
Signs (Hudson Signs)

Contents

Hudson Signs

Tom Wright
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2 Williamsport Way
Lion Barn Industrial Estate
Needham Market
Ipswich
IP6 8RW
01449 723346



winvic

winvic.co.uk

Contents

Scope of Works

Certificates/Warranties/Guarantees

Cleaning and Maintenance Regimes

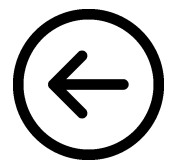
Data Sheets



winvic

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Scope of Works

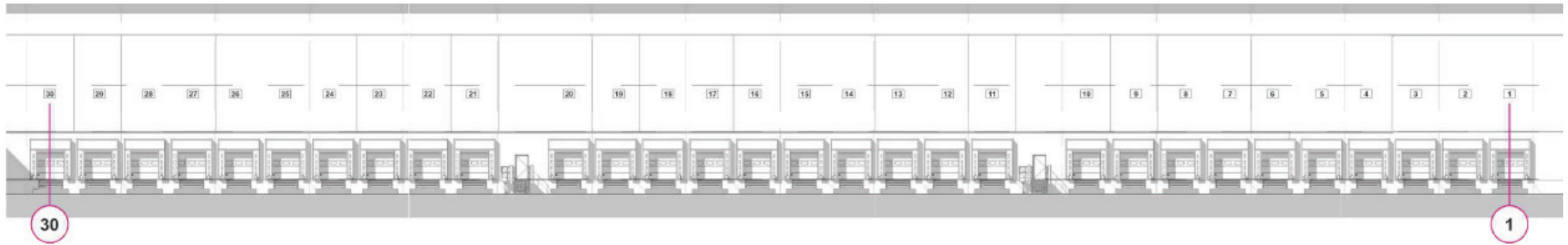


winvic

winvic.co.uk

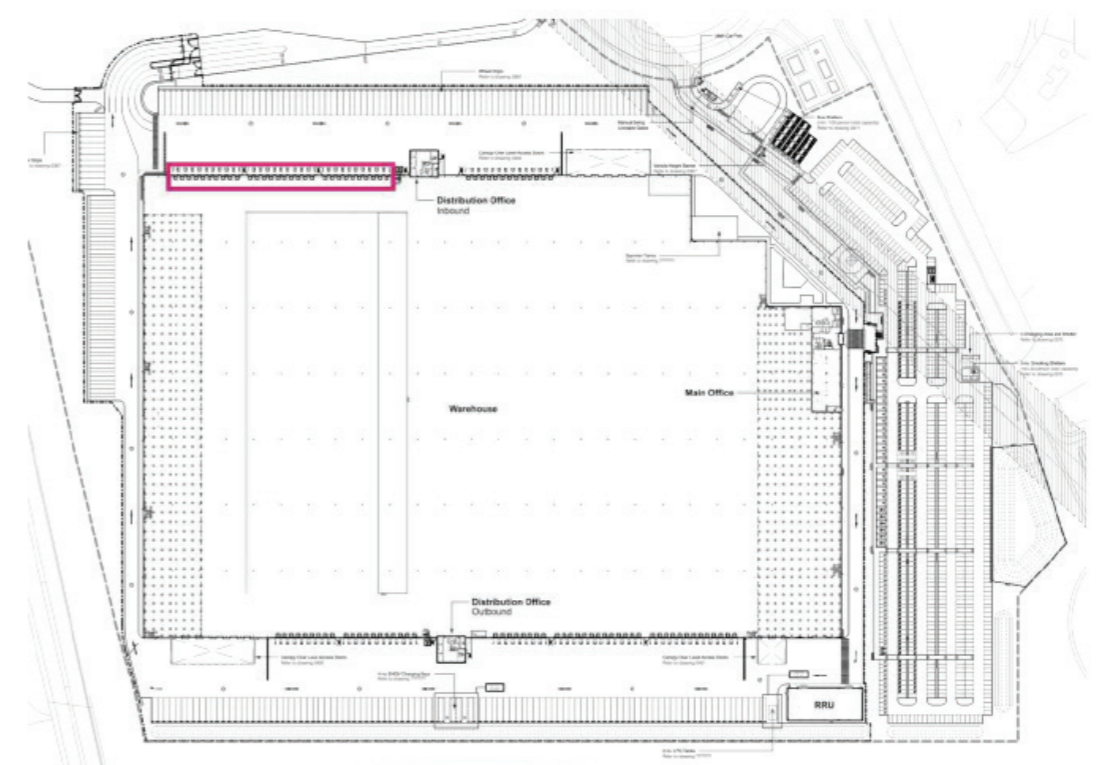


The Range Stowmarket
Loading Bay Externals
REV A

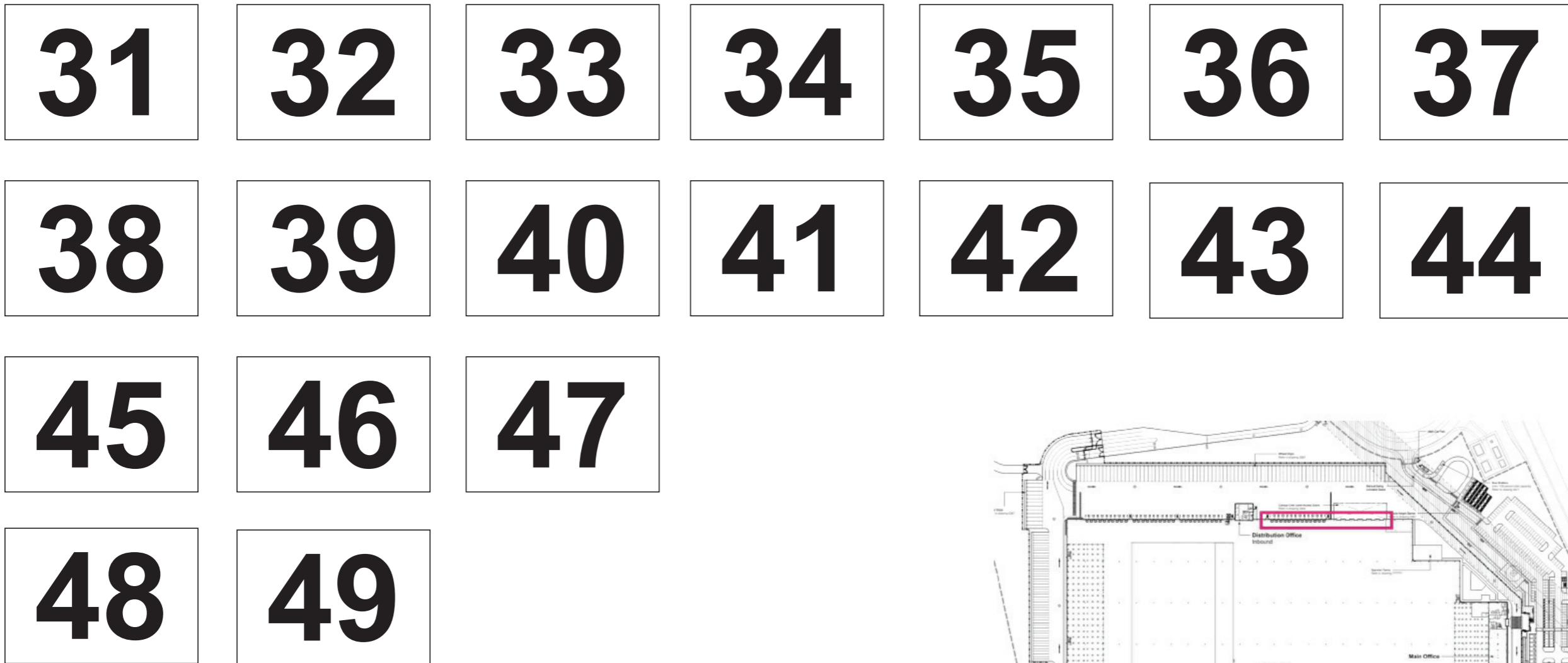


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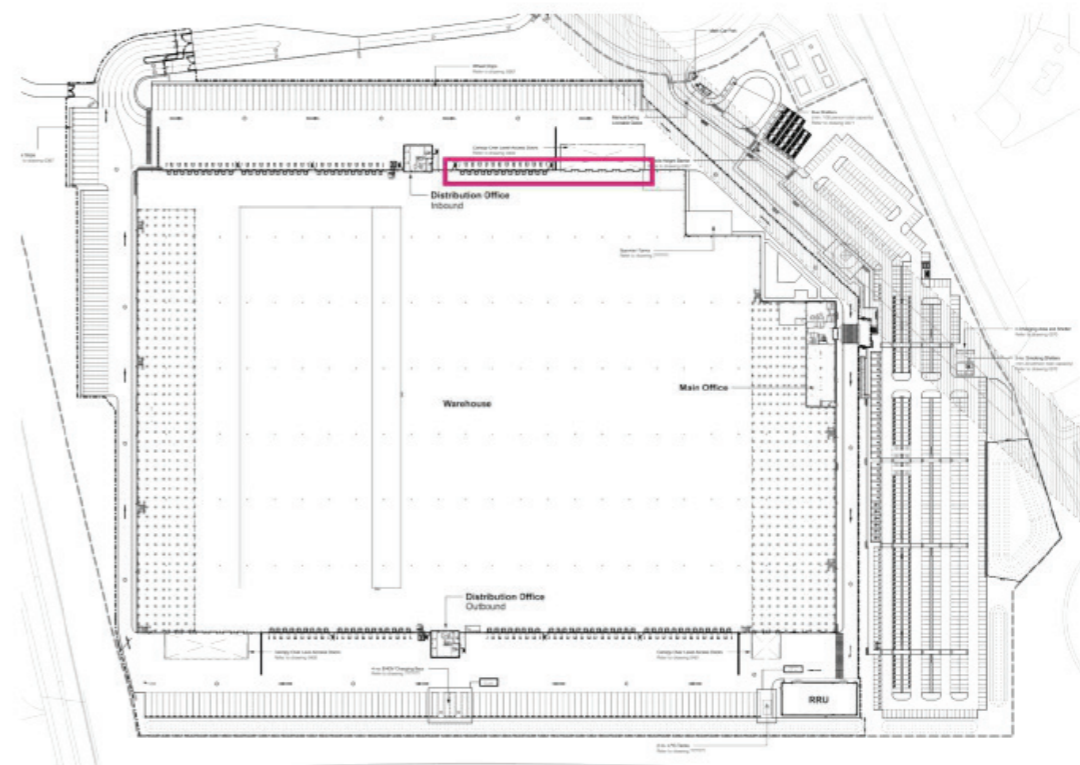
Loading Bays: North East elevation bays 1-30
 1000 x 700mm x 3mm panel with vinyl number
 Text height 450mm



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amendments		
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client The Range		
project External Loading Bays		
title External Loading Bays		
job number 04409		
date 3/6/2024	designer LB	
project manager Tom Wright		
scale NTS		
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<small>DIMENSIONS ON SITE AND ALL EQUIPMENT SIZES TO BE VERIFIED PRIOR TO WORK COMMENCING.</small>		



Loading Bays: North East elevation bays 31-49
 1000 x 700mm x 3mm panel with vinyl number
 Text height 450mm



comments

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client
 The Range

project

title
 External Loading Bays

job number
 04409

date
 3/6/2024

designer
 LB

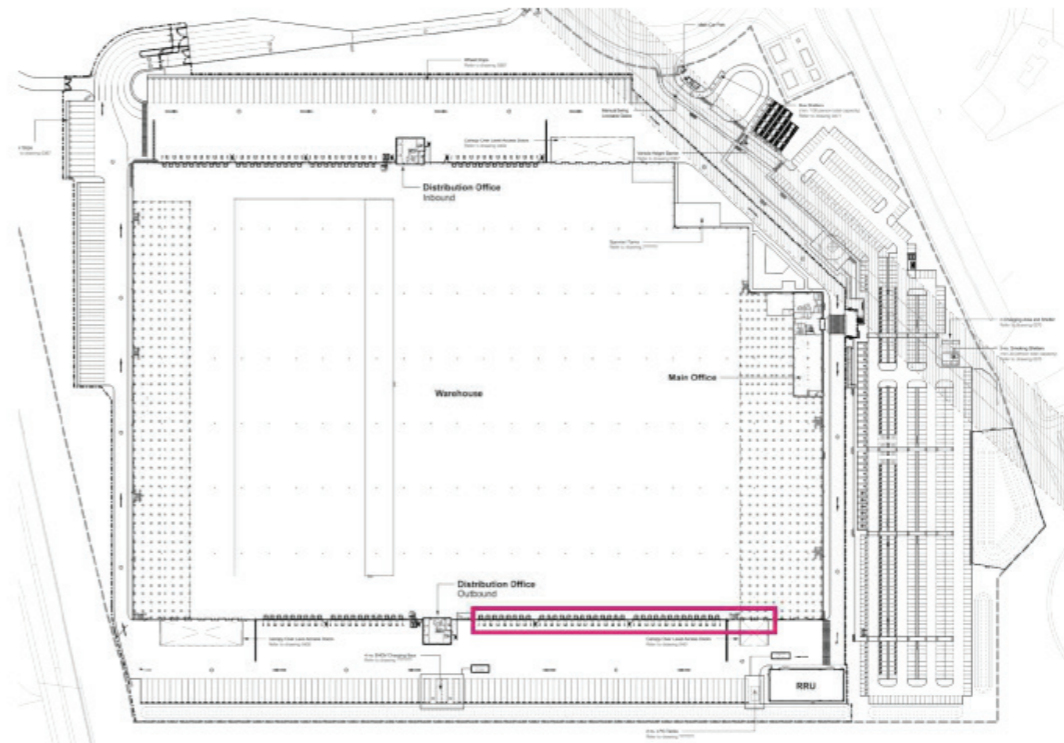
project manager
 Tom Wright

scale

NTS
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50	51	52	53	54	55	56	57
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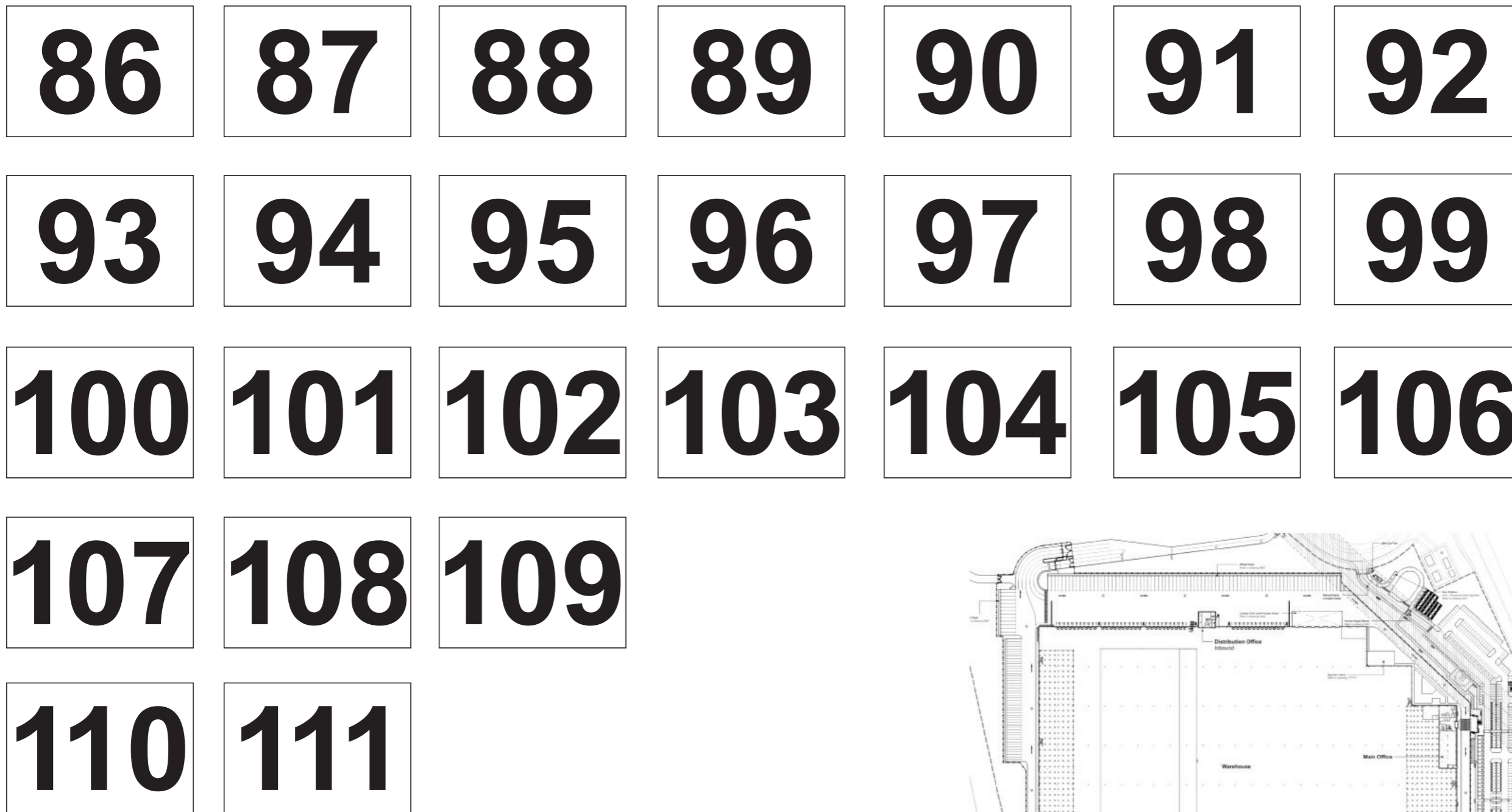


Loading Bays: South West elevation bays 50-85
 1000 x 700mm x 3mm panel with vinyl number
 Text height 450mm

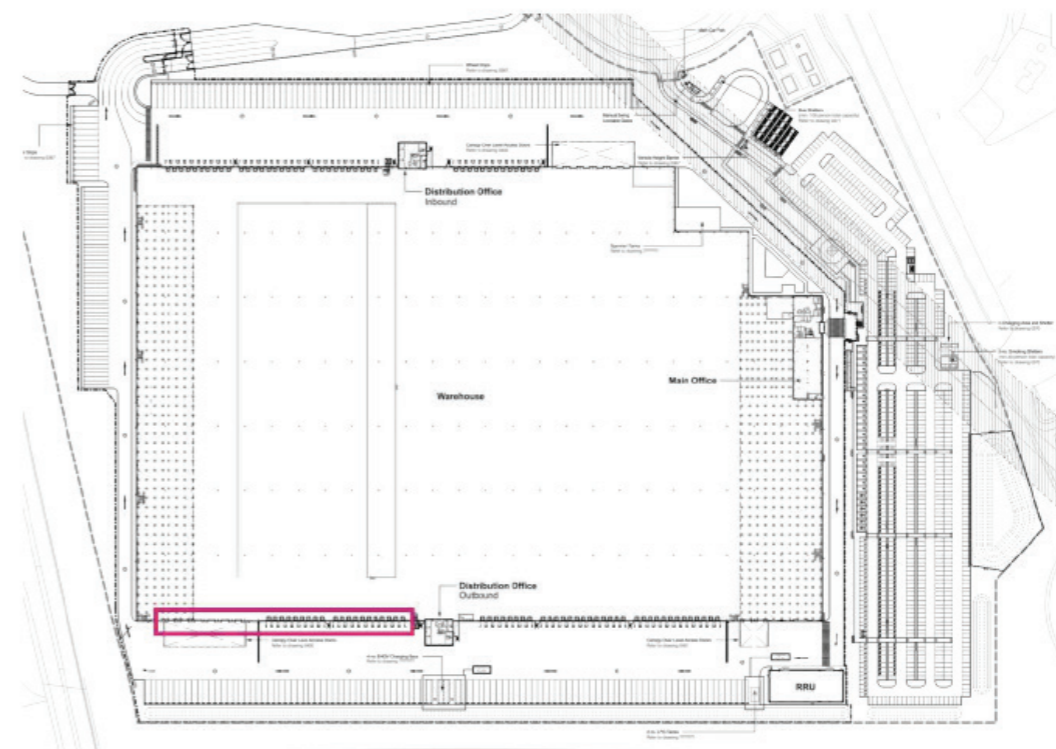
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 client
 The Range
 project

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 External Loading Bays
 job number
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 date
 3/6/2024
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Loading Bays: South West elevation bays 86-111
 1000 x 700mm x 3mm panel with vinyl number
 Text height 450mm



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client
 The Range
project

title
 External Loading Bays

job number
 04409

date 3/6/2024
designer LB

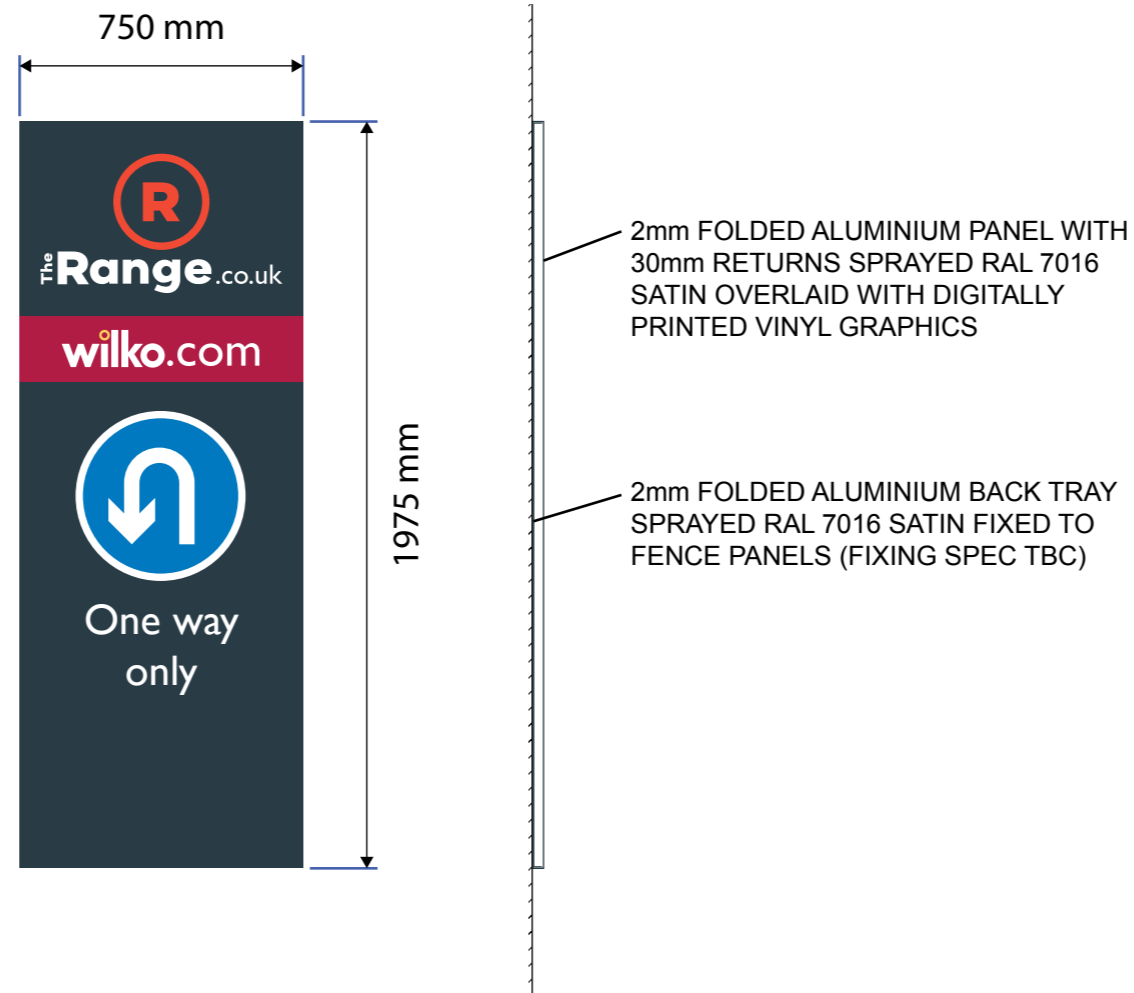
project manager
 Tom Wright

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WINVIC
THE RANGE STOWMARKET
EXTERNAL SIGNAGE
PRIORITY ITEMS



SIGN A

FOLDED 2mm ALUMINIUM PANEL WITH 30mm RETURNS SPRAYED RAL 7016 SATIN, OVERLAID WITH DIGITALLY PRINTED VINYL GRAPHICS. 2mm FOLDED ALUMINIUM BACK TRAY TO SUIT SPRAYED RAL 7016 SATIN

**** FINAL FIXING DETAIL TO FENCE PANELS TO BE CONFIRMED BY THE RANGE ****

SIZE: 750mm x 1975mm x 30mm
WEIGHT: 15KG (APPROX)

comments

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client
WINVIC

project
THE RANGE
STOWMARKET

title
EXTERNAL
PRIORITY ITEMS

job number
04409

date	designer
04-04-24	OG

project manager
TW

scale
AS SHOWN @ A3

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2mm FOLDED ALUMINIUM PANEL WITH
30mm RETURNS SPRAYED RAL 7016
SATIN OVERLAID WITH DIGITALLY
PRINTED VINYL GRAPHICS

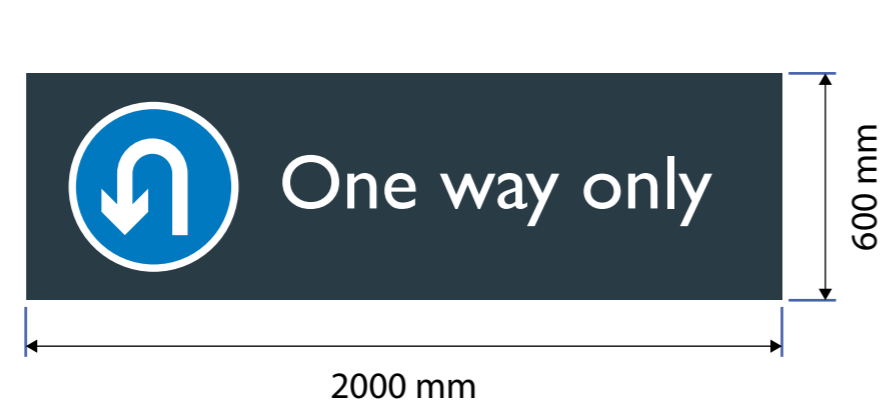
FITTED TO GATEHOUSE ON
25x25x3mm ALUMINIUM ANGLE

SIGN B

FOLDED 2mm ALUMINIUM PANEL WITH 30mm RETURNS SPRAYED RAL 7016 SATIN,
OVERLAID WITH DIGITALLY PRINTED VINYL GRAPHICS. FITTED TO GATEHOUSE USING
25mm ANGLE

** FINAL FIXING DETAIL TO BE CONFIRMED BY THE RANGE **

SIZE: 2640mm x 450mm x 30mm
WEIGHT: 10KG (APPROX)



2mm FOLDED ALUMINIUM PANEL WITH
30mm RETURNS SPRAYED RAL 7016
SATIN OVERLAID WITH DIGITALLY
PRINTED VINYL GRAPHICS

FITTED TO GATEHOUSE ON
25x25x3mm ALUMINIUM ANGLE

SIGN C

FOLDED 2mm ALUMINIUM PANEL WITH 30mm RETURNS SPRAYED RAL 7016 SATIN,
OVERLAID WITH DIGITALLY PRINTED VINYL GRAPHICS. FITTED TO GATEHOUSE USING
25mm ANGLE

** FINAL FIXING DETAIL TO BE CONFIRMED BY THE RANGE **

SIZE: 2000mm x 600mm x 30mm
WEIGHT: 10KG (APPROX)

comments

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client
WINVIC

project
THE RANGE
STOWMARKET

title
EXTERNAL
PRIORITY ITEMS

job number
04409

date	designer
04-04-24	OG

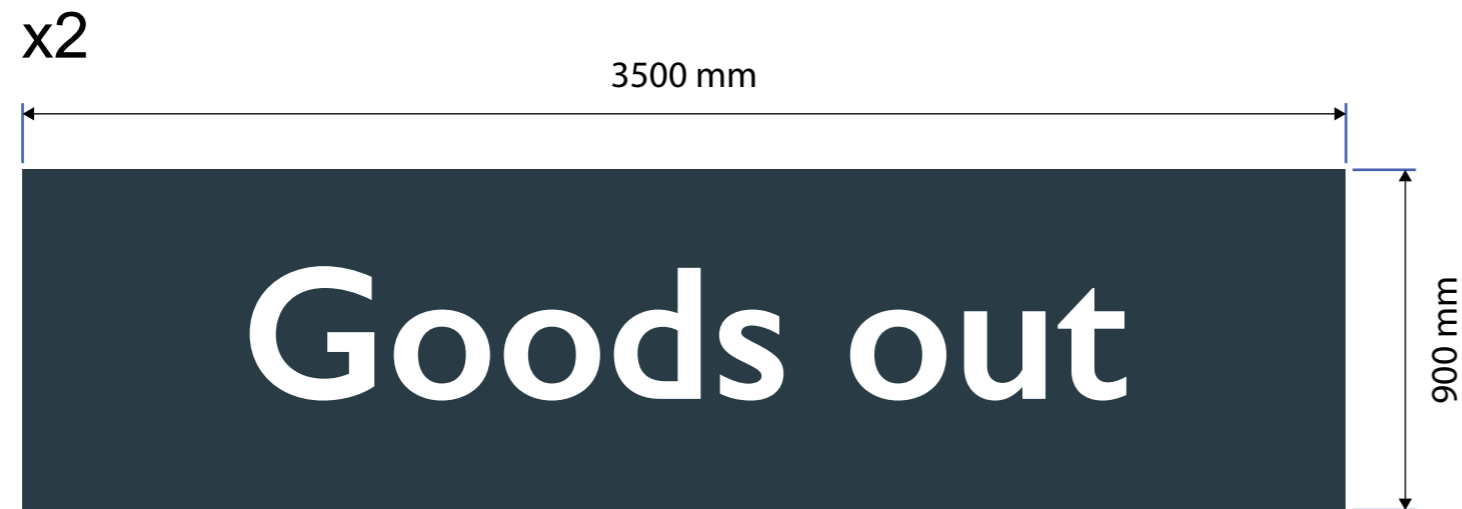
project manager
TW

scale
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SIGN D & E

FOLDED 2mm ALUMINIUM PANELS WITH 60mm RETURNS SPRAYED RAL 7016 SATIN WITH JOGGLE STRIPS FOR PANEL JOINS, OVERLAID WITH DIGITALLY PRINTED VINYL GRAPHICS. FITTED TO BUILDING ON 50mm ANGLE

NOTE PANELS TO BE SPLIT IN HALF VERTICALLY

** FINAL FIXING DETAIL TO BE CONFIRMED BY THE RANGE **

SIZE: 3500mm x 900mm x 60mm
WEIGHT: 20KG (APPROX)

comments

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client
WINVIC

project
THE RANGE
STOWMARKET

title
EXTERNAL
PRIORITY ITEMS

job number
04409

date	designer
04-04-24	OG

project manager
TW

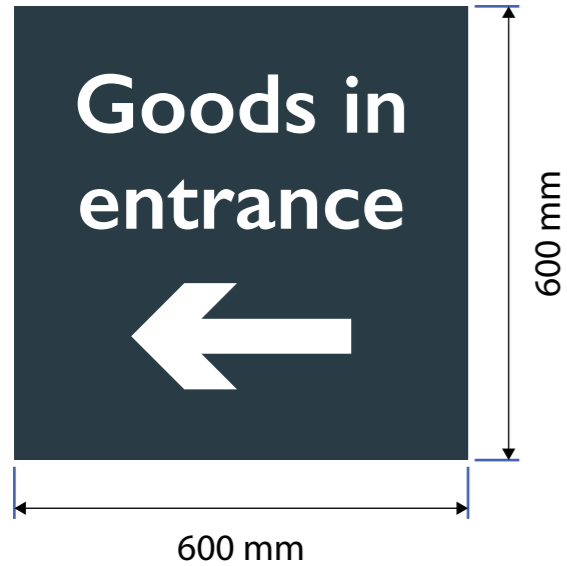
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AS SHOWN @ A3

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x4



2mm FOLDED ALUMINIUM PANEL WITH 30mm RETURNS SPRAYED RAL 7016 SATIN OVERLAID WITH DIGITALLY PRINTED VINYL GRAPHICS

25x25x3mm ALUMINIUM ANGLE FOR FITTING

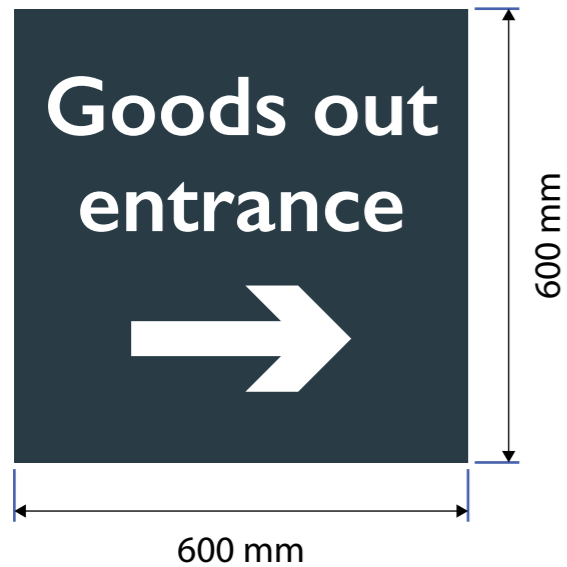


SIGN H

DIGITALLY PRINTED VINYL GRAPHIC

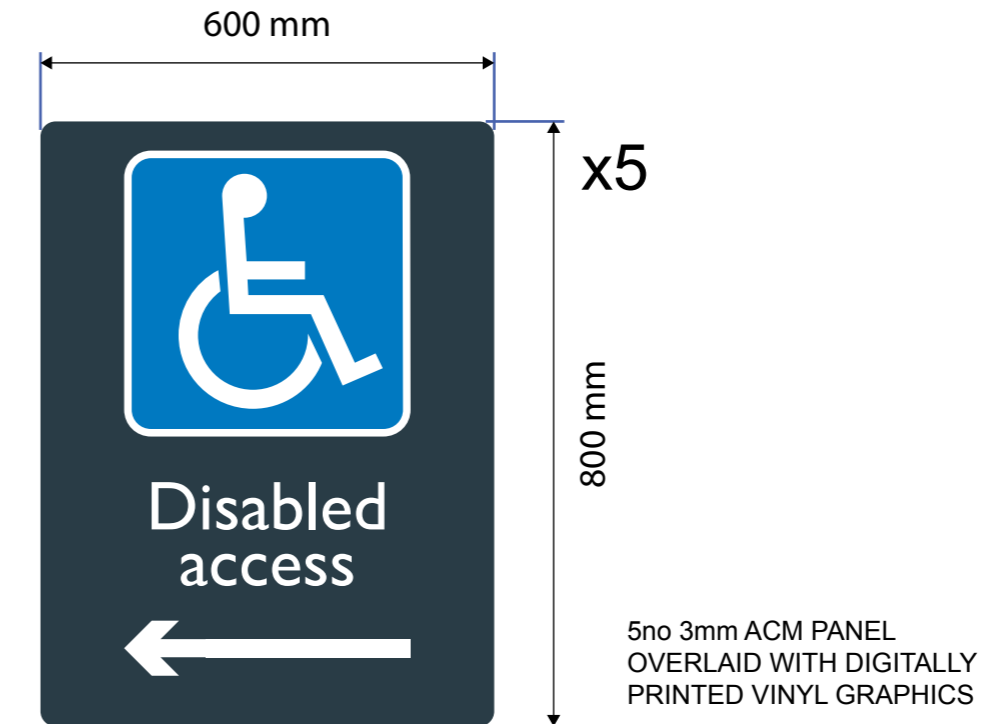
SIZE: 1130mm x 410mm

x4



2mm FOLDED ALUMINIUM PANEL WITH 30mm RETURNS SPRAYED RAL 7016 SATIN OVERLAID WITH DIGITALLY PRINTED VINYL GRAPHICS

25x25x3mm ALUMINIUM ANGLE FOR FITTING



SIGN I

3mm ACM PANEL OVERLAID WITH DIGITALLY PRINTED VINYL GRAPHICS

600mm x 800mm x 3mm

SIGN F & G

FOLDED 2mm ALUMINIUM PANELS WITH 30mm RETURNS SPRAYED RAL 7016 SATIN OVERLAID WITH DIGITALLY PRINTED VINYL GRAPHICS. FITTED TO BUILDING ON 25mm ANGLE

** FINAL FIXING DETAIL TO BE CONFIRMED BY THE RANGE **

SIZE: 600mm x 600mm x 30mm
WEIGHT: 5KG (APPROX)

comments

amendments

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client
WINVIC

project
THE RANGE
STOWMARKET

title
EXTERNAL
PRIORITY ITEMS

job number
04409

date
04-04-24

designer
OG

project manager
TW

scale
AS SHOWN @ A3

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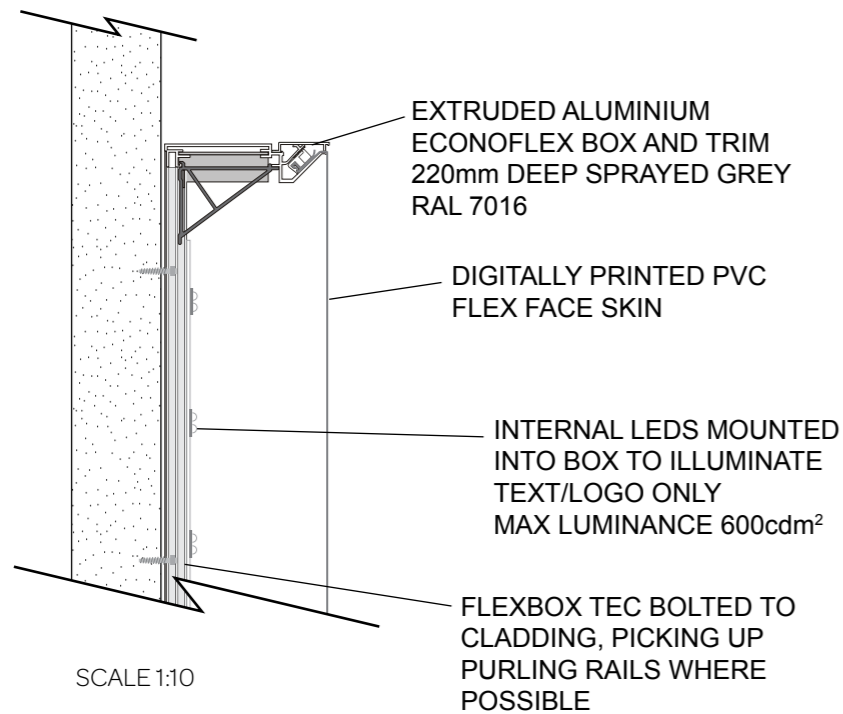
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WINVIC
THE RANGE STOWMARKET
EXTERNAL SIGNAGE SPECS
REV C



Scale 1:50



SIGNS A & B

FABRICATED EXTRUDED ALUMINIUM FLEX BOX AND TRIM SPRAYED GREY RAL 7016 SATIN WITH DIGITALLY PRINTED AND BLOCKED OUT PVC FLEX FACE. 6500K LED MODULES INTERNALLY INTO FLEX BOX TO ILLUMINATE TEXT AND LOGOS ONLY.

FLEX BOX TO BE TEC BOLTED TO CLADDING PANELS, PICKING UP PURLING RAILS WHERE POSSIBLE. ADDITIONAL SPRING TOGGLE FIXINGS TO BE USED IF DEEMED NECESSARY

**** FINAL FIXING DETAIL TO BE CONFIRMED BY THE RANGE ****

SIZE: 15645mm x 3300mm x 220mm
WEIGHT: 390KG (APPROX)

LOADING: 25 AMPS MAX
(8x 200W POWER SUPPLIES, CONTAINED WITHIN FLEXBOX OR IN SEPARATE HOUSING LOCATED INTERNALLY IN BUILDING BEHIND SIGN LOCATION)

POWER FEED TO BE BROUGHT TO SIGN LOCATION BY OTHERS.

comments

amendments

no.	revision	date
A	INITIAL	04-04-24
B	UPDATED SIZES	19-07-24
C	SIGN E SIZE CHANGE	07-08-24
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client
WINVIC

project
THE RANGE
STOWMARKET

title

SIGN SPECS

job number
04409

date 19-07-24 **designer** OG

project manager
TW

scale
AS SHOWN @ A3

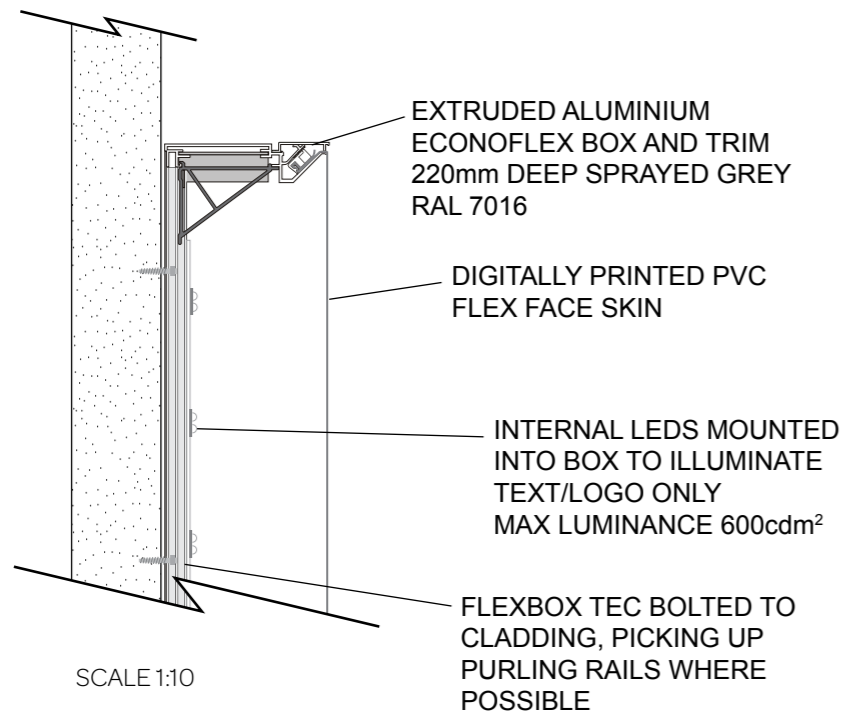
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DIMENSIONS ON SITE AND ALL EQUIPMENT SIZES TO BE VERIFIED PRIOR TO WORK COMMENCING.



Scale 1:50



SIGNS C & D

FABRICATED EXTRUDED ALUMINIUM FLEX BOX AND TRIM SPRAYED GREY RAL 7016 SATIN WITH DIGITALLY PRINTED AND BLOCKED OUT PVC FLEX FACE. 6500K LED MODULES INTERNALLY INTO FLEX BOX TO ILLUMINATE TEXT AND LOGOS ONLY.

FLEX BOX TO BE TEC BOLTED TO CLADDING PANELS, PICKING UP PURLING RAILS WHERE POSSIBLE. ADDITIONAL SPRING TOGGLE FIXINGS TO BE USED IF DEEMED NECESSARY

**** FINAL FIXING DETAIL TO BE CONFIRMED BY THE RANGE ****

SIZE: 12745mm x 3300mm x 220mm
WEIGHT: 325KG (APPROX)

LOADING: 25 AMPS MAX
(8x 200W POWER SUPPLIES, CONTAINED WITHIN FLEXBOX OR IN SEPARATE HOUSING LOCATED INTERNALLY IN BUILDING BEHIND SIGN LOCATION)

POWER FEED TO BE BROUGHT TO SIGN LOCATION BY OTHERS.

comments

amendments

no.	revision	date
A	INITIAL	04-04-24
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C	SIGN E SIZE CHANGE	07-08-24
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client
WINVIC

project
THE RANGE
STOWMARKET

title

SIGN SPECS

job number
04409

date	designer
19-07-24	OG

project manager
TW

scale
AS SHOWN @ A3

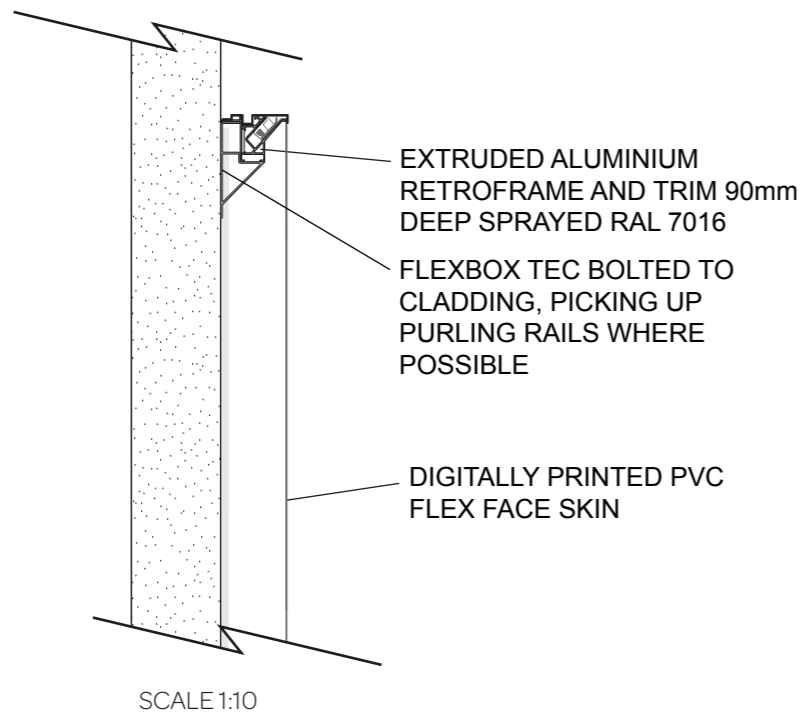
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Scale 1:50



SIGN E

FABRICATED EXTRUDED ALUMINIUM FLEX BOX AND TRIM SPRAYED GREY RAL 7016 SATIN WITH DIGITALLY PRINTED PVC FLEX FACE.

SIGN TO BE NON ILLUMINATED

FLEX BOX TO BE TEC BOLTED TO CLADDING PANELS, PICKING UP PURLING RAILS WHERE POSSIBLE. ADDITIONAL SPRING TOGGLE FIXINGS TO BE USED IF DEEMED NECESSARY

**** FINAL FIXING DETAIL TO BE CONFIRMED BY THE RANGE ****

SIZE: 7175mm x 3200mm x 90mm
 WEIGHT: 195KG (APPROX)

comments

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client
WINVIC

project
THE RANGE
STOWMARKET

title
SIGN SPECS

job number
04409

date 19-07-24	designer OG
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project manager
TW

scale
AS SHOWN @ A3

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Scale 1:50

SIGN F

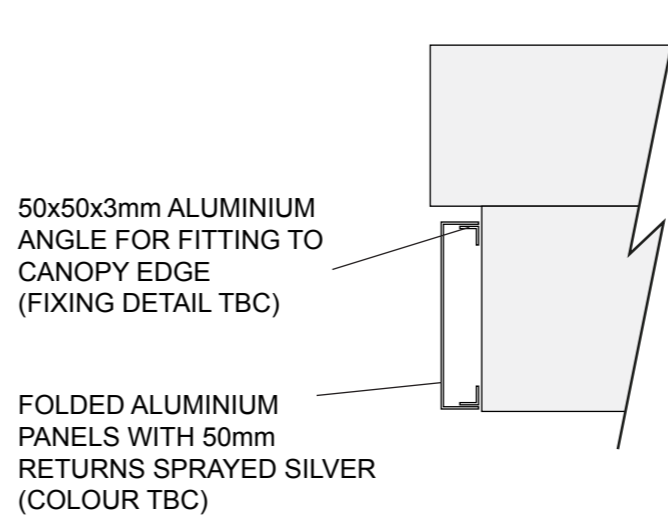
FOLDED 2mm ALUMINIUM PANELS WITH 50mm RETURNS SPRAYED SILVER (RAL TBC BY THE RANGE). STENCIL CUT WHITE VINYL "CHALLENGER 2" TEXT APPLIED TO FACE.

SIGN TO BE NON ILLUMINATED

SIGN FIXED TO EDGE OF CANOPY ON 50x50x3mm ALUMINIUM ANGLE.

**** CANOPY DETAILS REQUIRED TO CONFIRM FINAL FIXING DETAIL ****

SIZE: 6440mm x 250mm x 50mm
WEIGHT: 45KG (APPROX)



amendments		
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C	SIGN E SIZE CHANGE	07-08-24
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client
WINVIC

project
THE RANGE
STOWMARKET

title
SIGN SPECS

job number
04409

date 19-07-24	designer OG
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project manager
TW

scale
AS SHOWN @ A3

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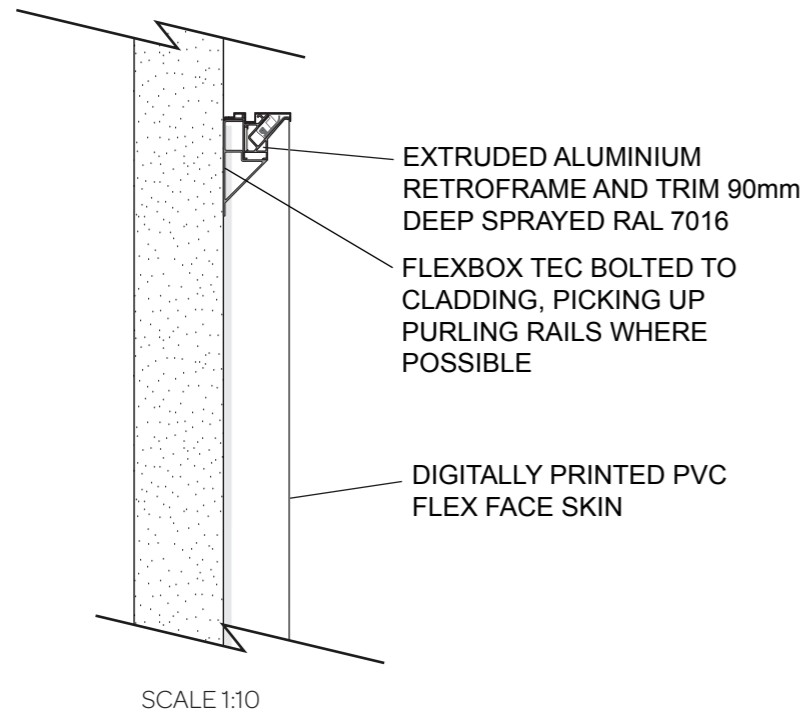
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Scale 1:50



SIGN G

FABRICATED EXTRUDED ALUMINIUM FLEX BOX AND TRIM SPRAYED GREY RAL 7016 SATIN WITH DIGITALLY PRINTED PVC FLEX FACE.

SIGN TO BE NON ILLUMINATED

FLEX BOX TO BE TEC BOLTED TO CLADDING PANELS, PICKING UP PURLING RAILS WHERE POSSIBLE. ADDITIONAL SPRING TOGGLE FIXINGS TO BE USED IF DEEMED NECESSARY

**** FINAL FIXING DETAIL TO BE CONFIRMED BY THE RANGE ****

SIZE: 12000mm x 1580mm x 90mm
WEIGHT: 150KG (APPROX)

comments

amendments

no.	revision	date
A	INITIAL	04-04-24
B	UPDATED SIZES	19-07-24
C	SIGN E SIZE CHANGE	07-08-24
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client
WINVIC

project
THE RANGE
STOWMARKET

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SIGN SPECS

job number
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date	designer
19-07-24	OG

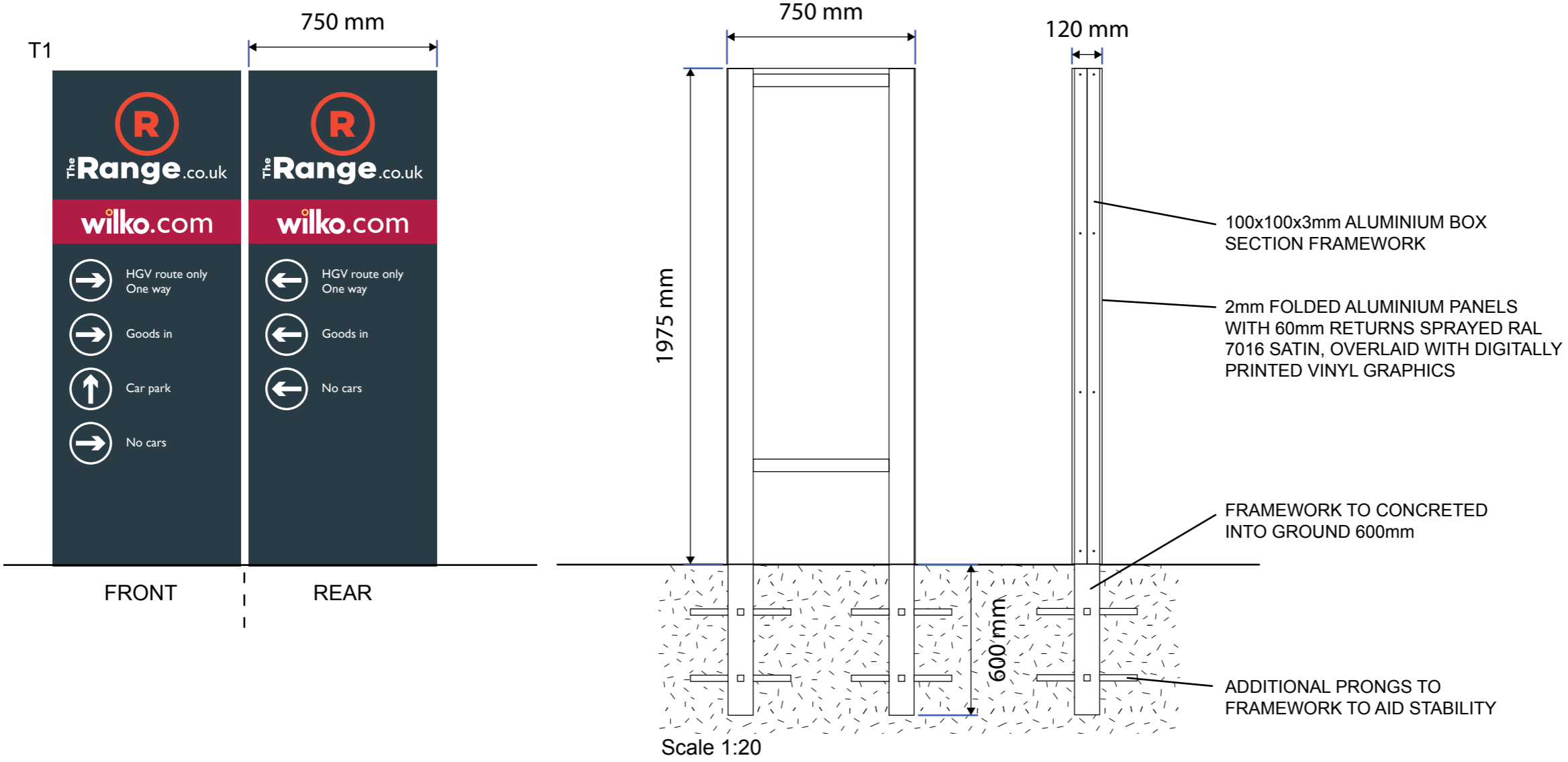
project manager
TW

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SIGN T1

100x100x3mm ALUMINIUM BOX SECTION FRAMEWORK CLAD ON BOTH SIDES WITH FOLDED 2mm ALUMINIUM PANELS WITH 60mm RETURNS. PANELS SPRAYED GREY RAL 7016 SATIN AND OVERLAID WITH DIGITALLY PRINTED VINYL GRAPHICS.

SIGN TO BE NON ILLUMINATED.

FRAMEWORK TO BE CONCRETED INTO GROUND 600mm.

** FINAL INSTALLATION DETAIL TO BE CONFIRMED BY THE RANGE **

SIZE: 750mm x 1975mm x 120mm
WEIGHT: 55KG (APPROX)

amendments

no.	revision	date
A	INITIAL	04-04-24
B	UPDATED SIZES	19-07-24
C	SIGN E SIZE CHANGE	07-08-24
D		
E		
F		
G		
H		
I		
J		



client
WINVIC

project
THE RANGE
STOWMARKET

title
SIGN SPECS

job number
04409

date
19-07-24

designer
OG

project manager
TW


scale
AS SHOWN @ A3

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amendments		date
A	INITIAL	04-04-24
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D		
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J		

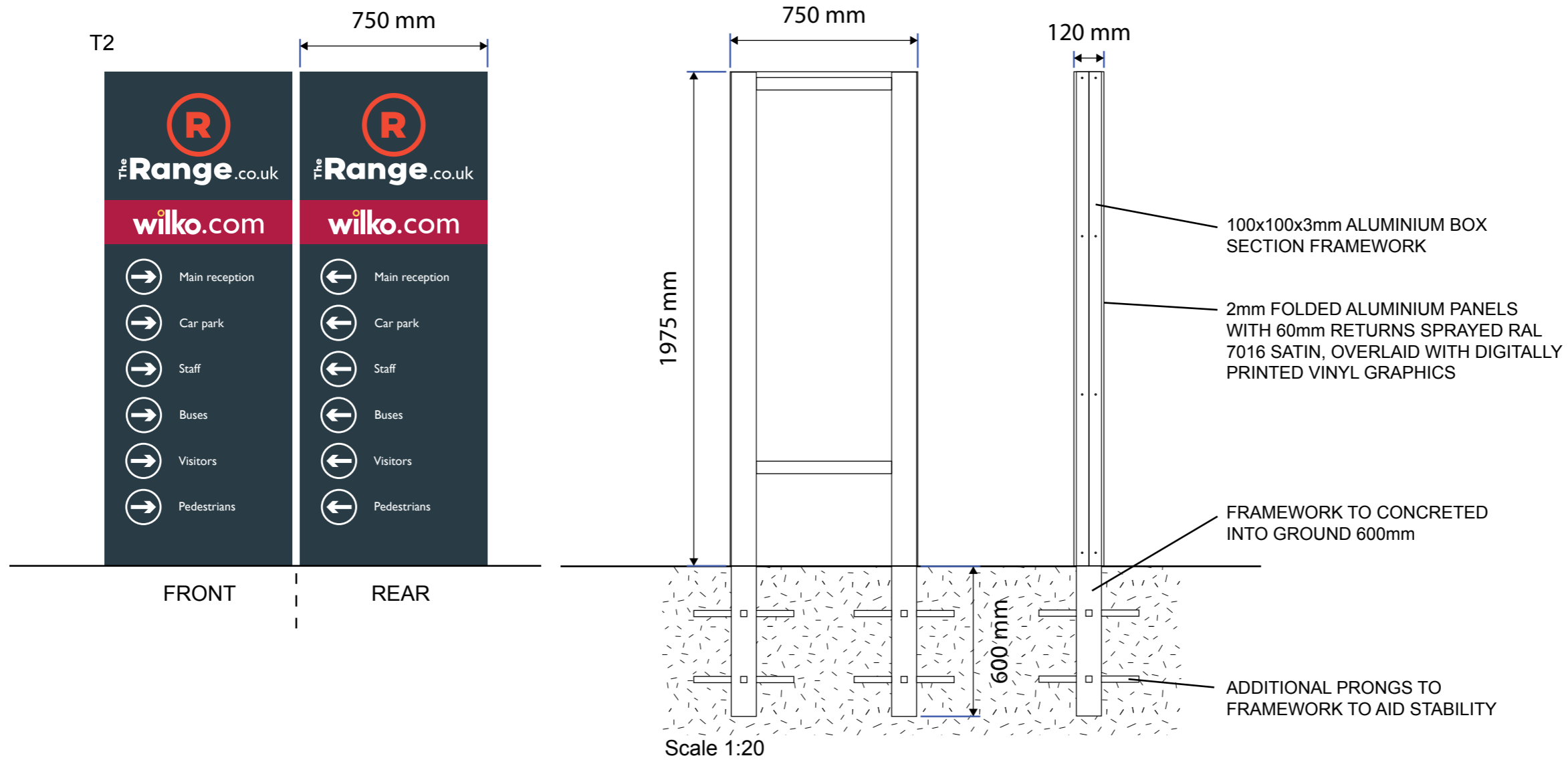
	
client	WINVIC
project	THE RANGE STOWMARKET
title	SIGN SPECS
job number	04409
date	19-07-24
designer	OG
project manager	TW
scale	AS SHOWN @ A3

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SIGN T2

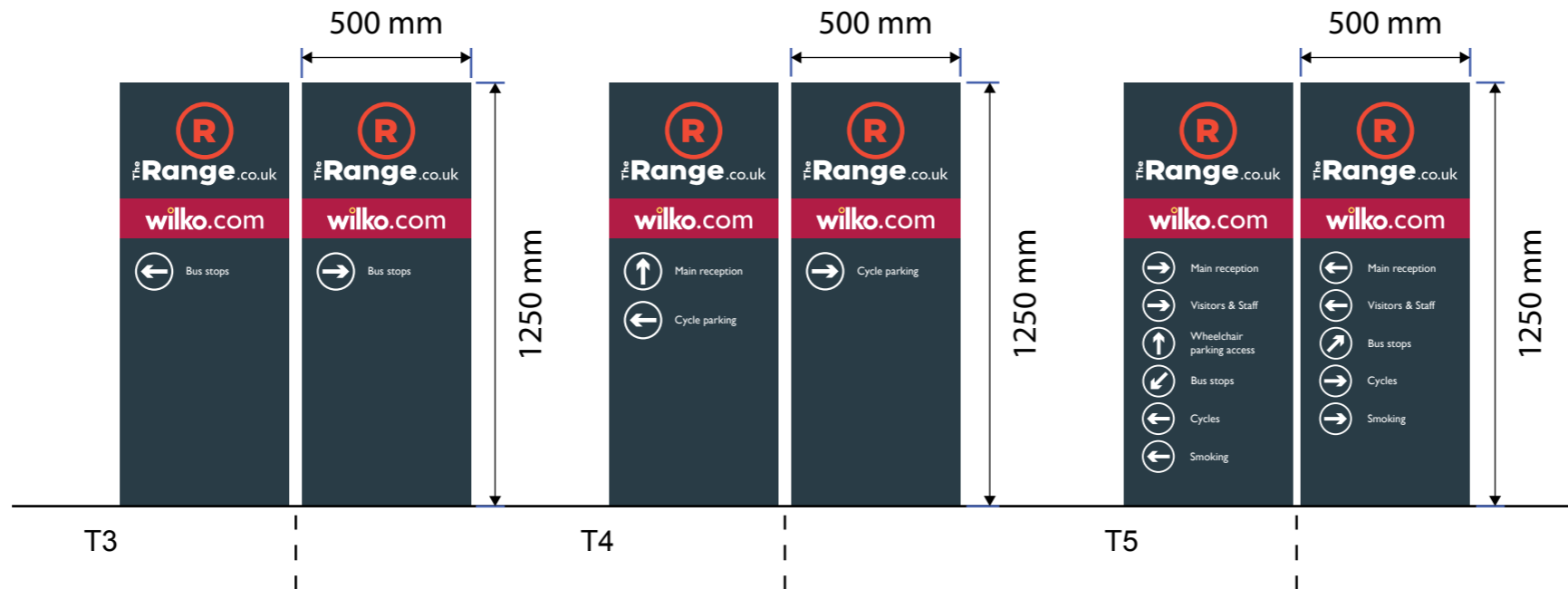
100x100x3mm ALUMINIUM BOX SECTION FRAMEWORK CLAD ON BOTH SIDES WITH FOLDED 2mm ALUMINIUM PANELS WITH 60mm RETURNS. PANELS SPRAYED GREY RAL 7016 SATIN AND OVERLAID WITH DIGITALLY PRINTED VINYL GRAPHICS.

SIGN TO BE NON ILLUMINATED.

FRAMEWORK TO BE CONCRETED INTO GROUND 600mm.

** FINAL INSTALLATION DETAIL TO BE CONFIRMED BY THE RANGE **

SIZE: 750mm x 1975mm x 120mm
WEIGHT: 55KG (APPROX)



SIGN T3, T4, T5

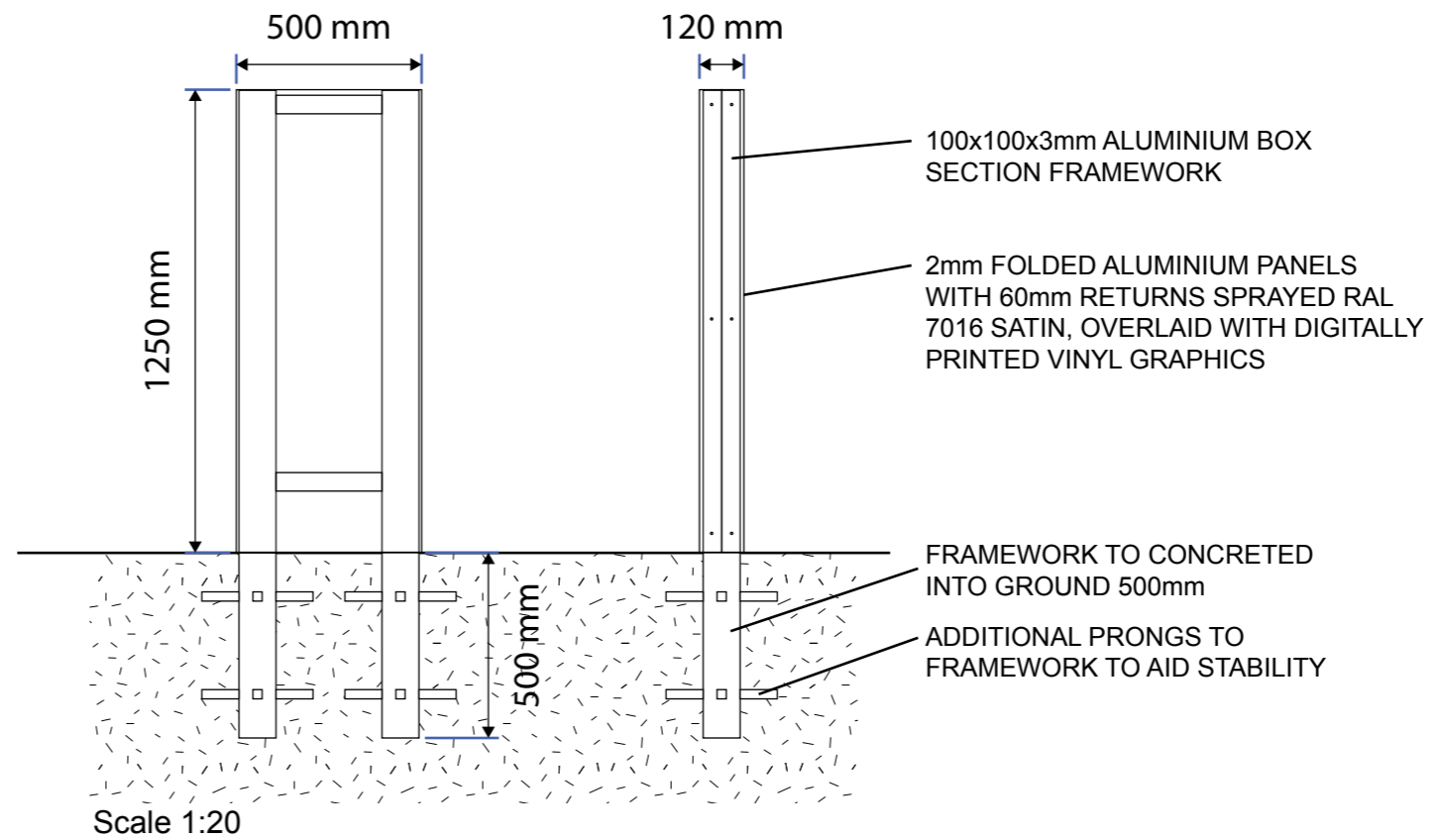
100x100x3mm ALUMINIUM BOX SECTION FRAMEWORK CLAD ON BOTH SIDES WITH FOLDED 2mm ALUMINIUM PANELS WITH 60mm RETURNS. PANELS SPRAYED GREY RAL 7016 SATIN AND OVERLAID WITH DIGITALLY PRINTED VINYL GRAPHICS.

SIGN TO BE NON ILLUMINATED.

FRAMEWORK TO BE CONCRETED INTO GROUND 500mm.

**** FINAL INSTALLATION DETAIL TO BE CONFIRMED BY THE RANGE ****

SIZE: 500mm x 1250mm x 120mm
WEIGHT: 40KG (APPROX)



amendments		
no.	revision	date
A	INITIAL	04-04-24
B	UPDATED SIZES	19-07-24
C	SIGN E SIZE CHANGE	07-08-24
D		
E		
F		
G		
H		
I		
J		



client
WINVIC

project
THE RANGE
STOWMARKET

title
SIGN SPECS

job number
04409

date 19-07-24 **designer** OG

project manager
TW

scale
AS SHOWN @ A3

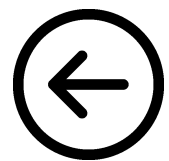
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DIMENSIONS ON SITE AND ALL EQUIPMENT SIZES TO BE VERIFIED PRIOR TO WORK COMMENCING.

Certificates/Warranties/Guarantees



winvic

winvic.co.uk

28th October 2024

Winvic – The Range fit out, Stowmarket P23 -027

This letter offers a one-year warranty for the external signs at the above site:

2 off, Extruded Aluminium Flex box with LED illuminated flex @ 15645 x 3300 x 200mm

2 off, Extruded Aluminium Flex box with LED illuminated flex @ 12745 x 3300 x 200mm

1 off, Extruded Aluminium Flex box non illuminated @ 7175 x 3200 x 400mm

This includes all parts (Frames, flex & LED's) and labour but excludes and access hire.

All internal signs, Directional totems, Lane & Loading Bay signage is also covered under the one-year warranty but excludes any access hire.

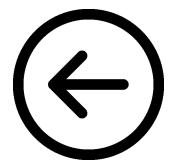
From the 28th October 2025, suppliers warranties and certificates are valid (as supplied) but will need to be applied for on a per project basis and do not include labour or access hire.

The above is subject to manufacturers conditions listed on the warranties and certificates provided.

Your sincerely

Tom Wright
Hudson Group

Cleaning and Maintenance Regimes





Cleaning and Maintenance Regimes

This maintenance schedule for **P23-027 The Range, Stowmarket** is to be followed from PC date **28/10/2024** year on year to ensure all plant and equipment is kept within warranty.

Please keep a log of these inspections so that records can be checked should an issue arise.

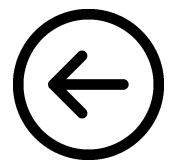
Code; ✓ Blue – Recommended ✓ Red – To Maintain Warranty

Item	Daily	Weekly	Monthly	3 Months	6 Months	9 Months	Annually	5 Yearly	Certificates	Regime
2x 15645mm FLEX BOXES (SIGN A & B)							✓			<p>Illuminations – Check sign is illuminating correctly. If not, access face of sign using cherry picker/scissor lift. Unclip flex face from sign to access psu and check each are connected correctly. Test any LED modules that are not working using 12v battery. Replace modules if required and re-wire into psu.</p> <p>Cleaning – Access face of sign using cherry picker/scissor lift. Clean PVC flex face of sign using non-abrasive surface cleaner and soft cloths. For cleaning of box carcass, a soft brush may be used along with non-abrasive surface cleaner.</p>
2x 12745mm FLEX BOXES (SIGN C & D)							✓			<p>Illuminations – Check sign is illuminating correctly. If not, access face of sign using cherry picker/scissor lift. Unclip flex face from sign to access psu and check each are connected correctly. Test any LED modules that are not working using 12v battery. Replace modules if required and re-wire into psu.</p> <p>Cleaning – Access face of sign using cherry picker/scissor lift. Clean PVC flex face of sign using non-abrasive surface cleaner and soft cloths. For cleaning of box carcass, a soft brush may be used along with non-abrasive surface cleaner.</p>
7175mm FLEX BOX (SIGN E)							✓			<p>Illuminations – non-illuminated</p> <p>Cleaning – Access face of sign using cherry picker. Ensure this is undertaken between shifts with security notified about lane closure. Clean PVC flex face of sign using non-abrasive surface cleaner and soft cloths. For cleaning of box carcass, a soft brush may be used along with non-abrasive surface cleaner.</p>

Item	Daily	Weekly	Monthly	3 Months	6 Months	9 Months	Annually	5 Yearly	Certificates	Regime
6440mm CHALLENGER 2 FASCIA SIGN (SIGN F)							✓			<p>Illuminations – non-illuminated</p> <p>Cleaning – Access face of sign using step ladder or scissor lift. Ensure this is undertaken between shifts to minimize disruption at entrance. Clean face of sign using non-abrasive surface cleaner and soft cloths. A soft brush may be used along with non-abrasive surface cleaner for top edge of sign.</p>
12000mm RECYCLING UNIT SIGN (SIGN G)							✓			<p>Illuminations – non-illuminated</p> <p>Cleaning – Access face of sign using cherry picker. Clean PVC flex face of sign using non-abrasive surface cleaner and soft cloths. For cleaning of box carcass, a soft brush may be used along with non-abrasive surface cleaner.</p>
TOTEM SIGNS – 2no 1975mm, 3no 1250mm (SIGNS T1 – T5)							✓			<p>Illuminations – non-illuminated</p> <p>Cleaning – Clean front, back and sides of sign using non-abrasive surface cleaner and soft cloths. If base of sign is overgrown, gardener to be sourced to trim back foliage/grass as and when needed.</p>
111no LOADING BAY PANELS 1000mm x 700mm							✓			<p>Illuminations – non-illuminated</p> <p>Cleaning – Access loading bay numbers using cherry picker. Clean using non-abrasive surface cleaner and soft cloths.</p>
LOW LEVEL DIRECTIONAL SIGNS							✓			<p>Illuminations – non-illuminated</p> <p>Cleaning – Clean using non-abrasive surface cleaner and soft cloths.</p>
GOODS IN/OUT SIGNS 3500mm x 900mm							✓			<p>Illuminations – non-illuminated</p> <p>Cleaning – Access signs using cherry picker. Clean faces of signs using non-abrasive surface cleaner and soft cloths.</p>

Item	Daily	Weekly	Monthly	3 Months	6 Months	9 Months	Annually	5 Yearly	Certificates	Regime
GATEHO USE SIGNS							✓			<p>Illuminations – non-illuminated</p> <p>Cleaning – Access signs using step ladders. Clean faces of signs using non-abrasive surface cleaner and soft cloths.</p>
INTERNA L LANE SIGNS 1100mm x 1100mm							✓			<p>Illuminations – non-illuminated</p> <p>Cleaning – Access signs using on site scissor lift. Clean faces of signs using non-abrasive surface cleaner and soft cloths.</p>

Data Sheets



winvic

winvic.co.uk

SPECIFICATIONS

Commercial	1050
EN	1050

Aluminium alloy 1050 is a popular grade of aluminium for general sheet metal work where moderate strength is required.

Alloy 1050 is known for its excellent corrosion resistance, high ductility and highly reflective finish.

Applications - Alloy 1050 is typically used for:

Chemical process plant equipment
Food industry containers
Pyrotechnic powder
Architectural flashings
Lamp reflectors
Cable sheathing

CHEMICAL COMPOSITION

BS EN 573-3:2009 Alloy 1050	
Element	% Present
Iron (Fe)	0.0 - 0.40
Silicon (Si)	0.0 - 0.25
Zinc (Zn)	0.0 - 0.07
Titanium (Ti)	0.0 - 0.05
Manganese (Mn)	0.0 - 0.05
Copper (Cu)	0.0 - 0.05
Magnesium (Mg)	0.0 - 0.05
Other (Each)	0.0 - 0.03
Aluminium (Al)	Balance

ALLOY DESIGNATIONS

Aluminium alloy 1050 also corresponds to the following standard designations and specifications **but may not be a direct equivalent:**

AA1050A
S1B
A91050

TEMPER TYPES

The most common tempers for 1050 aluminium are:

- O - Soft

SUPPLIED FORMS

Plain sheet
Plain sheet with a PVC coating on one side
Stucco sheet
Stucco sheet with a PVC coating on one side
Shate

- Sheet

GENERIC PHYSICAL PROPERTIES

Property	Value
Density	2.71 g/cm ³
Melting Point	650 °C
Thermal Expansion	24 x10 ⁻⁶ /K
Modulus of Elasticity	71 GPa
Thermal Conductivity	222 W/m.K
Electrical Resistivity	0.0282 x10 ⁻⁶ Ω .m

MECHANICAL PROPERTIES

BS EN 485-2:2008 Sheet 0.2mm to 6.00mm	
Property	Value
Proof Stress	20 Min MPa
Tensile Strength	65 -95 MPa
Hardness Brinell	20 HB

Properties above are for materials in the soft 'O' condition

WELDABILITY

When welding 1050 to itself or an alloy from the same subgroup the recommended filler wire is 1100. For welding to alloys 5083 and 5086 or alloys from the 7XXX series, the recommend wire is 5356. For other alloys use 4043 filler wire.

FABRICATION

Workability – Cold: Excellent
Machinability: Poor
Weldability – Gas: Excellent
Weldability – Arc: Excellent
Weldability – Resistance: Excellent
Brazability: Excellent
Solderability: Excellent

CONTACT

Address: Please make contact directly with your local service centre, which can be found via the Locations page of our web site
Web: www.aalco.co.uk

REVISION HISTORY

Datasheet Updated 13 January 2020

DISCLAIMER

This Data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon.

Please note that the 'Datasheet Update' date shown above is no guarantee of accuracy or whether the datasheet is up to date.

The information provided in this datasheet has been drawn from various recognised sources, including EN Standards, recognised industry references (printed & online) and manufacturers' data. No guarantee is given that the information is from the latest issue of those sources or about the accuracy of those sources.

Material supplied by the Company may vary significantly from this data, but will conform to all relevant and applicable standards.

As the products detailed may be used for a wide variety of purposes and as the Company has no control over their use; the Company specifically excludes all conditions or warranties expressed or implied by statute or otherwise as to dimensions, properties and/or fitness for any particular purpose, whether expressed or implied.

Advice given by the Company to any third party is given for that party's assistance only and without liability on the part of the Company. All transactions are subject to the Company's current Conditions of Sale. The extent of the Company's liabilities to any customer is clearly set out in those Conditions; a copy of which is available on request.

Aluminium Composite Panels (ACP) are a strong, rigid, lightweight, flat solution for many applications especially the Sign Industry as well as Display, POS Displays (Point of Sale), Shop-Fitting and Exhibition use.

Aalcopanel ACP is designed for use in interior applications where high load-bearing capacity is not required.

All Aalcopanel panels have a PE (Polyethylene) Thermoplastic core and two Skins of Aluminium Alloy 1100.

Overall thickness is 3.0mm.

The Aluminium Skins are finished with Polyester (PE) Paint.

Both painted Skins are PVC Coated with Hi-Tack 50 micron film.

Unit Weight is 3.8kg per square metre

FOR FULL TECHNICAL DATA AND LIST OF SIZES/COLOURS AVAILABLE PLEASE REFER TO FOLLOWING PAGES OR DOWNLOAD THE BROCHURE - A HARD COPY OF THE BROCHURE IS AVAILABLE FREE ON REQUEST FROM YOUR LOCAL SERVICE CENTRE

PAINT

Polyester (PE)
Film Thickness: 20 microns

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HOARDING BOARD

Aalcopanel Hoarding Board has only one side painted, in Matt White; with the reverse being mill finish aluminium. This product is often used for enclosing building sites.

It also has a PE Thermoplastic core and two Skins of Aluminium Alloy 1100.

The overall thickness is 3.0 mm

The Painted Skin (only) is PVC Coated with Hi-Tack 50 micron film.

SIZE RANGE

Size (mm)	Al Skin Thk (mm)	Colour (RAL)	Gloss - Front	Revrse	Wt/Sht (kg)
2440x1220x3	0.21	White - 9016	Matt	Mill Finish Al	10.0

CONTACT

Address: Please make contact directly with your local service centre, which can be found via the Locations page of our web site

Web: www.aalco.co.uk

REVISION HISTORY

Datasheet Updated 27 June 2017

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Produktdatenblatt

Product datasheet

seemee® Backlit Supreme - B7970

<p>Faserstoff des Trägergewebes</p> <p>support cloth tissu natura del supporto</p>	<p>DIN 60001</p>	<p>PES</p>
<p>Beschichtungsart</p> <p>type of coating nature de l'enduit natura della spalmatura</p>		<p>PVC</p>
<p>Flächengewicht</p> <p>total weight masse totale peso totale</p>	<p>DIN EN ISO 2286-2</p>	<p>450 g/m²</p>
<p>Breite</p> <p>width largeur larghezza</p>	<p>DIN EN ISO 2286-1</p>	<p>320 / 500 cm</p>
<p>Reißkraft K/S</p> <p>tensile strength warp/weft resistance a la traction en chaine/en trame resistenza alla trazione ordito/trama</p>	<p>DIN EN ISO 1421</p>	<p>3000 / 3000 N/5cm</p>
<p>Anwendungsbereich</p> <p>intended use</p>		<p>Backlit advertisements (both sides printable)</p>
<p>Brandverhalten</p> <p>flame retardant according to</p>	<p>DIN 4102</p>	<p>B1</p>

Haftungsausschluss: Änderungen, die dem technischen Fortschritt dienen, behalten wir uns vor. Werte ohne Toleranzangaben sind Nennwerte mit einer Toleranz von ± 5%. Die Angaben entsprechen unserem heutigen Kenntnisstand und sollen ohne Rechtsverbindlichkeit informieren.

Disclaimer: We reserve modifications of the mentioned values for technical reasons. Values without tolerance statements are values with a tolerance of ± 5%. The information corresponds with our latest knowledge and is offered without liability.



LUCOLED BL31



- *5 years warranty*
First 2 years extended warranty
- *Lucolense wide beam technology*
- *High efficacy*
- *Constant Current Technology*
- *Narrow white binning*

Lucoled Plus BL31 modules offer a high quality and efficient backlit solution for lightboxes with a depth of 100-300 mm.

Using the latest Top-Tier LED technology and high quality patented optics Lucoled Plus BL31 offers industry leading efficacy and coverage. This not only reduces the amount of modules needed for an application, but also the overall power consumption.

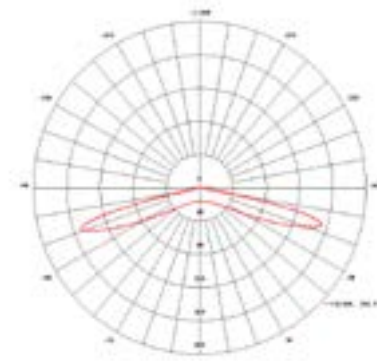
In a typical application of 125 mm deep only 9 modules per square meter are used at maximum wire spacing, making installation very fast and less labour intensive. Using only 32,4 W per square meter also the number of power supplies needed is strongly reduced.

SPECIFICATIONS

- Dimensions 169x32x10mm
- Warranty 5 years (first 2 years extended)
- Beam angle: 170°
- Can be cut between every unit
- UL, CE and RoHS compliant
- Narrow white binning
- Constant Current Technology
- Operating temperature -25~+60C

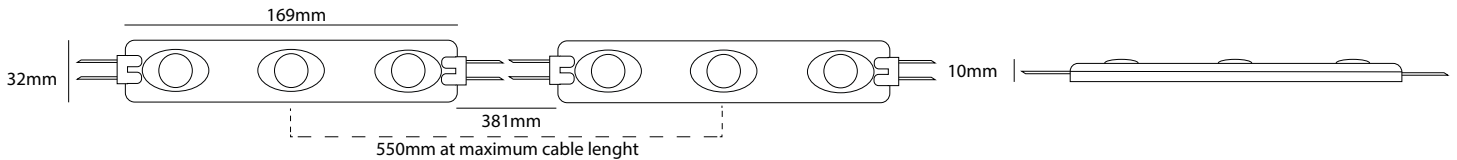


LUMINOUS INTENSITY DISTRIBUTION

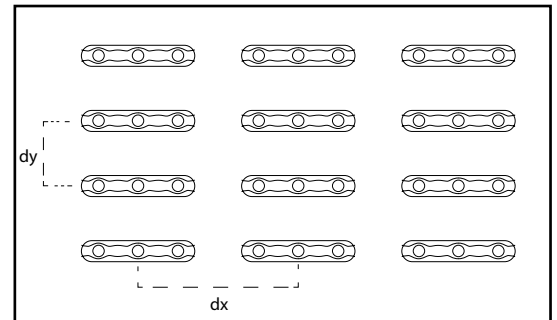


Item no	LED colour	CT (K)	CRI	Power (W/mod)	Flux (lm/mod)	Efficacy (lm/W)	Voltage (DC)	Modules per chain	Modules per carton
BL31-W30	white	3000	>70	3.6	350	97	12	16	320
BL31-W65	white	6500	>70	3.6	350	97	12	16	320

DIMENSIONS



Light box depth (mm)	Space between modules (mm)	Installing density (pcs/m ²)	Surface luminance range (cd/m ²)
dz=100	dx=300, dy=250	13	900-1100
dz=150	dx=300, dy=500	7	400-450
dz=200	dx=300, dy=700	5	250-300
dz=250	dx=350, dy=900	3	160-180
dz=300	dx=350, dy=1100	3	160-180



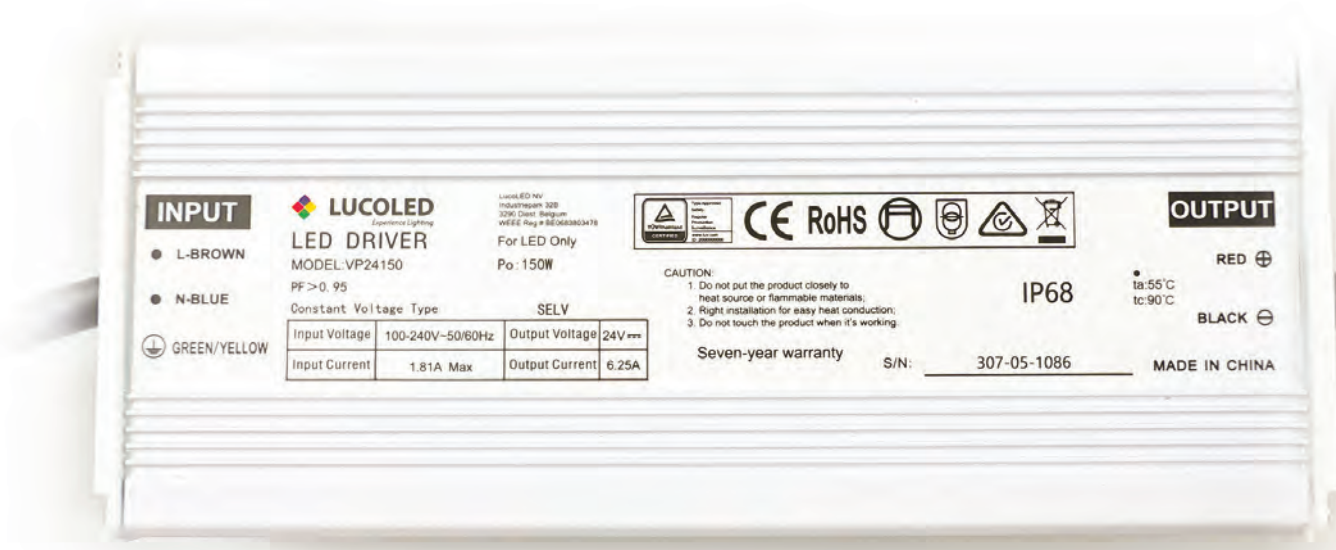
Results may vary depending on face material properties. The data above was obtained using 3mm thick opaque acrylic with a 54% light transmittance. Lucoled advises to paint the inside of the box/letters in a matt white colour for achieving an optimal result. Always test before production.

POWER SUPPLY CAPACITY 12V SERIES

Item	xx1230	xx1260	xx12100	xx12150	VP12240	VP12400
Power Output	30W	60W	100W	150W	240W	400W
BL31 modules / power supply	7	14	24	36	60	100
Maximum 16 modules per chain						

PACKAGING

Item	Qty (pcs/bag)	Qty (bag / carton)	Total Qty (pcs / carton)	Total weight (kg)	Carton size (LxWxH) in mm
BL31	32	10	320	20.1	528 x 376 x 272



VP 150W

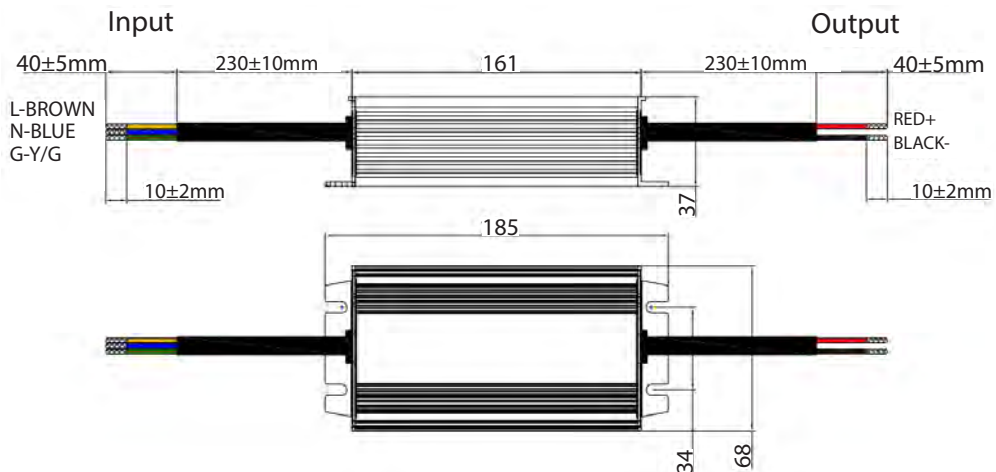


Features

- Wide input voltage with ground wire: 100~240Vac
- IP68 indoor/outdoor use; dry, damp, or wet locations
- OVP, OCP, SCP function
- Built-in active PFC function
- Working temperature: -40°C~+55°C
- Tested and approved at 100% power load
- 7 years warranty

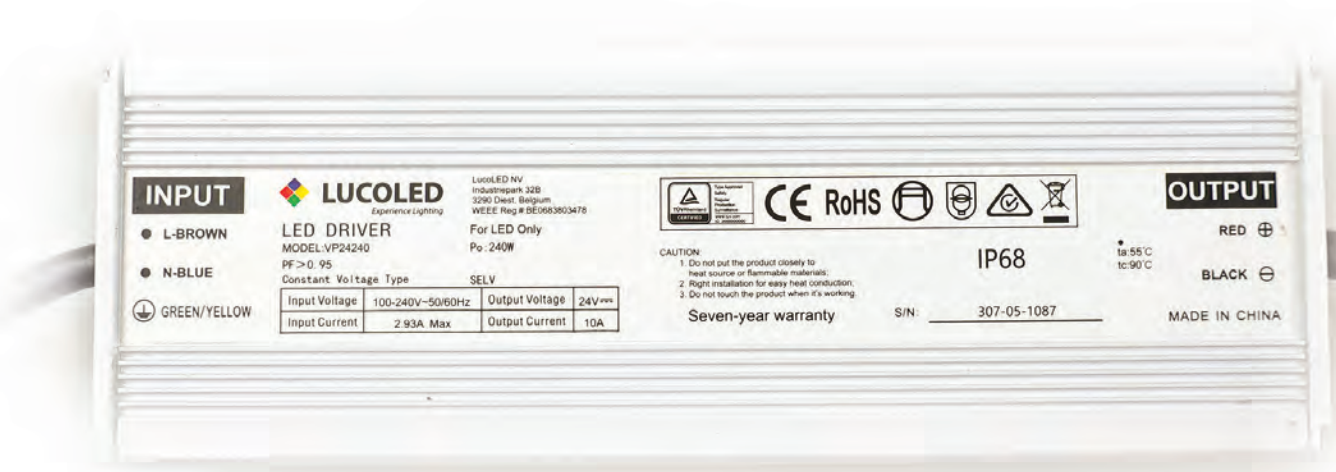


DIMENSIONS



SPECIFICATION

Model		VP12150	VP24150
Output	DC Voltage	12V	24V
	Rated Current	12.5A	6.25A
	Current Range	0~12.5A	0~6.25A
	Rated Power	150W	150W
	Ripple & Noise (max.)	150mVp-p	150mVp-p
	Voltage Accuracy	±3%	
	Line Regulation	±1%	
	Load Regulation	±2%	
	Start-Up Time	1200ms,40ms/230VAC 1200ms,40ms/115VAC (Full Load)	
	Hold-Up Time (Typ.)	20ms/230VAC, 12ms/115VAC (Full Load)	
Input	Voltage Range	AC100~240V	
	Frequency Range	50~60Hz	
	Power Factor	PF≥0.95	
	Efficiency (Typ.)	90%	93%
	Alternating Current	≤1.81A	
	Surge Current (Typ.)	Cold Start 45A/264VAC	
	Max. Cascading power supply on 16A circuit breaker	3pcs (Type B Circuit Breaker)/ 6pcs (Type C Circuit Breaker) at 230VAC	
	Leakage Current	≤0.75mA/240VAC	
	No-Load Consumption	≤0.9W	
	Over Current	Hiccup mode, automatically recover after troubleshooting.	
	Over Voltage	Shut off and restart.	
Environment	Working Temperature	-40~+55°C(Please refer to the “Derating Curve”)	
	Working Humidity	10~95%RH, No Condensation.	
	Storage Temp/Humidity	-40~+80°C, 10~95%RH	
	Temperature Coefficient	10~500Hz, 1.0mm, 15 minutes (for X, Y, Z each axis)	
Safety & EMC	Standards	IEC/EN 61347-1; IEC/EN 61347-2-13; GB19510.1, GB19510.14;IP68	
	Withstand Voltage	I/P-O/P:3.75KVAC	
	Insulation Resistance	I/P-O/P:>100M Ohms/500VDC/25°C/70%RH	
	Electromagnetic Emission	IEC/EN55015,IEC/EN61000-3-2 Class C(@load≥60%); IEC/EN61000-3-3; GB17743, GB17625.1	
	Electromagnetic Interference	IEC/EN61000-4-2,3,4,5,6,8,11; IEC/EN61547, surge protection with 6KV/4KV	
Others	MTBF	40Khrs. MIL-HDBK-217F(25°C)	
	Size	185*68*37mm(L*W*H)	
	Package	0.79kg; 24pcs/20.4kg /319*313*235mm	
Note	<ol style="list-style-type: none"> 1. Ensure the ground wire is properly grounded and ensure it does not contact with the neutral wire. 2. Ensure the power supply position has sufficient airflow. 3. Working temperature must be between -40°C to +55°C. 4. Do not overload the power supply with multiple appliances. 5. Power supply operates at high temperatures. To avoid injury, do not touch while in use. 6. Do not install with power connected or during an electrical disturbance. 7. Do not attempt to install by yourself. Please contact the supplier with any questions. 8. Please read the instructions carefully before installation. Ensure all contact points are in good working order. 9. Please pay attention to the environment and check for any unsafe conditions. 		



VP 240W

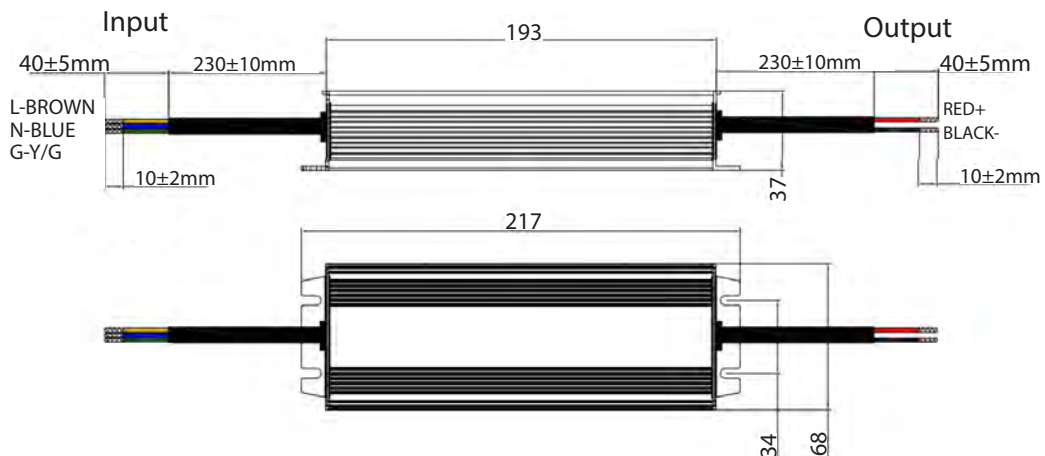


Features

- Wide input voltage with ground wire: 100~240Vac
- IP68 indoor/outdoor use; dry, damp, or wet locations
- OVP, OCP, SCP function
- Built-in active PFC function
- Working temperature: -40°C~+55°C
- Tested and approved at 100% power load
- 7 years warranty



DIMENSIONS



SPECIFICATION

Model		VP12240	VP24240
Output	DC Voltage	12V	24V
	Rated Current	20A	10A
	Current Range	0~20A	0~10A
	Rated Power	240W	240W
	Ripple & Noise (max.)	180mVp-p	150mVp-p
	Voltage Accuracy	±3%	
	Line Regulation	±1%	
	Load Regulation	±2%	
	Start-Up Time	1200ms,40ms/230VAC 1200ms,40ms/115VAC (Full Load)	
	Hold-Up Time (Typ.)	20ms/230VAC, 12ms/115VAC (Full Load)	
Input	Voltage Range	AC100~240V	
	Frequency Range	50~60Hz	
	Power Factor	PF≥0.95	
	Efficiency (Typ.)	90%	92%
	Alternating Current	≤2.93A	
	Surge Current (Typ.)	Cold Start 49A/264VAC	
	Max. Cascading power supply on 16A circuit breaker	4pcs (Type B Circuit Breaker)/ 6pcs (Type C Circuit Breaker) at 230VAC	
	Leakage Current	≤0.75mA/240VAC	
	No-Load Consumption	≤2W	
	Over Current	Hiccup mode, automatically recover after troubleshooting.	
	Over Voltage	Shut off and restart.	
Environment	Working Temperature	-40~+55°C(Please refer to the “Derating Curve”)	
	Working Humidity	10~95%RH, No Condensation.	
	Storage Temp/Humidity	-40~+80°C, 10~95%RH	
	Temperature Coefficient	10~500Hz, 1.0mm, 15 minutes (for X, Y, Z each axis)	
Safety & EMC	Standards	IEC/EN 61347-1; IEC/EN 61347-2-13; GB19510.1, GB19510.14;IP68	
	Withstand Voltage	I/P-O/P:3.75KVAC	
	Insulation Resistance	I/P-O/P:>100M Ohms/500VDC/25°C/70%RH	
	Electromagnetic Emission	IEC/EN55015,IEC/EN61000-3-2 Class C(@load≥60%); IEC/EN61000-3-3; GB17743, GB17625.1	
	Electromagnetic Interference	IEC/EN61000-4-2,3,4,5,6,8,11; IEC/EN61547, surge protection with 6KV/4KV	
Others	MTBF	40Khrs. MIL-HDBK-217F(25°C)	
	Size	217*68*37mm(L*W*H)	
	Package	0.98kg; 19pcs/20.1kg /319*313*235mm	
Note	<ol style="list-style-type: none"> 1. Ensure the ground wire is properly grounded and ensure it does not contact with the neutral wire. 2. Ensure the power supply position has sufficient airflow. 3. Working temperature must be between -40°C to +55°C. 4. Do not overload the power supply with multiple appliances. 5. Power supply operates at high temperatures. To avoid injury, do not touch while in use. 6. Do not install with power connected or during an electrical disturbance. 7. Do not attempt to install by yourself. Please contact the supplier with any questions. 8. Please read the instructions carefully before installation. Ensure all contact points are in good working order. 9. Please pay attention to the environment and check for any unsafe conditions. 		

Metamark MD-i-AB

Performance Digital Vinyl with Grey MetaScape® Adhesive



Product Description

Metamark MD-i-AB is a 70 micron polymeric calendered vinyl, with a grey pigmented adhesive to offer improved opacity, and prevent show-through on surfaces with a strong base colour, or for covering previous graphics.. The MetaScape® adhesive system, offering ease of application by providing air with an exit route from under the graphic, makes for faster, trouble-free application. MD-i-AB offers 5 years outdoor durability, and is ideal for medium term applications onto flat or simple curves including vehicle graphics. Suitable for printing with Solvent, Eco Solvent, Latex and UV inks. UK Manufactured.

Features & Benefits

- 5 year durability and MetaSure Warranty.
- Solvent adhesive and PE Liner.
- Highly versatile print media.
- Matched MetaGuard MG-i Overlaminates.
- MetaStream Ready™.
- Grey blockout metaScape adhesive System allowing ease of application.
- MD Series for best in class print quality & wide colour gamut.
- For Solvent, Eco Solvent, Latex and UV printing.

Face Film

Face Film	Polymeric Calendered Vinyl
Gauge (ISO 2286-3)	70 micron nominal
Tensile Strength	49N/25mm MD / 47N/25mm TD nom.
Elongation at break	180% MD nominal

Adhesive

Type	MetaScape® permanent grey sol based acrylic with air channels.
vent-	
Adhesion to glass 20 mins	10N/25mm nominal
Adhesion to glass 24 hour	20N/25mm nominal
Application temperature	+10°C to +60°C
Service temperature	-30°C to +110°C

Release Liner

Print	'MetaScape' purple print
Weight	140 gsm nominal
Type	Layflat kraft with PE coating

Finishes

Finishes Available	MD-i-AB	White Gloss
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Roll Presentation

Roll Widths	0.76m / 1.37m / 1.60m
Roll Lengths	50m

Durability

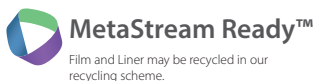
Shelf Life	2 years. (10-20°C and 50% R.H).
External weathering	5 years (Unprinted). Northern European conditions, vertical. Refer to full Metamark International durability guide.
Fire Rating	Class B - BS EN 13501-1:2018
Chemical Resistance	Unprinted film resistant to mild acids, aliphatic solvents, salt and alkali, diesel, gasoline, paraffin, hydraulic oil, antifreeze.
Regulations	REACH and RoHS Compliant.

Printing and Handling

- Always perform a test print first. Ensure that the correct profiles and heater settings are used. Refer to www.metamark.co.uk.
- Ensure that the material has reached room temperature and a relative humidity of 50% before printing.
- Do not handle the face film, ensure free from dust and static.
- Overlamination is recommended to prevent abrasion, extends colour fastness, and also offers easier handling.
- The matched laminate for MDiAB is MetaGuard MG-i Series.

Application

- Allow a minimum of 24-48 hours for the solvents to dry off before application of the overlaminate, or to the substrate, depending on the print and drying conditions this can often be in excess of 48 hours. Retained solvents will reduce adhesion levels.
- Not recommended for use on low energy surfaces such as polypropylene.
- Suitable for wet or dry application.
- The user should determine suitability of substrate.



MetaSure® Warranty

Metamark (UK) Limited warrants to its customers that graphics produced using Metamark Media and Overlaminates will remain in good condition without excessive fading or colour degradation for the specified life time of the ink used, when correctly stored, printed and applied in accordance with procedures outlined in the technical literature. If within the specified years of normal use Metamark Media and Overlaminates becomes ineffective for its intended use, then Metamark will provide sufficient material to produce a new replacement marking, and will at its own discretion, contribute an allowance in additional material towards the costs involved in replacing the graphics. In all cases, the converter is held fully responsible for storing, processing and applying the unconverted materials in accordance with Metamark's technical specifications. Metamark (UK) Limited will not be liable for any indirect or consequential loss or damage, and will not provide any allowance against improper usage, application accident, negligence, chemical damage or improper repair. The above data is given in good faith to provide an indication of the performance of the product. Purchasers should consider the suitability of each product for its intended use and the purchaser assumes all risks in connection with such use. Seller shall not be liable for damages in excess of the purchase price of the product nor for incidental nor consequential loss.

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