

Company:	Signpac					
Address:	20/45 Leighton Place Hornsby NSW 2077					
Tel:	02 9987 4900	02 9987 4911				
Contact:	Larry Wainstein Mobile: 0411 499009					
Email:	Larry.wainstein@signpac.com.au	Website:	www.signpac.com.au			

	Contact.	Larry Wallistelli					WIUDIIE .	04114	55005		
	Email:	Email: Larry.wainstein@s			signpac.com.au Website: ww			www.si	gnpac.c	om.au	
	Techni	cal specification	and Quote	:P8 SM	D Out	door	full color				
LED		·									
	COLOR	WAVE LEN	IGTH	В	RIGHT	NESS	(mcd)		View	ing Angle H.,	/v ^r .
	Red	625-63	n			790			120°/120°		
	Green	520-52				300				120°/120°	
	Blue	465-47	0		4	430				120°/120°	
MODULE											
	Pixel Pitch						8				
	Pixel						0				
	Configuration				3-	in-1 9	MD3535				
	comiguration				Γ						
	Demension	Width			Heig	ght				Total	_
		320	mm	1	32	20	mn	n	:	102,400	mm²
	Resolution	40	Pixe	r	40	`	Pixe	, l		1,600	Discol
CABINET		40	Fixe	1		,	FIXE	:1		1,000	Pixel
CADINLI		\A/; d+b			Hair	-h+				Total	
	Demension	Width			Heig					Total	
	B. L.:	1600	mm		96		mn			,536,000	mm²
	Resolution	200					24,000	pixel			
	Thickness	150mm									
	Weight	69KG									
The same	Material					Alum	ninium				
COPERA											
SCREEN	Item						Descr	intion			
	Model						P	-			
	Cabinet Compo	stion	1	pcs	(W)	Χ	1	pcs	(H)=	1	pcs
Screen	Size		1.600	m	(W)	Χ	0.960	m	(H)=	1.54	m ²
	Resolution		200	pixels	(W)	Χ	120	pixels	(H)=	24,000	pixel
	Maximum powe	er consumption	760W/M ²								
	Average power	consumption	255W/M ²								
	Brightness		Min 0-Ma	x 5500	CD/M	2					
	Colors		281 Trillion								
	Best Viewing Dis	stance	>5 - 10 me								
Public School Manage Special	Gray Scale		65535								
	Input Power		110~240V	′ 50 or	60Hz						
rombodory potentiferential 457(II)	Driving Mode		1/5 consta								
A MINISTER LAND	Refresh Rate		≥ 2000Hz								
	Control Mode		Asynchron		contr	ol					
	Lifetime		100,000 H								
		ratura			ius						
	Running Tempe	rature	–20°C ∼ +60°C								

10% ~90%

Front:IP65,

DVI,S-VIDEO, RGB, VGA and ETC.

Text, Animation, Picture, Video and etc

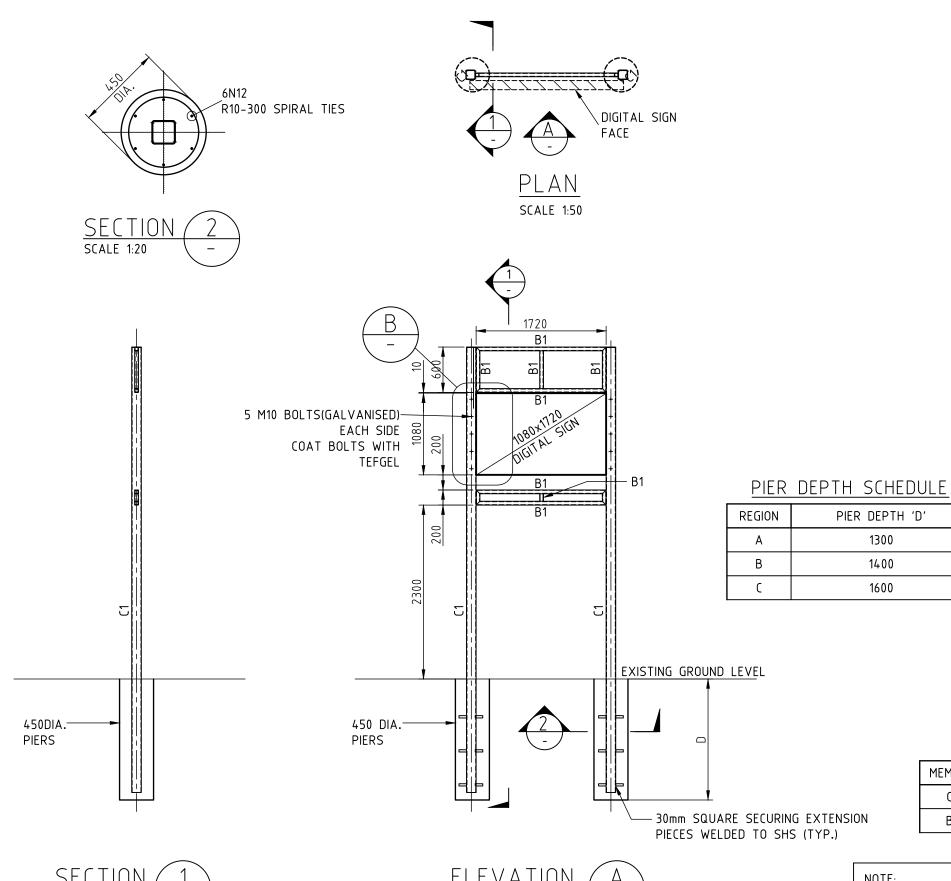
Rear:IP54

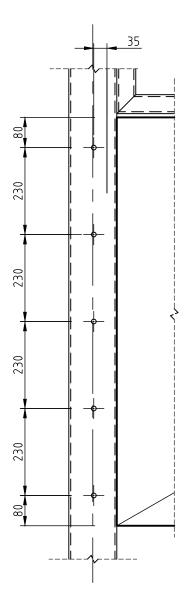
Document Set ID: 9157680 Version: 1, Version Date: 29/05/2020 Humidity

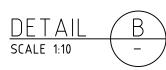
Singnal Available

Ingress Protection

Running Files







MEMBER SCHEDULE

MEMBER	SIZE	SIZE COMMENTS		
C1	127x127x6 SHS	ALU 6060 T5 (FULLY WELDED FRAME)		
B1	50x50x3.0 RHS	ALU 6060 T5 (FULLY WELDED FRAME)		



ALL ALUMINIUM & STEEL TO BE SEPARATED WITH NEOPRENE WASHERS/PADS + 'TEFGEL'.

FOR CONSTRUCTION

ISS DATE COMMENT 1 23/11/16 FOR CONSTRUCTION	Dennis Bunt Consulting Engineers Pty Ltd	Frenchs Forest, NSW 2086 P.O. Box 652, Forestville, NSW 2087 Ph: 02 9451 3455 Fax: 02 9451 3466 Email: info@dbce.com.au	CLIENT: SIGNPAC	TITLE: SINGLE SIDED DIGITAL SIGN	DRAWN RAS	DESIGN JL	DATE: Nov'16
2 08/09/17 RE-ISSUED FOR CONSTRUCTION 3 8/12/18 ISSUED FOR CONSTRUCTION			PROJECT:	1720x1080	JOB NO:	16335	DWG NO: S03
Document Set ID: 9157680			SIGNPAC DIGITAL SIGN		SCALE @ A	A3: AS SHOWN	REV: 3

Version: 1, Version Date: 29/05/2020

GENERAL

- G1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED.
- G2. ANY QUERIES OR DISCREPANCIES SHALL BE REFERRED TO THE ENGINEER OR PROJECT MANAGER FOR A DECISION PRIOR TO PROCEEDING WITH THE WORK.
- G3. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE APPROPRIATE AUSTRALIAN STANDARD AND THE BCA AS AMENDED.
- G4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- G5. ALL DIMENSIONS SHALL BE VERIFIED BY THE BUILDER ON SITE PRIOR TO ANY FABRICATION OR CONSTRUCTION.
- G6. DIMENSIONS AND SITE SETOUT SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS.
- G7. TEMPORARY BRACING OR PROPPING TO ENSURE THE STRUCTURE IS KEPT IN A STABLE STATE IS THE RESPONSIBILITY OF THE BUILDER.
- G8. THE STRUCTURAL ELEMENTS SHOWN ON THESE DRAWINGS HAVE BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS:

STRUCTURAL ELEMENT	LIVE LOAD kPa
N/A	N/A

G9. WIND LOADS TO AS1170.2

REGION	A	В	С
WIND TERRAIN CATEGORY	3	3	3
REGION WIND SPEED ULS V500	45m/s	57m/s	69.3m/s
REGION WIND SPEED SLS V20	30m/s	26m/s	23m/s

FOUNDATIONS

- F1. THE FOUNDATIONS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 150 KPa.
- F2. APPROVAL OF THE FOUNDING MATERIAL SHALL BE OBTAINED FROM THE ENGINEER OR GEOTECHNICAL ENGINEER PRIOR TO PLACING THE CONCRETE.
- F3. EXCAVATION NEAR FOOTINGS SHALL NOT EXTEND BELOW THE BASE OF THE FOOTINGS WITHOUT THE APPROVAL OF THE ENGINEER.
- F4. THE BUILDER IS RESPONSIBLE FOR MAINTAINING ANY EXCAVATION IN A STABLE CONDITION WITHOUT AFFECTING SURROUNDING PROPERTY FOR SERVICES. BUILDER TO ALLOW FOR ALL SHORING REQUIRED FOR EXCAVATION OF PILE CAPS.
- F5. BUILDER TO ALLOW FOR REMOVAL OF ALL SPOIL FROM SITE FROM EXCAVATIONS, PILING AND PIERING.
- F6. ALL TOP-SOIL & LOOSE MATERIAL TO BE REMOVED FROM THE SLAB AREA. COMPACTED FILL IN ACCORDANCE WITH AS2870 SECTION 6.4 IF REQUIRED.

CONCRETE

- C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF AS3600.
- C2. 'READYMIX' CONCRETE SHALL COMPLY WITH AS1379 AND HAVE THE FOLLOWING QUALITY.

STRUCTURAL ELEMENT	AS3600, f'c (Mpa) AT 28 DAYS	SLUMP (mm)	AGG SIZE (mm)
PIERS	32	80	20

- C3. ALL CONCRETE SHALL BE MECHANICALLY VIBRATED TO GIVE MAXIMUM COMPACTION WITHOUT SEGREGATION OF
- C4. THE DESIGN, CONSTRUCTION, INSPECTION AND CERTIFICATION OF THE FALSEWORK, FORMWORK, PROPPING OR LOADING OF STRUCTURES DURING CONSTRUCTION BY THE FALSEWORK OR PROPPING SHALL BE THE RESPONSIBILITY OF THE BUILDER AND SUB-CONTRACTORS.
- C5. CLEAR CONCRETE COVER TO THE REINFORCEMENT SHALL BE AS FOLLOWS:

STRUCTURAL ELEMENT	COVER INTERNAL (mm)	COVER EXTERNAL (mm)
PIERS	45 ALL	AROUND

CONCRETE (CONTINUED)

C6. LAPPED SPLICE LENGTHS FOR HORIZONTAL BARS WITH MORE THAN 300mm CONCRETE CAST BELOW THE BAR & SPACED AT \geq 150mm CENTRES TO COMPLY WITH THE FOLLOWING U.N.O:-

COVER	fc	N12	N16	N20	N24	N28	N32
≥25	≥20	770	1150	1570	-	-	•
≥30	<u>≥</u> 25	630	980	1350	1740	-	-
≥40	≥32	510	770	1100	1440	1810	2230
≥50	≥40	460	630	890	1200	1530	1890

DO NOT INTERPOLATE INTERMEDIATE VALUES OF SPLICE LENGTHS.

LAPPED SPLICE LENGTHS FOR BARS IN COLUMNS REFER TO AS3600 OR SUPERINTENDENT.

EPOXY COATED BARS, BARS IN LIGHTWEIGHT CONCRETE & SLIP FORMED CONCRETE WILL REQUIRE LONGER

SPLICE LENGTHS. REFER TO AS3600 OR SUPERINTENDENT.

C7. LAPPED SPLICE LENGTHS FOR VERTICAL BARS (& HORIZONTAL BARS WITH LESS THAN 300mm CONCRETE CAST BELOW THE BAR) SPACED AT ≥150mm CENTRES TO COMPLY WITH THE FOLLOWING:-

COVER	fc	N12	N16	N20	N24	N28	N32
≥25	≥20	590	890	1210	-	-	-
≥30	≥25	490	750	1040	1340	-	-
≥40	≥32	390	600	840	1110	1400	1710
≥50	<u>≥</u> 40	350	480	690	920	1180	1450

NOT APPLICABLE FOR BARS IN COLUMNS.

DO NOT INTERPOLATE INTERMEDIATE VALUES OF SPLICE LENGTHS.

LAPPED SPLICE LENGTHS FOR BARS IN COLUMNS REFER TO AS3600 OR SUPERINTENDENT.

EPOXY COATED BARS, BARS IN LIGHTWEIGHT CONCRETE & SLIP FORMED CONCRETE WILL REQUIRE LONGER

SPLICE LENGTHS. REFER TO AS3600 OR SUPERINTENDENT.

C8. PROVIDE MINIMUM MESH LAPS TO CROSS WIRES OF REINFORCING MESH, SO THAT TWO OUTERMOST WIRES OF ONE SHEET OVERLAP TWO OUTERMOST WIRES OF ADJACENT SHEET BY AT LEAST 25mm, THUS:-

MESH TYPE	END LAP	SIDE LAP	
RECTANGULAR MESHES	225	125	
SQUARE MESHES SL102 TO SL42	225	225	
SL81	125	125	
TRENCH MESH	500	N/A	

USE LAP LENGTHS BASED ON LARGEST WIRE SPACING. DO NOT LAP MORE THAN THREE SHEETS AT ANY ONE POINT.

- C9. REINFORCEMENT SHALL NOT BE HEATED OR WELDED ON SITE WITHOUT THE APPROVAL OF THE ENGINEER.
- C10. ALLOW FOR N12-300 SUPPORT BARS PERPENDICULAR TO ALL REINFORCEMENT WHERE NO PERPENDICULAR BARS ARE SHOWN ON PLAN.
- C11. REINFORCEMENT SHALL BE IN ACCORDANCE WITH AS1302 AND AS4671 FOR 500 MPa REINFORCEMENT AND DUCTILITY CLASS N.

 IN ACCORDANCE WITH AS1303, 1304 AND AS4671 FOR 500 MPa REINFORCEMENT DUCTILITY CLASS L.
- C12. DAMP PROOF MEMBRANE SHALL BE 'FORTECON' ORANGE POLYTHENE.
- C13. 250 INDICATES SUSPENDED SLAB THICKNESS.
- C14. 250 INDICATES SLAB ON GROUND THICKNESS.

FOR CONSTRUCTION

SCALE @ A3: AS SHOWN

1 23/11/16 FOR CONSTRUCTION

Dennis Bunt
Consulting Engineers Pty Ltd

Suite 1, Building 8, 49 Frenchs Forest Road East Frenchs Forest, NSW 2086 P.O. Box 652, Forestville, NSW 2087 Ph: 02 9451 3455 Fax: 02 9451 3466 Email: info@dbce.com.au

ABN 23 039 013 724

CLIENT:
SIGNPAC
PROJECT:

SIGNPAC DIGITAL SIGN

STRUCTURAL NOTES

DRAWN DESIGN DATE: Nov'16

JOB NO: 16335 DWG NO: S01

REV: 1

Document Set 1D: 9157680 Version: 1, Version Date: 29/05/2020

ISS DATE COMMENT



ABN 23 039 013 724 Suite 1, Building 8 49 Frenchs Forest Road East Frenchs Forest NSW 2086

PO Box 652 Forestville, NSW, 2087 PH: (02) 9451 3455 FX: (02) 9451 3466 Email:info@dbce.com.au

3rd May 2018

Signpac 20/45 Leighton Place

Hornsby, NSW, 2077

Ref: 16335

<u>Structural Design Certification</u> <u>Signpac Digital Sign</u>

We, Dennis Bunt Consulting Engineers Pty Ltd, certify that we have designed the structural components for the single sided and double sided digital signs, as shown on our structural engineering drawings for job number 16335, S01 to S03 Revision 2.

We certify that the digital signs are structurally adequate for Wind Region A, B & C, Terrain Category 3 in accordance with relevant structural Australian Standards and relevant structural sections of the BCA.

We also certify that the footing has been designed for an allowable bearing pressure of 150 kPa in Wind Region A, B & C, Terrain Category 3.

This certificate shall not be construed as relieving any other party of their responsibilities, liabilities or obligations.

Yours Faithfully,

John Linsell BE(Hons), MIEAust, CPEng, NPER(Struct) for Dennis Bunt Consulting Engineers Pty Ltd.

Document Set ID: 9157680 Version: 1, Version Date: 29/05/2020



Signpro Australia Pty Ltd t/a Signpac

PO Box 1781

Hornsby Westfield NSW 1635

PH: 02 9987 4900

FAX: 02 9987 4911 ABN: 65 160 435 558

Electronic Digital Sign Electrical requirements

Please pass this information to your electrical contractor.

Power: 240v 50hz

Amps:

Single side sign: approx. 7amps Double side sign: Approx. 12amps

Electrical Cable:

For short runs 2.5mm TPS twin & earth. Thicker dependant on distance.

- 1. The sign must be on its own circuit, sourced from the nearest electrical point/building that has a switchboard where the sign has its own isolation switch. A 10 15amp isolation switch will suffice.
- 2. On the sign frame a lockable waterproof on/off switch needs to be secured on the backside of the frame, either up high or near the footing.
- 3. The sign will come with a cable directly connected by us in the inside. This cable has approx. 5 Mtr of length. You can take this cable down the inside of the post by drilling access holes at the top and bottom and connect it to the waterproof on/off switch. The posts are made of aluminium.
- 4. We highly suggest that you only start your work after we have installed the sign.

Direct Connection Cat5/6 Cable

If the sign is erected close enough to a building that you can run a Cat cable in the same trench as the electrical cable directly from the sign and into the IT switch box. Determine where the school would like the supplied laptop to be located and provide a wall outlet (if there is not a spare one already in that location) for an ethernet cable to be plugged into the laptop so it can permantely be plugged in there. Don't worry if this is not possible as we will then use point to point Wi-Fi aerials.

Should you need any further information, please ask the school who our contact person is for there school and call anytime.

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