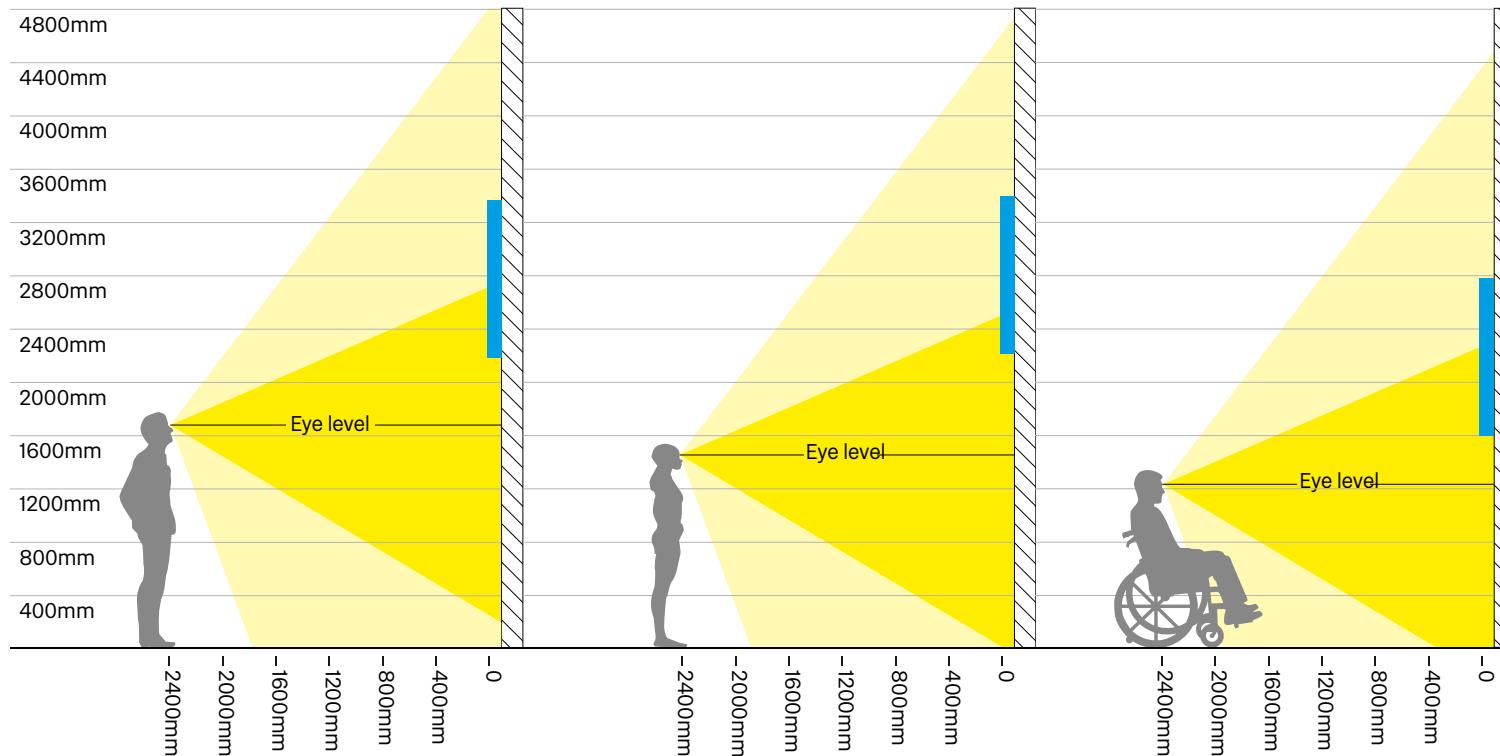


Fig. 14 Accessible Wall-Mounting Heights

### Accessible Wall-Mounting Heights

On step-free routes, it is advisable to provide signage at both a high and low level to accommodate the needs of all users.

For persons of reduced mobility, who may be travelling through the station via step-free routes, it is advisable to provide signage on these routes at both a high and low level so as to accommodate their needs. These and other principles of good sign design can be found in the reference documents provided below, including The Sign Design Guide (2000) and British Standards BS8300. Additionally, statutory signage regulations should be observed to check that will be usable by people with various types of needs, and will often stipulate standards for aspects such as tactile lettering, braille, pictogram sizing and letter heights.

The following diagrams illustrate comfortable viewing angles, distances and minimum viewing zones for different user groups.

## 3.6 Mapping User Flows and Decision Points

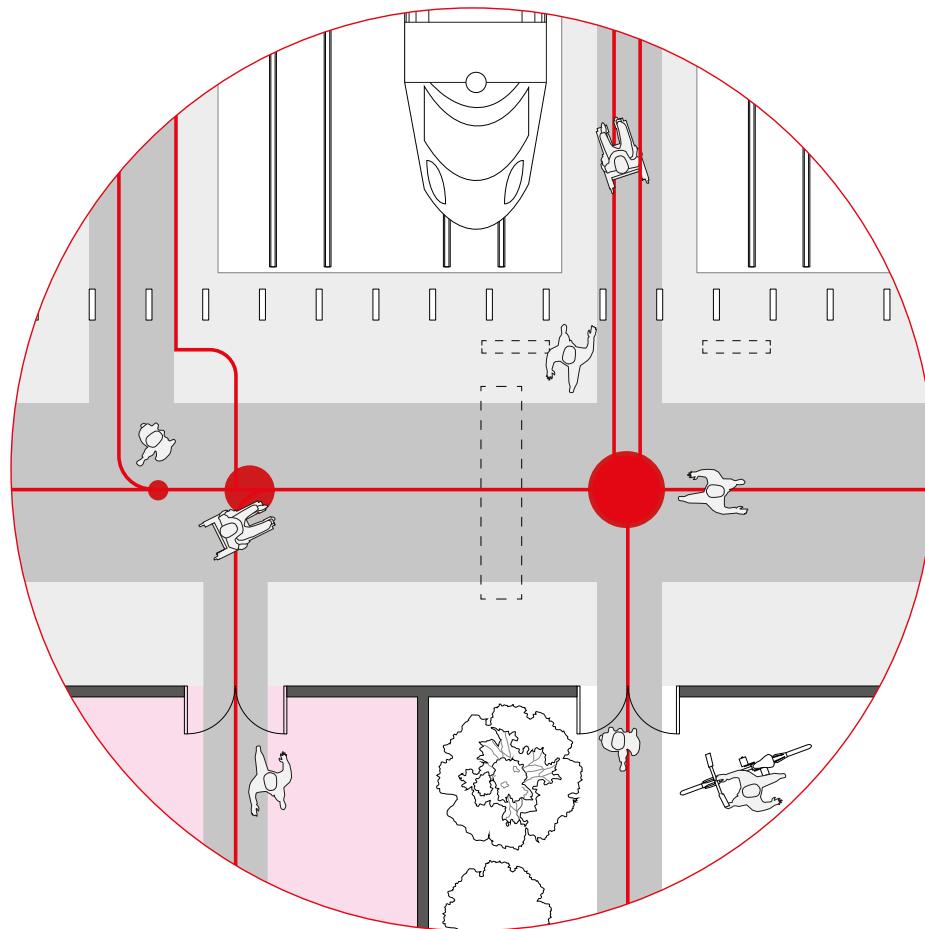


Fig 15 Schematic  
Diagram Decision  
Points

- ● ● Decision points
- Visitor routes
- Circulation zone – main axis
- Circulation zone
- Other transport services
- Customer Information Screen

Signage should be placed at decision points or as close to the decision point as possible, taking into account the user flows and mounting points available in the space. Placing a sign after the decision point may cause a passenger to backtrack, which can be detrimental in a crowded flow and can cause loss of time en route to a train.

Decision points may be at intersections of paths or at an entrance to a building. They can also be in front of a lift or at the top of a staircase or escalator.

## 3.7 Signage Location Planning

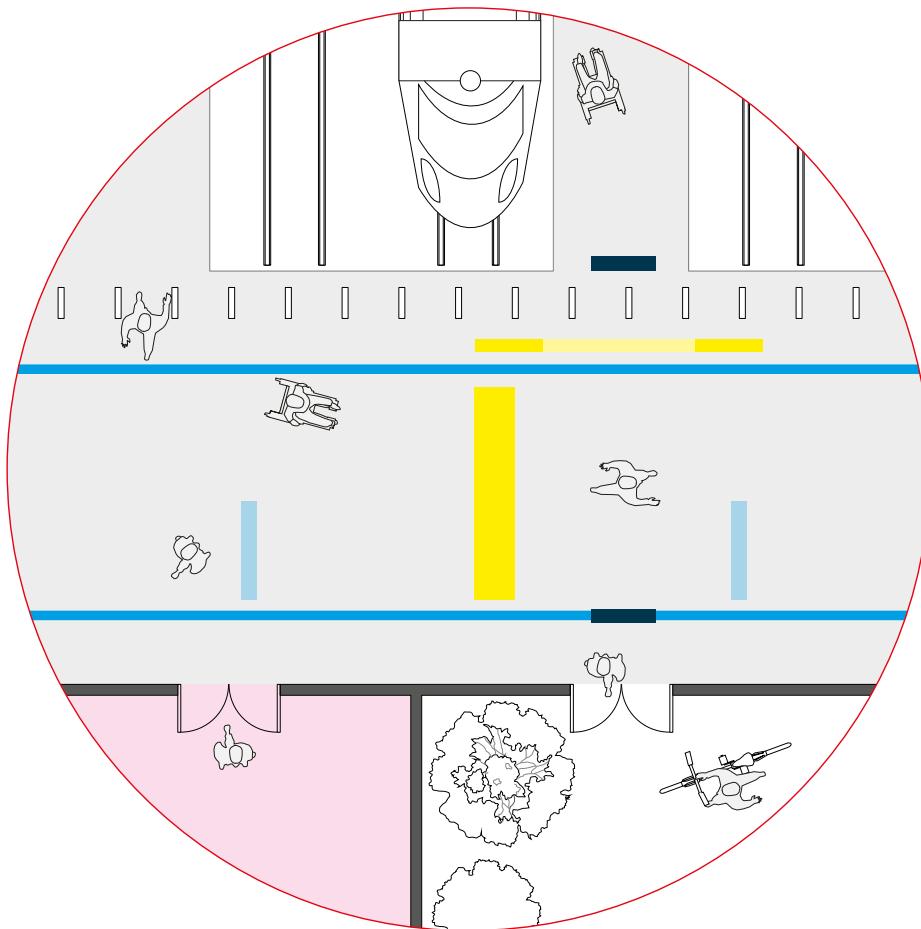


Fig 16 Schematic Diagram  
Signage Location Planning

- Way Out sign
- Perimeter ribbon
- Totem
- Customer Information Screen
- Platform number sign
- Circulation zone
- Other transport services

Having identified the decision points within a project, the next step is to pinpoint locations for wayfinding and signage in a form of documentation that can be used by the extended design team and contractor. Typically, a CAD programme may be the most suitable software, as locations should be recorded with accuracy.

At this stage, the location plans represent a strategy for signage within the site, charting the categories of signs, the specific typologies of signs, their locations and unique address within the sign type series.



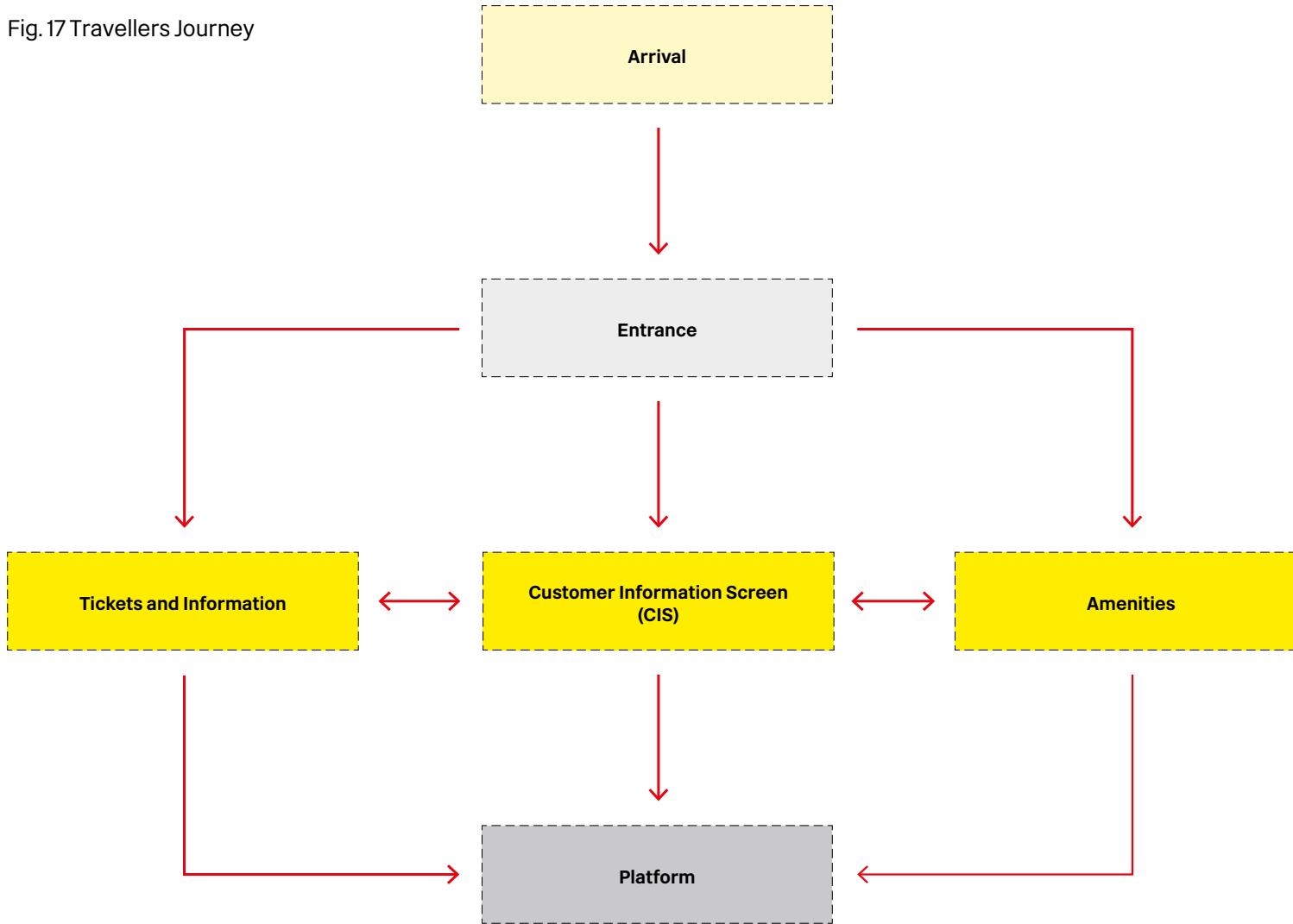
# Wayfinding Design Guidance **Information Structure**



## 4.1 Progressive Disclosure of Information



Fig.17 Travellers Journey



The wayfinding design process at stations starts with analysing flows, mapping decision points and locating signs at these points. In parallel, traveller journeys and the information these travellers require are defined and mapped into the space.

At this point, the messages on signage should be planned. In so doing, the principle of progressive disclosure of information should be applied so that only as much information as necessary is given at each specific decision point. This avoids overloading the visitor with too much complexity.

## 4.2 Hierarchy of User's Needs



Maslow's hierarchy of needs is a psychological theory put forward by Abraham Maslow in 1943, which uses a classification system to describe how human needs correlate with motivational behaviour. Four classes of human needs are represented as a pyramid with the more basic needs at the bottom and the more acquired needs and desires at the top. Starting at the base and rising upward, an individual should have the needs of each stage met within themselves before their motivation rises to the next level.

Much the same way, a hierarchy of importance should be followed within station signage design, which correlates with station users' needs.



Fig. 18 Hierarchy of importance triangle

## 4.3 Information Hierarchy



### 1. Essential journey information

- Train travel
- Way Out



### 2. Onward journey information

- Transport Interchange
- Journey inside station



### 3. Amenities & facilities

- Toilet and shower facilities
- Main station facilities
- Other amenities



### 4. Commercial establishments

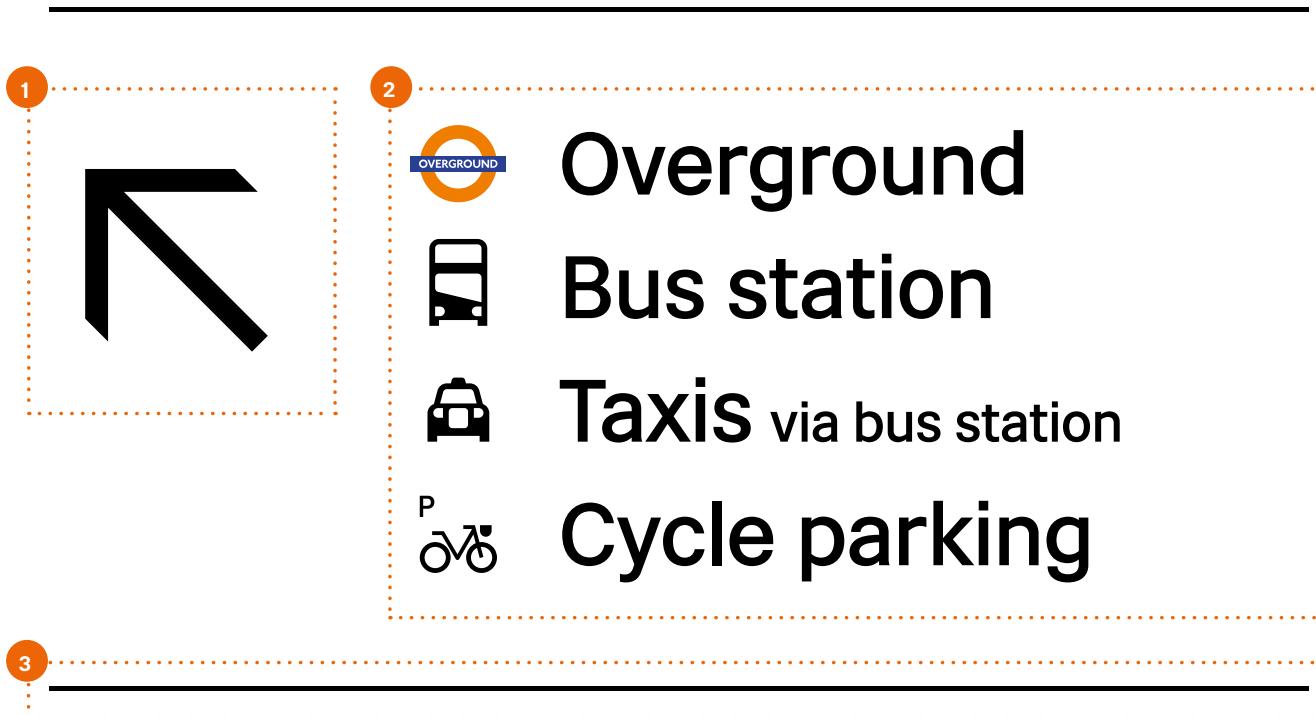
- Restaurants, cafes, shops, hotels



A clear and consistent hierarchy of information is essential to wayfinding. This hierarchy defines how information is presented consistently across all channels of information. Designing an information hierarchy requires thinking from the passenger's point of view about their primary, secondary and tertiary needs and then using graphic means to emphasise importance.

As passengers read a list of destinations in signage from the top down, the hierarchy of information for passengers should start with the station user's most critical needs at the top, working down to their least essential needs. The high importance of safety, directional and mandatory signage should be reflected visually in the information design. Essential rail travel, tickets and Way Out information should be listed at the top, followed by onward journey information, internal station circulation, amenities and facilities, working down to less essential commercial services at the bottom.

## 4.4 Information Grouping



To organise information for efficient wayfinding, destinations should be grouped by direction. This strategy streamlines abstract textual information with direct spatial information to facilitate passengers' understanding.

A consistent classification, structure and order of information should be established across Network Rail's Stations.

### 1 – Directional arrow

Grouping the information by direction allows the use of only one arrow. A larger arrow visually binds the group of information and should lead travellers to their destination faster. The arrow is part of the typeface design, complimenting the clean and timeless design.

### 2 – Hierarchy

The wayfinding information is grouped by direction, with a maximum of 4 per group. Within each group, the information is organised by importance.

### 3 – Lines

Lines have been added on the totems to more clearly divide the different directions.

# Information Structure

## 4.5 Use of Language

Wayfinding Design Guidance  
Compliance  
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### Abbreviations

This list of Network Rail abbreviations and punctuation is indicative. Any queries should be addressed to Network Rail Managed Stations Design team. Abbreviations or contractions should only be used where space is limited. Abbreviations do not include a full stop. For example: Rd - Road, Sq - Square, Saint Austell - St Austell. Where unavoidable, the following permitted abbreviations can be used:

- N North
- E East
- S South
- W West
- Jn Junction
- Ctl Central
- Rd Road
- Sq Square
- St Saint or Street
- Pk Park

### Ampersand

Avoid using the ampersand and use 'and' instead. For example: Left luggage and lost property. The exception to this is station names (see 'Station names' in this section).

### Hyphenation

When used in continuous text, a character space should not be inserted either side of the hyphen. For example: self-service. A hyphen should not be used to indicate a time or day period, the term 'to' should be used instead, for example: Monday to Saturday or 18 00 to 21 00.

### Dates

Dates should be displayed in the order of day, month, year. Suffixes such as 1st or 2nd should not be used. The preferred abbreviation for days and months are as follows: Mon, Tues, Wed, Thurs, Fri, Sat, Sun, Jan, Feb, March, Apr, Jun, Aug, Sep, Oct, Nov and Dec.

### Money

The characters '£' and 'p' should not appear together in the same figure. For example values equal to or greater than £1 should be shown with the '£' symbol, ie. £2.00 and values less than £1 should be shown with the character 'p', i.e. 20p. The decimal point should be represented with a full point.

### Numerals

The terms 'number' and 'No.' should not be used in phrases such as 'platform 5'.

### Station names

Station names should be shown in full, as in the all line timetable, i.e. Glasgow Central. In this case the ampersand is used for joint name, e.g. Priesthill & Damley.

### Telephone numbers

All telephone numbers should be stated in full, ie. 020 7123 4567, without hyphenation and preceded with the word 'telephone'.

### Time

All times should be shown in the 24hour clock. A character space, rather than a punctuation mark, should be inserted between the hours and minutes, for example: 20 00.

### Upper and lower case

Upper case letters (capitals) are only used for the initial letter of a sentence or line of information on a sign panel. All other text is to be displayed in lower case, with the exception of the following:

- Places, e.g. Ryedale House
- Station names, e.g. Euston Station
- Tickets and Travel Centre

Language on signage should be direct and simple, allowing the passenger to:

- Find what they need
- Understand what they find
- Use what they find to meet their needs

Principles that can be employed when drafting sign messages which should help to confirm this include:

- Logical organisation with the passenger in mind
- Non-aggressive tone of voice
- Active voice, short sentences
- Common, everyday words
- Easy-to-read design features

5

Wayfinding Design Guidance  
**Graphic Standards**

**Network Rail  
Typography  
Sign systems  
Travellers  
Super graphics  
Journey  
Train stations  
On time**



abcdefghijklmnopqrstuvwxyz  
ABCDEFGHIJKLMNOPQRSTUVWXYZ  
1234567890

Rail Alphabet 2 SIGN Medium

Fig. 20 New Typography

This publication is the first to use Network Rail's new font named Rail Alphabet 2. It has a strong family resemblance to the original Rail Alphabet lettering, designed in the Sixties, by Margaret Calvert and Jock Kinneir. An important feature being the use of upper and lowercase black letters on a white background, for signs.

Rail Alphabet 2 is a continuation and evolution of the original Rail alphabet and also that of New Rail Alphabet. Rail Alphabet 2 has been designed by Margaret Calvert in collaboration with Henrik Kubel. The font system consists of a single weight for signs and a family of 3 font weights with accompanying Italics, specifically engineered for text use. The font retains the overall proportions of the original alphabet but has been crafted in a lighter weight to compliment Network Rail's new way-finding system (designed by Spaceagency). The construction of the letters are sharper and slightly more condensed, aiding legibility and saving space.

The Rail Alphabet 2 typeface – including glyphs – can be accessed via the Network Rail Brand Hub.  
Contact: brand@networkrail.co.uk

## 5.2 Line Spacing and Graphic Lock-ups



It is not only the size and weight of type which matters when viewed from a distance. The spacing of letterforms and vertical distance between lines of text also have an impact on legibility.

For people with vision impairments, letters and lines of text can blur when spaced too close together. A balance should be sought between spacing text so as to be accessible for people with vision impairments, and laying out blocks of text that read as a single message.

Fig. 21 Margins

### Margins

The Cap-Height (CH) is used to determine the margins and vertical spacing. The space between the pictograms and the typography is the Cap-Height.

## 5.2 Line Spacing and Graphic Lock-ups



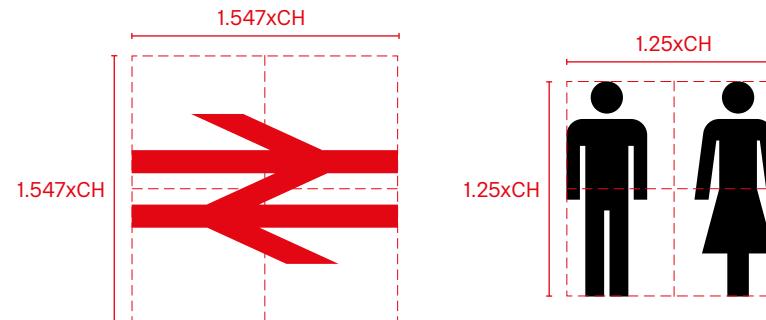
### Leading

Leading refers to the vertical spacing between lines of text. It is relevant to legibility in that lines of text which are spaced too close together will appear to blur together.

### Tracking

Tracking sets out the spacing between letters within a word or block of text. This will affect the density of word or group of words. The density of the group of letters affects their legibility.

Fig. 22 Leading and Tracking



### Pictogram alignment

The height and width of the pictograms is most often 1.25 times the Cap-Height (CH) of the typography. However, exceptions include Platforms, Underground and Overground pictograms, where the width is 1.547 times the Cap-height (CH), and they are centred horizontally and vertically within the space.

## 5.3 Sizing to Distance



DISTANCE FROM TEXT (METRES)	Inclusive Mobility (DfT)	Centre for Inclusive Design and Environmental Access	Crossrail	Docklands Light Railway	Gatwick Airport	Heathrow Airport	Average	Recommended Sizes For Network Rail
	Text size (CH: mm)	Text size (CH: mm)	Text size (CH: mm)	Text size (CH: mm)	Text size (CH: mm)	Text size (CH: mm)	Text size (CH: mm)	Text size (CH: mm)
5 m	50mm	12.5mm	18mm	18mm	14mm		22.5mm	45-68mm
10 m	100mm	25mm	36mm	34mm	28mm	14mm	39.5mm	68mm
15 m	150mm	37.5mm	53mm	50mm	34mm	21mm	57.5mm	100mm
20 m	200mm	50mm		67mm	40mm	28mm	77mm	100-210mm
25 m	250mm	62.5mm		85mm		35mm	108mm	210mm
30 m	300mm	75mm		103mm			159mm	210mm
50 m	500mm	125mm		170mm			265mm	210-375mm

In order for signage to be functional, information should be legible, including by those with impairments.

Text legibility standards are written into most universal accessibility regulations. However, which size of text is legible from which distance is not universally agreed upon. It is important to be aware that standards vary based on country, on setting, on whether the viewer is walking or driving etc. and to use judgement on each project about which standards are more appropriate in that case.

Fig. 23 Other International Standards

## 5.3 Sizing to Distance

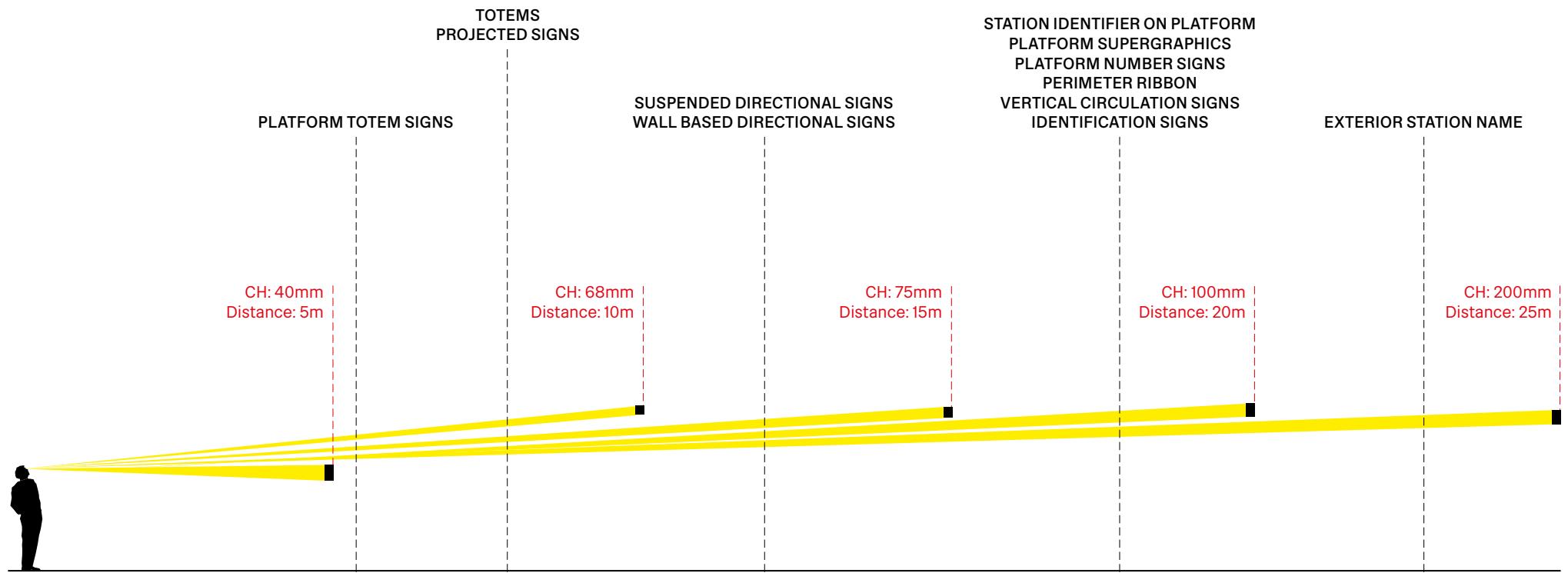


Fig. 24 Minimum Cap-Height (CH) for Network Rail Signage

# Graphic Standards

## 5.4 Colour Palette



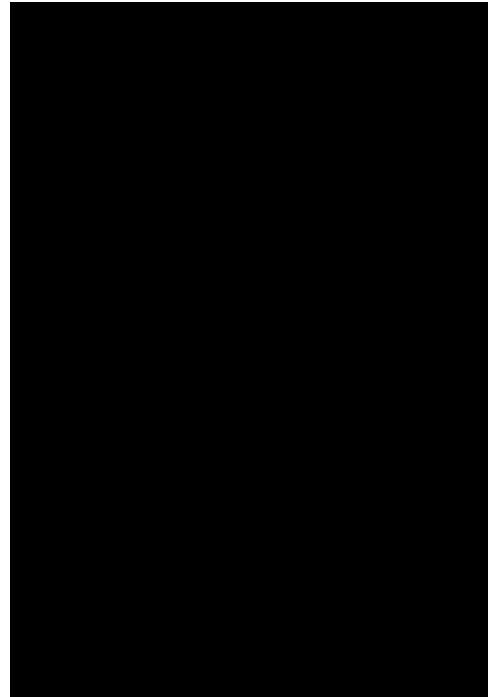
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**RAL 9016**  
**PMS Bright White**  
**CMYK 0/0/0/0**  
**RGB 255/255/255**

- 
- 1. Background colour
- 2. PRM pictograms – placed on a blue background



**RAL 9005**  
**PMS Process Black**  
**CMYK 0/0/0/100**  
**RGB 0/0/0**

- 
- 1. Arrows, pictograms and text – placed on a white background
- 2. Background colour Way Out sign

The sign colours are defined in accordance to the Reichs-ausschuss für Lieferbedingungen (RAL) standard for paint application. Approximate matches for Pantone Matching System (PMS) are provided as reference only. Die cut vinyl application or inkjet printing are not acceptable on permanent signs. CMYK (Cyan, Magenta, Yellow and Black) and RGB (Red, Green and Blue) approximate matches are provided as reference for printed (CMYK) and digital (RGB) temporary signs only.

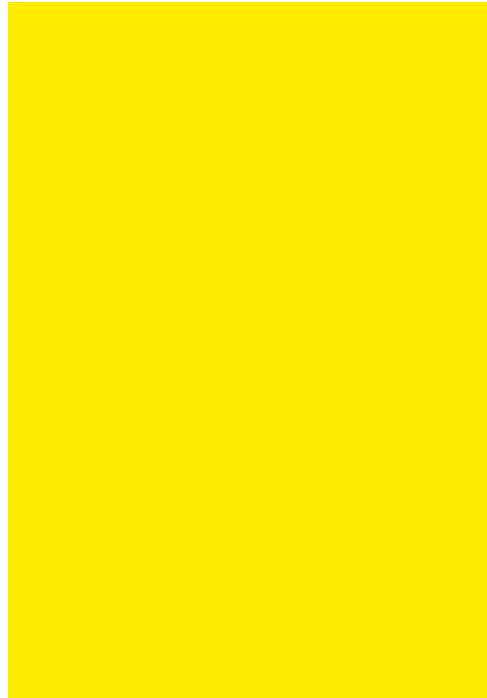
Fig. 25 Colour Palette

# Graphic Standards

## 5.4 Colour Palette

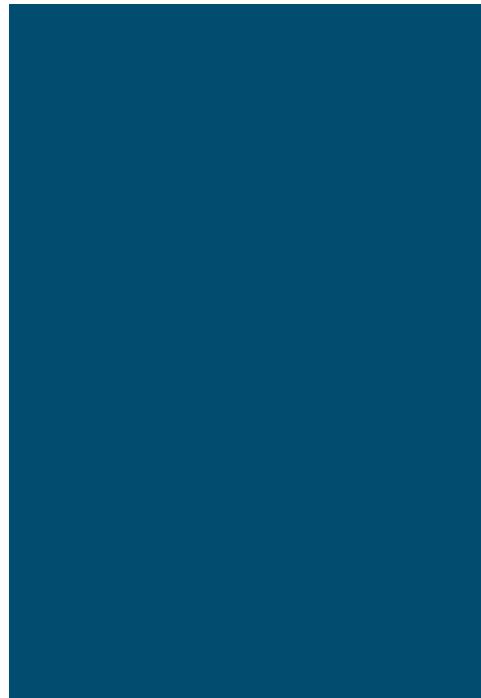
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**RAL 1018**  
**PMS Process Yellow**  
**CMYK 0/0/100/0**  
**RGB 244/228/0**

- 1. Arrow Way Out sign –  
placed on a black background
- 2. Text Way Out sign –  
placed on a black background



**RAL 240 30 35**  
**PMS 3025**  
**CMYK 100/25/10/55**  
**RGB 0/81/114**

- Background colour PRM pictograms



**RAL 3020**  
**PMS 485**  
**CMYK 0/100/100/0**  
**RGB 255/0/0**

- National Rail pictogram only –  
placed on a white background

Fig. 26 Colour Palette



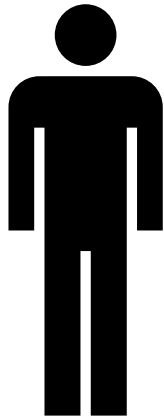
The Rail Alphabet 2 typeface –  
including glyphs – can be accessed via  
the Network Rail Brand Hub.  
Contact: brand@networkrail.co.uk

# Graphic Standards

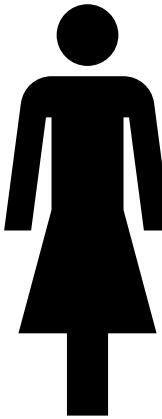
## 5.5 Pictograms

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Toilets



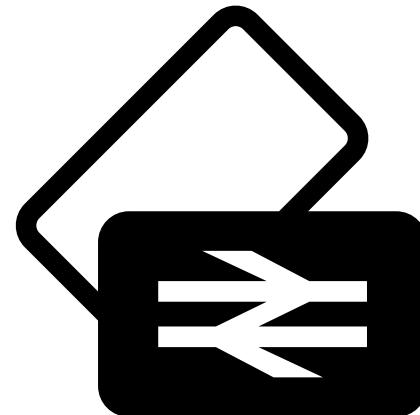
Luggage Trolley



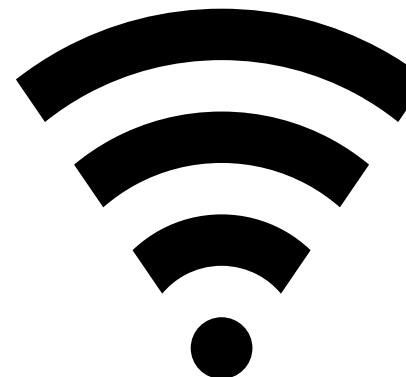
Airport



Taxis



Tickets



Wi-Fi

Pictograms are pictorial symbols which convey meaning without the use of descriptive text. Pictograms can communicate a message to speakers of many different languages at once.

Fig. 27 Pictograms

The Rail Alphabet 2 typeface – including glyphs – can be accessed via the Network Rail Brand Hub.  
Contact: brand@networkrail.co.uk



People with Reduced Mobility



Auditory Impairment



Vision Impairment



Accessibility



Priority Seating



Changing Facilities WC



As a direct and universally accessible form of communication, internationally recognised pictograms are often required on statutory signage. Thus, pictograms used for statutory signage are also governed by strict legibility standards to check they are large enough and recognisable enough to be clear and visible for all travellers.

Please note that three different pictograms representing Priority Seating have been provided within the Network Rail pictograms library displayed on the next page. These Priority Seating pictograms - showing a pregnant woman, a mobility impaired passenger and a parent and small child – may be used together or separately.

### PRM pictogram colours

This guidance follows the European Union Technical Standard for Interoperability 2014 on PRM in its interpretation that the subject of colour raised in Appendix N.3 refers specifically to clause (9) of point 4.2.1.10, as referred to in clause (9). PRM pictograms should therefore always be white, with a dark blue background.

## 5.5 Pictograms – Library



Platforms



Tickets



Ticket  
Machine



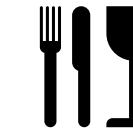
Information



Station  
Reception



Café



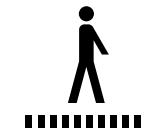
Food and  
Drink



Grab and Go



Shopping



Pedestrian



Lift



Travelator



Escalator



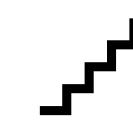
Hold the  
Handrail



Stand on  
the Right



Footbridge



Stairs



Hold on to  
Your Child



Hold on to  
Your Dog



Pushchair



First-class  
Lounge



Customer  
Lounge



Shower



Toilets



Gender  
Neutral  
Toilet



Gentlemen



Ladies



Baby  
Changing



Ferry



Airport



Bus



Coach



Tram



Taxi



Cycle



Cycle  
Parking



Cycle  
Hire



Car  
Hire



Car  
Parking



Park and  
Ride

## 5.5 Pictograms – Library



Luggage Locker



No Luggage



Lost Property



Luggage Trolley



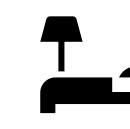
Charging Zone



Bureau de Change



Cash Machine



Hotel



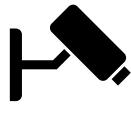
Post Box



Post Office



Wi-Fi



CCTV



Tourist Information



Meeting Point



Waste Recycling



Litter



Hand Dryer



Soap Dispenser



Drinking Water



British Transport Police



Accessibility



Ramp



Changing Facilities  
WC



Priority  
Seating I



Priority  
Seating II



Priority  
Seating III



People with  
Reduced  
Mobility



Auditory  
Impairment



Visual  
Impairment



Mobility  
Assistance



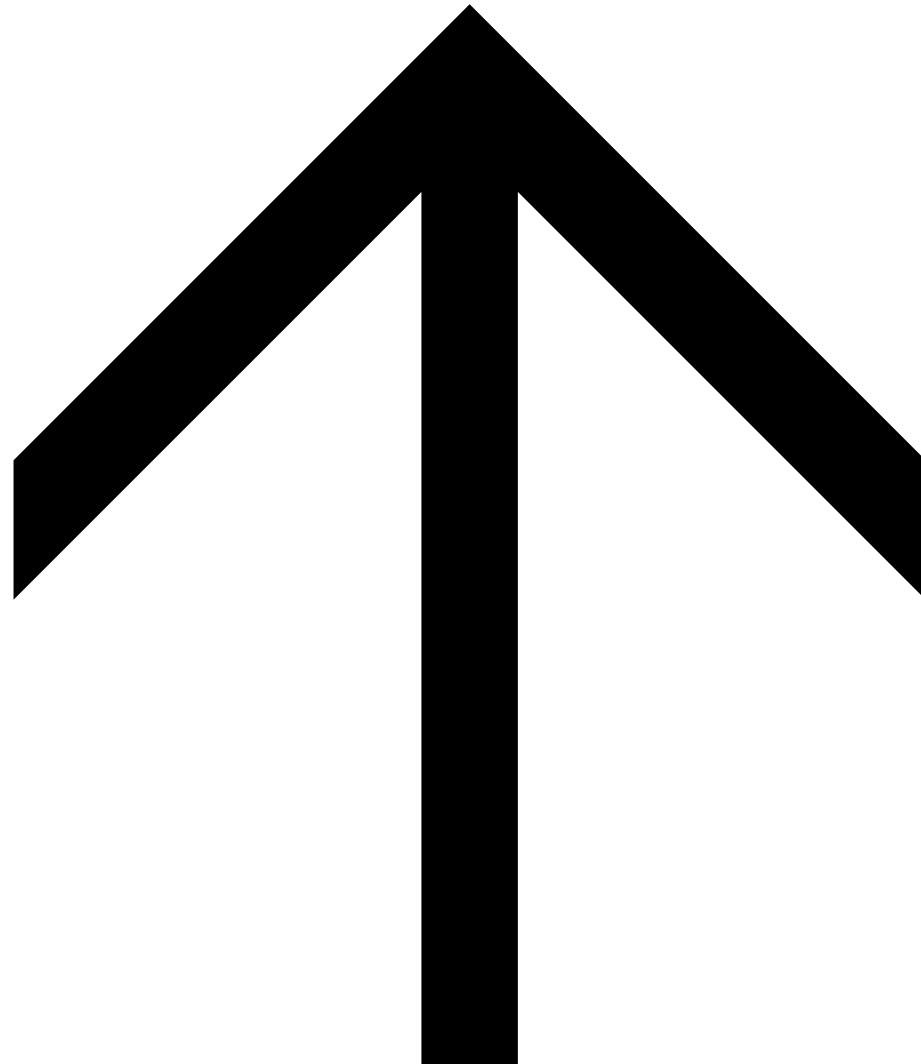
Vaping Zone



No Vaping



No Smoking



The Network Rail directional arrows are bespoke, designed to compliment the wayfinding design. Arrows accompany the typography. The scale of arrow depends on the sign type. For further information, please refer to Section 6: Sign Family.

The Rail Alphabet 2 typeface – including glyphs – can be accessed via the Network Rail Brand Hub.  
Contact: [brand@networkrail.co.uk](mailto:brand@networkrail.co.uk)

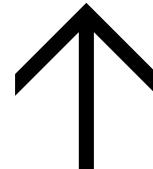
# Graphic Standards

## 5.6 Arrows – Order



### Straight ahead / Up

To represent straight-ahead direction, or level change



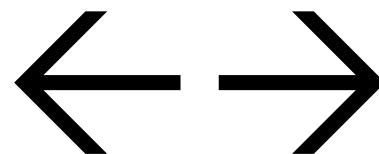
### Diagonal or Up

To direct across a diagonal flat area, or to represent level change (up). When representing level change (up), the arrow can be accompanied by the text "via lift", "via escalator" or "via stairs" to indicate the way of getting to the upper level



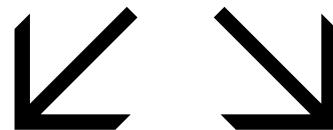
### Left / right

For standard left/right directions



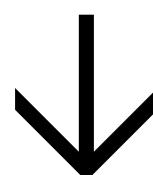
### Down

Only to represent level change. The arrow can be accompanied by the text "via lift", "via escalator" or "via stairs" to indicate the way of getting to the lower level



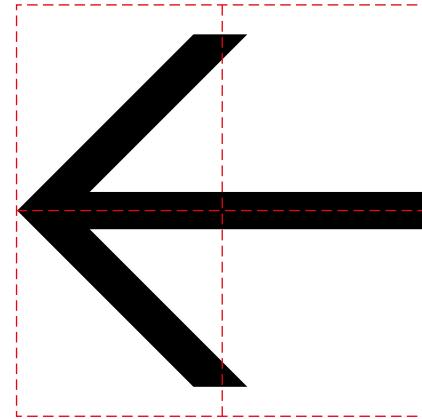
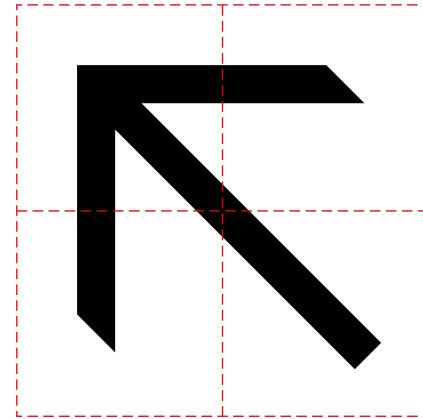
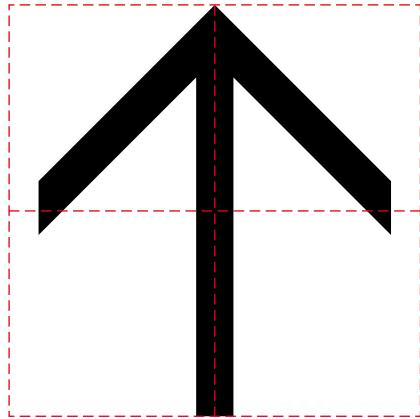
### Down via lift

Only to represent a level change (down via lift)

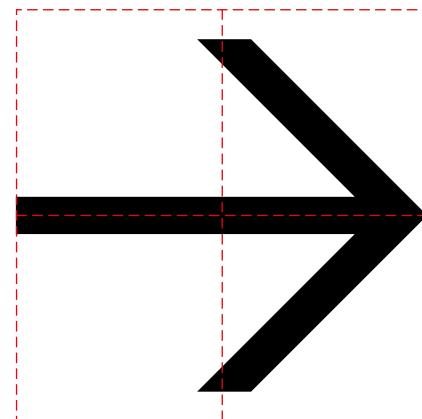
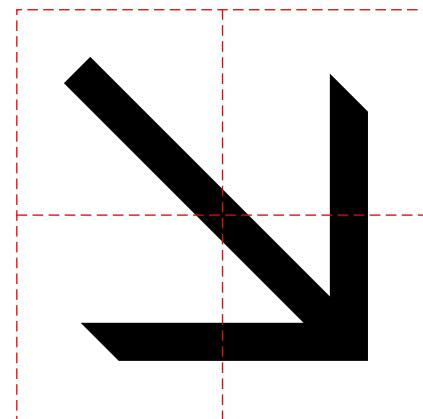
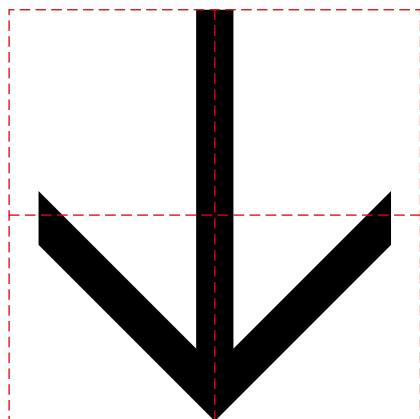


The use of arrows on signs should follow a certain order, to clarify directions and avoid allowing arrows to point at each other.

## 5.6 Arrows – Alignment



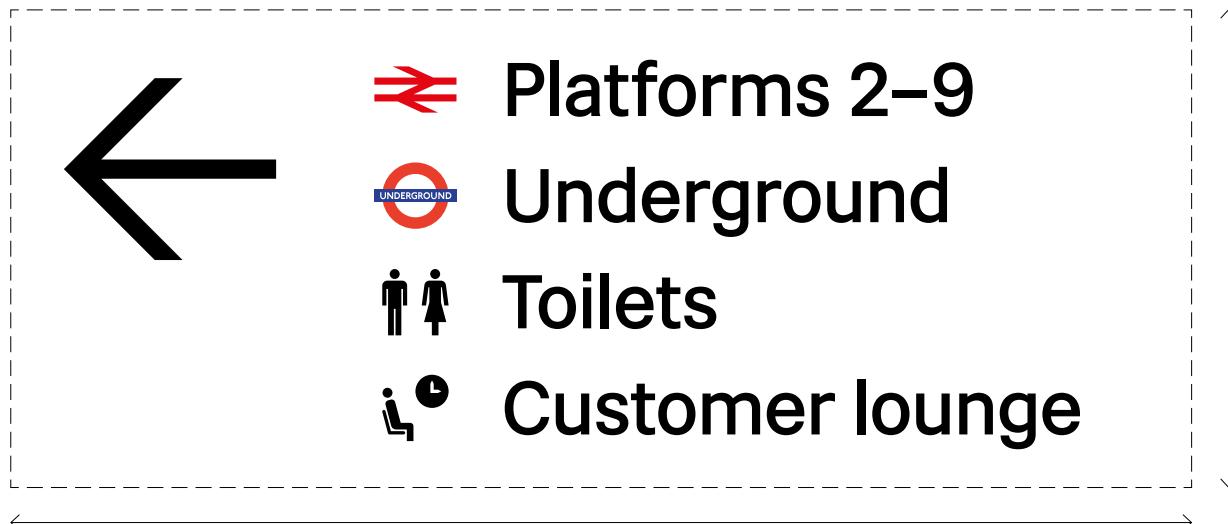
The arrow tail is longer than the width of the arrow head. In order to keep the arrow size consistent, regardless of orientation, they are contained with a square grid and aligned to the square equally horizontally and vertically.



# Wayfinding Design Guidance **Sign Family**



# 6.1 Recommended Sizing



This example shows the recommended size for a suspended directional sign. A smaller alternative size is also given. When sizing signs, it is important to take margins as well as vertical and horizontal alignment into account at all times.

#### Recommended sizing (L)

- Stroke weight arrow: 36.23mm
- Cap-Height text: 100mm
- Height pictograms: 125mm

#### Smaller alternative size (S)

When wall based directional signs will be viewed from a closer distance, an alternative size can be used for the wayfinding information. The Cap-Height for these signs is 68.5mm.

The recommended sizes for sign types given are informed by ergonomic as well as informational factors. Depending on the traveller's distance and the direction of travel, sign types should suit differing situations. In order to size type, decision points should be mapped throughout the station environment. These are the points at which the passenger will require information to make a decision about which way to go, and will look toward signage. Distances between decision points and signs should be measured. These distances inform the type sizing.

As a priority, signage is designed so that text is of a sufficient size to be legible from the decision point from which the sign will be read. At the same time, the suite of sign types should work together to create a consistent and complete system for wayfinding. From freestanding totems to wall-based directional signs, the visual communication needs consistency in order to meet traveller's needs. Therefore, a set of recommended type sizes is given.



This example shows the recommended size for a vertical circulation sign. A smaller alternative size is also given. When sizing signs, it is important to take margins as well as vertical and horizontal alignment into account at all times.

#### Recommended sizing (L)

- Cap-Height text: 210mm
- The information on the vertical circulation signs is horizontally and vertically centred, with an equal amount of white space top and bottom

#### Smaller alternative size (S)

When vertical circulation signs will be viewed from a closer distance, an alternative size can be used. The height for these signs is 300mm. The Cap-Height of the text is 100mm.

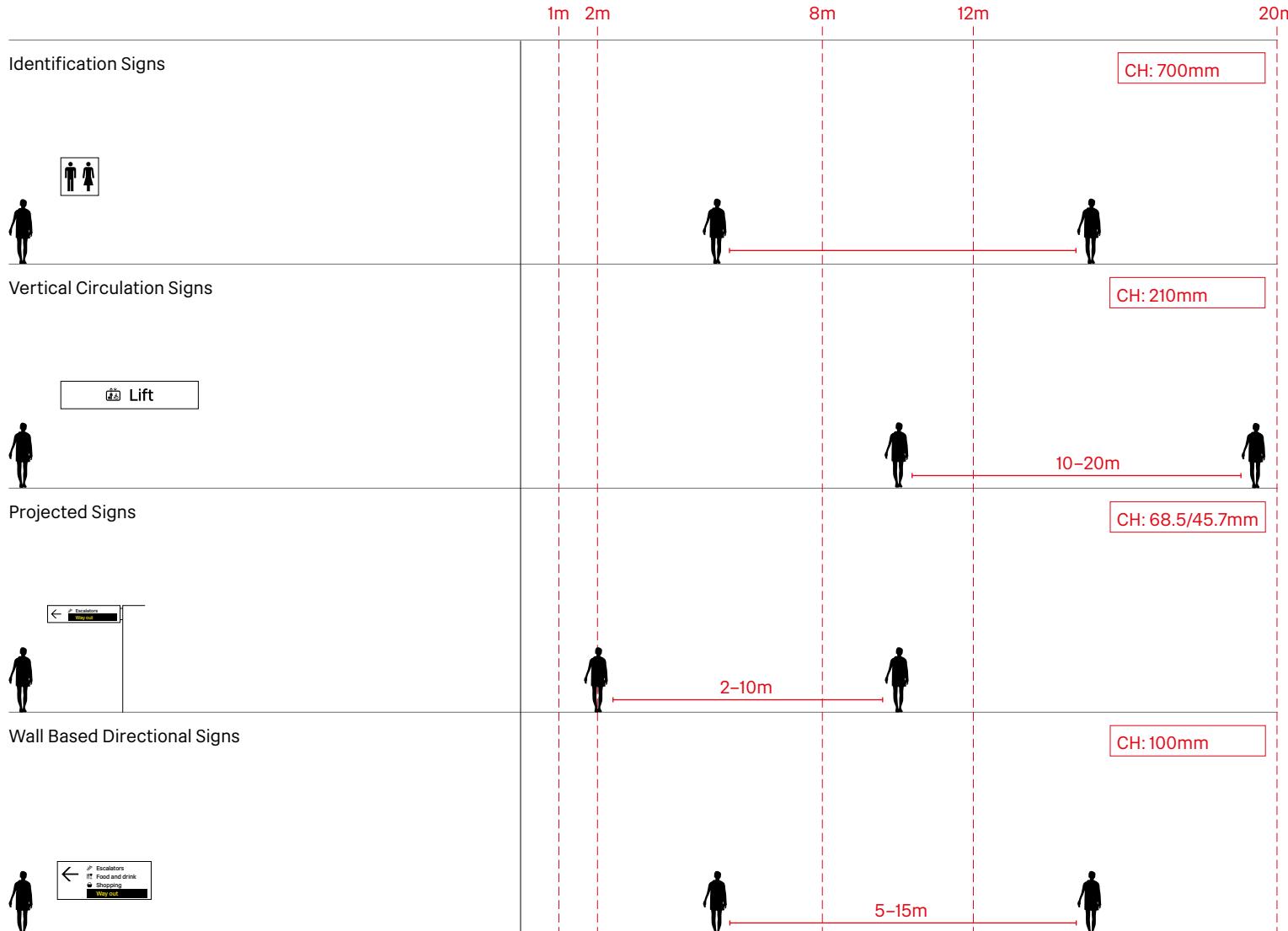
The hierarchy of sizes accounts for the distance from which that type will be viewed, as well as the relative importance of that category of signage. Standardising type sizes by using such sizing categories, maintains typographic consistency. Text sizing on public signage is also governed by accessibility codes to check it should be universally accessible.

#### Determining sign type sizes

Rolling-out and installing a wayfinding scheme involves a number of steps. First, movement flows and passenger decision points should be mapped. The designer should ascertain what questions must be answered for the passenger at these decision points. Then signage content to address these questions can be placed. Signage should be placed as close to the decision point as possible, to avoid entire flows of passengers going out of their way to read signs. Ideally signs in the recommended sizes given can be integrated seamlessly into the architecture. However, in some instances this will not be possible. When determining an alternative size for a sign in the station environment, location and viewing distance needs to be taken into consideration at all times.

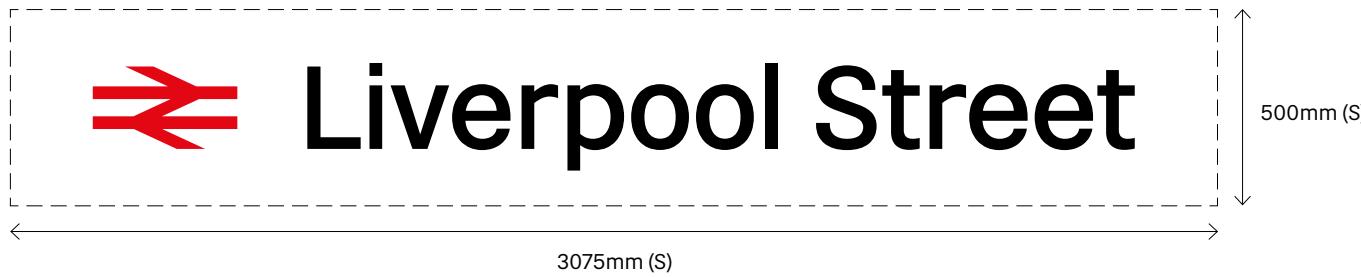


A series of text sizes are required to respond to the different parameters of a station. The hierarchy of text sizes should account for the distance from which that text will be viewed, as well as the relative importance of that category of signage. Some signs may be eye-level for close viewing within a confined space or very tall beacons to be viewed from across a concourse. The traveller may be stopped or may be moving. All of these considerations should be weighed in sizing text. The charts on this page and the next page set out text sizes for the sign types at stations.

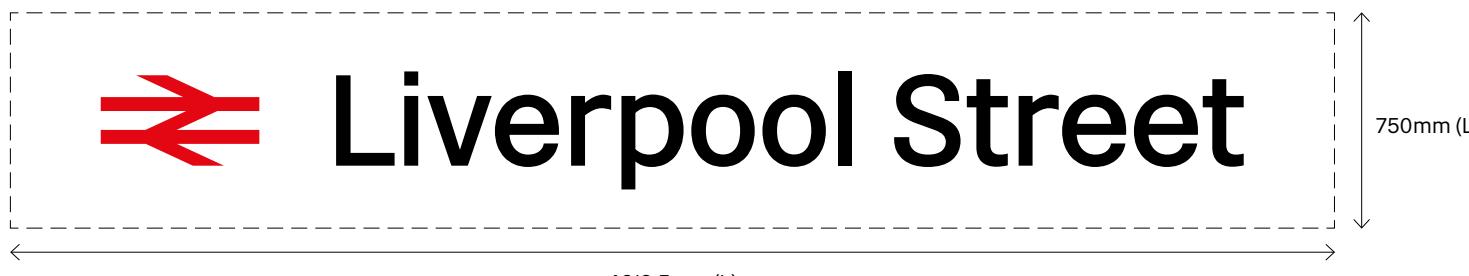


## 6.2 Sign Family Sizing

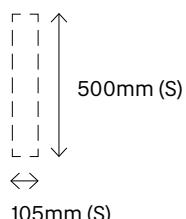




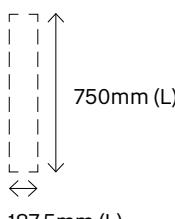
Exterior Station Name Sign (small, front)



Exterior Station Name Sign (large, front)



Exterior Station Name Sign (small, side)



Exterior Station Name Sign (large, side)

The exterior station name sign identifies the station and signifies its presence. It should be placed in a prominent position to allow it to be clearly seen from key pedestrian access routes to the station. Monumental lettering can be attached permanently to the station building. As such it is as much an architectural feature as an environmental wayfinding element. The typography should comply with these guidelines. The name of the station is accompanied by the National Rail logo. The information should be horizontal whenever possible.

#### Recommended sizing

- Cap-Height (CH) small exterior station name sign (S): 210mm
- Cap-Height (CH) large exterior station name sign (L): 375mm
- The National Rail logo is always placed before the station name. The logo is aligned to the CH of the station name
- All information is centred horizontally, with equal space (EQ.) top and bottom



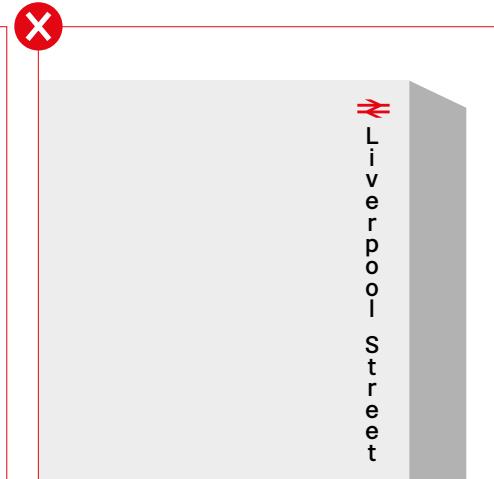
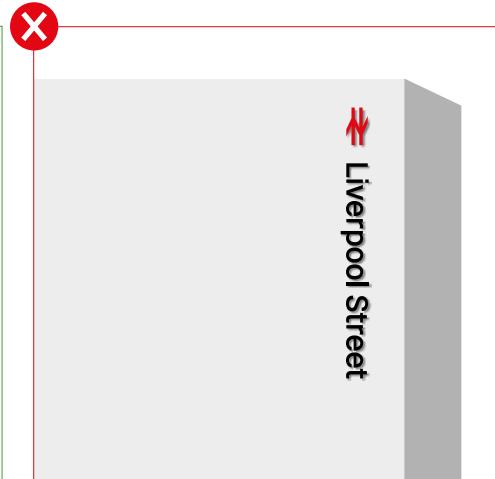
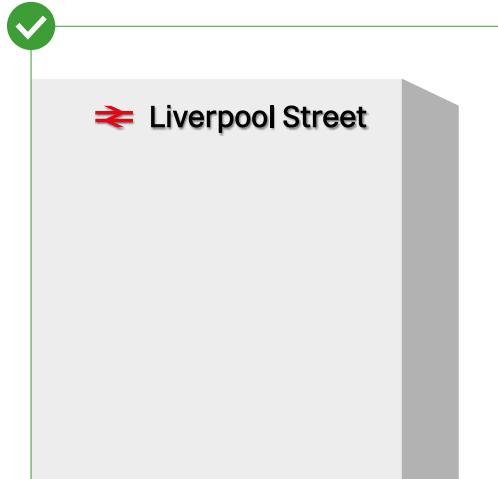
# Liverpool Street

EQ.  
CH | xH  
EQ.

Horizontal Alignment

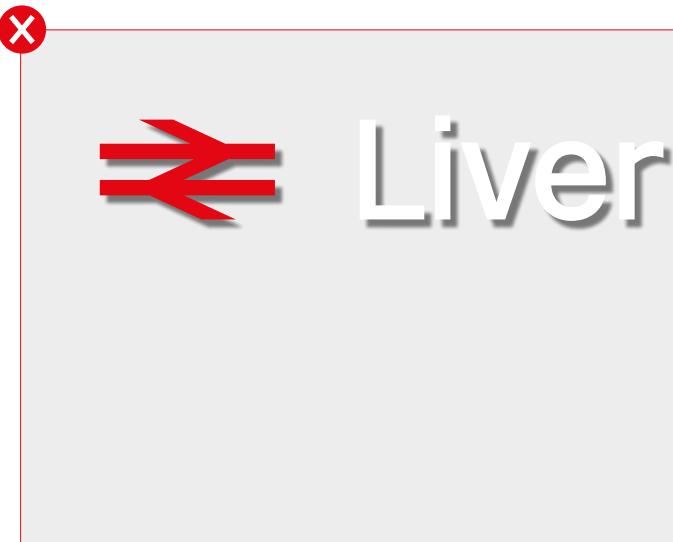
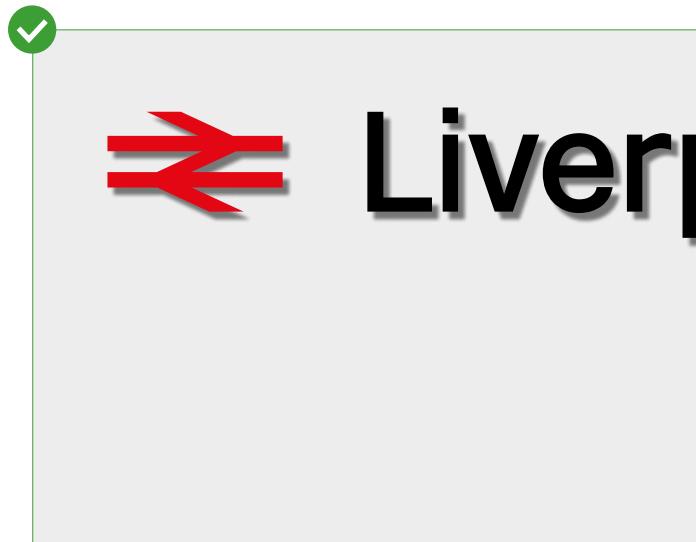


Vertical Alignment



#### Placement

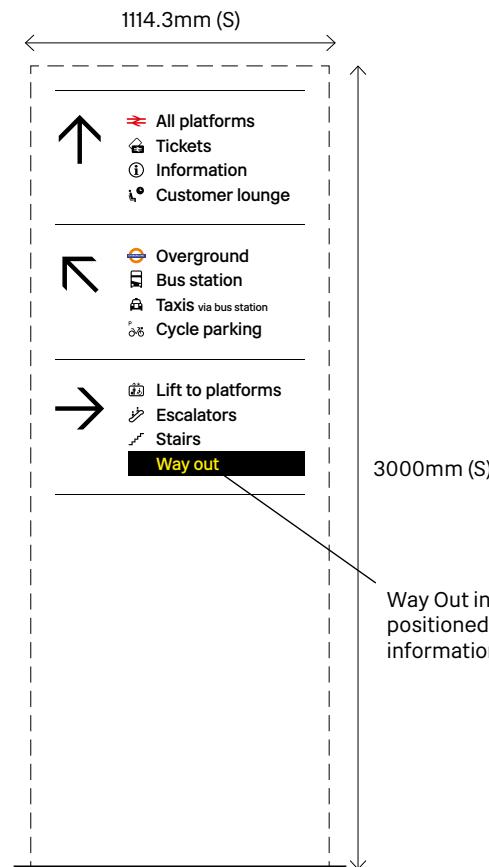
- Text should be horizontal where possible
- If the design requires a vertical sign, this should be achieved by rotating the whole station name by 90 degrees clockwise
- Letters should never be stacked vertically



#### Contrasting colours

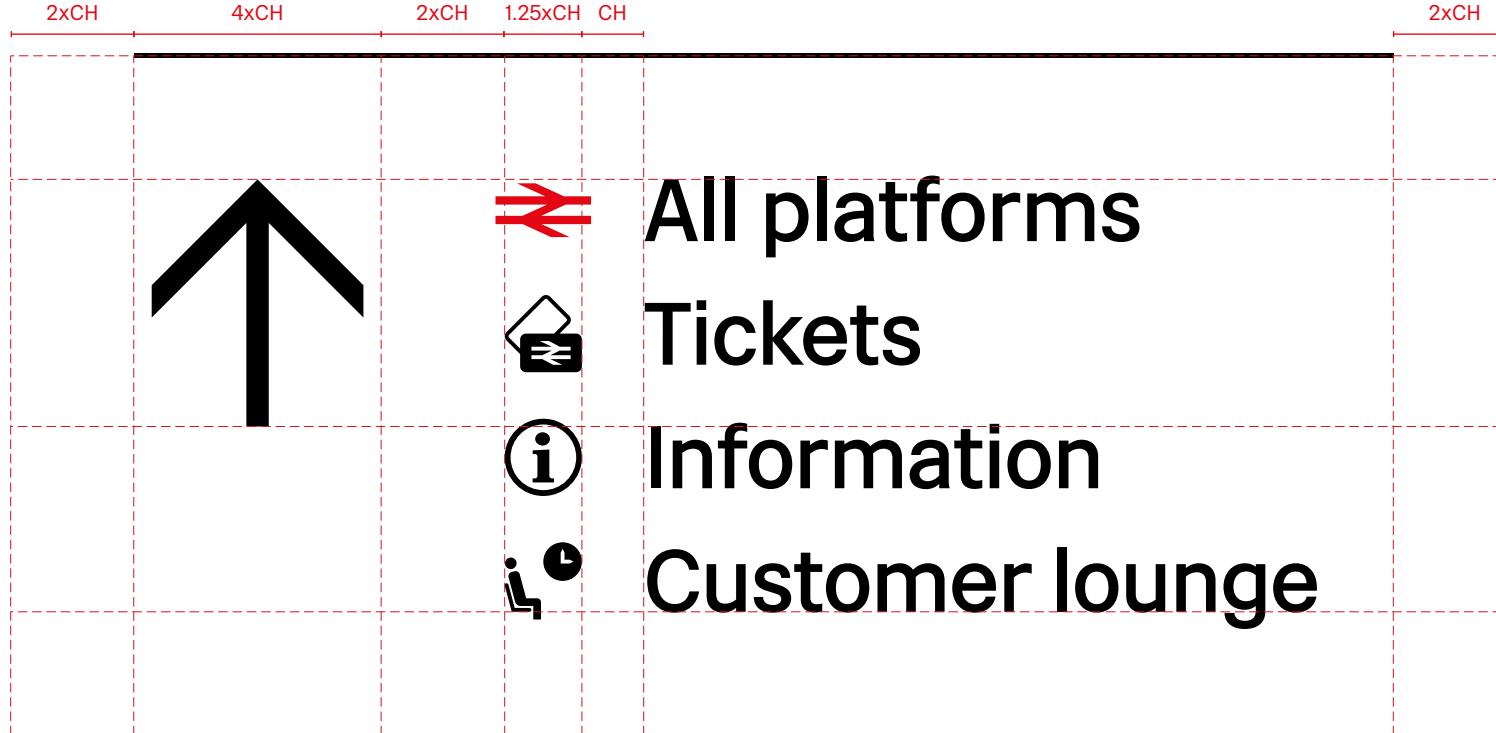
- It is important to provide sufficient contrast between the station name and the background.
- The National Rail logo is always recognisable by its red colour.

## 6.4 Freestanding Directional Signs – Totems

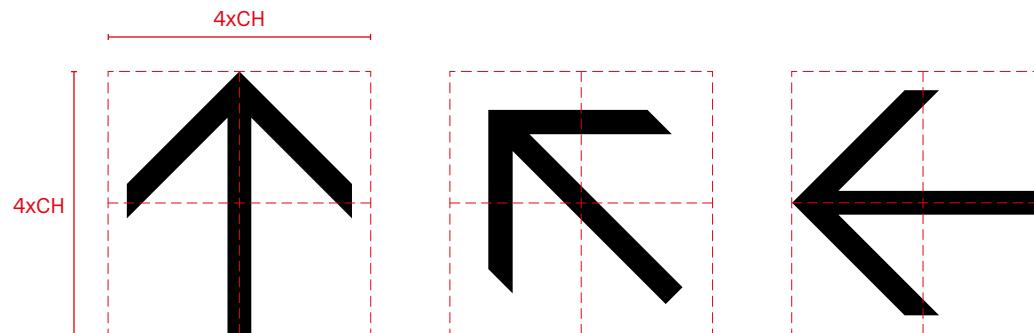


The totems are designed in 2 different sizes. When the station design allows for information to be visible from a distance of 12-14 metres, the larger totem size is recommended. When the concourse size allows for a viewing distance of 8-10 metres, a smaller totem can be installed. The wayfinding information on the totem is grouped by direction, with a maximum of 4 destinations per group. Within each group, the information is organised by importance.

## 6.4 Freestanding Directional Signs – Totems

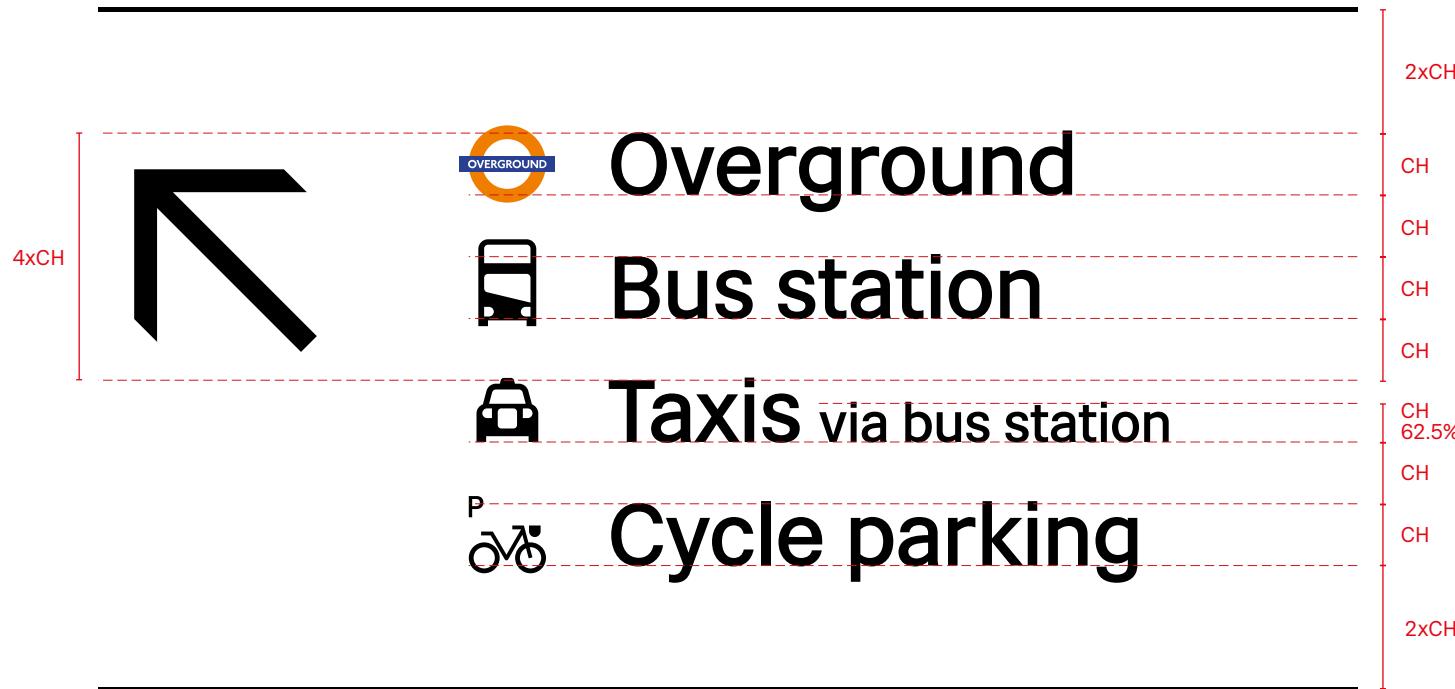


**Margins and Vertical Alignment**  
Upper group magnified view



**Arrow alignment**

The height of the vertical arrow is 4 times the Cap-Height (CH) of the typography. In order to keep the arrow size consistent, regardless of orientation, they are contained within a square grid and aligned to the square equally horizontally and vertically.



### Horizontal Alignment

Middle group magnified view

#### Recommended Cap-Height (CH)

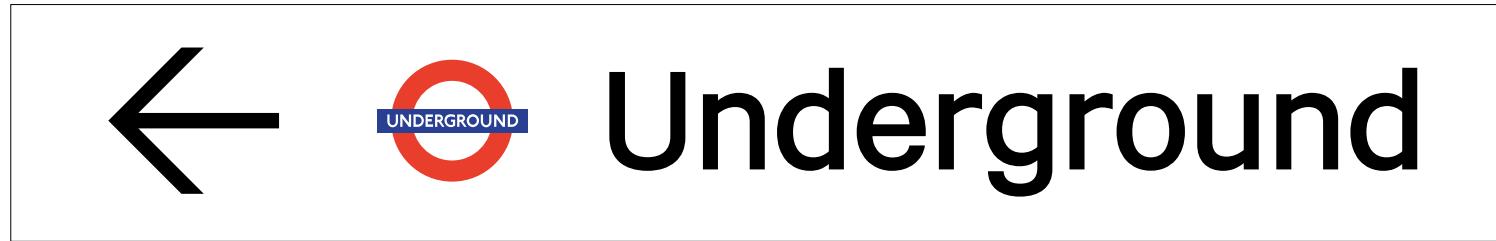
- Large (L) totem: 68.5mm / 42.81mm
- Small (S) totem: 45.7mm / 28.56mm

#### Recommended stroke weight dividing line

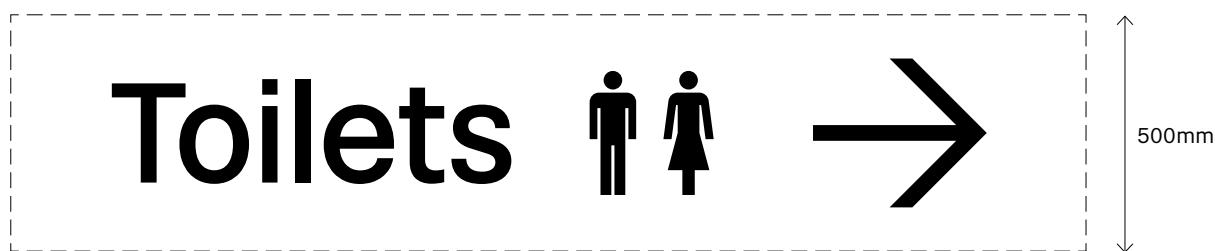
- Large (L) totem: 5.3mm
- Small (S) totem: 3.5mm

#### Recommended stroke weight arrow

- Large (L) totem: 24.81mm
- Small (S) totem: 16.55mm



Direction to the Left



Direction to the Right

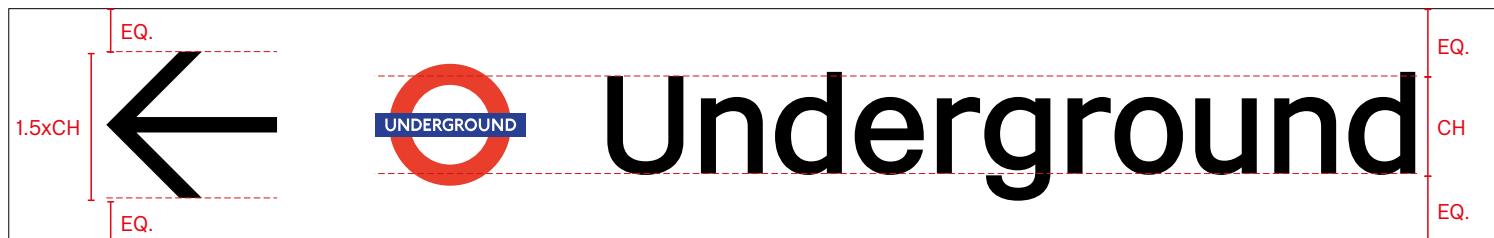
A perimeter ribbon may be utilised additional to other signage when the station layout allows for visibility to the perimeter walls surrounding the concourse. Its length and the number of ribbons will vary, depending on the station architecture. Wayfinding information is positioned exactly where it's needed. Key information should be legible. The information should be visible from across the concourse, from 10-20m away. Avoid redundant directions. Keep information clear and simple. 'Way Out' is to be differentiated by the colour yellow, with a black background.

#### Recommended sizing

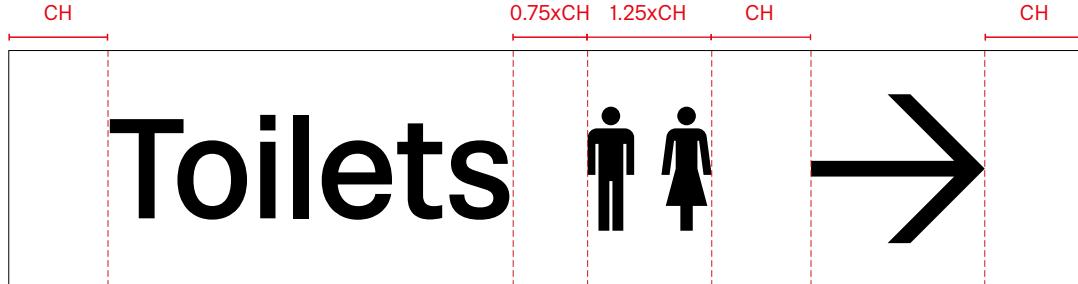
- CH text: 210mm
- Height arrow: 315mm  
(150% of the CH of the text)
- Stroke weight arrow: 33.3mm



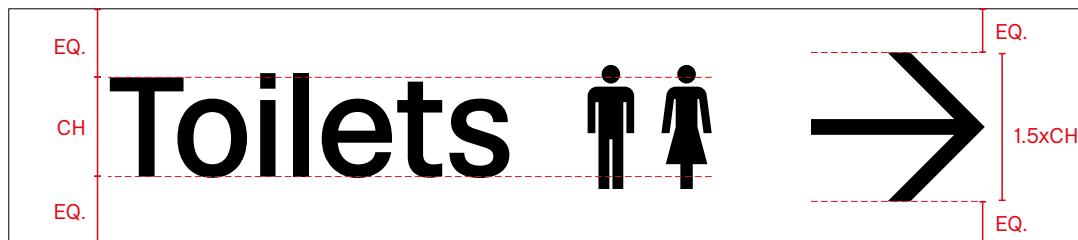
Vertical Alignment



Horizontal Alignment



Vertical Alignment



Horizontal Alignment



Vertical Alignment, Way Out Information (Direction to the Left)



Horizontal Alignment, Way Out Information (Direction to the Left)



Vertical Alignment, Way Out Information (Direction to the Right)



Horizontal Alignment, Way Out Information (Direction to the Right)

## 6.6 Suspended Directional Signs



Directional signs provide information about facilities and destinations within the station. The information on these signs needs to be visible from a long distance so that passengers can make decisions on which way to go while moving. The signs are ceiling suspended, ensuring they can be seen above the crowd. The wayfinding information on these signs is grouped by direction, with a maximum of 4 destinations per group. The arrow is always positioned on the left, pointing people in the right direction.

### Recommended sizing

- Stroke weight arrow: 36.23mm
- Cap-Height text: 100mm
- A minimum headroom clearance of 2.3 metres needs to be maintained at all times

## 6.6 Suspended Directional Signs



Where there are alternative numbered exits routes leading to separate street locations, this information should be included on the Way Out sign.

### Smaller alternative size (S)

When suspended directional signs will be viewed from a closer distance, an alternative size can be used for the wayfinding information. The Cap-Height for these signs is 68.5mm.

## 6.6 Suspended Directional Signs

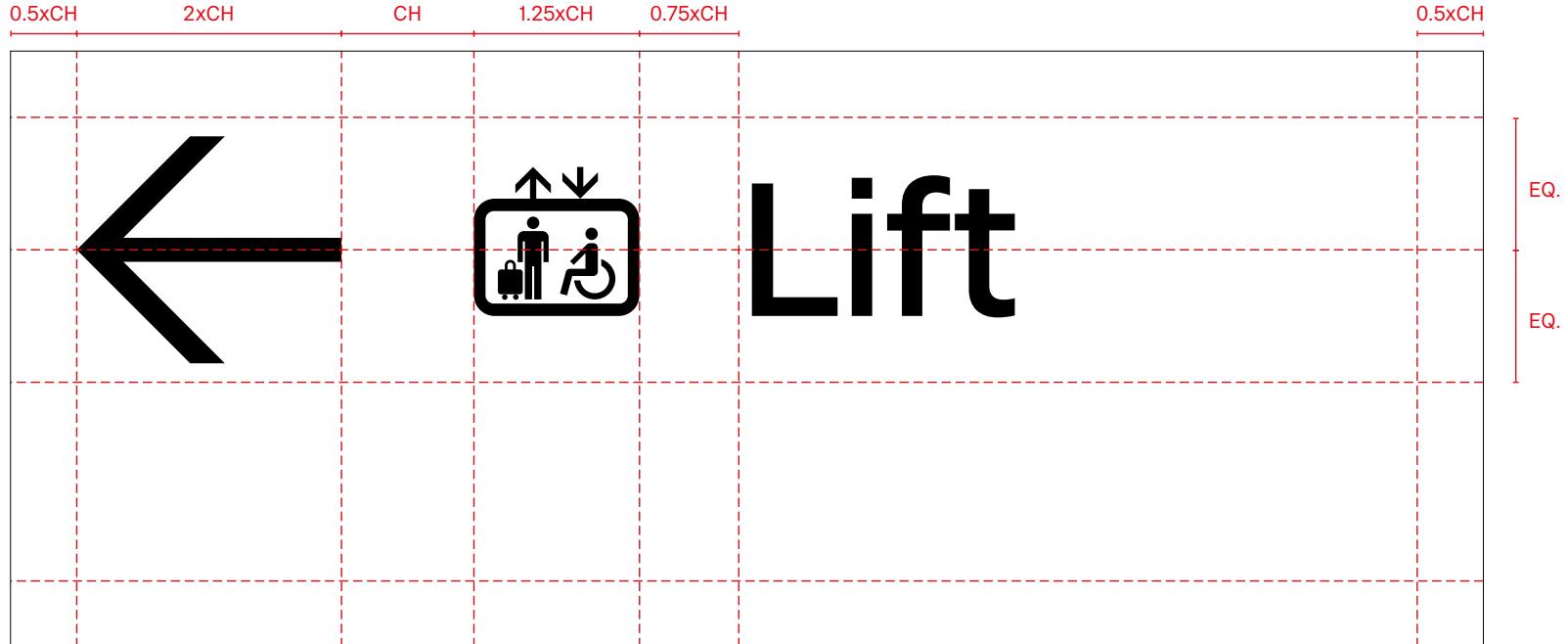


Margins and Vertical Alignment

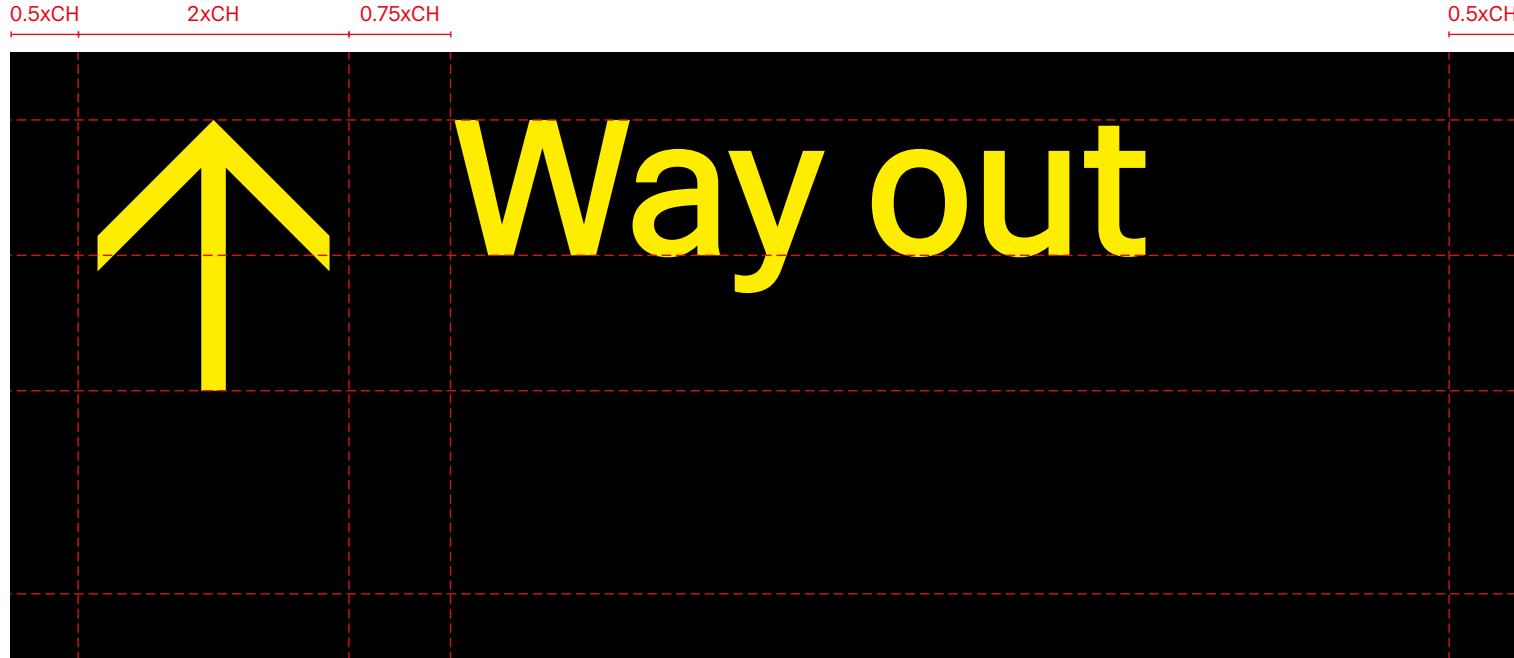


Horizontal Alignment

## 6.6 Suspended Directional Signs



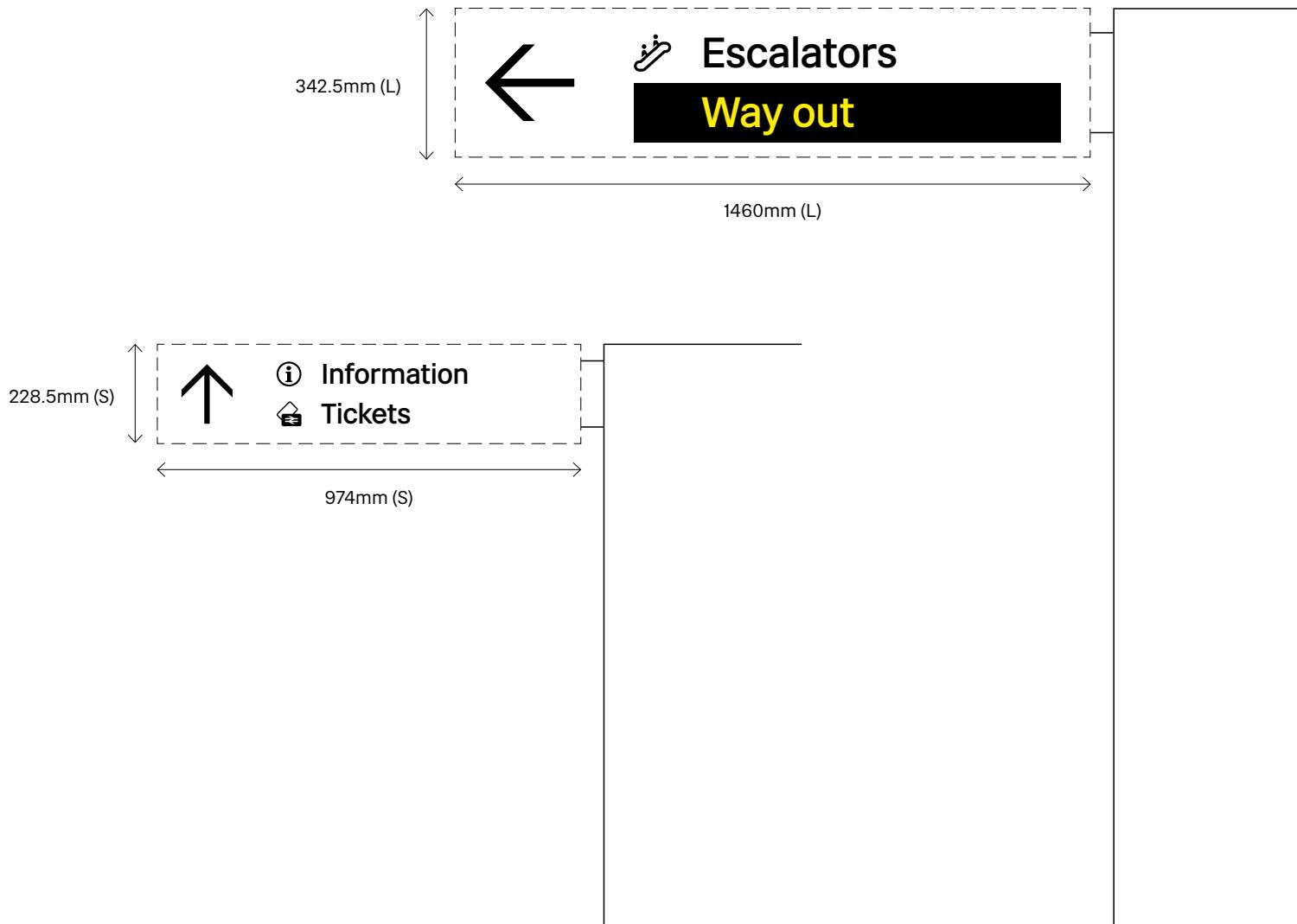
Margins and Alignment Lift Sign



Margins and Alignment Way Out Sign

### Recommended sizing

- Stroke weight arrow: 36.23mm
- Cap-Height text: 200mm
- A minimum headroom clearance of 2.3 metres needs to be maintained at all times



Directions to facilities within the station area can be given using projected signs. Directions to locations outside the station – other than transport interchanges – should not be included. Projected signs are mounted to the edge of a wall and generally only have a maximum of two destinations, combined with a directional arrow. The directional arrow should point outward, away from the wall or upward for straight ahead destinations. The arrow should not point toward the wall.

#### Recommended sizing (S/L)

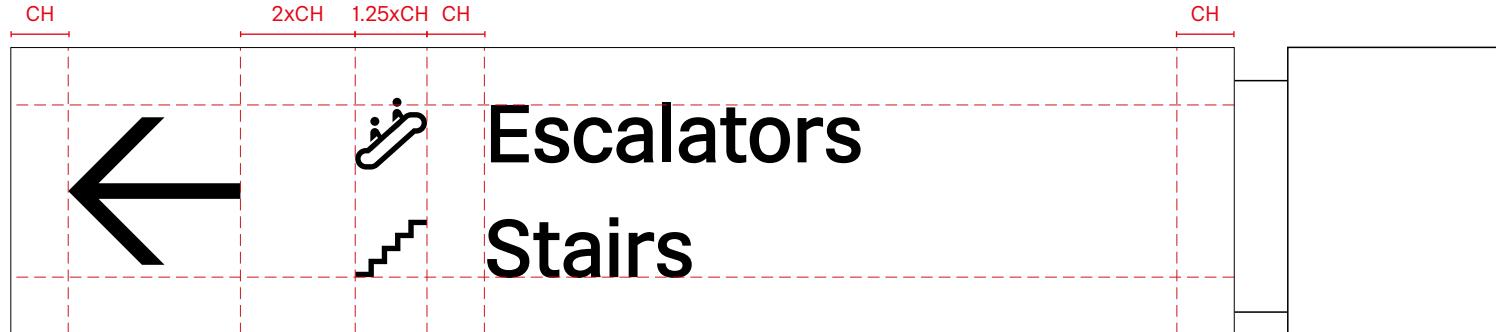
- Two different sizes can be used, depending on the viewing distance and the sign location in the station
- A minimum headroom clearance of 2.3 metres needs to be maintained at all times
- Way Out information is always positioned at the bottom of an information group

# Sign Family

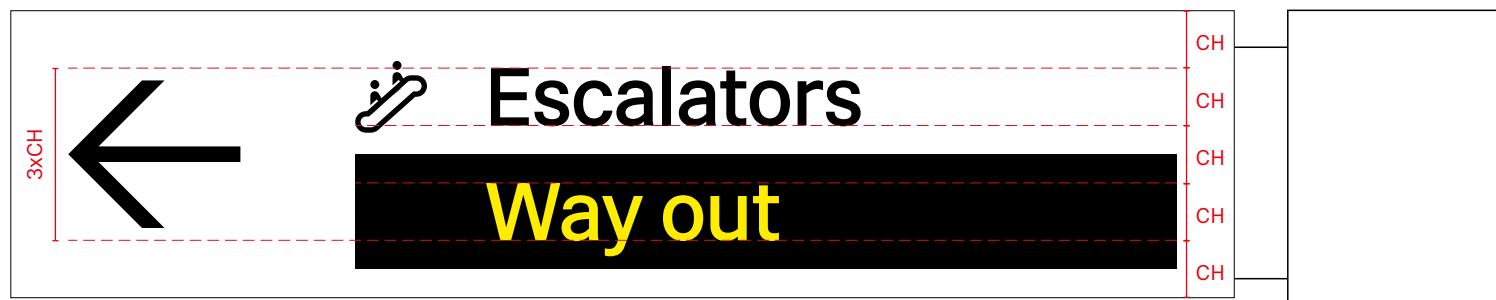
## 6.7 Projected Signs

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Compliance  
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December 2020

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Margins and Alignment Lift Sign



### Horizontal Alignment

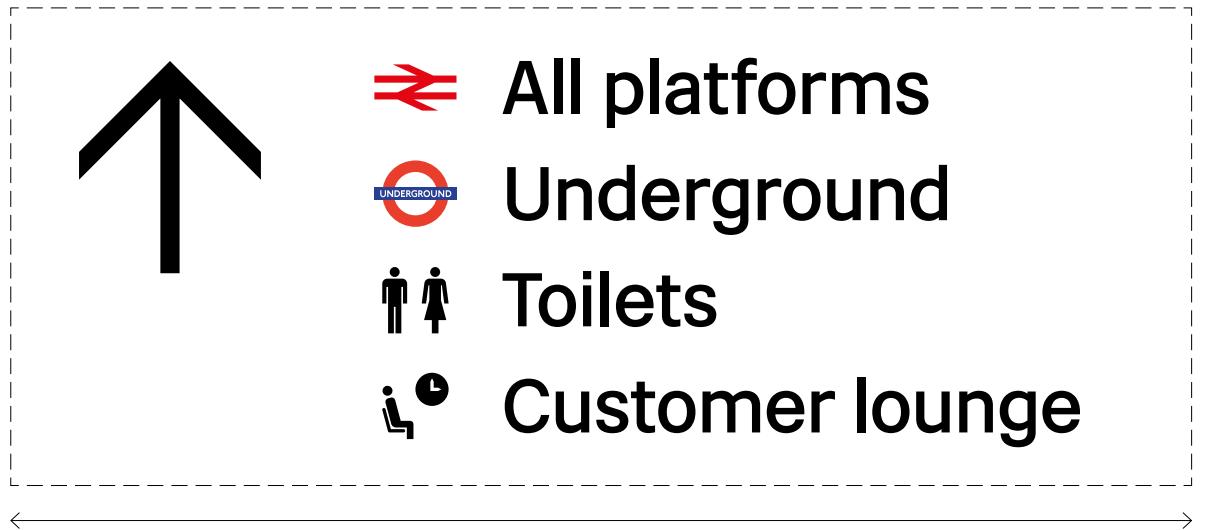
Way Out information is always positioned at the bottom of an information group

#### Recommended Cap-Height (CH)

- Large (L) projected sign: 68.5mm
- Small (S) projected sign: 45.7mm

#### Recommended stroke weight arrow

- Large (L) projected sign: 18.61mm
- Small (S) projected: 12.41mm



Wall mounted signage is used at strategic points in stations, where suspended or projected signage is not possible. It is not always possible to use wall based signage as some stations may not have visible wall space or may have restrictions regarding attaching signs to walls due to heritage listing or other reasons. Wall based directional signs shall not have more than four destinations listed.



Way Out information is always positioned at the bottom of an information group



### Vertical Alignment

#### Recommended sizing (L)

- Stroke weight arrow: 36.23mm
- Cap-Height text: 100mm



### Horizontal Alignment

#### Smaller alternative size (S)

When wall based directional signs will be viewed from a closer distance, an alternative size can be used for the wayfinding information. The Cap-Height for these signs is 68.5mm.



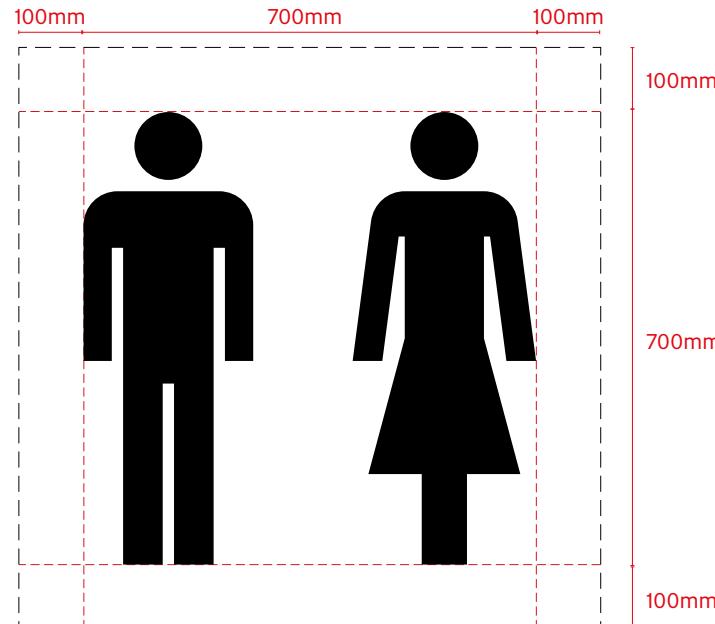
#### Positioning

#### Positioning

- Wall mounted directional signs need to be fixed sufficiently high as not to be obscured by passengers. They should never be placed lower than 1000mm. The recommended distance between the floor and the bottom of the sign is 2300mm
- When multiple signs are placed next to each other, they should be aligned to the top
- The minimum distance between signs is 200mm
- Arrows should not point at each other
- Way Out information is always positioned at the bottom of an information group



Toilet Identification Sign



Sizing and Alignment



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Identification signs indicate the location of facilities in the concourse zone. These signs can be wall mounted or ceiling suspended, depending on the station architecture. The information – confirming that a particular destination has been found – is given by a pictogram. The pictogram needs to be visible from a large distance to allow passengers to find their destination as quickly as possible.

#### Recommended sizing

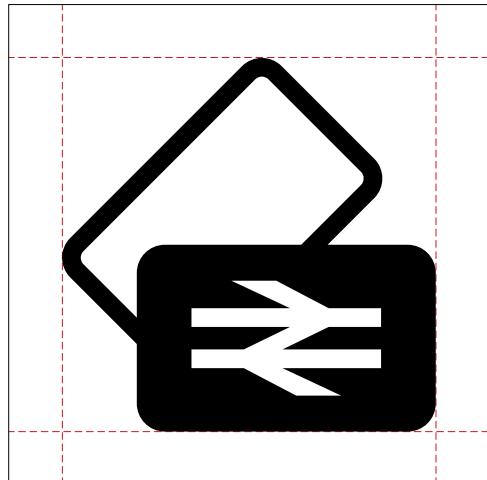
The pictogram has a maximum height and/or width of 700mm. It should be centred horizontally and vertically within the margins of 100mm.

# Sign Family

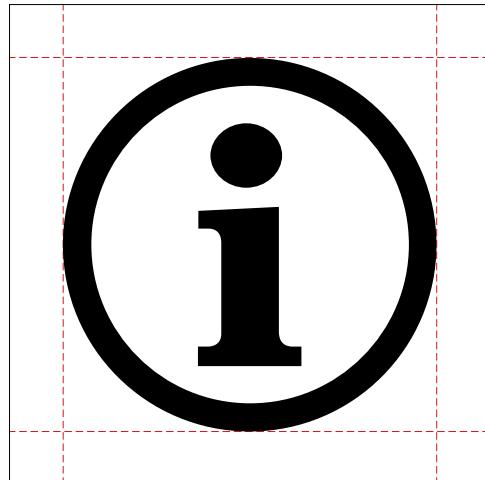
## 6.9 Identification Signs

Wayfinding Design Guidance  
Compliance  
NR/GN/CIV/300/01  
December 2020

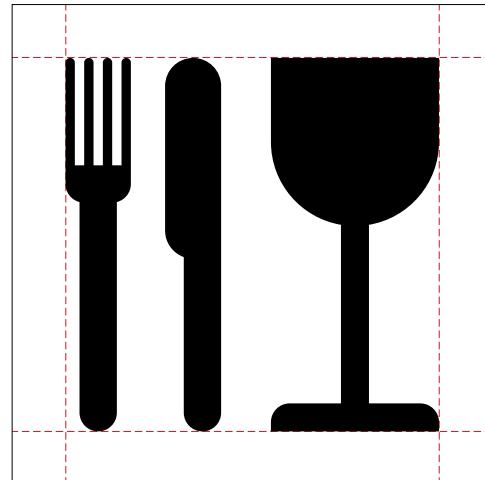
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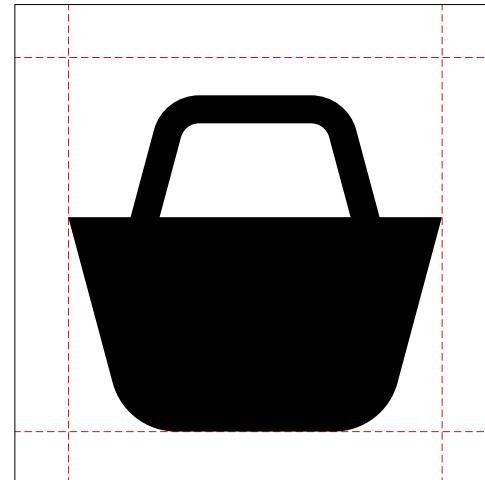
Tickets



Information



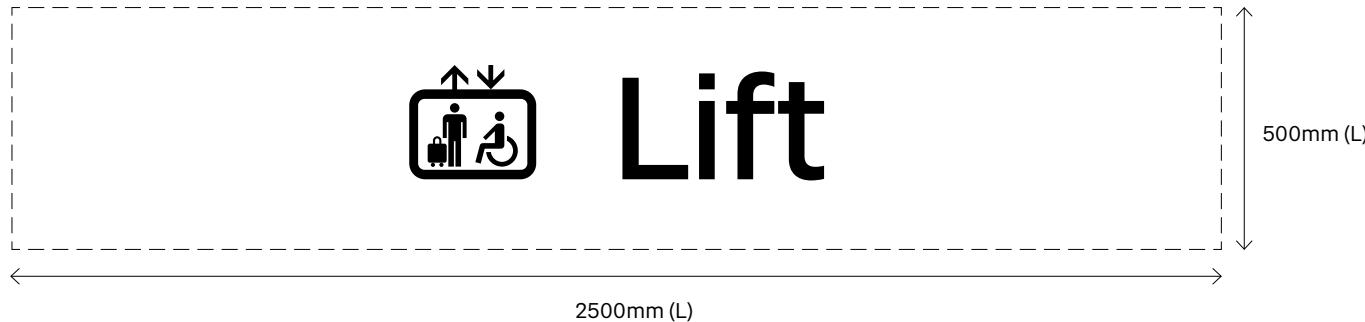
Food and Drink



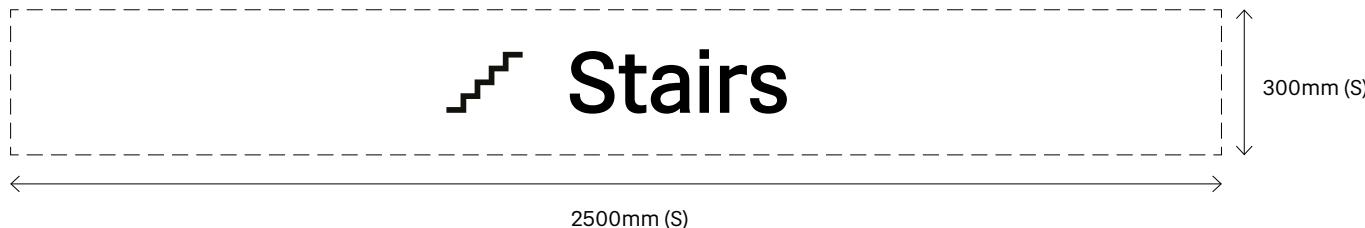
Shopping

### Other Examples of Identification Signs

## 6.10 Vertical Circulation Signs



Vertical Circulation Lift Sign



Vertical Circulation Stairs Sign

Vertical circulation signs mark the location of lifts, stairs or escalators, identifying facilities travellers can use to make their way up or down to a different level. They use a single overhead panel – wall mounted, suspended or column mounted – with one line of information. The information needs to be visible from a large distance.

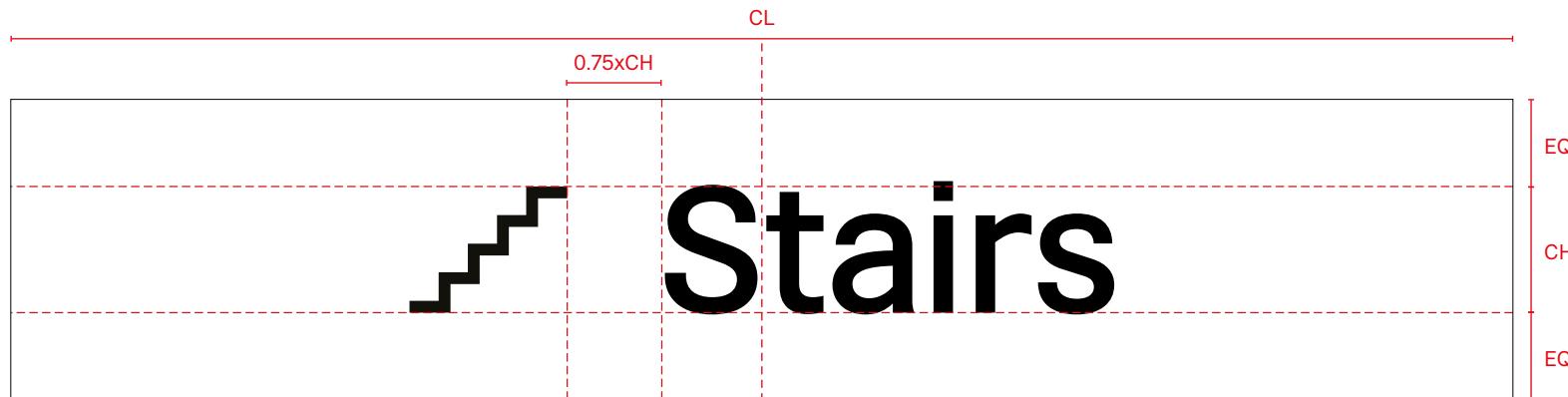
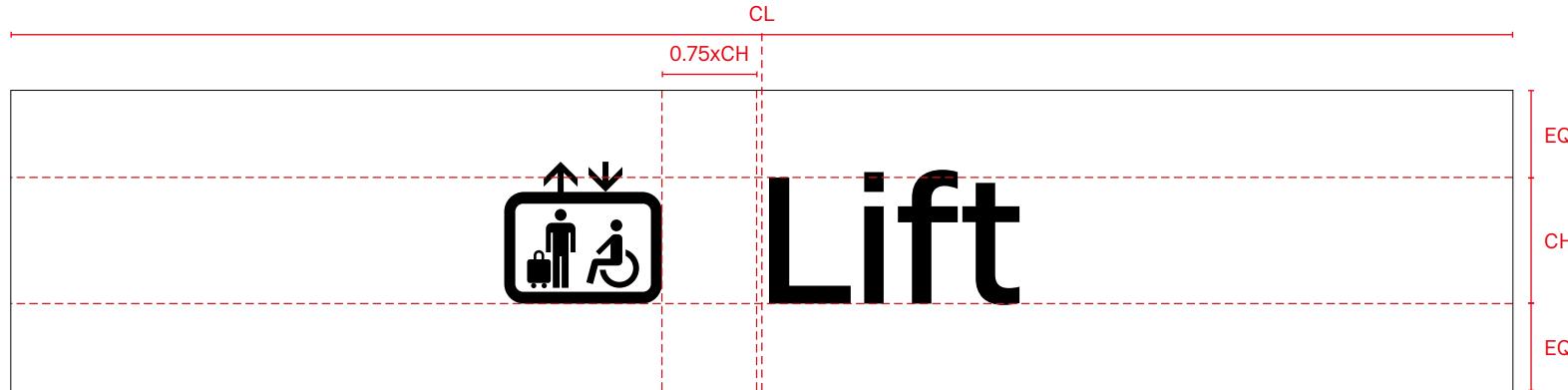
### Recommended sizing (L)

- Cap-Height text: 210mm
- The information on the vertical circulation signs is horizontally and vertically centred, with an equal amount of white space top and bottom

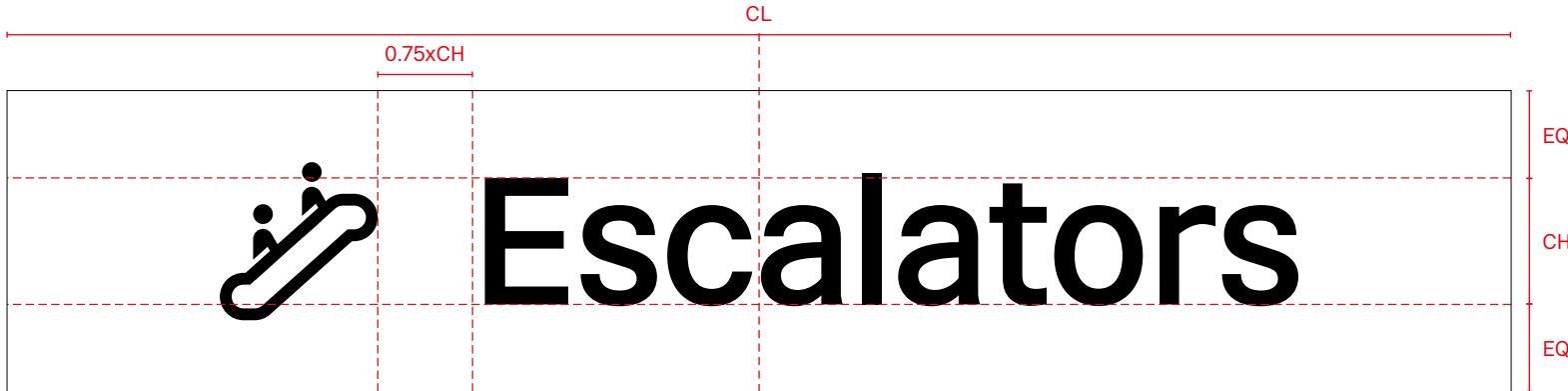
### Smaller alternative size (S)

When vertical circulation signs will be viewed from a closer distance, an alternative size can be used. The height for these signs is 300mm. The Cap-Height of the text is 100mm.

## 6.10 Vertical Circulation Signs



Margins and Alignment



Margins and Alignment



Platforms  
2 and 3



Underground →  
Way out →

4 5

Information





Platform 2

Platform 3

Platform 4

Platform 5

Platform 6

Platform 7

Platform 8

Platform 9

### Platform Number Signs

Above the entrance of each platform a sign indicates which platform travellers are entering. This overhead sign should face passengers as they approach the ticket gateline. The length and number of platforms identified on these signs will depend on the station architecture. The platform information should be left aligned when the platform is on the left and right aligned when the platform is on the right.

#### Recommended sizing (L)

The CH of the platform text is 210mm

#### Smaller alternative size (S)

When platform number signs will be viewed from a closer distance, an alternative size can be used. The height for these signs is 300mm. The CH of the pictograms/text is 100mm.



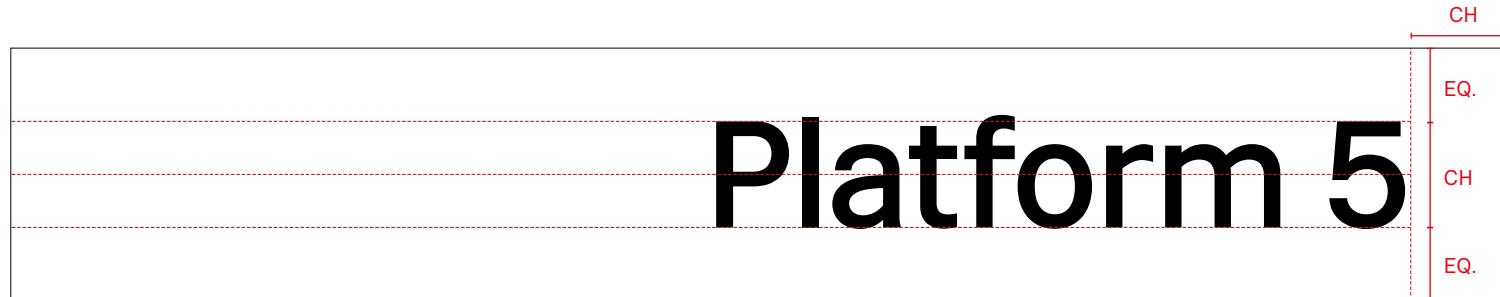
# Platform 4

Platform Text Left Aligned

# Platform 5

500mm (L) /  
300mm (S)

Platform Text Right Aligned



Margins



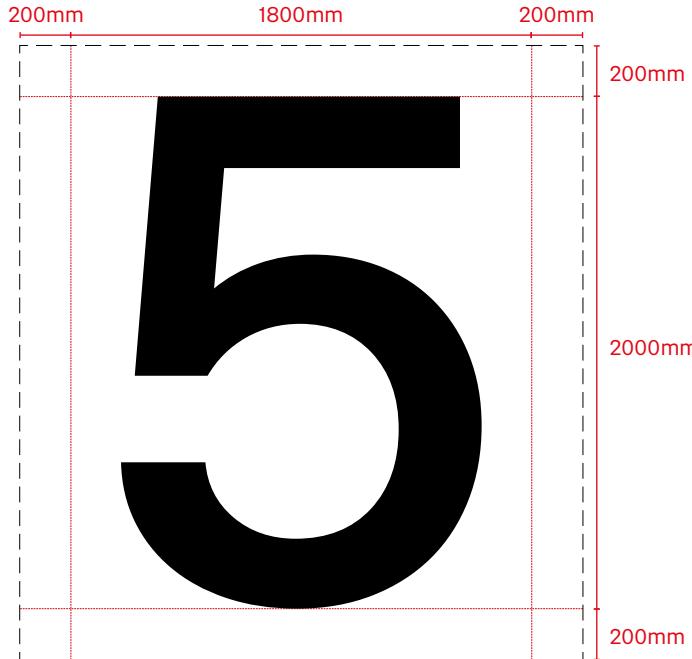
**Platform Supergraphic,  
Single-Digit**

Supergraphics are large graphics used in the environment. These can be employed strategically in stations to attract people's attention quickly. Platform numbers should be identified using supergraphics as a supplementary sign to the overhead Platform Number Signs. Supergraphics should be placed on the side return walls leading to platforms so that platforms can be identified quickly and efficiently while traversing through the station.



Platform Supergraphic,  
Double-Digit

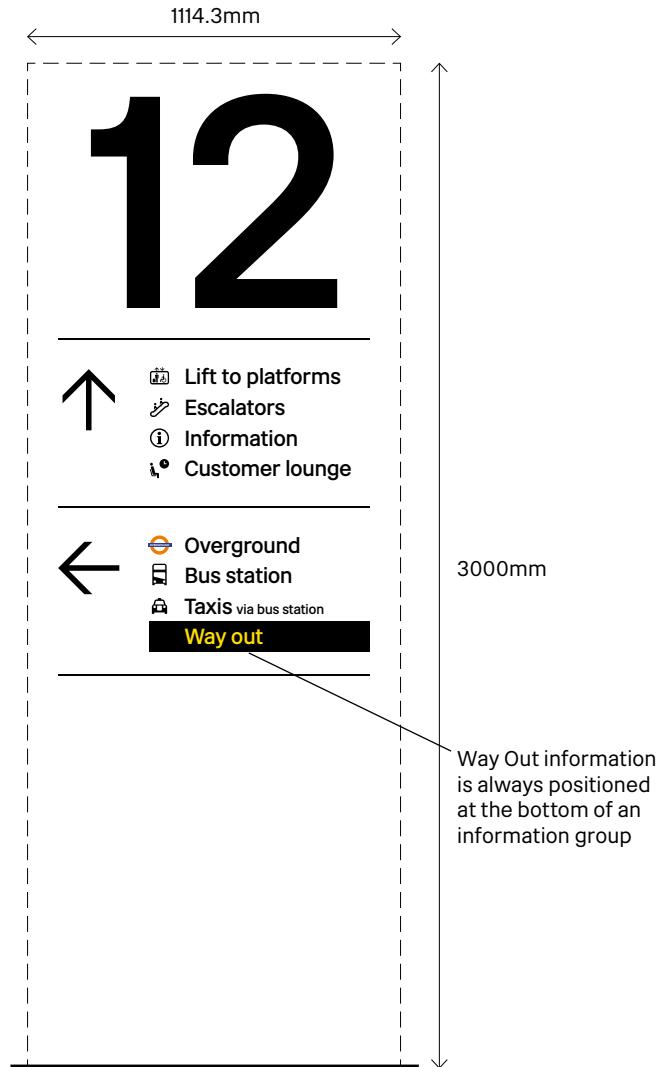




#### Margins and Alignment

#### Recommended sizing

The typeface used for these large platform numbers is Rail Alphabet 2 SIGN Medium. The height of the numbers is 2000mm. However, this may vary depending on the architecture of the station where the supergraphics will be placed. The minimum margin around the numbers is 200mm.



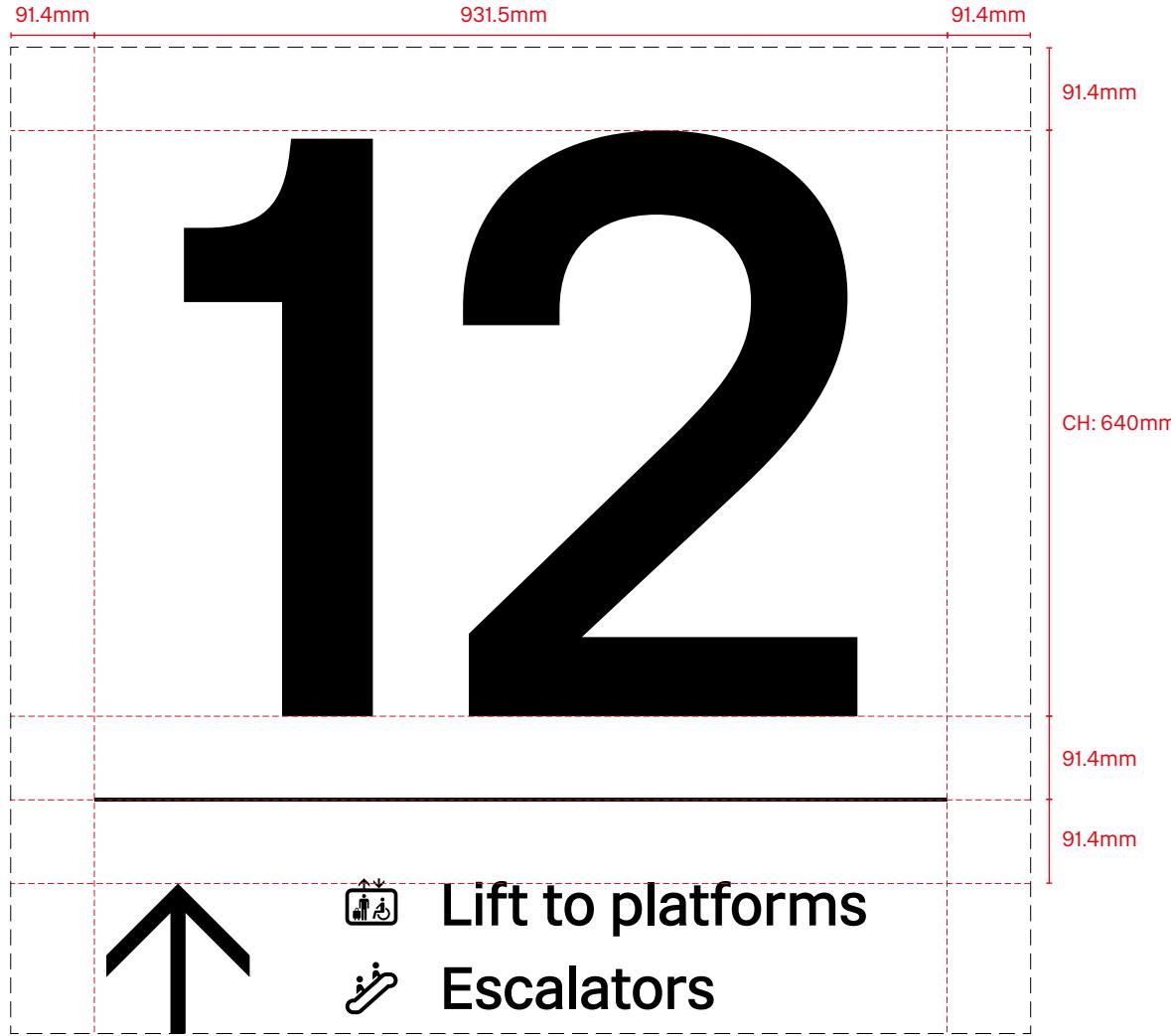
Platform totems effectively combine platform identification and directional information. When positioned on the platform consideration should be given to their impact on the pedestrian flows. They may not be suitable in situations where the available space is constrained. The platform number is always positioned above the wayfinding information and sized to be visible from the ticket gateline.

#### Platform identification

- Typeface: Rail Alphabet 2 SIGN Medium
- Recommended CH: 640mm

#### Wayfinding information

- The information is grouped by direction, with a maximum of 4 per group. Within each group, the information is organised by importance.
- Recommended CH: 45.7mm
- Stroke weight dividing line: 3.5mm
- Stroke weight arrow: 16.55mm
- Way Out information is always positioned at the bottom of an information group

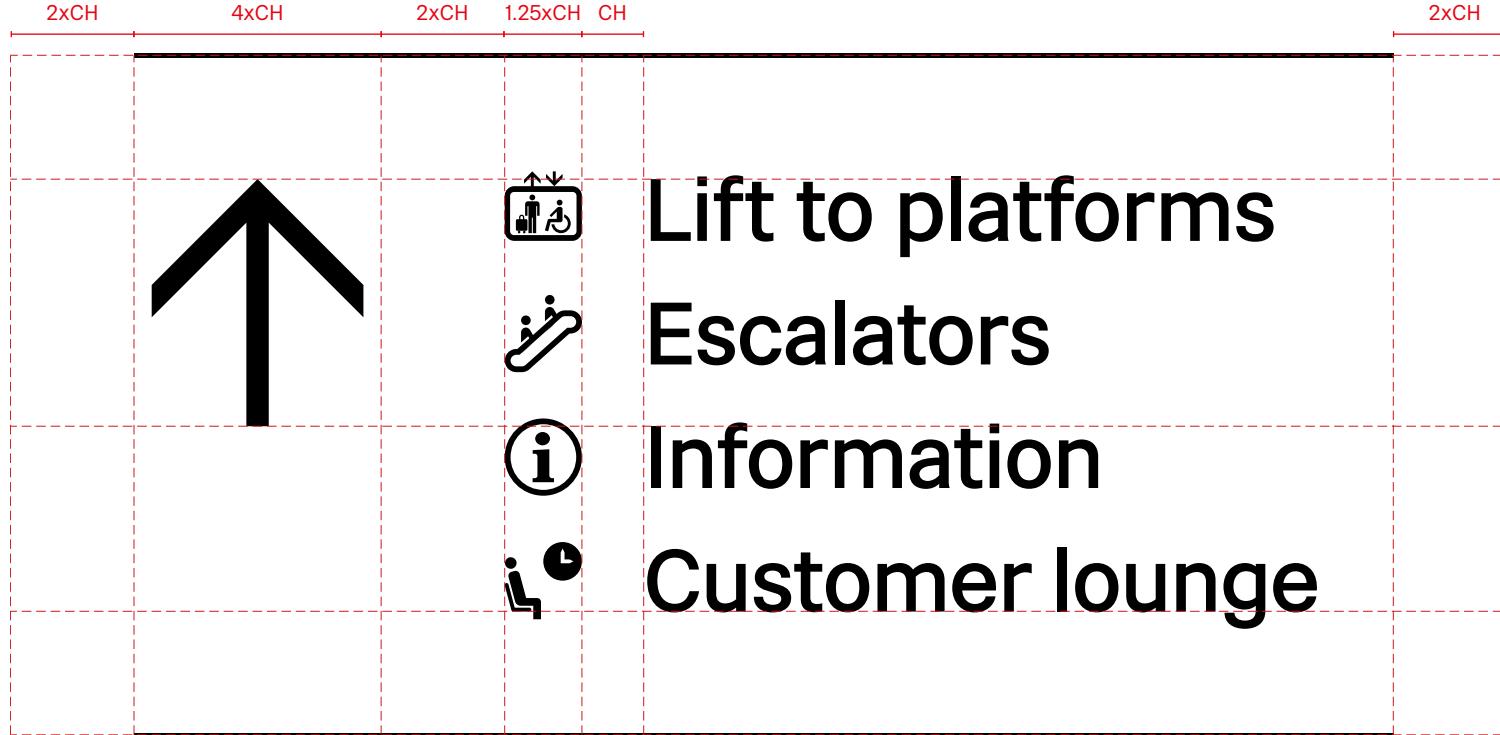


Platform Identification Margins

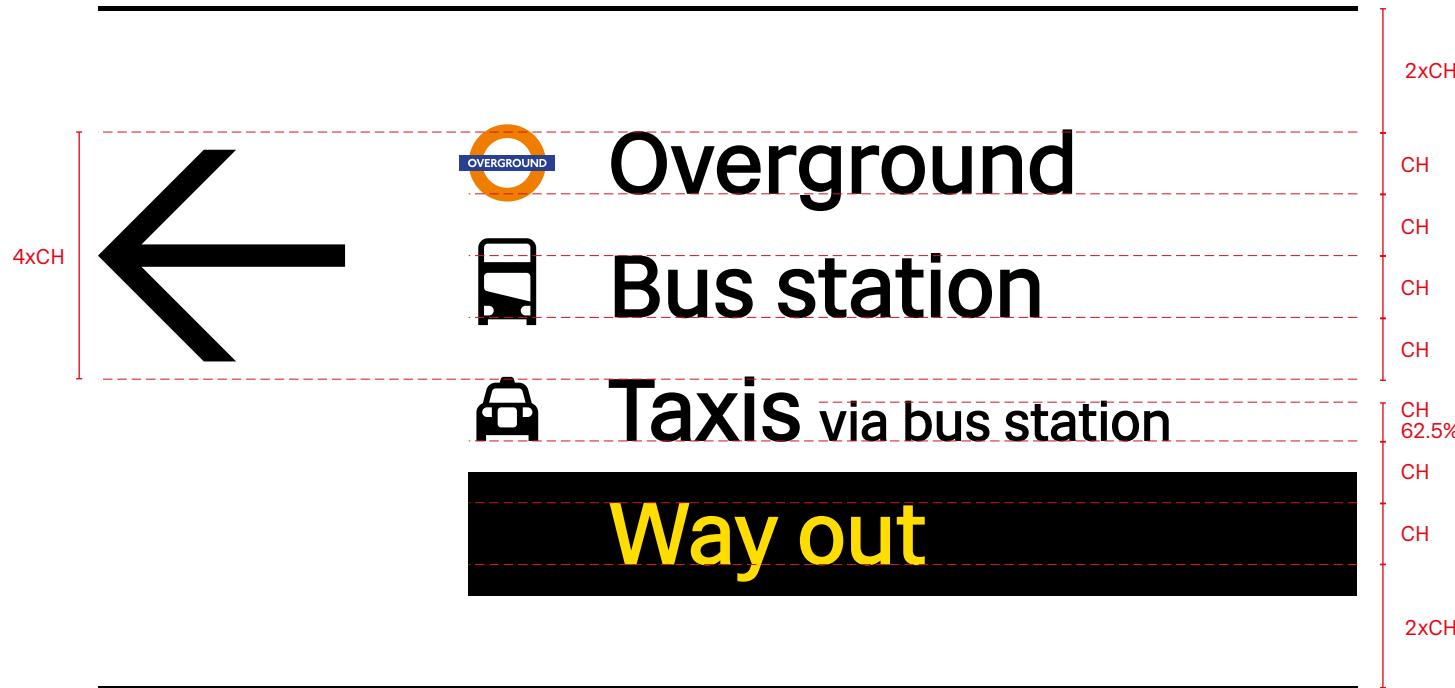
#### Recommended sizing

The platform numbers are centred within a space of 931.5mm (width) and 640mm (CH). The surrounding margin is 91.4mm, which is two times the CH of the wayfinding information on this totem.

## 6.13 Platform Totem Sign



Wayfinding Information Margins



Leading Wayfinding Information

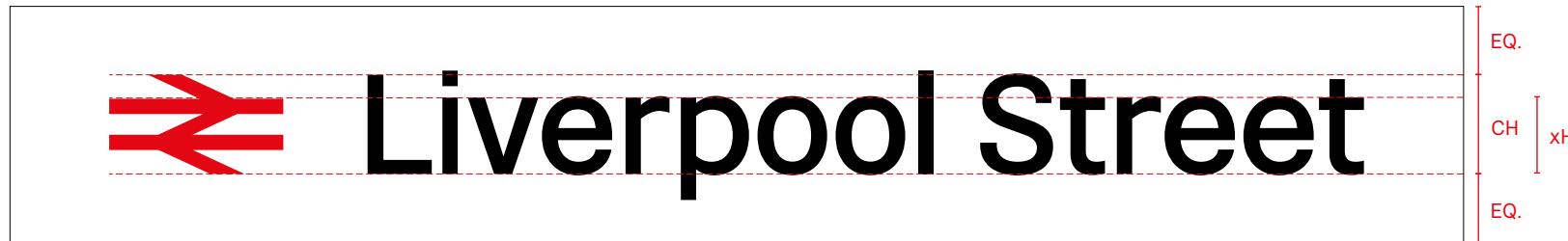
## 6.14 Station Identifier on Platforms



**Liverpool Street Platform Identifier**

Station identifier signs are used along the platforms at regular intervals. The interval should be defined by the platform function, length and configuration, with signs spaced on through platforms such that they can be visible from any position on a train. They can be wall, ceiling or pole mounted, depending on the station's architecture.

## 6.14 Station Identifier on Platforms

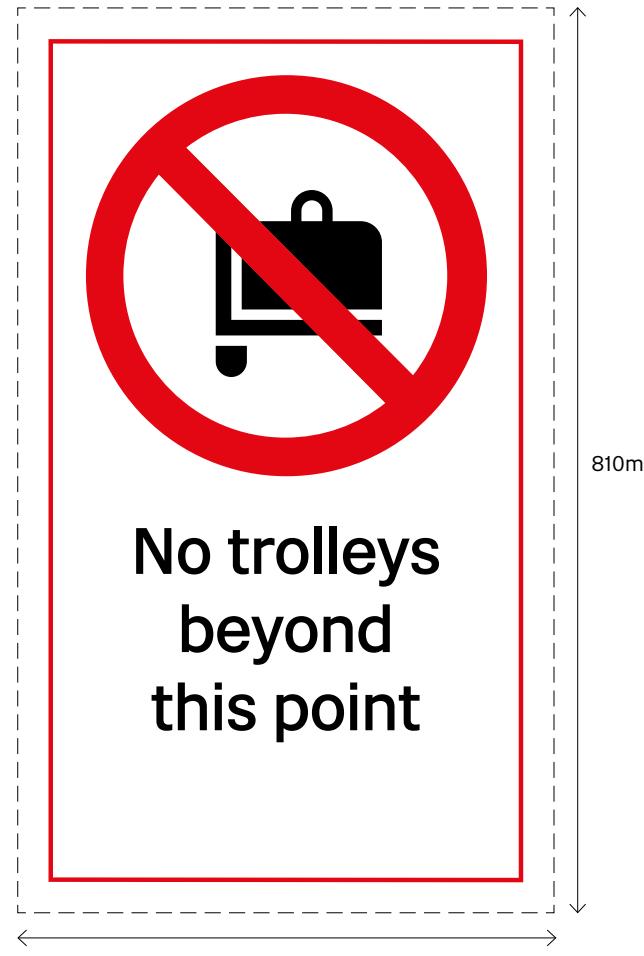


Liverpool Street Platform Identifier

### Recommended sizing

The Cap-Height (CH) of the information on the station identifiers is 210mm. The typeface used is Rail Alphabet 2 SIGN Medium.

## 6.15 Regulatory and Prohibition Signs



In addition to wayfinding signage, regulatory signage warns passengers of restricted access, hazards, rules and regulations. This type of signage is designed to align with the same visual system as the wayfinding signage, but should stand out as having an authoritative tone. Regulatory signs are for example: emergency exit; keep clear; caution; do not enter; no smoking; staff only and mobility access signs.

No Smoking Sign

No Trolleys Sign



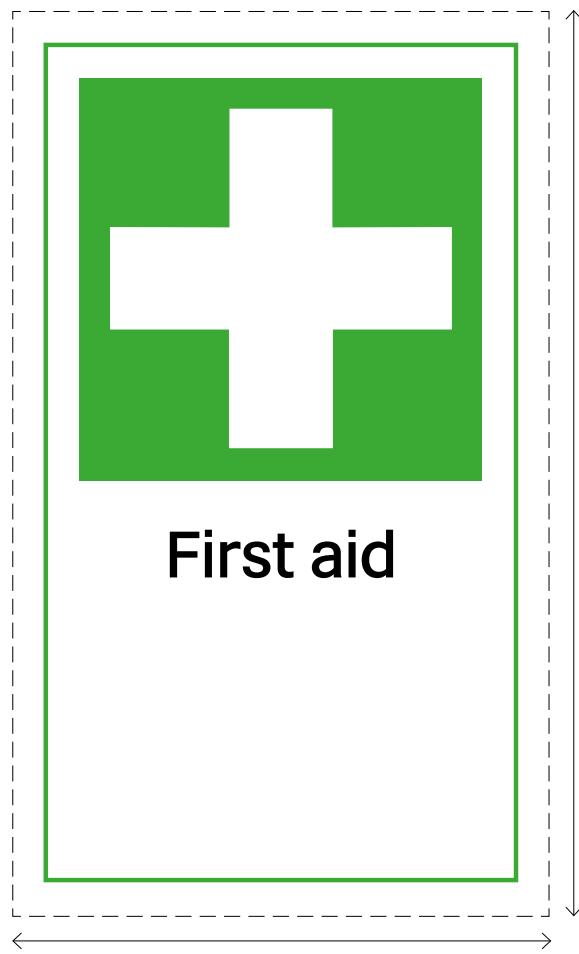
#### Margins and Alignment

#### Recommended sizing

The typeface used for these signs is Rail Alphabet 2 SIGN Medium. The Cap-Height (CH) is 41mm in this example. Depending on the sign and the information needed, the Cap-Height can slightly vary. However, it is important that all text is positioned within the allocated space of 360x300mm and is centred vertically.

# Sign Family

# **6.16 Fire and Life Safety Signs**



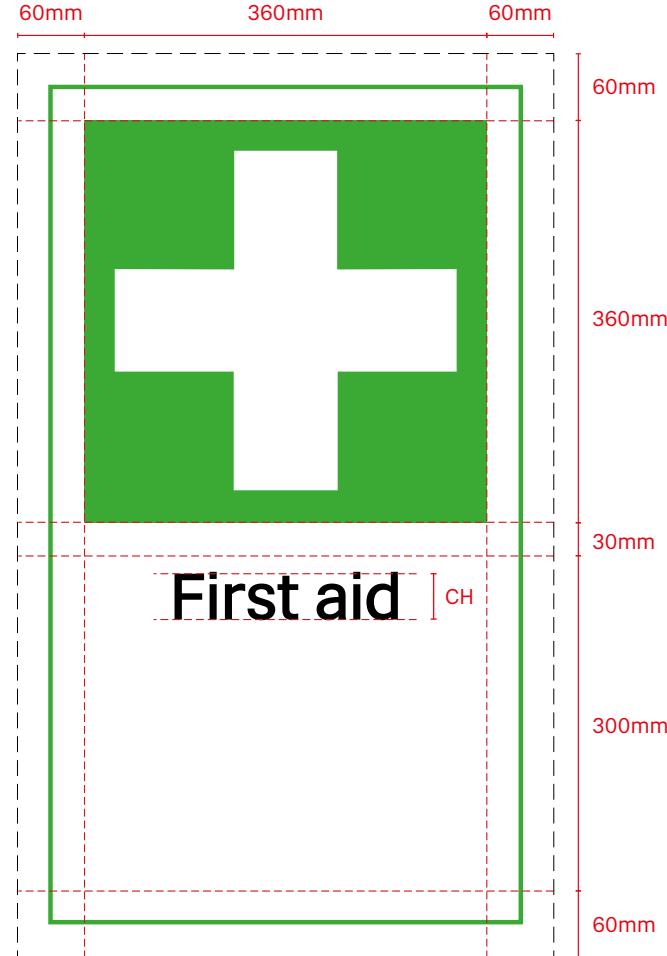
## **First Aid Sign**



Fire Extinguisher Sign

Fire and life safety signs provide information or instructions about health and safety. International symbols for fire and life safety are usually shown in red and green. The colours of these signs are not to be used elsewhere in the wayfinding signage colour palette. They convey safety and emergency information on signage. All signs should carry the correct pictogram with the appropriate text. Other wayfinding should never obstruct safety and emergency information.

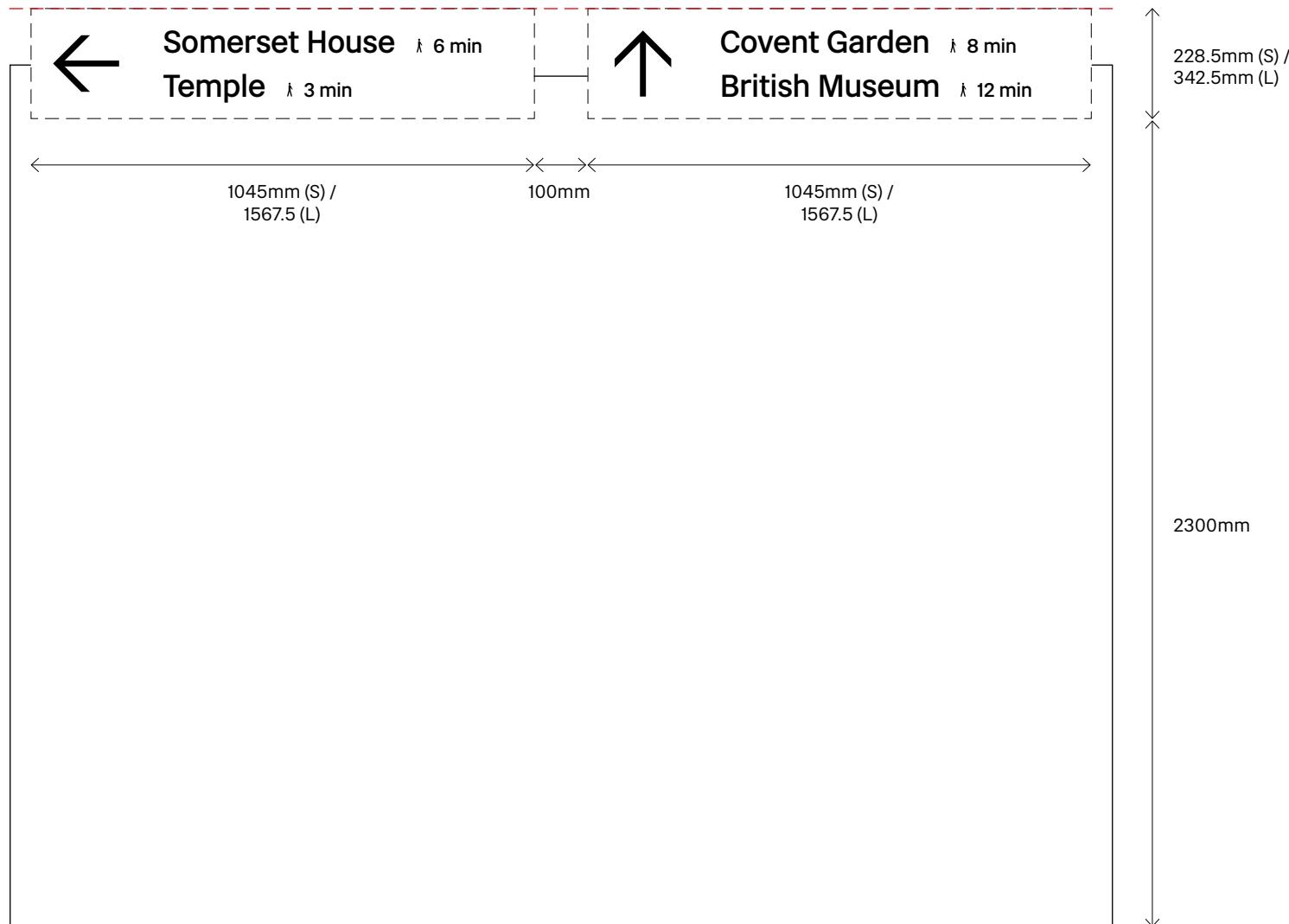
The colour of the First Aid sign is Pantone 3405C. For more information on statutory signage, please refer to document BS 5499.



## Margins and Alignment

## Recommended sizing

The typeface used for these signs is Rail Alphabet 2 SIGN Medium. The Cap-Height (CH) is 41mm in this example. Depending on the sign and the information needed, the Cap-Height can slightly vary. However, it is important that all text is positioned within the allocated space of 360x300mm and is centred vertically.



Passengers may require information about local destinations before exiting a train station. At the exit to the station, local area signs can be positioned above relevant exits. The information on these signs should be directional, with arrows pointing to popular tourist areas and attractions. These signs should be mounted over the exit. Further information may be provided on city maps outside the station.

#### Positioning

- A minimum headroom clearance of 2.3 metres needs to be maintained at all times
- When multiple signs are placed next to each other, they should be aligned to the top
- The minimum distance between signs is 100mm
- Arrows should not point at each other



Vertical Alignment



Horizontal Alignment

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## Recommended sizing (S)

- Cap-Height (CH): 45.7mm
- Stroke weight arrow: 12.41mm

## Larger alternative size (L)

- Cap-Height (CH): 68.5mm
- Stroke weight arrow: 18.61mm



# Wayfinding Design Guidance **Integration with Other Systems**



## 7.1 Advertising, Retail and Customer Information

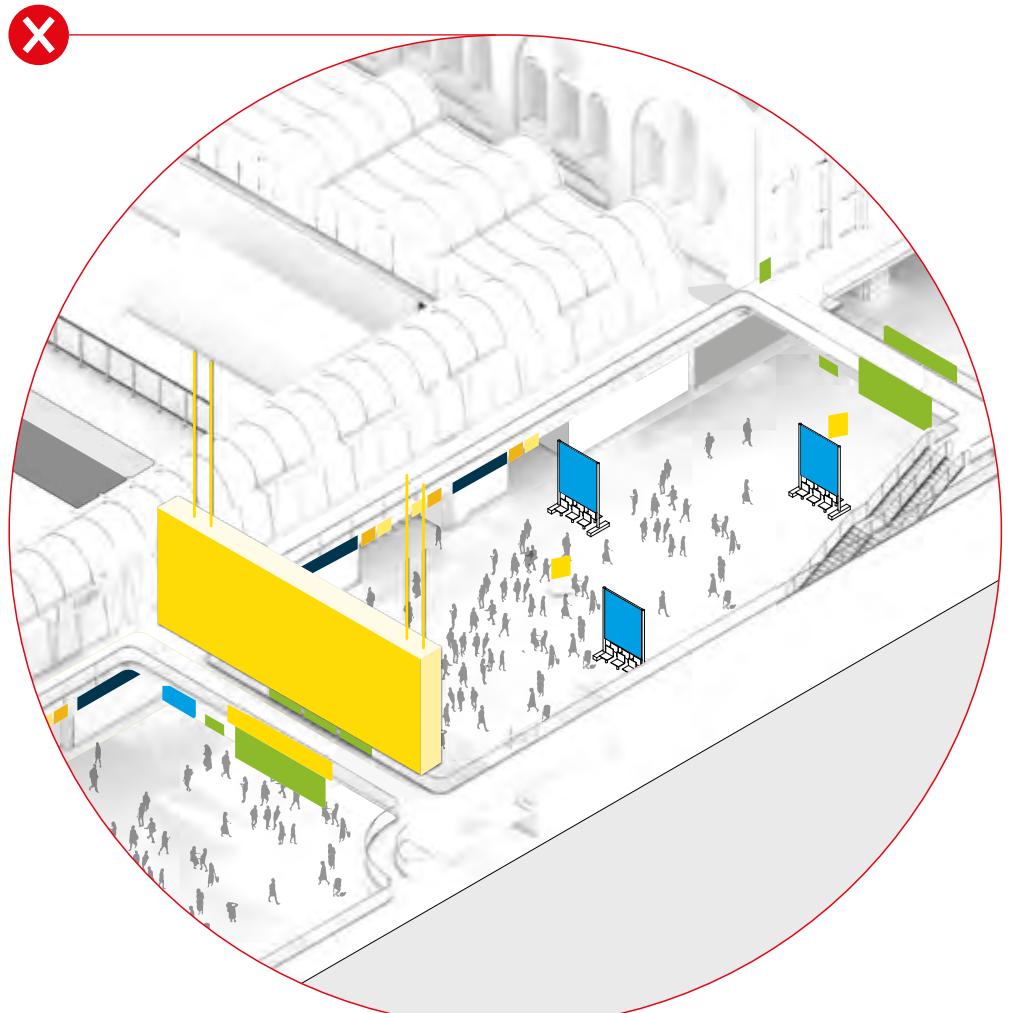


Fig. 29 Cluttered Signage

- Customer Information Screen
- Advertising
- Wayfinding
- Retail signage

Advertising materials, including posters, banners, mobile units and exhibition stands, present a potential conflict with wayfinding. Digital advertising material particularly with moving images can be distracting to many people with impairments and can be problematic for people who are neurodiverse. To check wayfinding is not compromised, a balance should be struck between maintaining the legibility of concourses and providing opportunities for retailers. Wayfinding signage should always take visual priority over other signs, and its view should always remain unobstructed from key decision points. Advertising cannot be combined with wayfinding on the same sign. Advertisements should not be placed in positions where they will visually obstruct, obscure, or distract from, station wayfinding or signage. Any adjacent advertising should have a reasonable level of illuminance in relation to station wayfinding.

### Standards Reference

Station Wayfinding Design and Assurance Procedure

NR/L2/CIV/150

### Visual clutter

A key issue impairing the usability of stations from a passenger's perspective is visual clutter. Standing on the concourse, passengers are bombarded with signs and messages from all angles with no easily discernible hierarchy or consistency.

## 7.1 Advertising, Retail and Customer Information

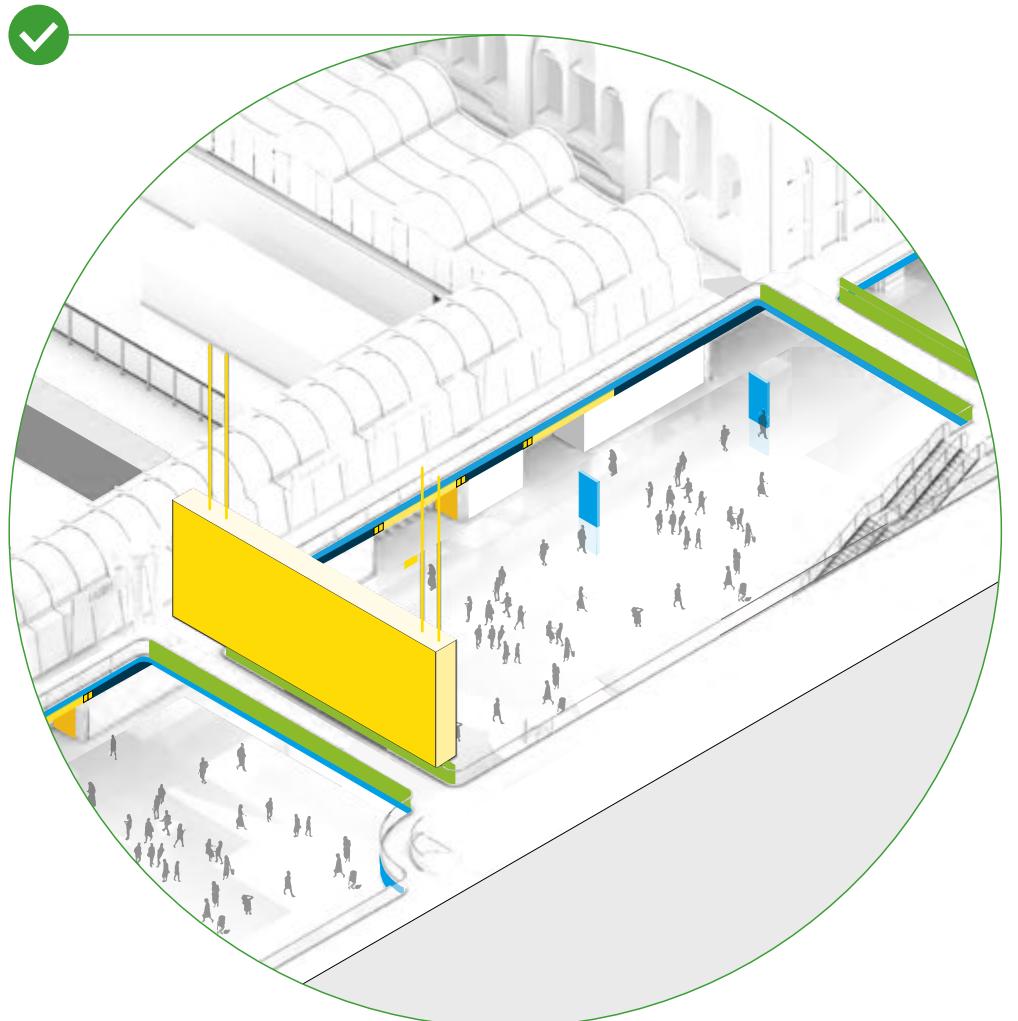


Fig. 30 Aligned Signage

- █ Customer Information Screen
- █ Advertising
- █ Wayfinding
- █ Retail signage

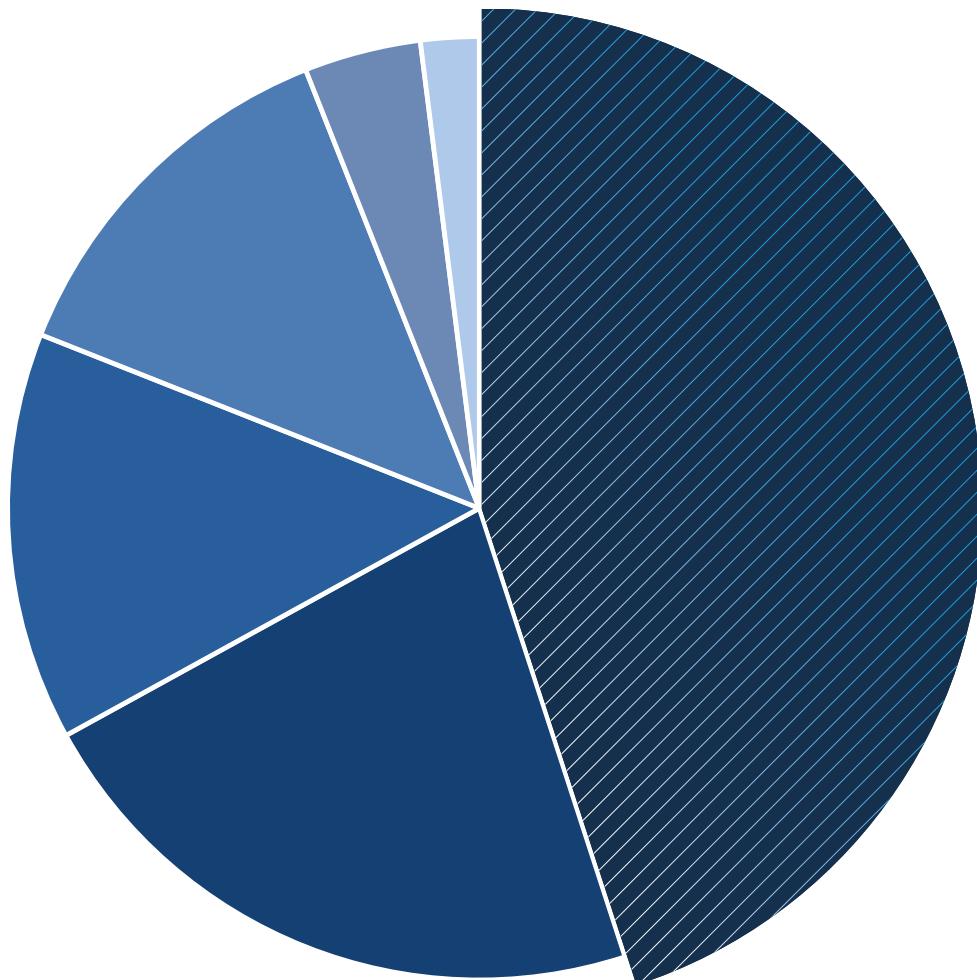
### Aligned bands of information

The proposed solution of fluid visual bands of information helps to reduce clutter and create greater visual impact. Easily distinguishable levels for wayfinding, CIS, retail and advertising elements should increase the usability of the station and improve the passenger experience. Moreover, through consistent signage and by creating a strong visual identity, the wayfinding can stand out more than it does at present.



- 1 Customer Information Screen
- 2 Advertising
- 3 Wayfinding
- 4 Retail signage

## 7.2 Onward Transportation Information



- Walk
- Car
- Tram/Underground
- Bus/Coach
- Taxi
- Bike

The mode of transport that is most dominant at each station will vary depending upon its location. In many cases, the default choice of transport for travel to and from rail stations is by car. 58% of CO<sub>2</sub> emissions in Britain come from cars, and each year this figure continues to rise. Therefore, it is beneficial to encourage staff and passengers to use sustainable forms of transportation and become less dependent on cars.

### Operators

Operators produce printed timetables and route maps. These are available from company offices, Travel Centres, or can be ordered online from bus and tram company websites.

### Interchange signage

Clear and easy to follow signage through the station, directing passengers from train to bus, is becoming more commonplace.

### Timetable displays

Local authorities and local bus operators provide timetable information about bus services at most local bus stops.

### Local councils / PTEs

Most councils and all PTEs have detailed public transport information available on their websites.

### Posters

Many local authorities and/or bus operators supply National Rail stations with timetable literature and/or posters about local bus services.

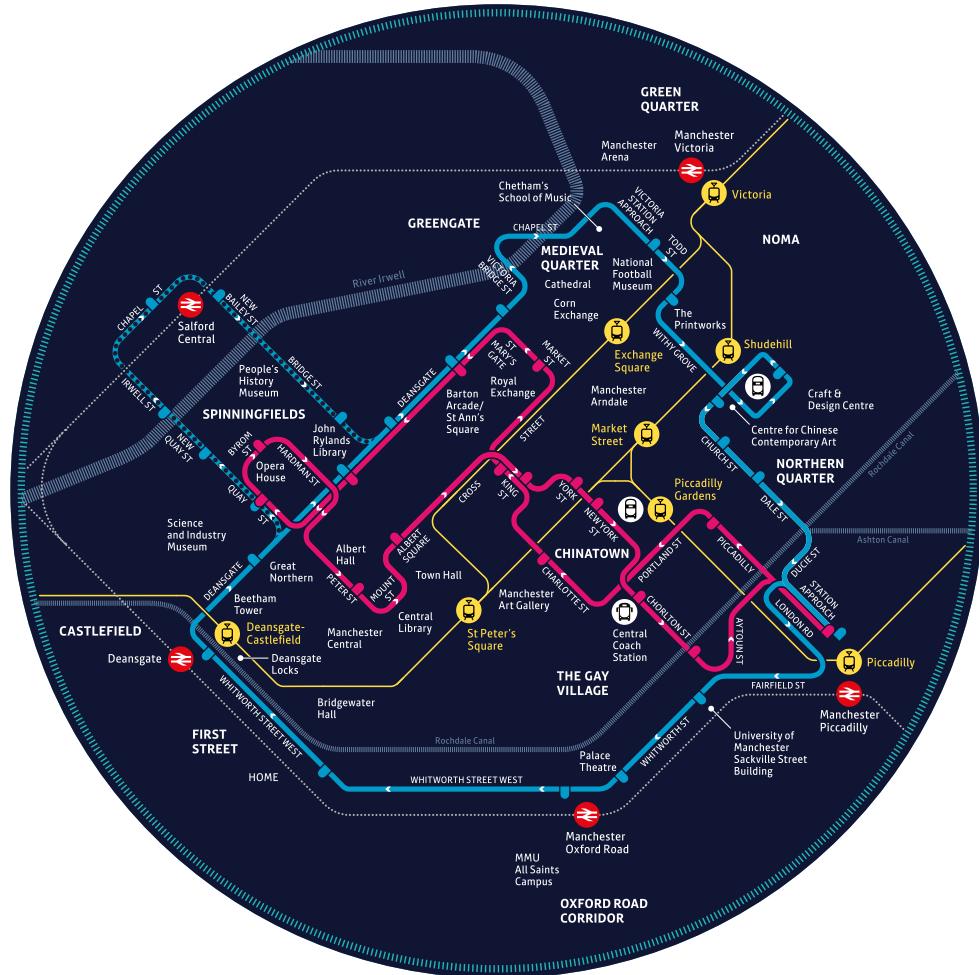
# Integration with Other Systems

## 7.2 Onward Transportation Information



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### Public Transport Connections

#### Free bus services

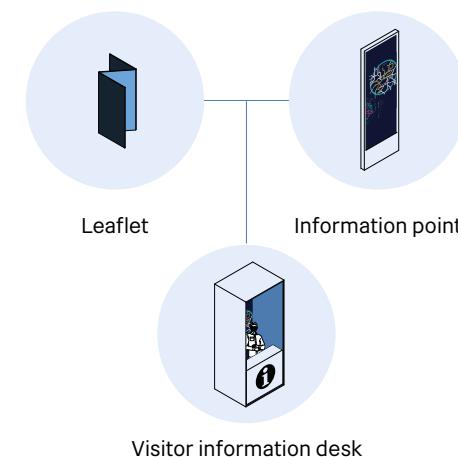
- Route 1 & stop
- Route 2 & stop
- Direction of travel
- Route 2 peak time only

#### Fare payable

- National Rail
- Metrolink tram
- Bus station
- Coach station

Very few rail passenger journeys actually start or finish at rail stations. Passengers live and work elsewhere and need to travel to and from rail stations by other forms of transport. Railway stations are therefore interchanges, where passengers change between various modes of transport, not just start or finish train journeys.

Passenger research has shown that across Britain 45% of National Rail passengers walk to the station. Therefore, over half of them use another form of transport (bus, bike, car or taxi) to get to the station.



#### Onward transportation information

The onward transportation map above is an example of an in-station guide which visitors can use when looking for further information on public transport options. Visitor information desks should provide information on onward transportation and further (repeated) information such as bus times should be placed by the exits and bus stops. Additionally, onward transport information should include train times, car rentals and taxi points.

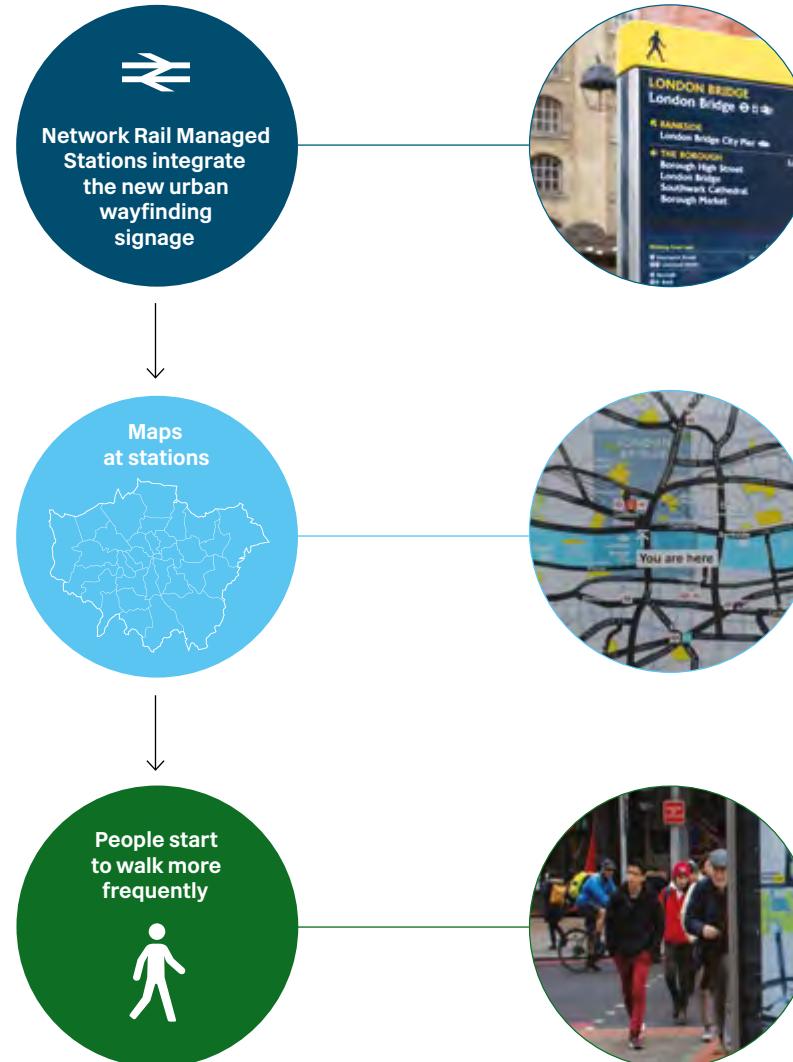
# Integration with Other Systems

## 7.3 Urban Wayfinding Systems

“

Signage is not the only means people use to find their way from A to B. Landmarks, public art, lighting, urban landscaping and urban planning all play their part in encouraging legibility and defining London's key characteristics, such as the river Thames, underpasses, tunnels and alleyways. On-line information, from TfL's journey planner and the AA website to visitlondon.com, are becoming increasingly popular means of planning routes before setting out. Printed maps and some on-street wayfinding kiosks are also part of the present mix. Most of these information sources were not designed specifically for pedestrians, but all have important lessons for developing a customer-led approach to pedestrian wayfinding in London.

*Legible London*



When passengers alight from the train and are new to a city, they may be in need of wayfinding information. By integrating urban walking maps directly into the station environment, visitors can plan their journey, find the most appropriate form of onward transportation and potentially be encouraged to walk, which is a sustainable mode of transport.

## Exit guide



### The Shard exit ↗

St. Thomas Street  
Guy's Hospital  
Old Operating Theatre Museum  
The Shard

### London Bridge exit ↑

London Bridge Station  
Buses 22  
Taxis 44

### Tooley Street exit ↙

London Bridge City Pier 4a  
London Bridge Cycle Park 4b  
Bermondsey Street  
City Hall  
London Bridge Hospital  
Southwark Crown Court  
Hey's Galleria  
H&G Belfast  
Unicorn Theatre

Example of In-Station Urban Wayfinding Integration

## 7.4 Station Security and Operations



Exterior or interior signage should not block or obstruct any CCTV inside the station environment.



Emergency Do Not Enter (EDNE) signage are located at the entrances of stations. These signs are lit and omit a sound when turned on. They should not be blocked by any other signage.

The fixing of Station Wayfinding should be in accordance with the DfT Security in the Design of Stations requirements.

For guidance on compliance contact Network Rail Group Security via email:[GroupSecurity@networkrail.co.uk](mailto:GroupSecurity@networkrail.co.uk)

It is important that wayfinding signage does not obstruct other types of signage and devices used for station security and operations. Security in the Design of Stations (2018) should be consulted in relation to security requirements and their interaction with the signage scheme. Signage and other wayfinding installations should comply with SIDOS in the same manner as any other Station or key asset locations, paying particular attention to compliance with:

Design Measures section 7.24 – 7.26; Fixtures and Fittings setting 7.27 – 7.31; and SIDOS Annex D – Blast Protection Requirements.

Security cameras and Emergency Do Not Enter (EDNE) signs are put in place for the passenger's safety and protection. Security cameras are placed outside and inside stations and run twenty-four hours a day. EDNE signs are placed at the entrances of stations, with the purpose of alerting visitors not to enter when an emergency occurs.

### Standards Reference

Security In the Design Of Stations (2018)  
SIDOS

# Integration with Other Systems

## 7.5 Digital Signage



Network Rail's digital signage is currently not fully integrated with the other wayfinding elements in the station environment. Moving forward, it is important that digital signage is implemented according to the NR Wayfinding Design Guidance, using the correct typography, alignment, scale and colour palette.

Please refer to NR/L2/TEL/30114, Specification for the Maintenance of CIS control equipment, for additional information on CIS screens.



Digital signage is increasingly used for station wayfinding and should be gradually integrated with other wayfinding elements. The benefits of using digital wayfinding include the flexibility to reconfigure wayfinding messaging, the seamless combination of customer information with wayfinding and the ease of connecting wayfinding information with the Network Rail customer information database. As the provision of digital information in spaces becomes more prevalent, screen usability factors should be considered. Digital screens, particularly touch screens, can be inaccessible to people with vision impairments and may be inaccessible to wheelchair users and people of short stature if the touch area is out of reach. New technologies allow the usable portion of a touchscreen to be interactively lowered to suit the height of the user. This allows people of different heights and in wheelchairs to customise the working area to their height, if configured properly. These digital touchpoints can also include audio output and the ability to increase font size and screen contrast. It is important that digital advertising is not combined with the wayfinding information, and is always visually separated.

## 7.6 Future Technology



Numerous techniques that allow wayfinding systems to be accessible for all have been utilised and are being developed around the world. Some examples of the latest initiatives are shown below. While digital wayfinding has an important role to play, it cannot be relied upon as the only method for finding your way. To future proof stations, new technologies should be considered when developing the wayfinding strategy and applications.

### Future technology

Different devices, such as smart phones, tablets and sat-navs have become commonplace – and in some instances have largely replaced previous devices, such as paper maps, or pushed them into a niche existence. Further technological development is inevitable. The trend towards more integrated devices – heading towards wearables, such as the Apple watch, or mixed and augmented reality concepts including Google Glass or Microsoft's HoloLens – is likely to continue over the foreseeable future. Additionally to wayfinding, personal digital devices offer added benefits, such as counting of visitors, advertisement and customer identification, which make them attractive for operators of key destinations.

## 7.6 Future Technology



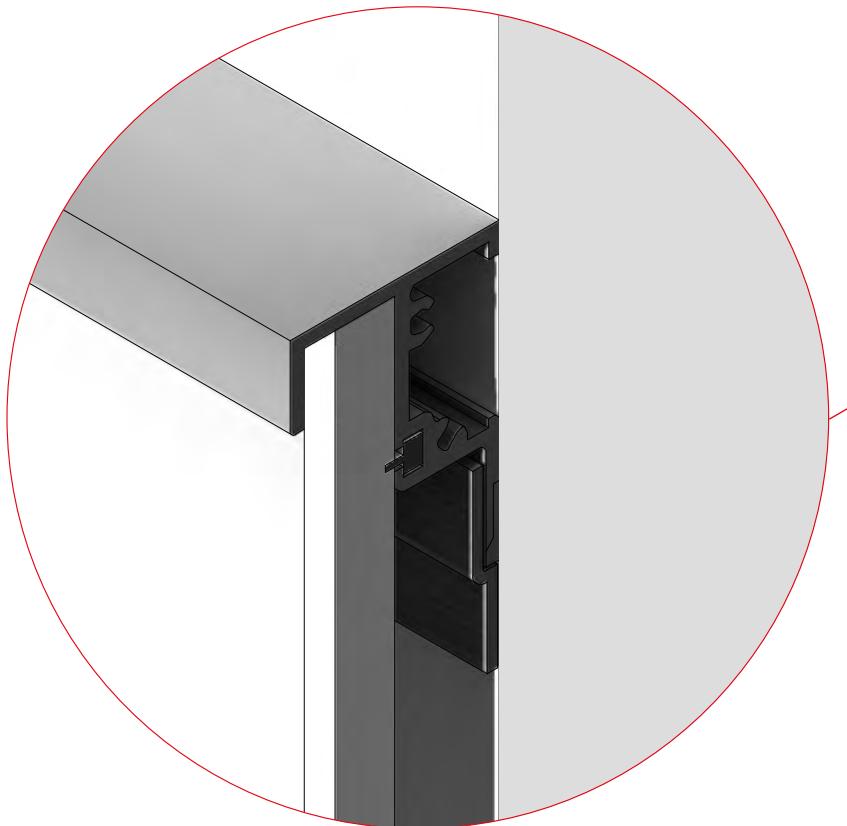
### iBeacon

iBeacons can be used to provide information for people with hearing impairments (as well as other travellers). iBeacons are a small, inexpensive product that can be integrated into wayfinding. They transmit a signal to a person's smartphone or other wearable technology that can provide a description of the information on an adjacent sign or even of the surrounding environment.

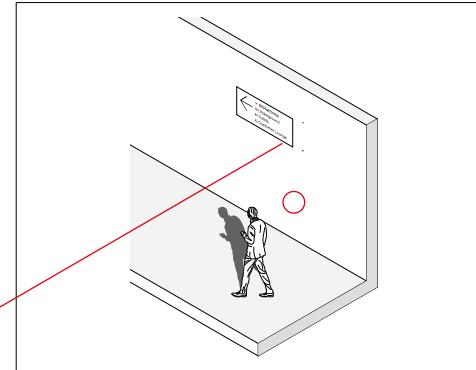
### Next generation

Next generation wayfinding research and development focuses on user experience. Augmented reality is technology that allows for a digitally enhanced view of the world, connecting the user with an informational content overlay on the environment. With the camera and sensors in a smartphone, or with a holographic glass running on Intel Core processors, AR adds layers of digital information – videos, photos, sounds – directly onto the world around us.

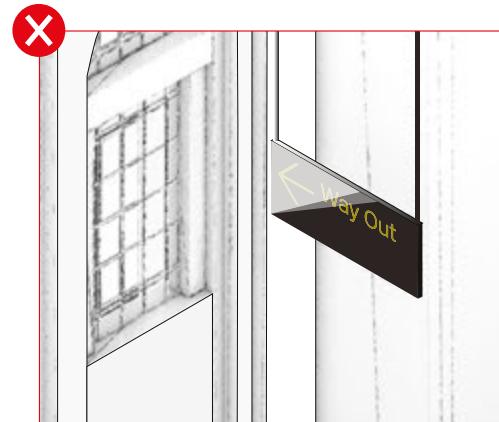
## 7.7 Illumination



Detail of an Illuminated Sign



All electrical feeds to illuminated signs should be as discreet as possible, and any conduit should be buried beneath the wall finish entering the sign through the back.



Glare should always be prevented

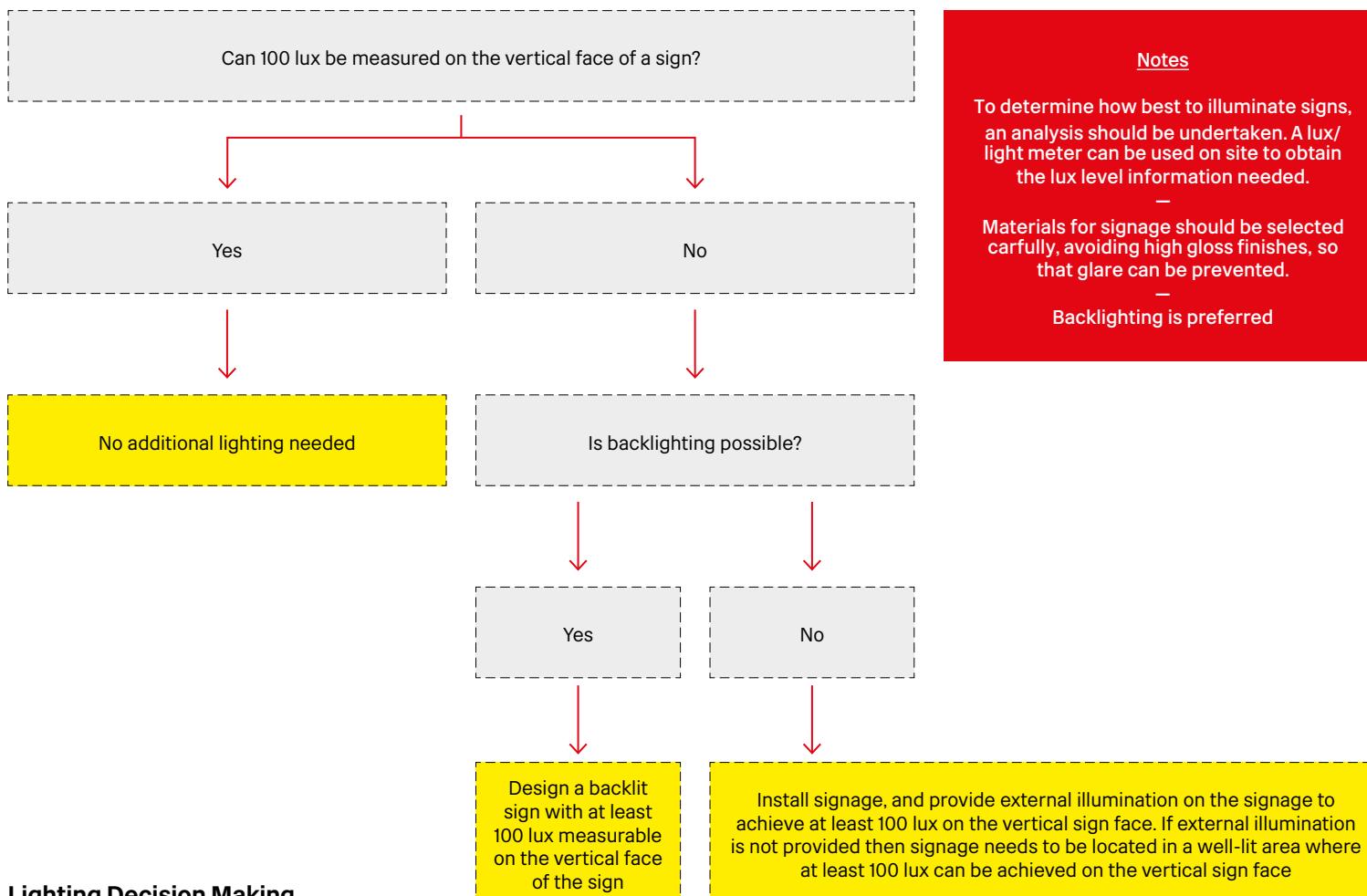


Great care should be taken when positioning lighting in relation to signage in station areas. This is particularly important where energy-saving downlighters are adopted as the primary lighting source, as this can leave areas of the ceiling in relative darkness. All illuminated signs should have a luminance of 100 lux with a maximum variation in luminance of 10% across the face of the sign. Additional lighting should be provided if this can't be achieved. Where possible, signs should not be attached close to lighting fittings so as to cast shadows on wall areas.

# Integration with Other Systems

## 7.7 Illumination

### PROCESS TO DETERMINE APPROPRIATE METHOD TO PROVIDE SUFFICIENT ILLUMINATION FOR SIGNAGE





# Reference Documentation

Wayfinding Design Guidance  
**Appendix A**



# Appendix A

## Referenced Standards and Guidance



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Designs which claim compliance with relevant standards are expected to be able to justify any course of action that deviates from recommendations.

For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

### Equality Act

PRM TSI, Persons with Reduced Mobility -Technical Specification for Interoperability

Design Standards for Accessible Railway Stations (DfT 2015) – A joint Code of Practice by the Department for Transport and Transport Scotland  
Department for Transport-Security in the Design of Stations (SIDOS)  
Recommended Best Practice (2018)

Inclusive Mobility – A guide to best practice on access to pedestrian and transport infrastructure (DfT 2005)

### Network Rail

NR/L2/CIV/003 Engineering and Architectural Assurance of Building and Civil Engineering Works

NR/L2/CIV/003/F004 Architectural and Layout Acceptance

NR/L2/CIV/150 Station Wayfinding design and assurance procedure

### British Standards

BS 8300-1-2018 Design of an Accessible and Inclusive Built Environment – External

BS 8300-2-2018 Design of an Accessible and Inclusive Built Environment – Internal

Wayfinding at Stations: A Good Practice Guide RSSB T321 (2006)

London Underground Signs Manual – Issue 4

RIBA Plan of Work 2020. (2020). [PDF] RIBA.

Station Design Principles for Network Rail. (2019).

Transport for London (2004). Docklands Light Railway Signs Standard. 2nd ed. London: Transport for London.

### Books

Spaceagency. (2018). The Spaceagency Guide To Wayfinding. [Hong Kong, China]: Artpower International Publishing Co., Ltd.

Design of buildings and their approaches to meet the needs of disabled people : code of practice. (2001). London: BSI.

Sign Design Guide – A guide to Inclusive signage. Sign Design Society (2004)

### Further reading

Crossrail, RIBA Stage E - C100 Wayfinding, signage, advertising and public art design guideline. (2010). 1st ed. London: Crossrail Limited.

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Rail Delivery Group Wayfinding Best Practice Guide (2018)

# Acknowledgements

Wayfinding Design Guidance  
**Appendix B**



# Appendix B

## Acknowledgements



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#### Adam Parker

2 (King's Cross), 12 (King's Cross),  
14 (King's Cross), 22 (Manchester Piccadilly),  
34 (Birmingham New Street)  
124 (King's Cross)

#### Ralph Hodgson

110 (Liverpool Street)

#### Others

120 Google Glass ([www.siliconbeat.com](http://www.siliconbeat.com))  
120 Apple Watch ([www.techradar.com.uk](http://www.techradar.com.uk))  
121 Dispositivo Beacon ([es.wikipedia.org](http://es.wikipedia.org))  
121 Next Generation Technology: Aihong, L.

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