



**APPENDIX B - SCOPE OF SERVICES\_SPECIFICATION**

**Contract Title: Digital Advertising Screens**

**Issue Date: *September 2015***

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Contract Title: *Digital Advertising Screens*

The Supplier shall provide their offering on the basis of the following specification. Each panel shall comprise a 48 sheet digital panel.

### **Display Specification**

Power Management: Precision thermal and voltage diagnostics  
Dimming: Multidirectional fully programmable photocell analysis complete with auto-bright sensor capability and automatic logging  
Software: Open system  
Module Type: Smart module with remote control capability  
Security: 256-bit Encrypted  
Thermal control: Smart node controls cooling  
Environmental rating: NEMA 4x / IP65  
Operating Temperature: -20 degrees C to +50 degrees C  
Electronic Validation: Accurate proof of performance  
Diode type: Nichia, black package 3-in-1 SMD  
Average power consumption: Approx. 120 watts p/sqm  
Diagnostics: Intelligent LED system alert notifications including network topology map / analysis  
Data: Redundancy  
Colour control: Full RGB colour control  
Warranty: 3-year (parts repair and replace)  
Spare parts: Approx. 2% including modules, jump cables, data cables, switch, T-Handle

### **Technical Specification**

Pixel Pitch: True 10mm  
Pixel configuration: RGB  
Max Brightness: 8000 nits  
Lifetime 1/2 brightness: 100, 000 hours  
Module configuration: 320mm x 320mm  
Horizontal viewing angle (50% brightness): 140 degrees  
Maximum horizontal viewing distance: 170 degrees  
Vertical viewing angle (50% brightness): 140 degrees  
Max vertical viewing angle: 85 degrees up, 85 degrees down  
Video processing: 24 bit RGB standard, 48 bit RGB optional  
Colour processing: 16 bit – 281 trillion RGB colours  
Dimming capability: 1% to 100% in 1% increments (auto-brightness logger capability)  
Colour temperature: Adjustable from 3,500K to 10,000K  
LED refresh rate: 588KHz (LED update rate)  
Calibration: Full luminance and chrominance calibration  
Service access: Front and rear  
Ventilation: Fans  
Video frame rate: 1Hz to 120Hz  
Video compatibility: Any source that can be converted to DVI  
Graphics compatibility: Any DVI source. All VESA resolutions to be supported plus any customisable format up to 165MPix/s  
Video formats: DVI standard  
Data to display: Gigabit Ethernet over copper or fibre

### **Control System Specification:**

- Redundant player PC control (enabling remote switching)
- 3G router with appropriate aerial
- DVI switch
- EDID keeper

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- 3G failover
- Router rack mount
- 8 port switched rack PDU
- UPS
- PTZ outdoor camera with mounting bracket

#### **Cabinet Specification**

- 27U 600 x 600 IP54 configured
- Basic frame
- Moulding - Powder Coated RAL9006
- 2 x plain steel doors (black externally)
- Plain steel side panels (black externally)
- 2 x 19' mounting angles
- Thermostatic control
- Filter
- Plinth
- Cable entry

#### **Proactive Remote Monthly LED Display Monitoring**

- Full camera monitoring service (checked twice daily and reports sent to client) 5 days per week
- Alert monitoring and logging against help desk
- 98% SLA on screen uptime per quarter excluding CMS issues
- Full issue report service
- Remote support – Max 2-hour response

#### **Reactive annual service level agreement; to include**

- Monday – Friday within core business hours (0900 – 1730)
- Health status monitoring
- Telephone / email support within core hours
- 2 x preventative maintenance visits per annum to include display cleaning, non evasive checks, healthcare checks etc
- Software updates where applicable
- CMS hosting if required
- Spare part and component management
- Reactive service visits for repair or replacement of faulty modules / components within core service hours subject to access constraints – 24h response
- Power supply alert management

#### **Fixtures and Fittings**

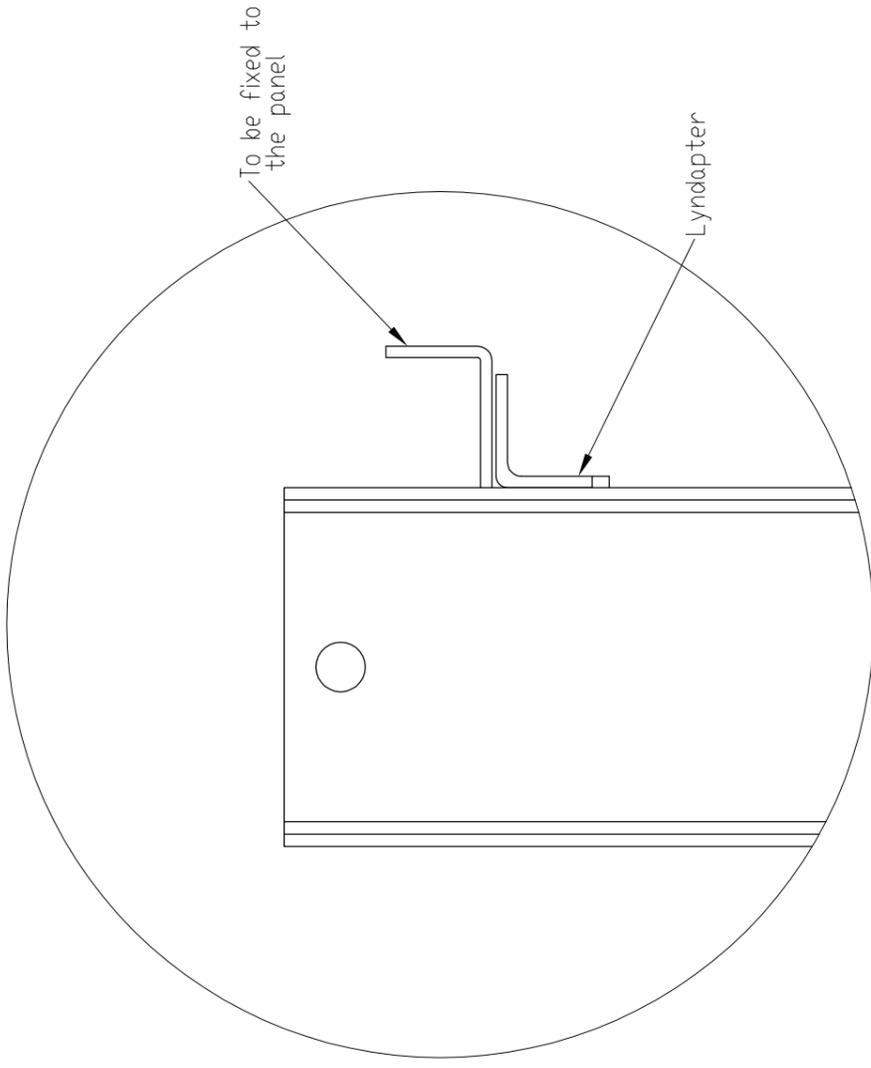
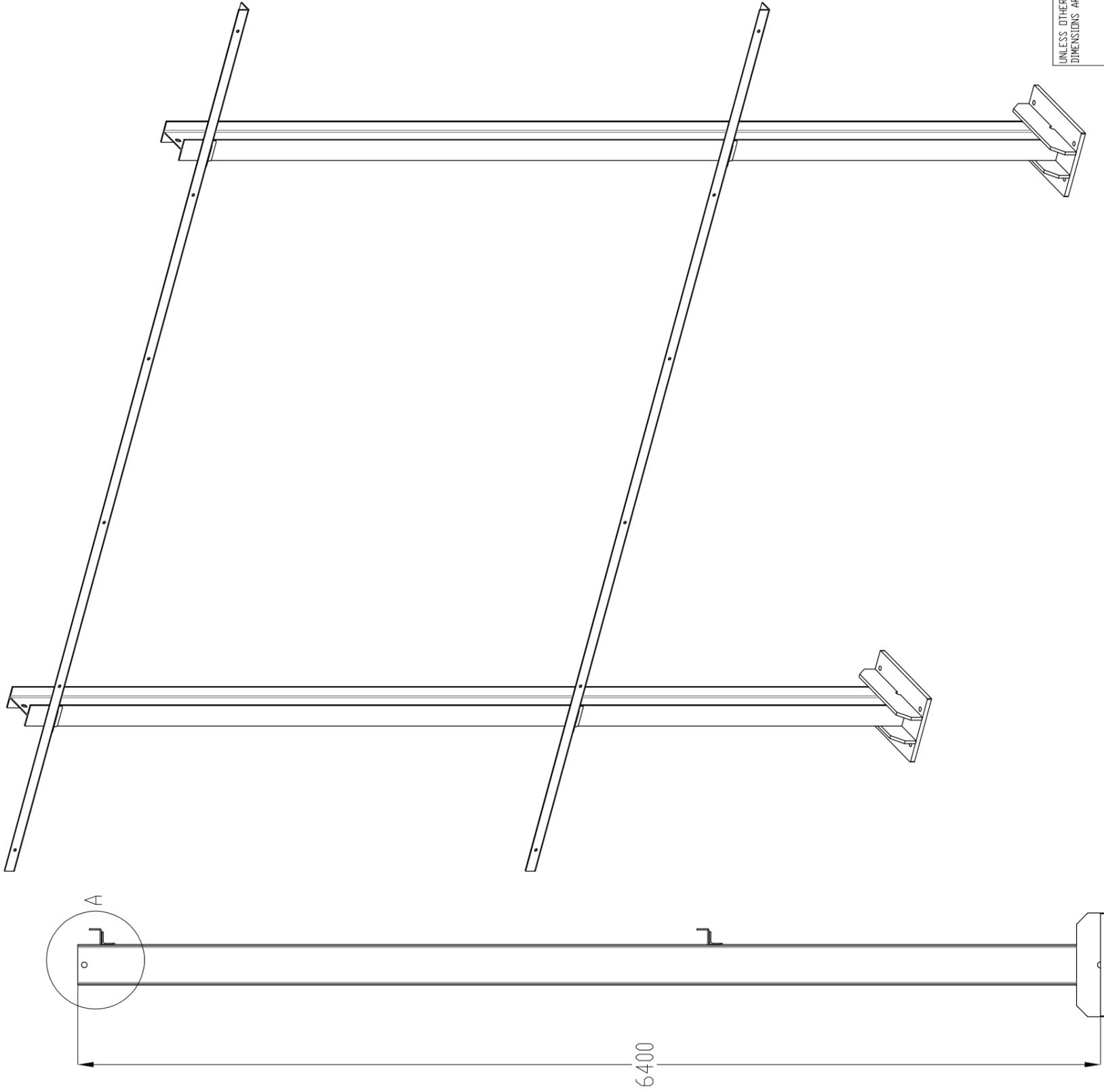
Supply and fit steels and all fixtures and fittings to support digital panel

Appendix B - Scope of Services\_Specification

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**Indicative Drawings of Panel Mountings**

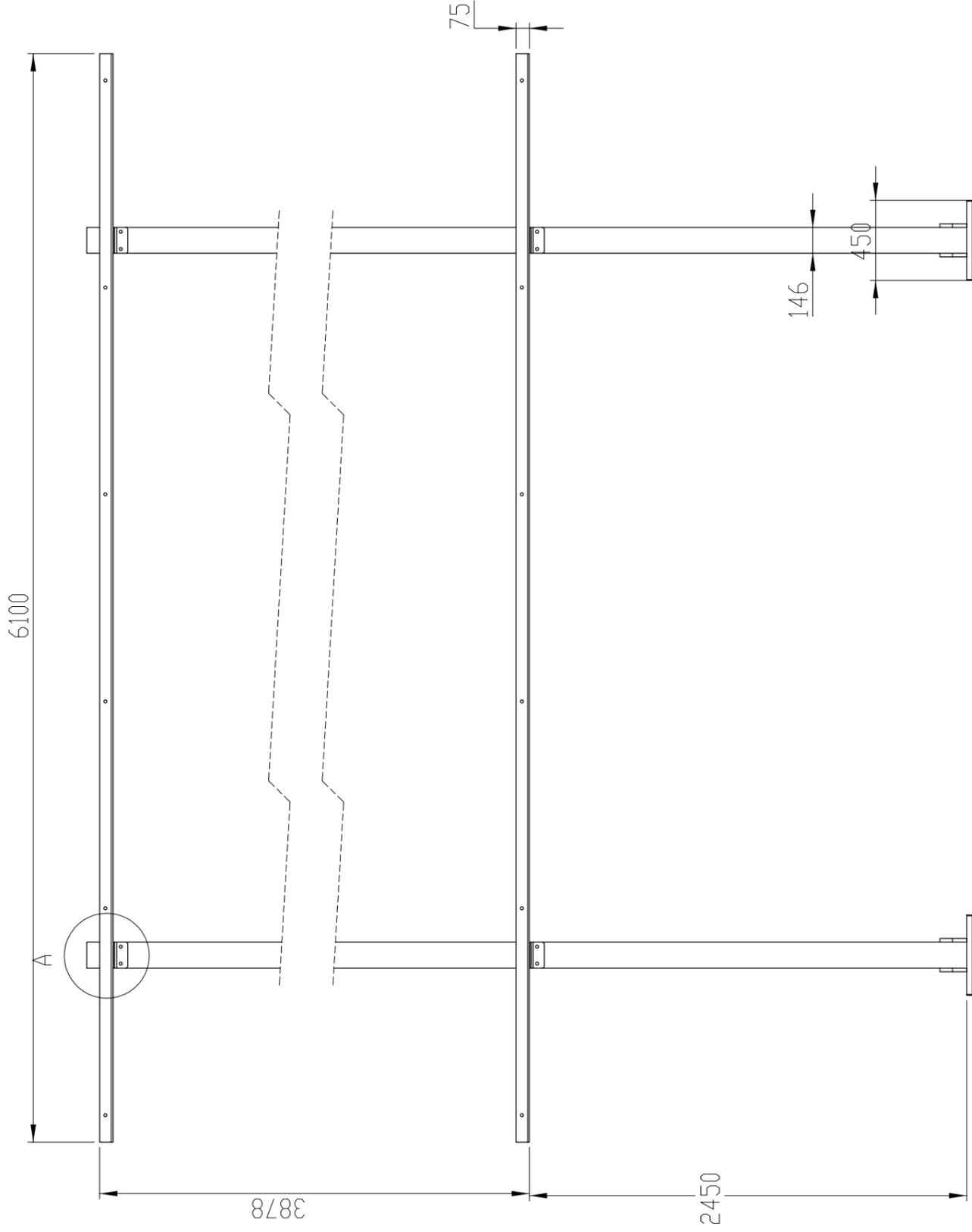


DETAIL A  
SCALE 1 : 5

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS		FINISH:	Metal Paint- Zinc rich Gray colour		DEBUR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
DRAWN	NAME	SIGNATURE	DATE				
CHK'D							
APPV'D							
MFG							
O/A							
				MATERIAL:	Mild Steel	TITLE: Freestanding 48s Digital	
						DWG NO. A3	
						SCALE: 1 : 30	SHEET 1 OF 1

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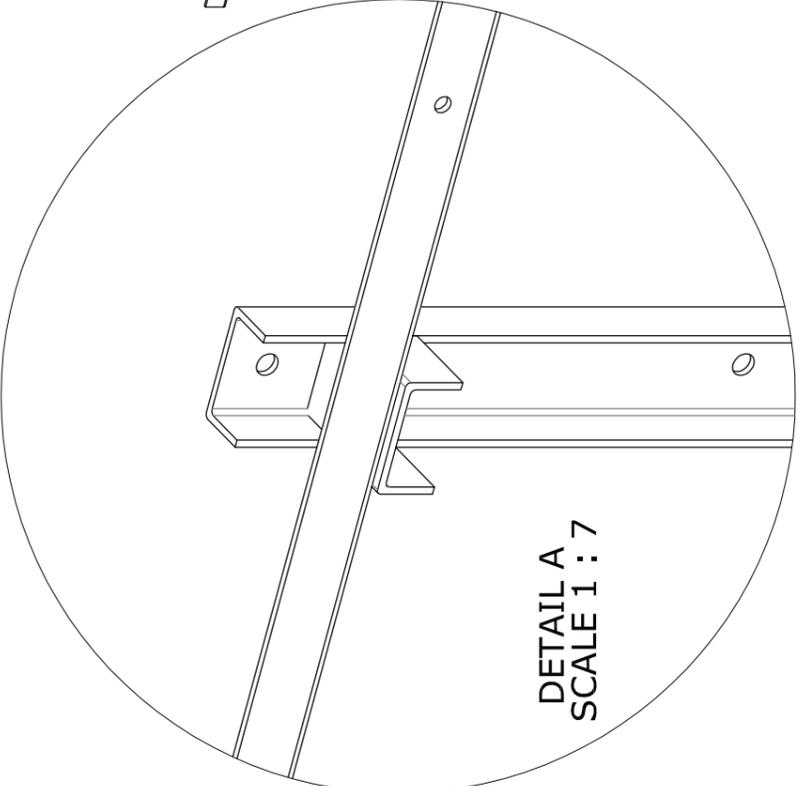
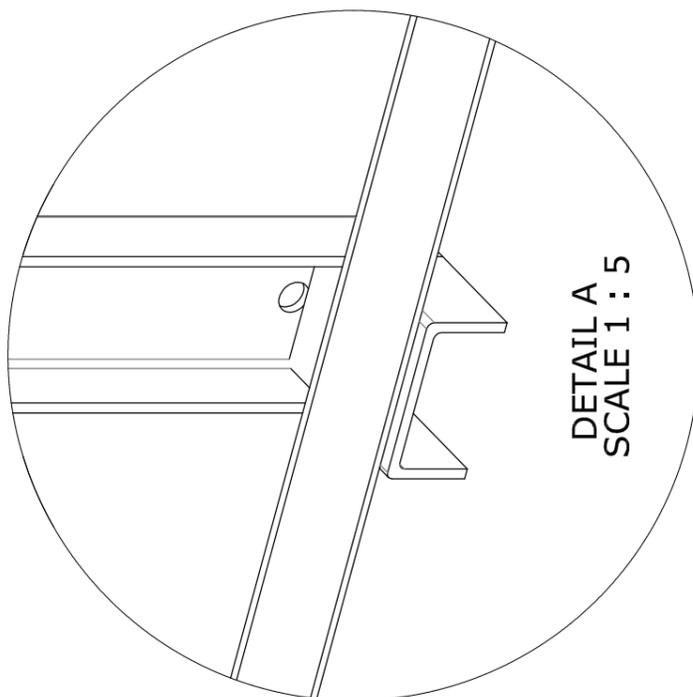
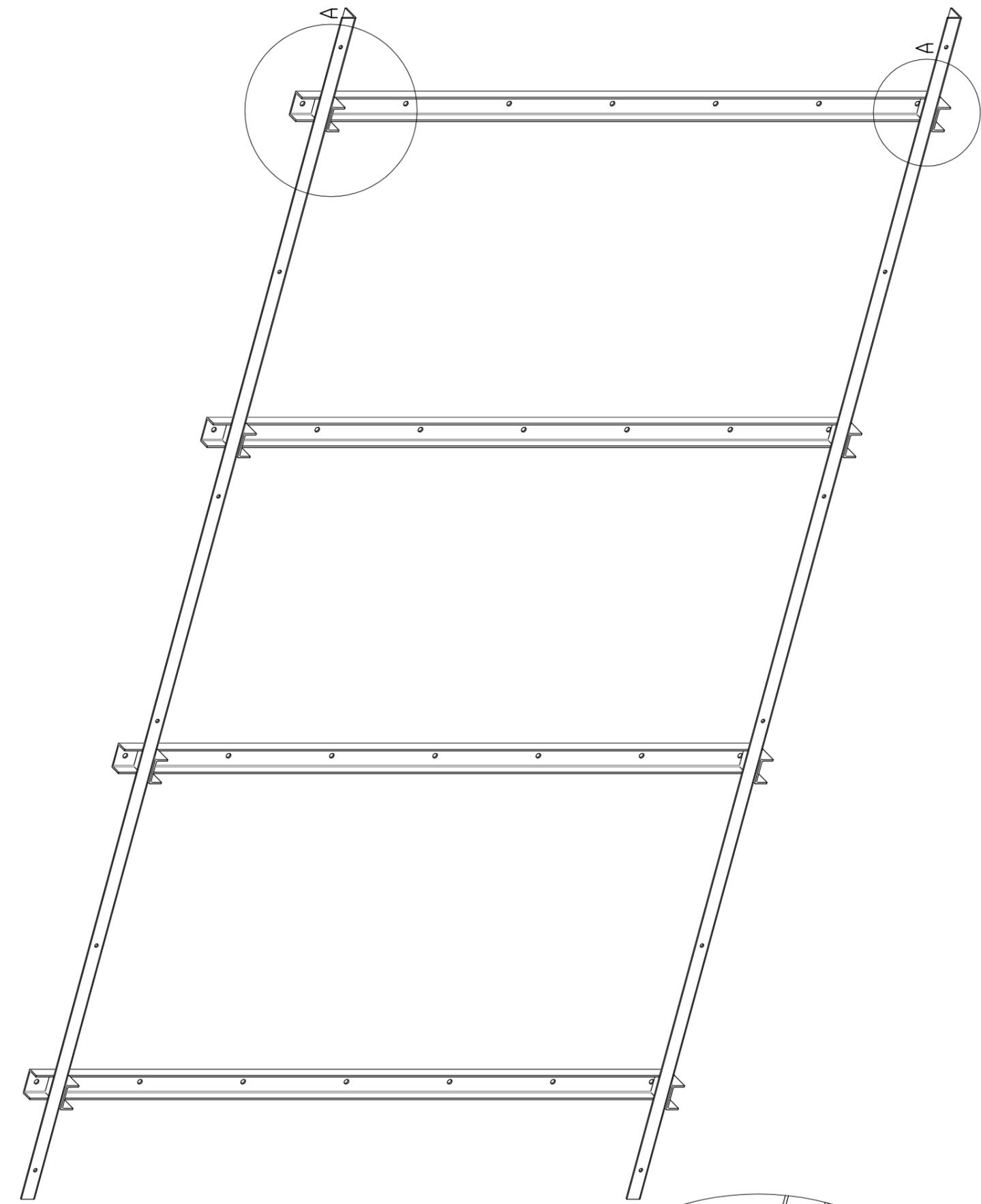


DETAIL A  
SCALE 1 : 5

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		FINISH:	DEBUR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
		Metal Paint- Zinc rich Gray colour			
DRAWN	NAME	SIGNATURE	DATE	TITLE: Freestanding 48s Digital	
CHK'D				DWG NO.	A3
APPV'D				MATERIAL:	
MFG				Mild Steel	
Q/A				WEIGHT:	
				SCALE: 1 : 30	SHEET 1 OF 1

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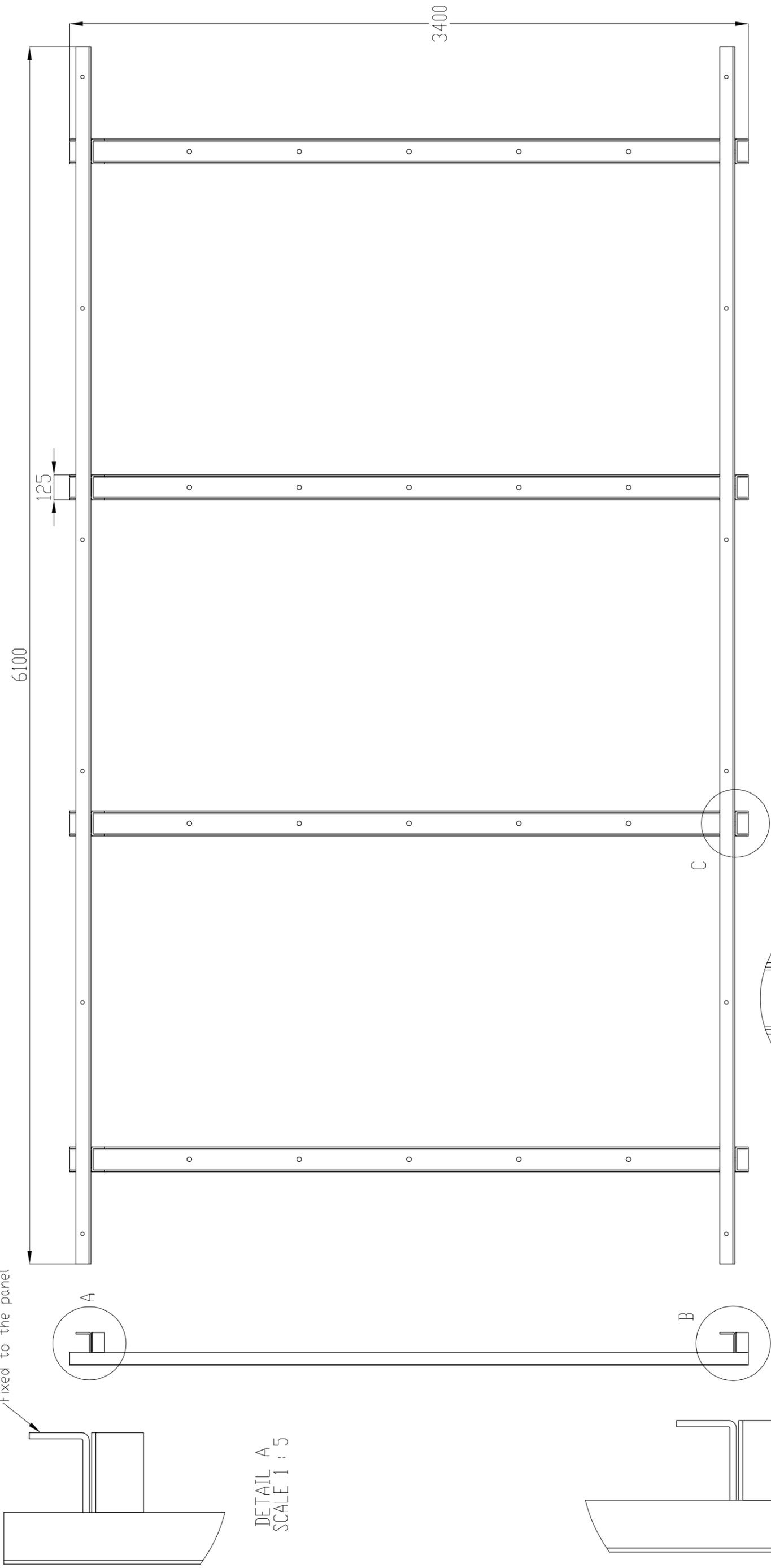


UNLESS OTHERWISE SPECIFIED FINISH DIMENSIONS ARE IN MILLIMETERS		Metal Paint- Zinc rich Gray colour		DEBUR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
DRAWN	NAME	SIGNATURE	DATE	TITLE		DVG NO.		SCALE 1 OF 1	
CHK'D				Wall Mounted 48s Digital		A3			
APPV'D				MATERIAL: Mild Steel		WEIGHT:			
MFG									
Q.A									

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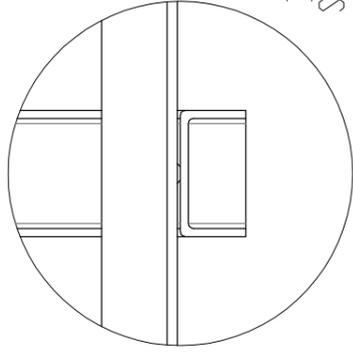
Fixed to the panel



DETAIL A  
SCALE 1 : 5

DETAIL B  
SCALE 1 : 5

DETAIL C  
SCALE 1 : 7



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS		FINISH: Metal Paint- Zinc rich Gray colour	DEBUR AND BREAK SHARP EDGES	DD NOT SCALE DRAWING	REVISION
NAME	SIGNATURE	DATE	TITLE:	Wall Mounted 48s Digital	
DRAWN					
CHK'D					
APPV'D					
MFG					
Q/A					
			MATERIAL: Mild Steel	DWG NO.	A3
			WEIGHT:	SCALE 1 : 30	SHEET 1 OF 1

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