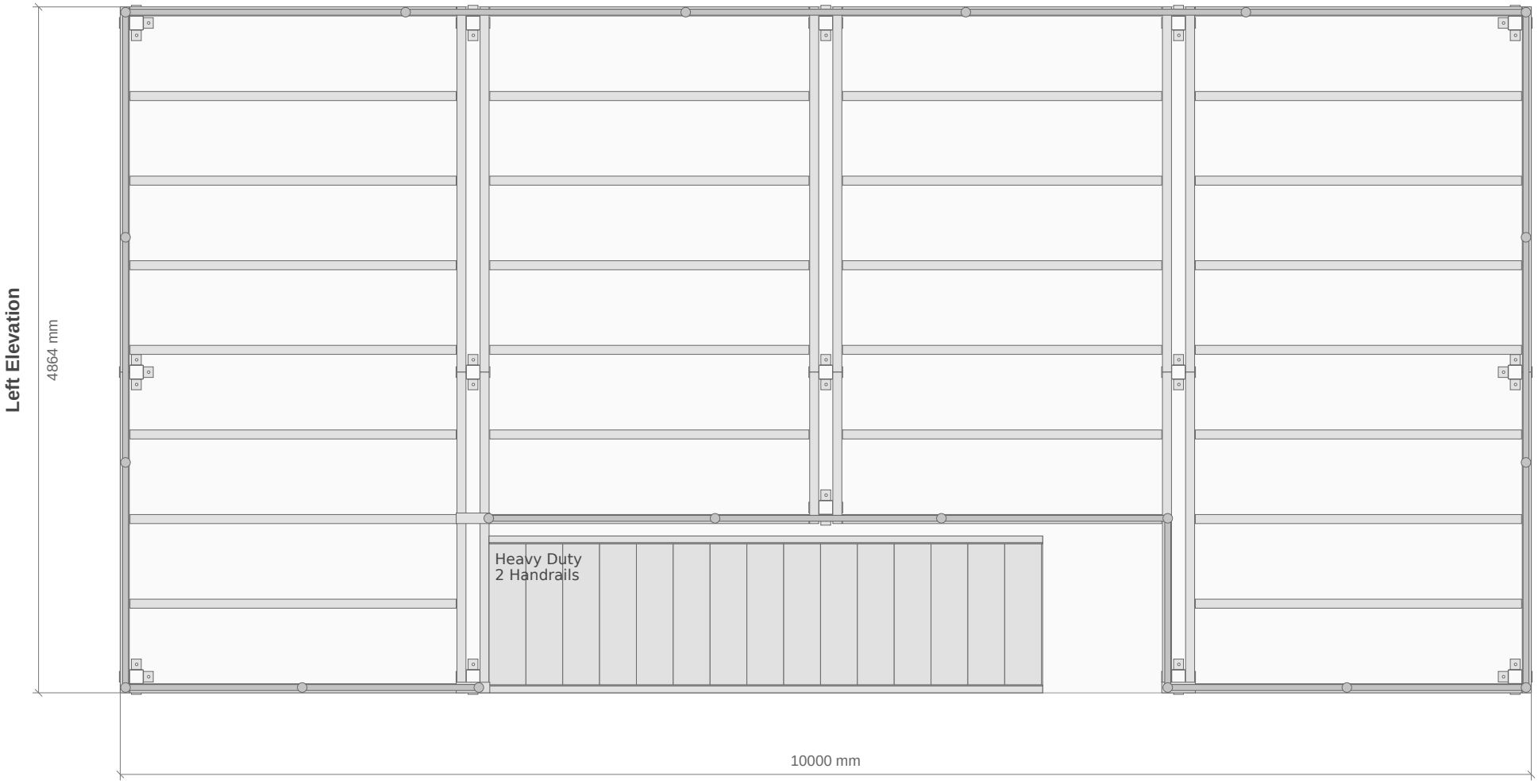
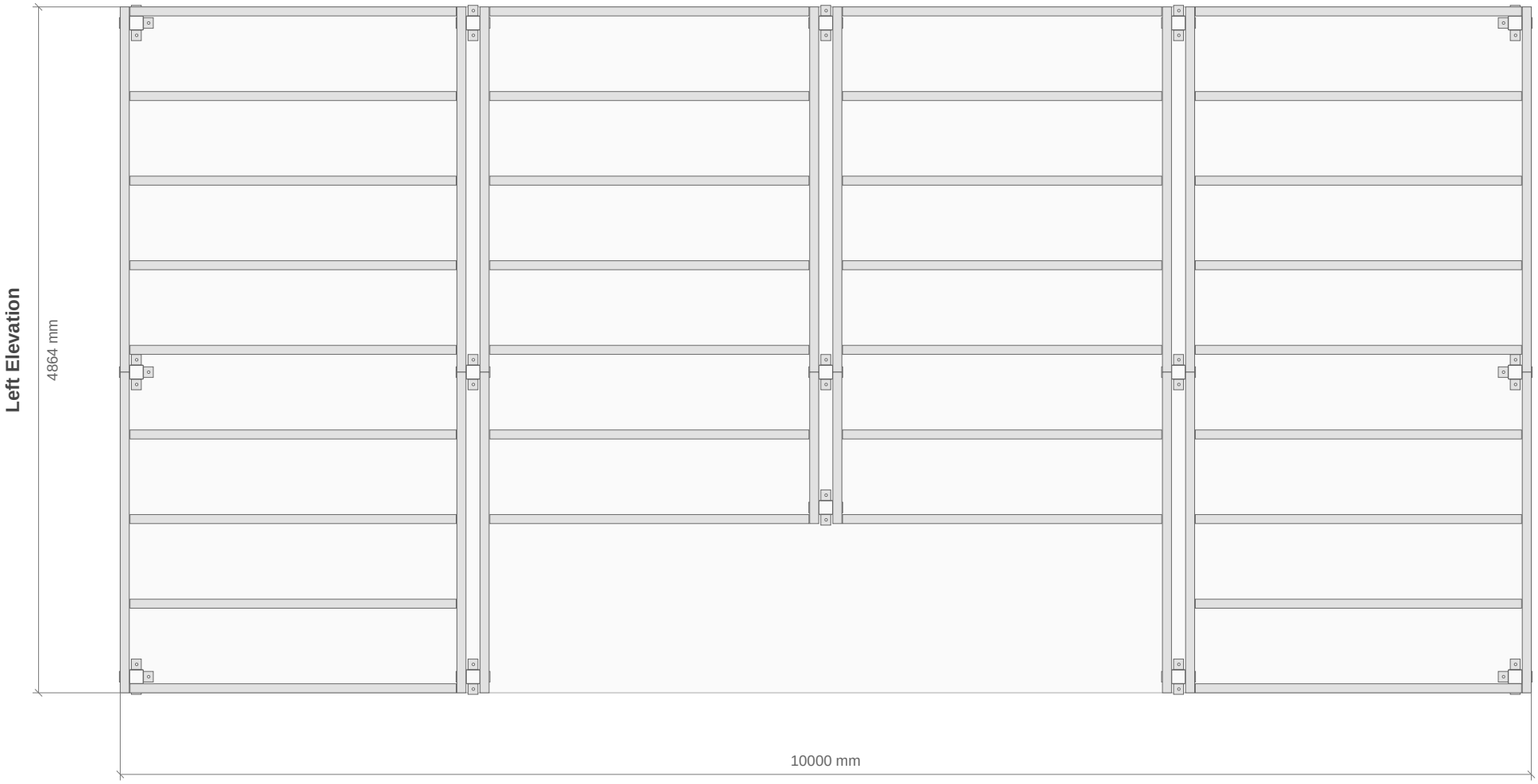


Front Elevation

Stairs: 3923 mm · 15 treads

Your Logo Here

PROJECT: Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor		PROJECT NUMBER: 2989			
CLIENT: Example Customer		DRAWN BY: dm3 Solutions	Powered by dm3Solutions.com		
ADDRESS: Example Street, Suburb WA 6000	DRAWN DATE: 2022-09-22	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 1 of 5



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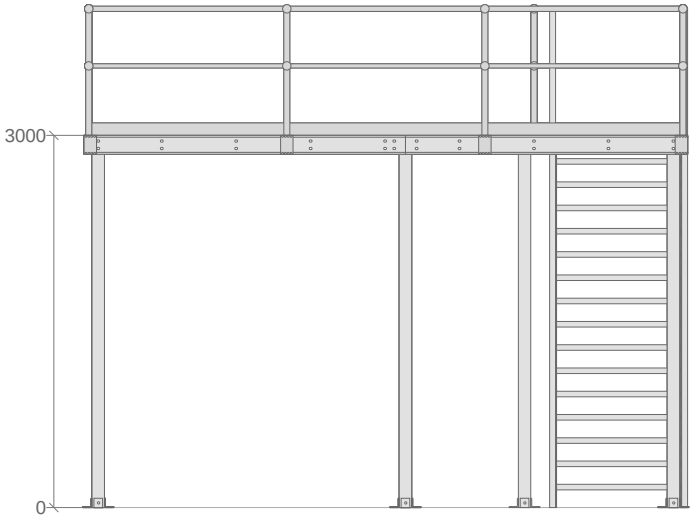
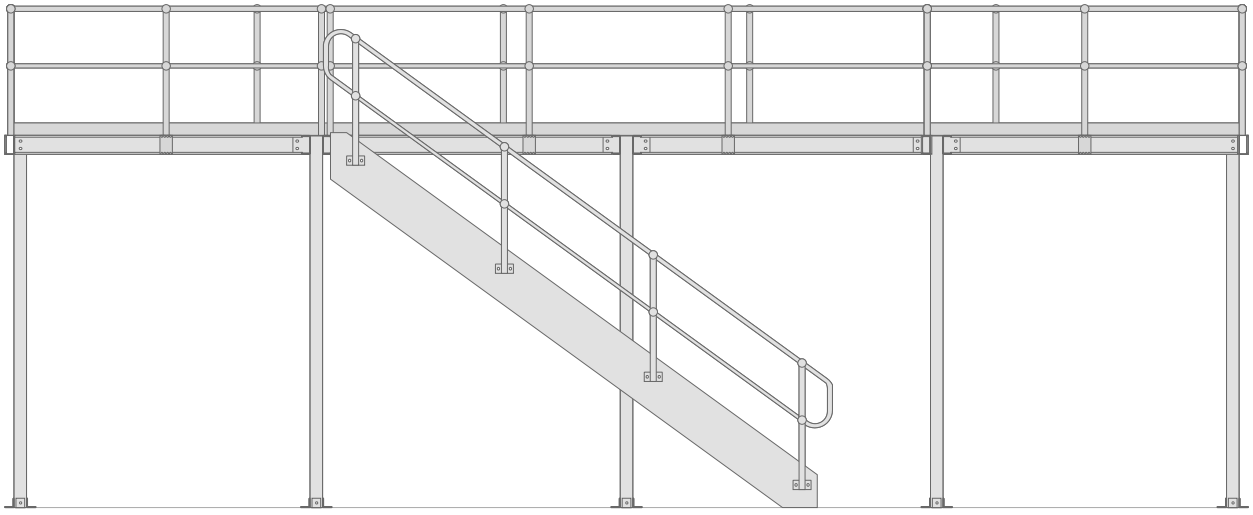
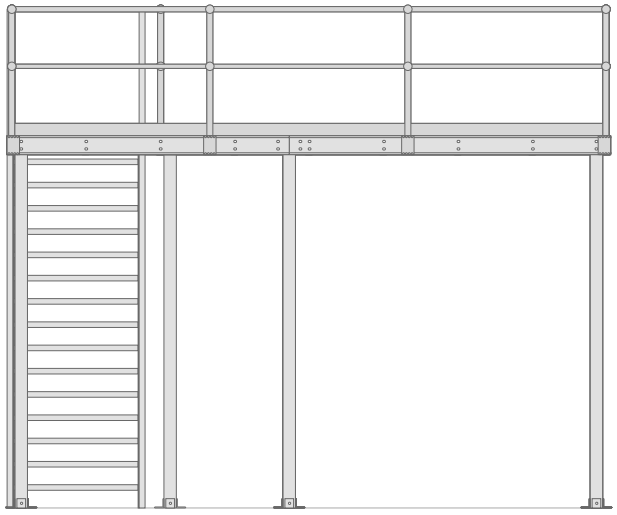
Clearance: 2848 mm



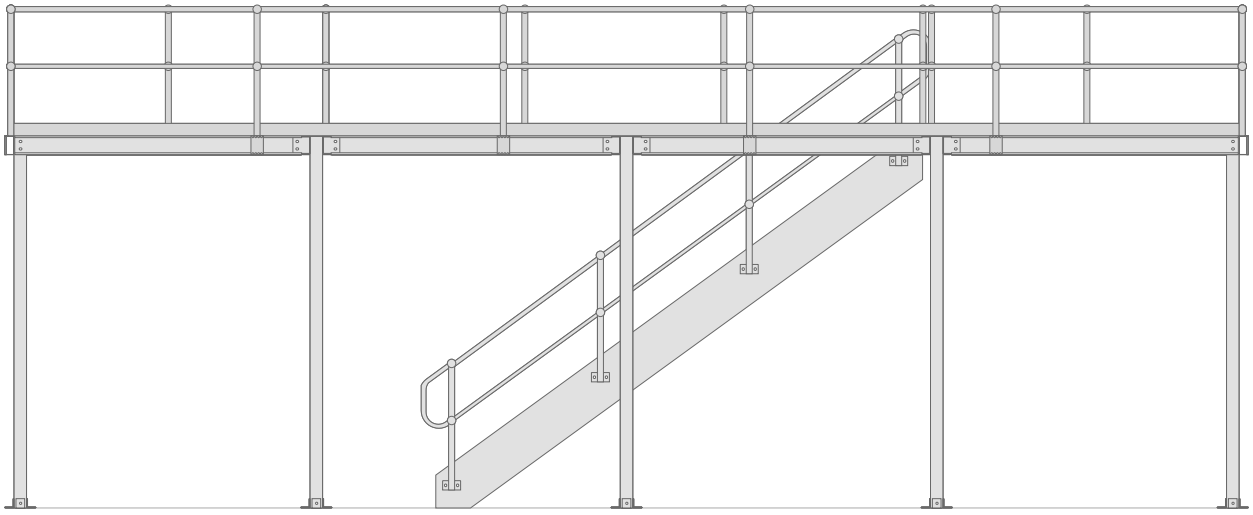
Left Elevation



Front Elevation



Right Elevation



Back Elevation

Your Logo Here

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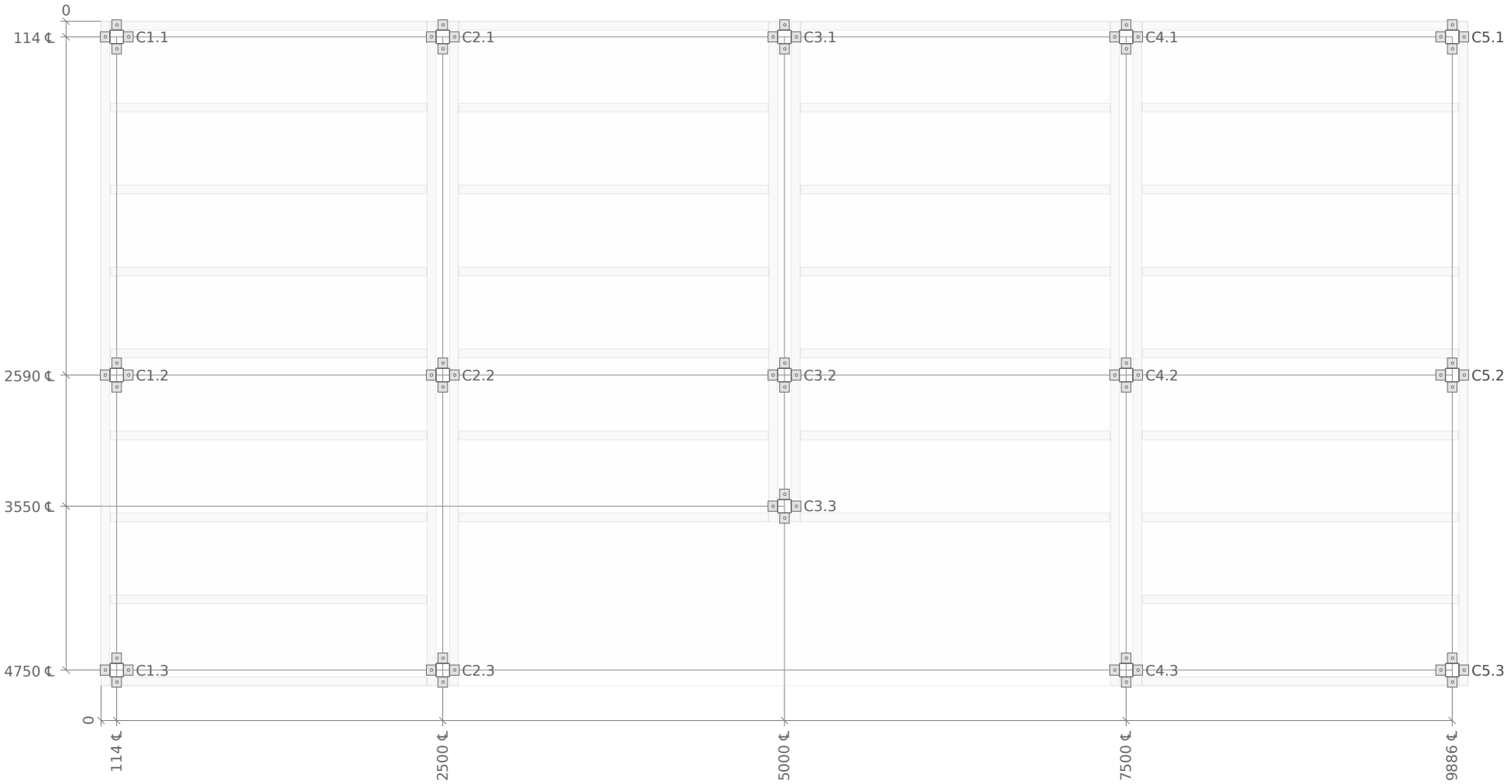
CLIENT: Example Customer	DRAWN BY: dm3 Solutions	Powered by dm3Solutions.com			
ADDRESS: Example Street, Suburb WA 6000	DRAWN DATE: 2022-09-22	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 3 of 5



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In Plane Mezzanine Floor Specifications

BCA Classification	7B
Dimensions	4864 x 10000 x 3000
Design Load	3.0 kPa · 300 kg/m^2
Concentrated Action	4.5 kN · 450 kg
Slab	Existing by others
Mass	1535.4 kg · Component Weights Itemised & Auditable

Bearers

Product	BlueScope® G500 Hi-Tensile Cold Formed C Section
Maximum Deflection	4.3 mm over a 2386 mm Span
	8.0 mm maximum permitted by the Australian Standards®
Maximum Vibration	1.1 mm
	2.0 mm maximum permitted by the Australian Standards®

Joists at 600 mm Centers

Product	BlueScope® G500 Hi-Tensile Cold Formed C Section
Maximum Deflection	1.6 mm over a 2242 mm Span
	7.5 mm maximum permitted by the Australian Standards®
Maximum Vibration	0.9 mm
	2.0 mm maximum permitted by the Australian Standards®

Posts

Product	OneSteel® Duragal® 100x100 SHS Grade C450L0
Footings	Brackets on Slab
Raking Force	12.422 kN Required · 38.214 kN Provided

Independent Structural Engineers

Name	EDGE Consulting Engineers
Web	www.edgece.com

The Smart Buyer's Guide

The 7 Essential Elements of an Australian Standards® Compliant Mezz

Certified G450 to G500 High Tensile Steel

Require — The Steel Grade & Manufacturer in writing. Engineers need Certified Span Capacities like those published by BlueScope® to verify steel suitability.
Avoid — Ungraded, untested or undocumented steel. Put Safety First.

Deflection Certified as Australian Standards® Compliant

Require — The maximum Bearer & Joist Deflection in writing. Deflection, or sag under load, **is critical & must be calculated** for all Australian floors.
Avoid — Undocumented Deflection. It is a simple calculation. Get it in writing.

Vibration Certified as Australian Standards® Compliant

Require — The maximum Bearer & Joist Vibration in writing. Vibration, or bounce under load, **is critical & must be calculated** for all Australian floors.
Avoid — Undocumented Vibration. It is a simple calculation. Get it in writing.

Raking Force exceeding 12.422 kN or 1242 kg

Require — The exact amount of Raking Force required to keep the structure upright. Raking Force **is a critical requirement** for all Australian Flooring.
Avoid — Undocumented Raking Force. It's a simple calculation. Get it in writing.

C Section Bearers & Joists

Require — C Sections due to their superior durability, strength & span capacities.
Avoid — Top Hats & Top Span as they rarely satisfy Deflection & Vibration limits.

Product Mass of at least 1535 kg

Require — The mass in kilograms. Our software optimises the use of steel. If a product is significantly lighter, it's non-compliant, unsafe & shouldn't be sold in Australia.
Avoid — Undocumented mass. Remember, less steel = more profit. Always double check the weight on the Bill of Materials. People lie. Scales do not.

Structural Design Quality

Require — An example of their Product Documentation. Know what you are getting!
Ignore — Sales Documentation & Salespeople. Look at their Product, not their Pitch.

We Recommend BLUESCOPE **Australian Steel**

Your Logo Here

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ADDRESS: Example Street, Suburb WA 6000	DRAWN DATE: 2022-09-22	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 5 of 5