
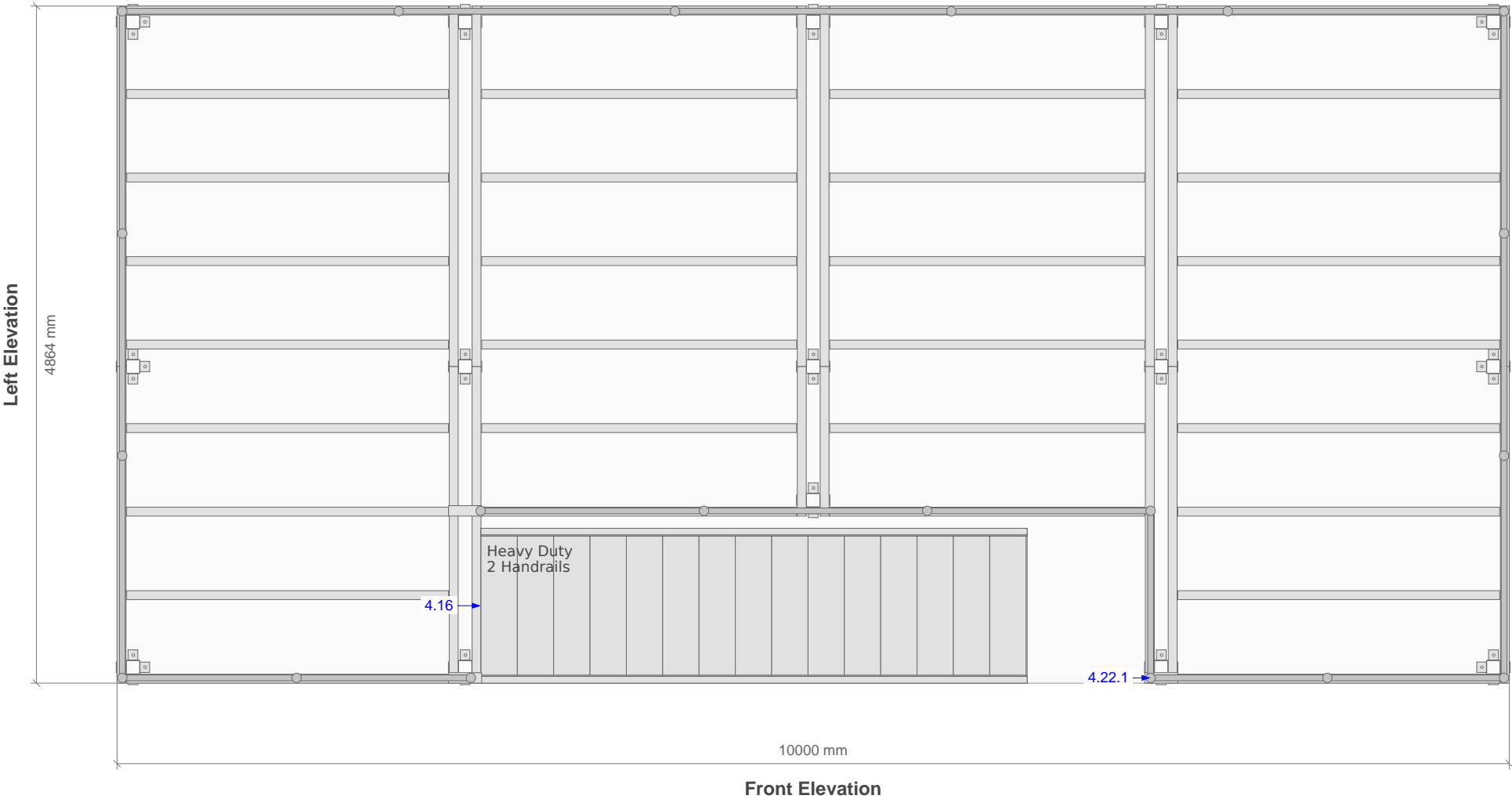



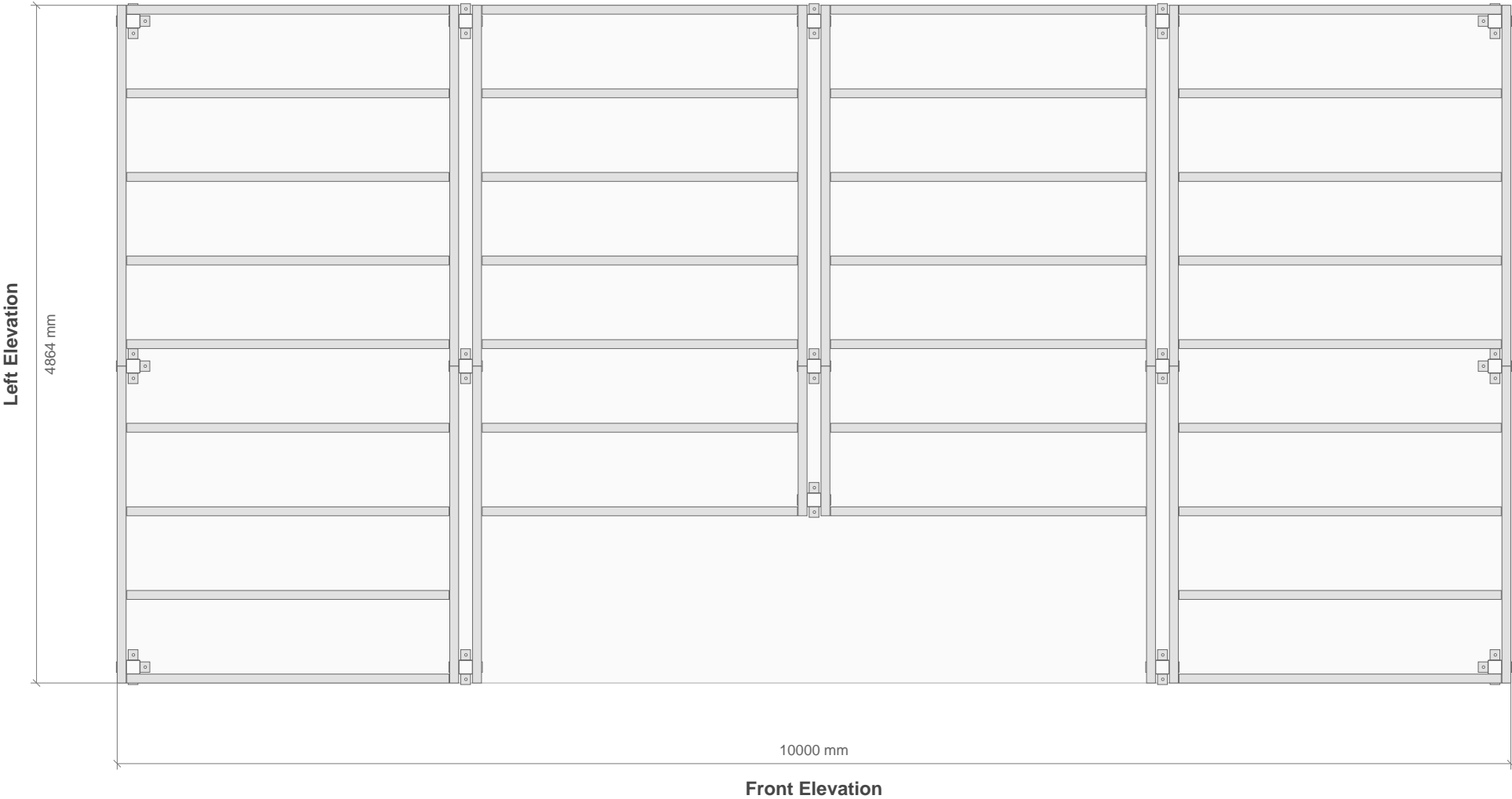
General Notes		Steel Grades		Design Notes & Structural Members					
G01	The Design and Details shown in these Drawings are applicable to this Project only.	300 PLUS	Universal Beams & Columns, Parallel Flange Channels, Large Angles to AS/NZS 3679.1	Dimensions		4864 x 10000 x 3000			
G02	These Drawings shall be read in conjunction with all Architectural Drawings, other Consultants' Drawings, Specifications and such other Written Instructions as may be issued during the course of the Project. Any discrepancy shall be referred to the Engineer before proceeding with the work.	250	Flats, Small Angles, Taper Flange Beams & Columns to AS/NZS 3679.1	Building Class		7B			
		300	Welded Sections to AS/NZS 3679.2	Design Load		3.0 kPa			
G03	All Materials and Workmanship shall be in accordance with the relevant and current SAA Codes and Authorities Except where varied by the Project Specifications.	250	Hot Rolled Plates, Floor Plates & Slabs to AS/NZS 3678	Concentrated Load		4.5 kN			
		250	Hollow Sections to AS 1163. Circular Sections less than 165mm Outside Diameter. Sections other than the above	Floor Location		Indoor			
G04	The Structure must be maintained in a stable condition and no part must be overloaded during construction. Temporary bracing must be designed and provided by the contractor(s) to keep the building works and excavations stable at all times.	G450-G550	Cold Form AS 4600. Unless noted otherwise, all purlins, plates & brackets are G450.	Posts		100x100x2 Grade C450L0			
		G500	Slab mesh and deformed reinforcement bars.	Bearers		C15012			
		Australian Standard™ & Australian/New Zealand Standard™ Adopted			Joists		C15012		
G05	The Issuer of these Designs reserves the right to alter Specifications and Designs as it may see fit without prior notification or penalty.	AS 1111.1	ISO Metric Hexagon Bolts and Screws – Product Grade C Part 1: Bolts	Footings		On Slab			
G06	Unless specified otherwise, Structural Wall means a Steel Reinforced Concrete Wall with a minimum of 20 MPa concrete compressive strength.	AS/NZS 1163	Cold-formed Structural Steel Hollow Sections	Slab		Existing by others			
G07	Connections may require on-site drilling by the contractor(s).	AS/NZS 1170.0	Structural Design Actions - Part 0: General Principles	Max Joist Spacing		600 mm			
		AS/NZS 1170.1	Structural Design Actions - Part 1: Permanent, Imposed & Other Actions	All Plates & Brackets		3.0 mm G450			
		AS/NZS 1170.4	Structural Design Actions - Part 4: Earthquake Actions in Australia	Technical Data		Page 27			
		AS 1252	Structural Assemblies						
		AS/NZS 1554	Structural Steel Welding						
		AS 1657	Fixed Platforms, Walkways, Stairways & Ladders: Design, Construction and Installation						
		AS/NZS 3678	Structural Steel: Hot-rolled Plates, Floorplates & Slabs						
		AS/NZS 3679	Structural Steel: Hot-rolled Bars & Sections						
		AS 4100	Steel Structures						
		AS/NZS 4600	Cold-formed Steel Structures						
		AS/NZS 4671	Steel Reinforcing Materials						
		AS/NZS 4680	Hot-dip Galvanized (Zinc) Coatings on Fabricated Ferrous Articles						
Foundation Notes									
F01	Foundations have been designed assuming an allowable bearing capacity of 100 kPa.								
F02	The Owner is advised to obtain a Geotechnical Report and/or Site Foundation Report to confirm F01 above.								
F03	Footings shall be located centrally under walls and columns unless noted otherwise.								
F04	Footings shall be an industrial floor slab of adequate strength, or pad footings founded a minimum of 400 mm into Natural Ground. Do not Found Footings in uncontrolled fill.								
F05	Engineer to be contacted if Foundation Conditions vary from F01 above.								
Steelwork Notes									
S01	All Workmanship and Materials shall be in accordance with AS 4100 and AS 1554 except where varied by the Project documentation.								
S02	Bolting Categories are identified on the Structural Drawings as follows: 4.6/S Commercial Bolts of Grade 4.6 to AS 1111 Snug Tightened 8.8/S High Strength Structural Bolts of Grade 8.8 to AS 1252 Snug Tightened								
S03	Unless noted otherwise, all M16 fasteners shall be Category 8.8/S. Standard Fixings for C100, C150, C200 and C250 Sections are M12 bolts. Standard Fixings for C300 and C350 Sections are M16 bolts. No Connection shall have less than 2 bolts.								
S04	All metal cladding should comply with AS/NZS 4680 G550, AZ150 (550 MPa minimum yield stress, 150 g/m2 minimum coating mass).								
S05	Steelwork intended to be concrete encased shall be unpainted. Encasing concrete shall be Grade N25 unless noted otherwise providing a cover adequate to suit fire rating or exposure conditions. Concrete Encasement shall be centrally reinforced with 5 mm wire to AS 4671 or 6 mm Structural Grade Bars to AS 4671 at 150 mm pitch.								
S06	Unless noted otherwise, all steel shall comply with the relevant Australian Standard.								
<div></div>		PROJECT:		PROJECT NUMBER:		© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale. Powered by dm3Solutions.com			
		Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor		6462					
		CLIENT:		DRAWN BY:		ISSUE:		SIZE:	
		Example Customer		dm3 Solutions		1		A4	
ADDRESS:		DRAWN DATE:		SCALE:		DRAWING NUMBER			
Example Street, Suburb WA 6000		2022-09-28		NTS		1 of 27			




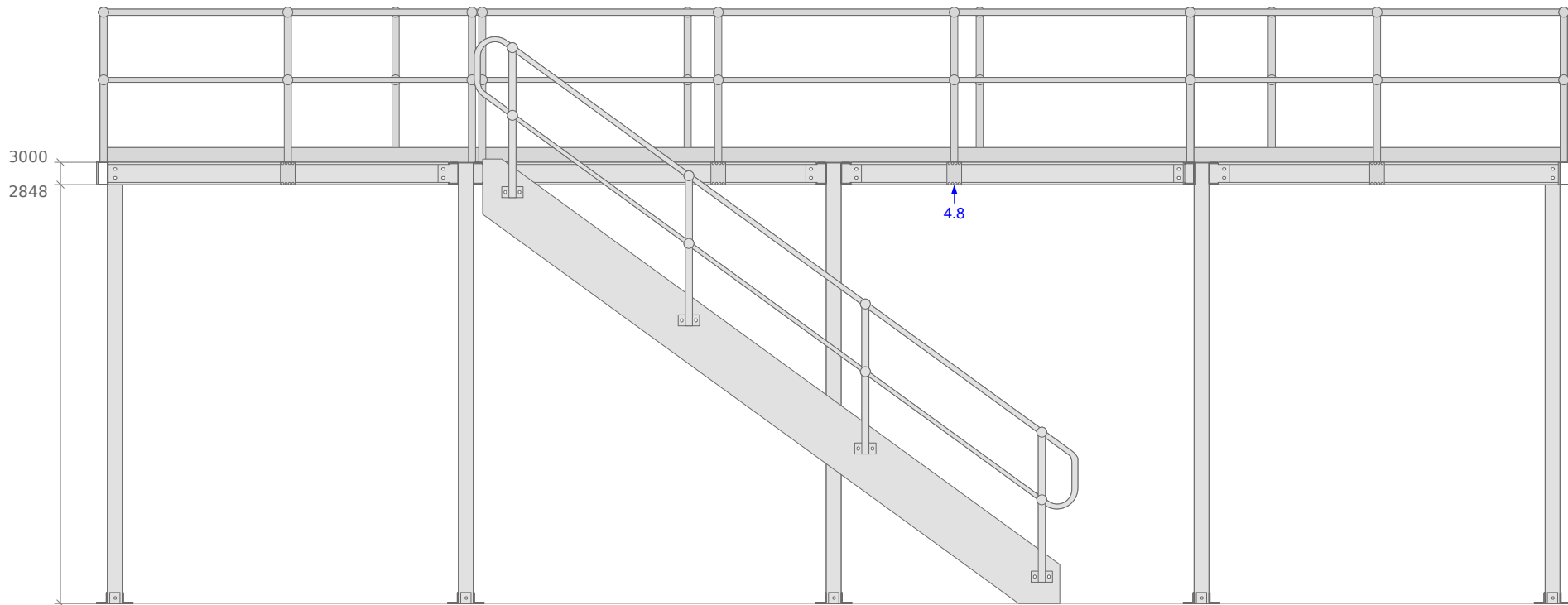
Fix to Manufacturer Specifications

Stairs: 3923 mm · 15 treads


	PROJECT: Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor	PROJECT NUMBER: 6462	© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale. Powered by dm3Solutions.com			
	CLIENT: Example Customer	DRAWN BY: dm3 Solutions				
	ADDRESS: Example Street, Suburb WA 6000	DRAWN DATE: 2022-09-28	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 2 of 27

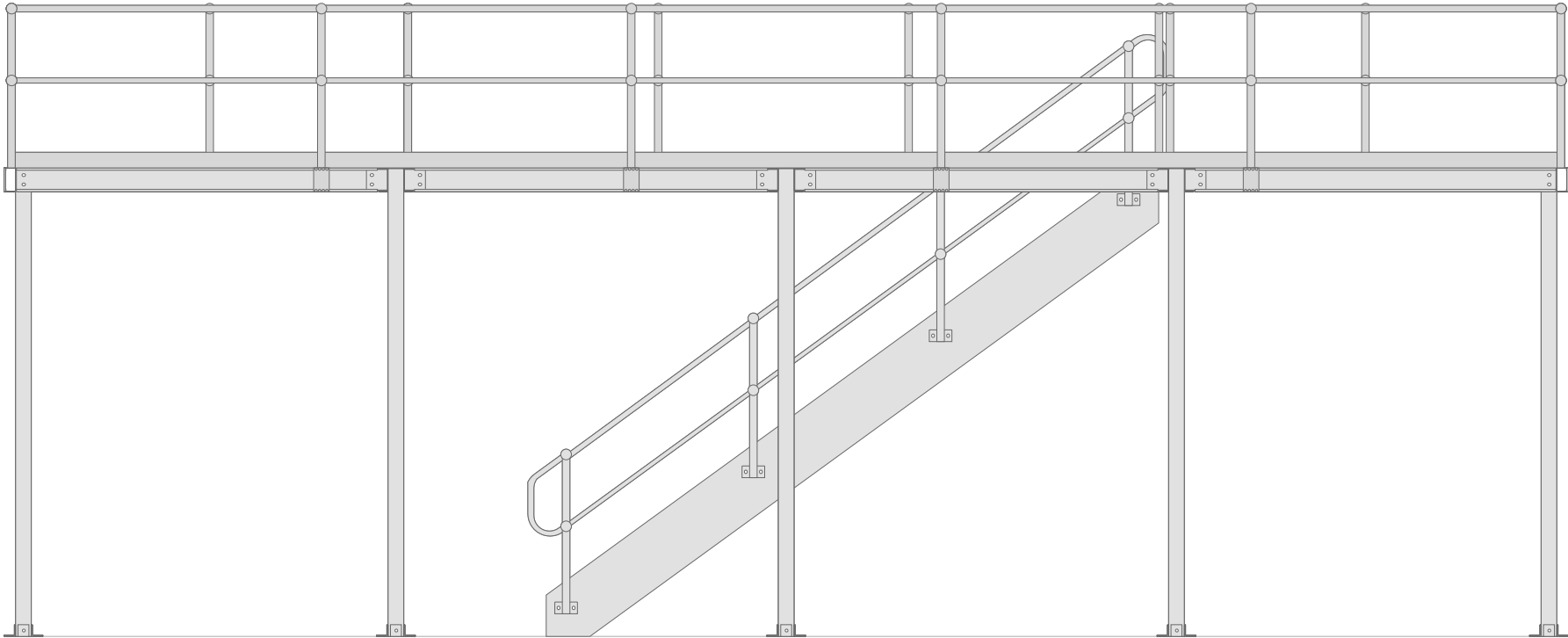


	PROJECT: Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor		PROJECT NUMBER: 6462		© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale. Powered by dm3Solutions.com			
	CLIENT: Example Customer		DRAWN BY: dm3 Solutions					
	ADDRESS: Example Street, Suburb WA 6000		DRAWN DATE: 2022-09-28		ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 3 of 27

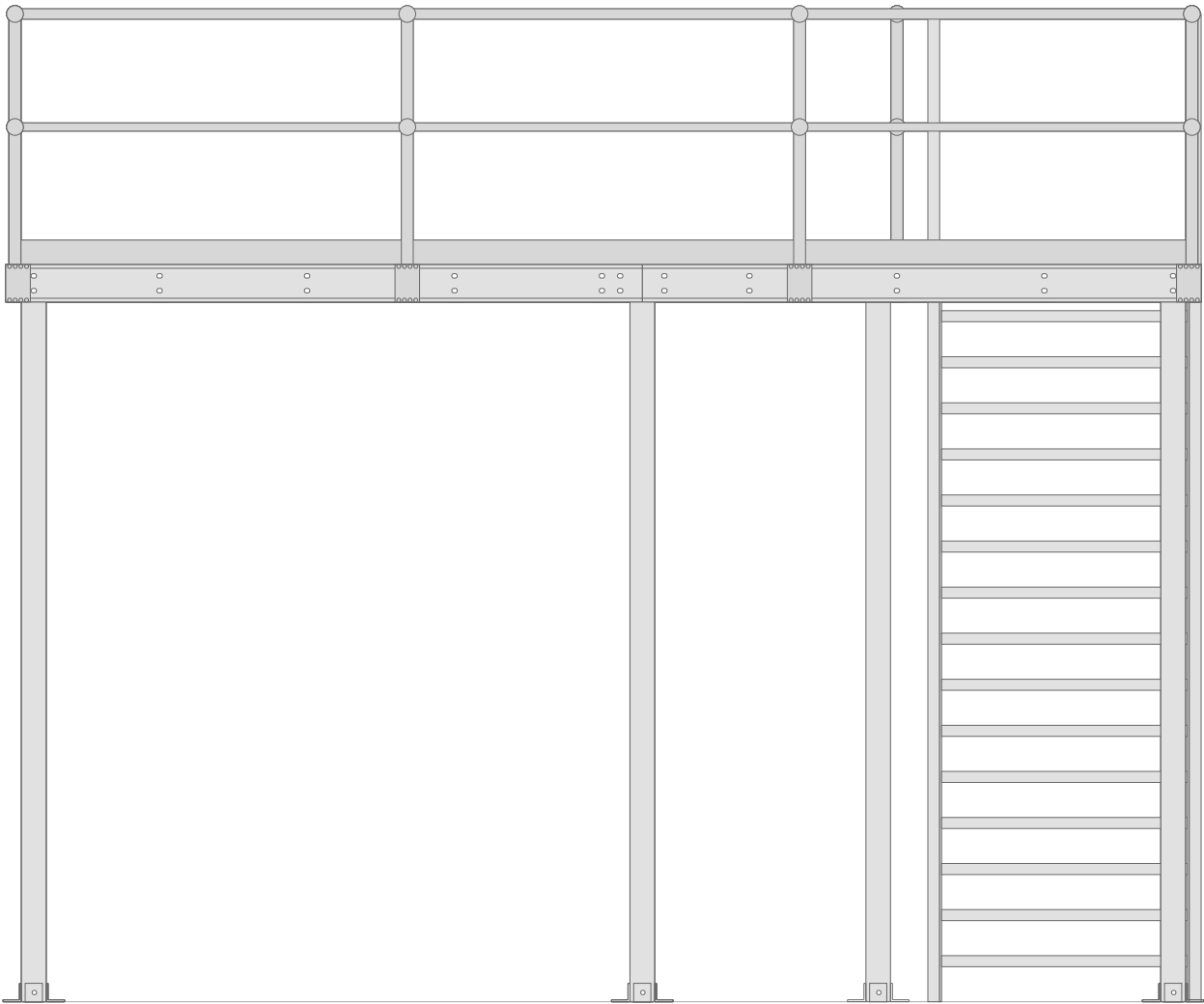


Clearance under Joists: 2848 mm

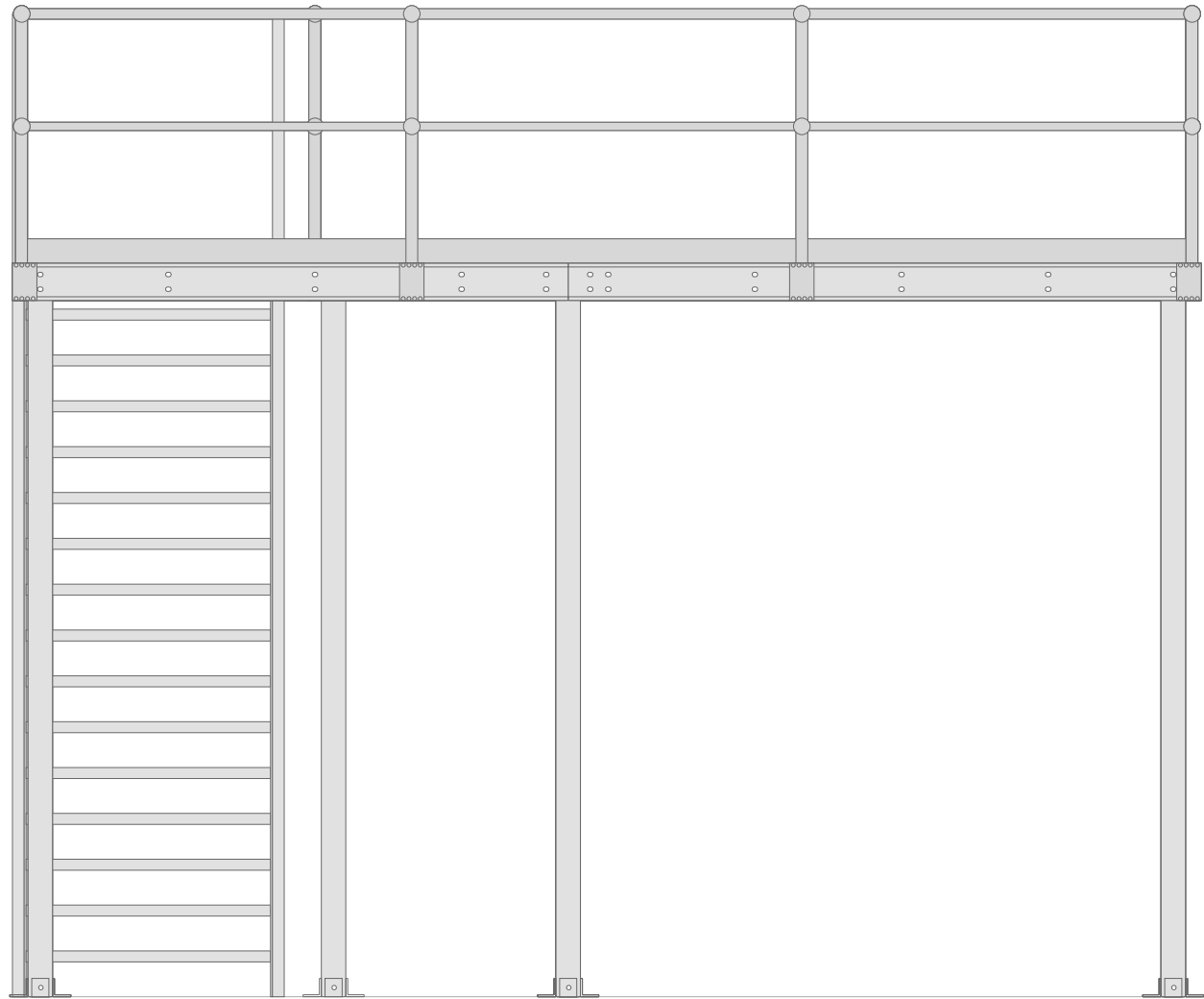
	PROJECT: Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor	PROJECT NUMBER: 6462	© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale. Powered by dm3Solutions.com			
	CLIENT: Example Customer	DRAWN BY: dm3 Solutions				
	ADDRESS: Example Street, Suburb WA 6000	DRAWN DATE: 2022-09-28	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 4 of 27




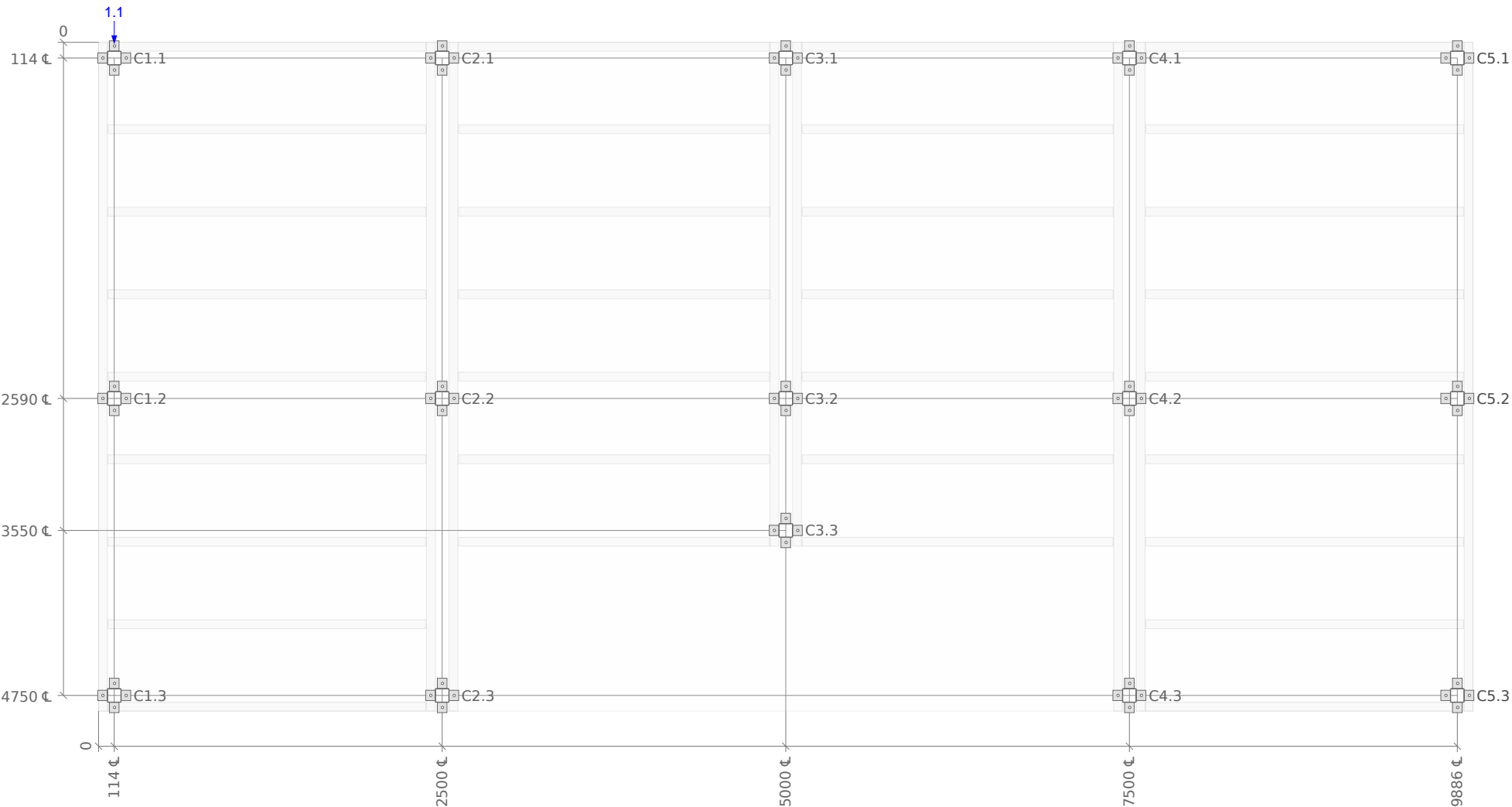
PROJECT: Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor	PROJECT NUMBER: 6462	© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale. Powered by dm3Solutions.com			
CLIENT: Example Customer	DRAWN BY: dm3 Solutions				
ADDRESS: Example Street, Suburb WA 6000	DRAWN DATE: 2022-09-28	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 5 of 27

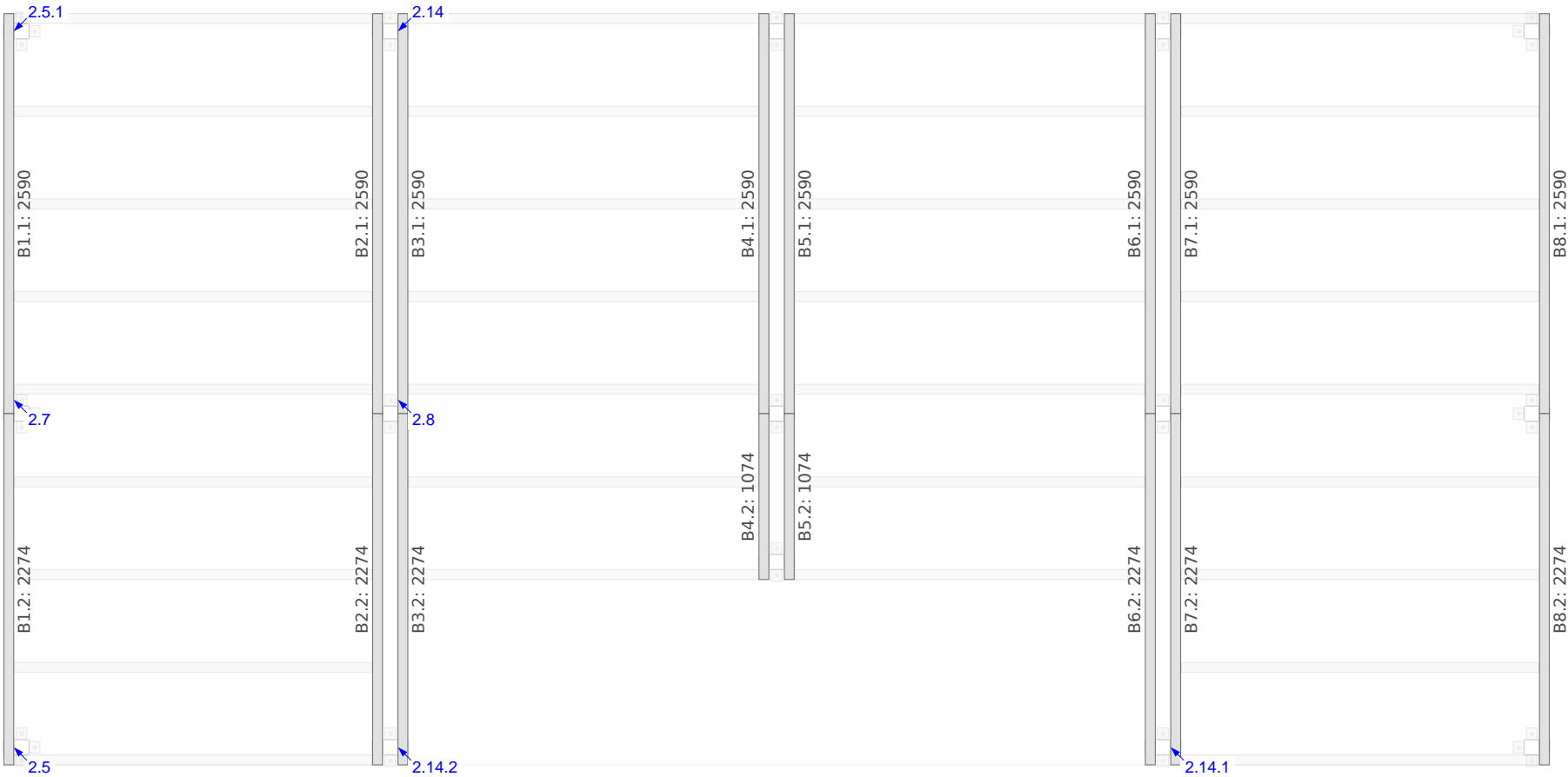


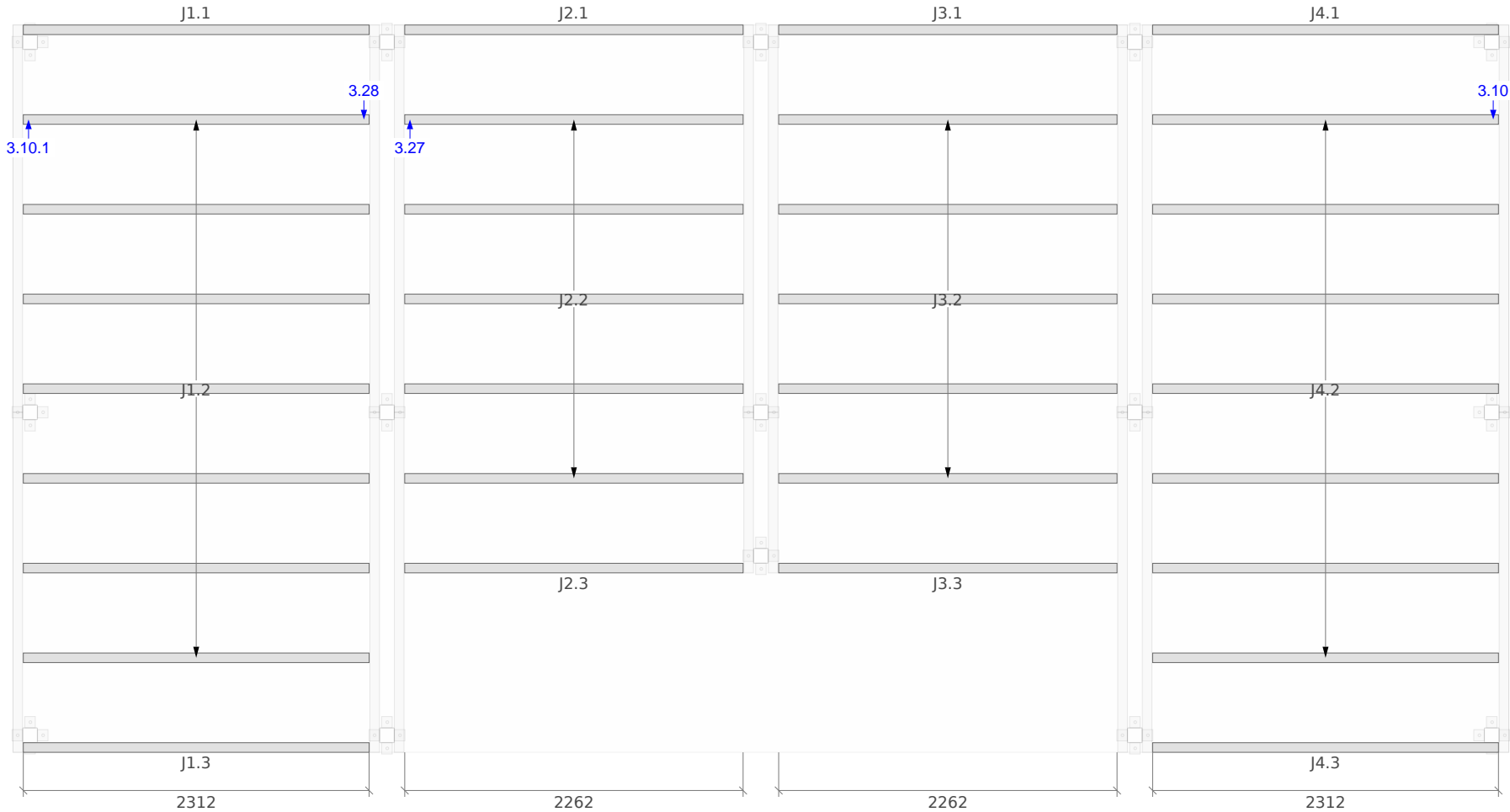
PROJECT: Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor	PROJECT NUMBER: 6462	© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale. Powered by dm3Solutions.com				
CLIENT: Example Customer	DRAWN BY: dm3 Solutions					
ADDRESS: Example Street, Suburb WA 6000	DRAWN DATE: 2022-09-28	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 6 of 27	



	PROJECT: Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor		PROJECT NUMBER: 6462		© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale. Powered by dm3Solutions.com			
	CLIENT: Example Customer		DRAWN BY: dm3 Solutions					
	ADDRESS: Example Street, Suburb WA 6000		DRAWN DATE: 2022-09-28		ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 7 of 27



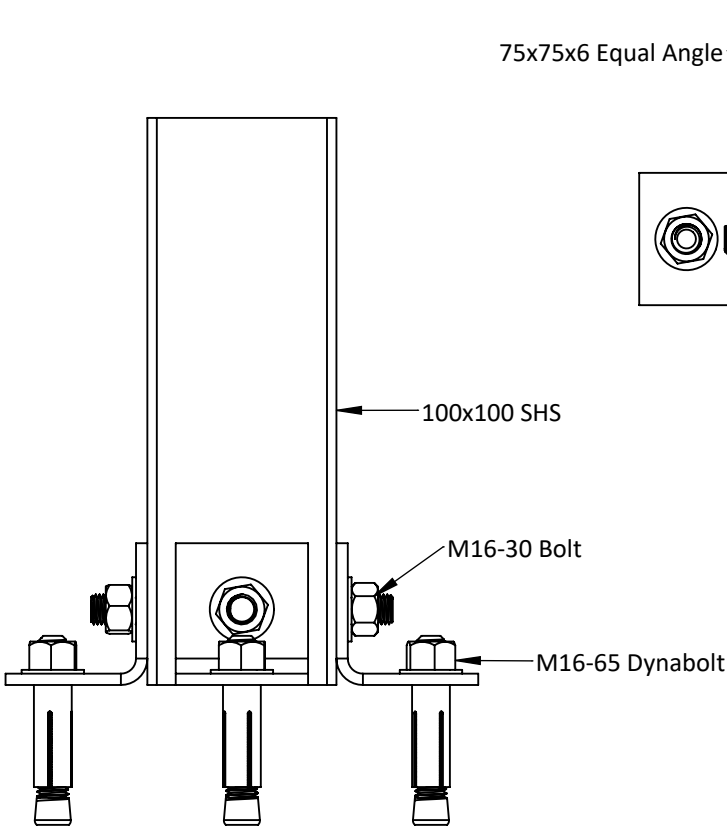




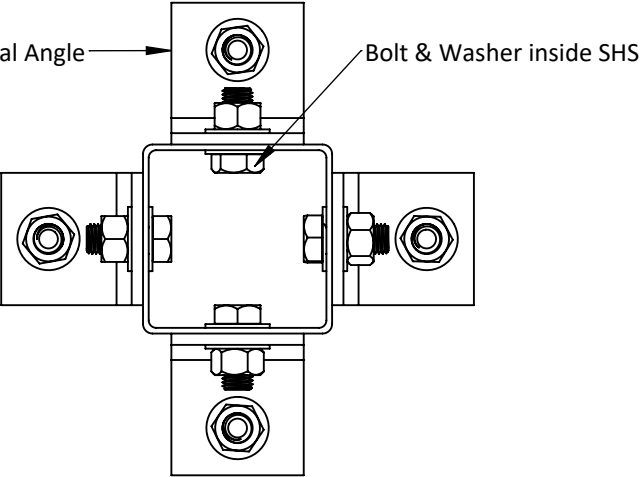
« Detail 1.1: 100 SHS with EA Brackets Fixed with Bolts and Masonry Sleeve Anchors



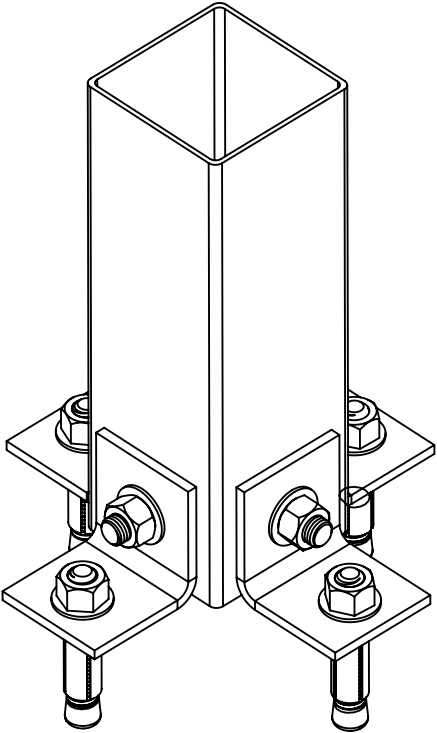
Video: Scan or
Right-Click



ELEVATION



PLAN



ISOMETRIC



PROJECT:
Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor

CLIENT:
Example Customer

ADDRESS:
Example Street, Suburb WA 6000

PROJECT NUMBER:
6462

DRAWN BY:
dm3 Solutions

DRAWN DATE:
2022-09-28

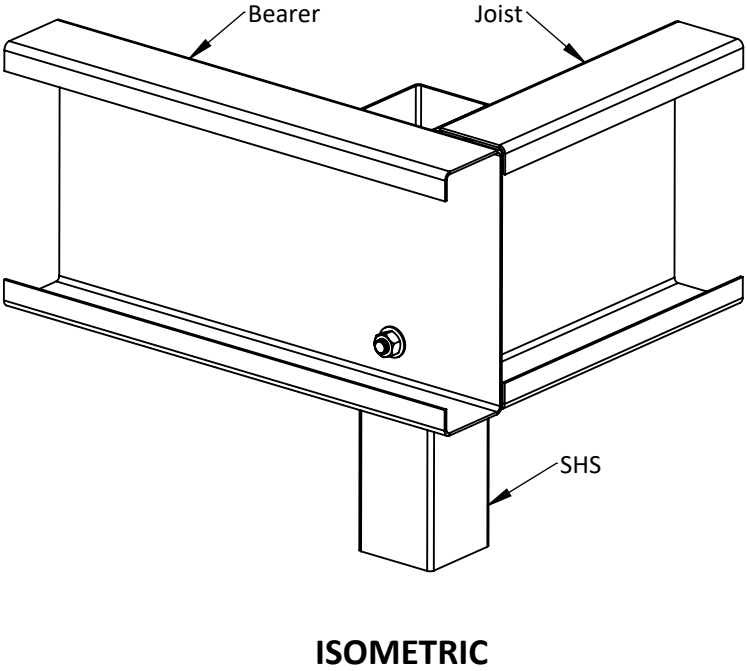
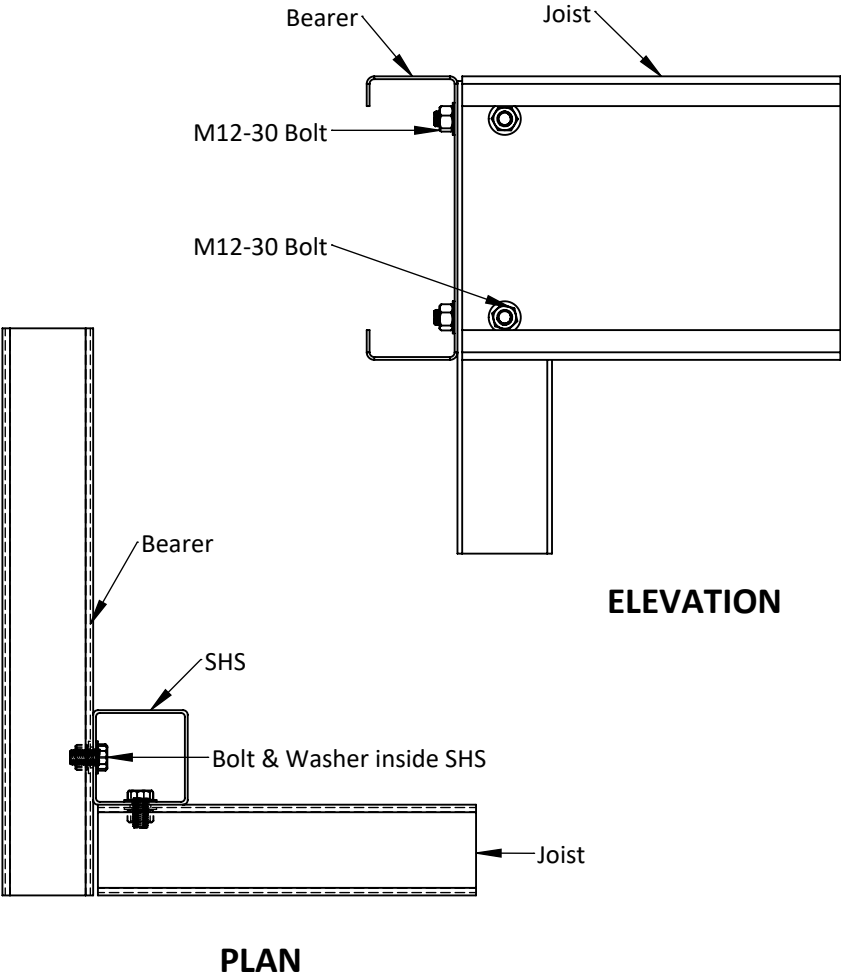
© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale.


Powered by [dm3Solutions.com](https://dm3solutions.com)

ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 11 of 27
-------------	-------------	---------------	----------------------------



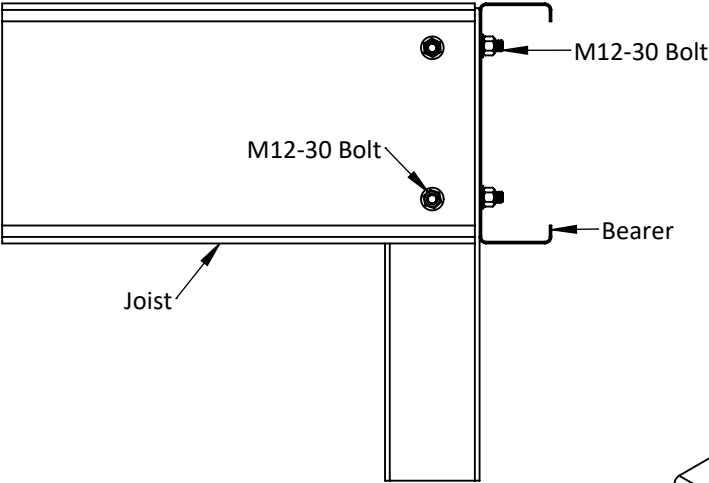
Video: Scan or
Right-Click



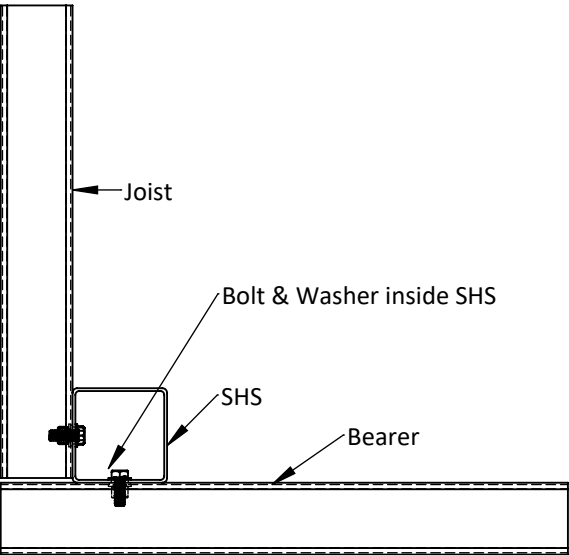
	PROJECT: Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor	PROJECT NUMBER: 6462	© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale. Powered by dm3Solutions.com			
	CLIENT: Example Customer	DRAWN BY: dm3 Solutions				
	ADDRESS: Example Street, Suburb WA 6000	DRAWN DATE: 2022-09-28	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 12 of 27



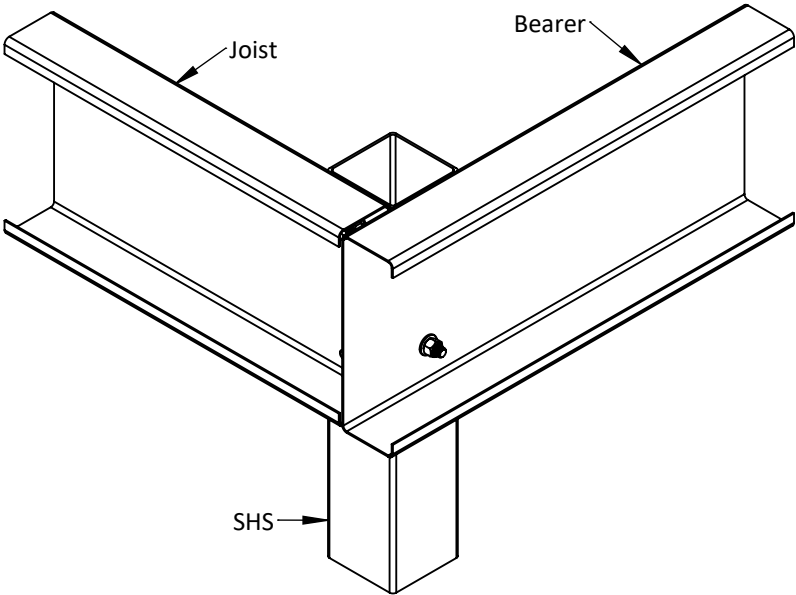
Video: Scan or
Right-Click



ELEVATION



PLAN



ISOMETRIC

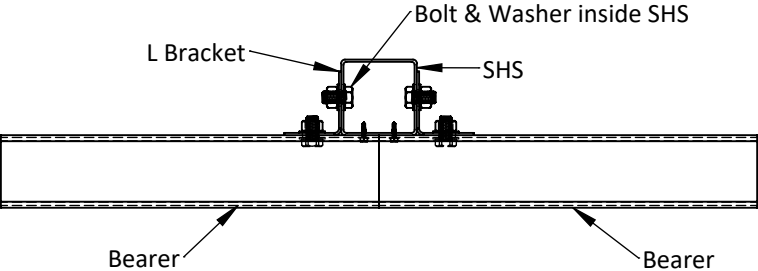


PROJECT: Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor	PROJECT NUMBER: 6462	© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale. Powered by dm3Solutions.com				
CLIENT: Example Customer	DRAWN BY: dm3 Solutions					
ADDRESS: Example Street, Suburb WA 6000	DRAWN DATE: 2022-09-28	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 13 of 27	

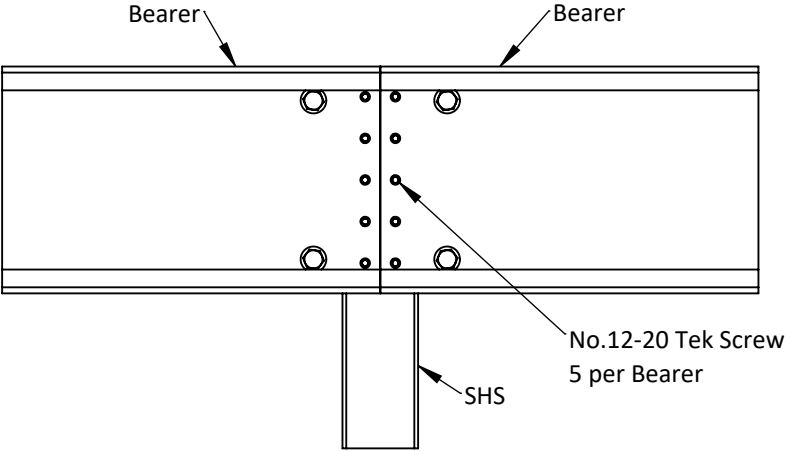
« Detail 2.7: Single Bearers Joining at Post



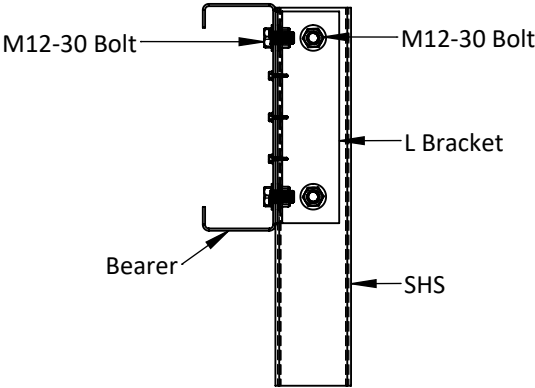
Video: Scan or
Right-Click



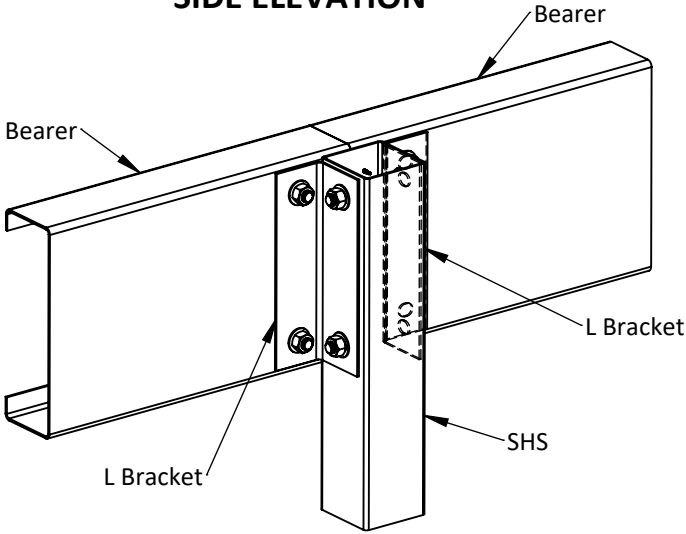
PLAN



FRONT ELEVATION



SIDE ELEVATION



ISOMETRIC

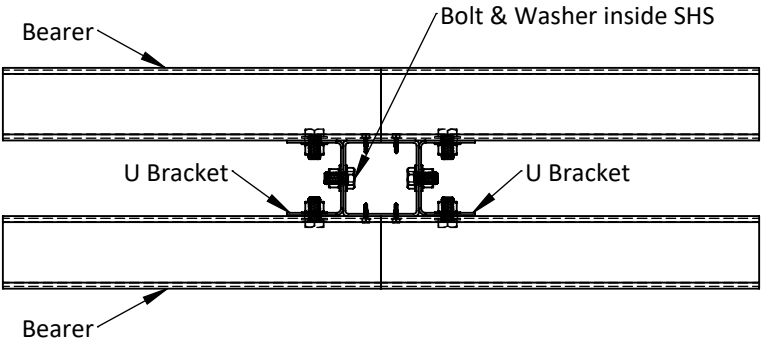


PROJECT: Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor	PROJECT NUMBER: 6462	© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale. Powered by dm3Solutions.com			
CLIENT: Example Customer	DRAWN BY: dm3 Solutions				
ADDRESS: Example Street, Suburb WA 6000	DRAWN DATE: 2022-09-28	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 14 of 27

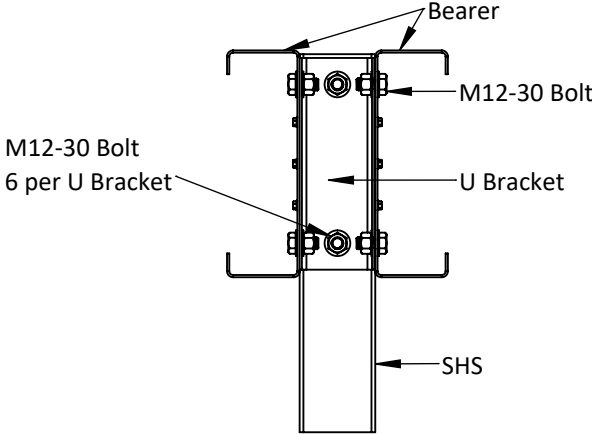
« Detail 2.8: Back To Back Bearers Joining at Post



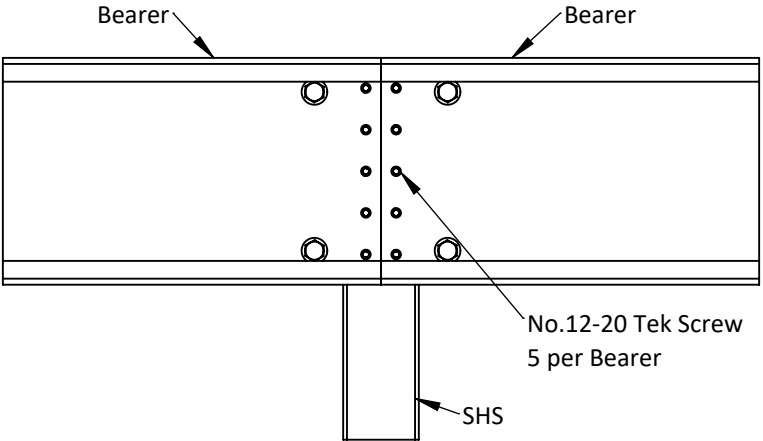
Video: Scan or
Right-Click



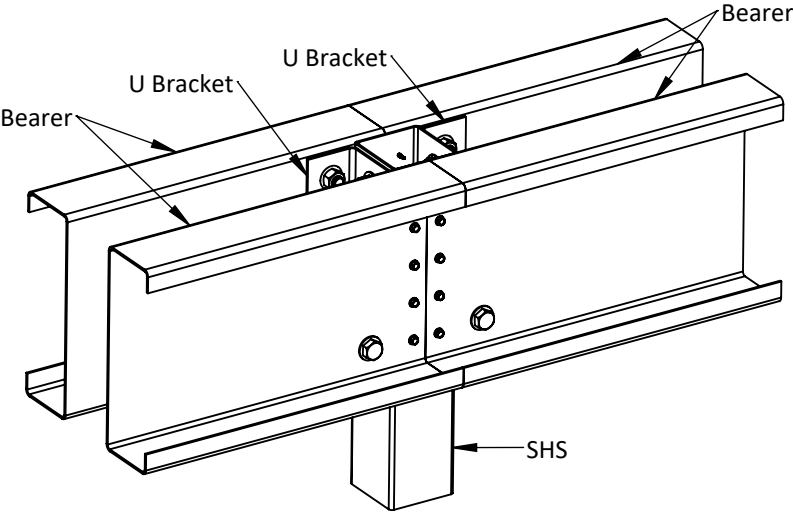
PLAN



SIDE ELEVATION



FRONT ELEVATION



ISOMETRIC



PROJECT:
Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor

CLIENT:
Example Customer

ADDRESS:
Example Street, Suburb WA 6000

PROJECT NUMBER:
6462

DRAWN BY:
dm3 Solutions

DRAWN DATE:
2022-09-28

© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale.

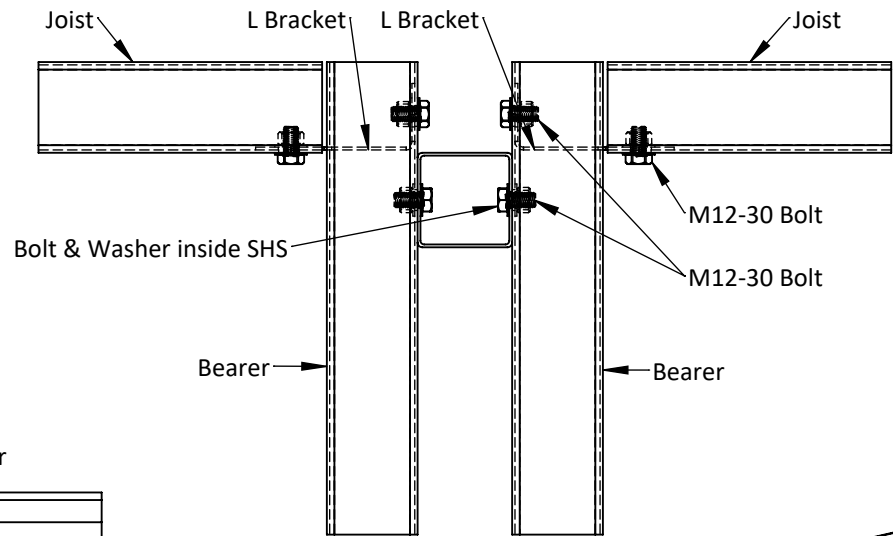
Powered by [dm3Solutions.com](https://dm3solutions.com)

ISSUE:	SIZE:	SCALE:	DRAWING NUMBER
1	A4	NTS	15 of 27

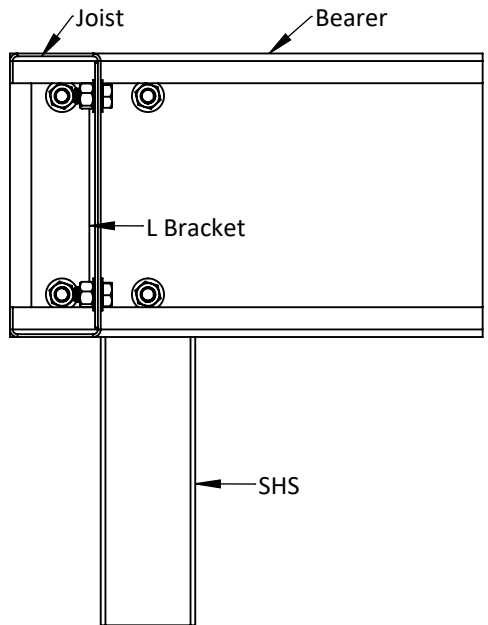
« Detail 2.14: Joist to Back to Back Bearers to Post Connection



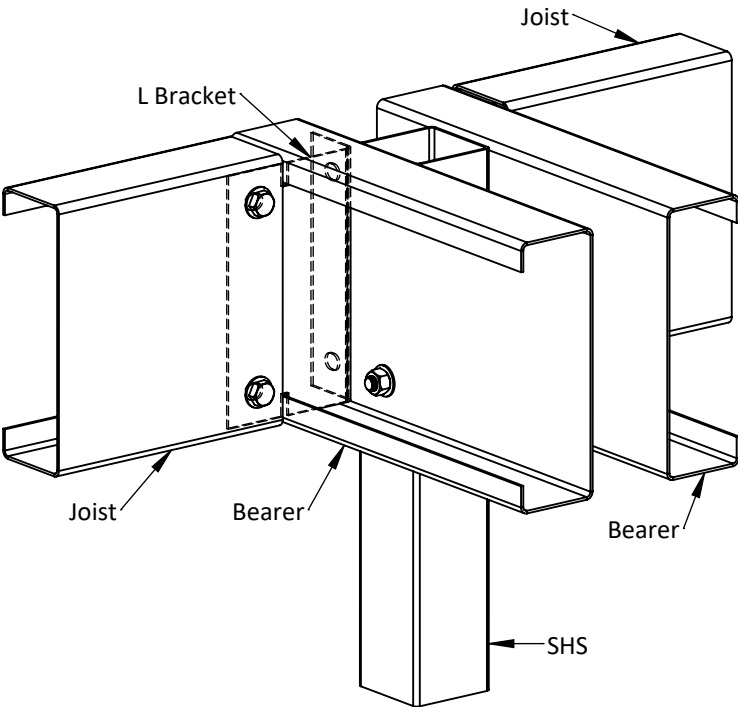
Video: Scan or
Right-Click



PLAN



ELEVATION



ISOMETRIC

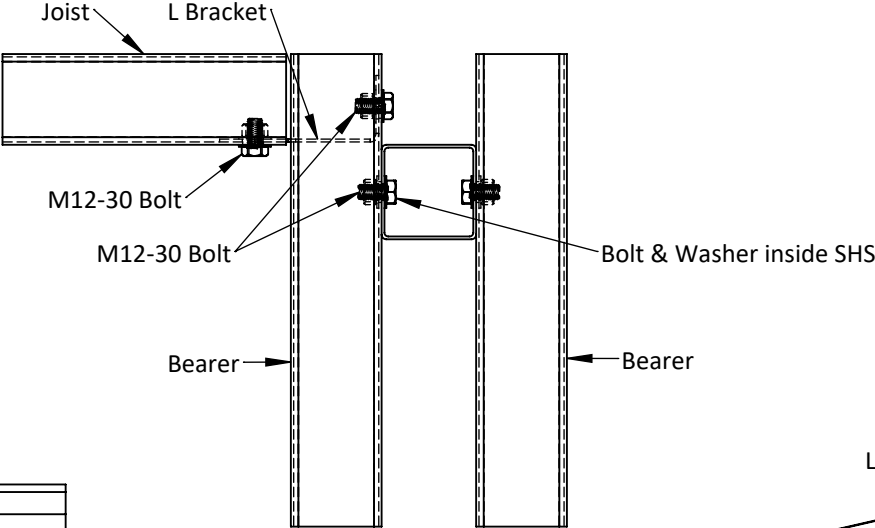


PROJECT: Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor		PROJECT NUMBER: 6462		© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale. Powered by dm3Solutions.com			
CLIENT: Example Customer		DRAWN BY: dm3 Solutions					
ADDRESS: Example Street, Suburb WA 6000		DRAWN DATE: 2022-09-28		ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 16 of 27

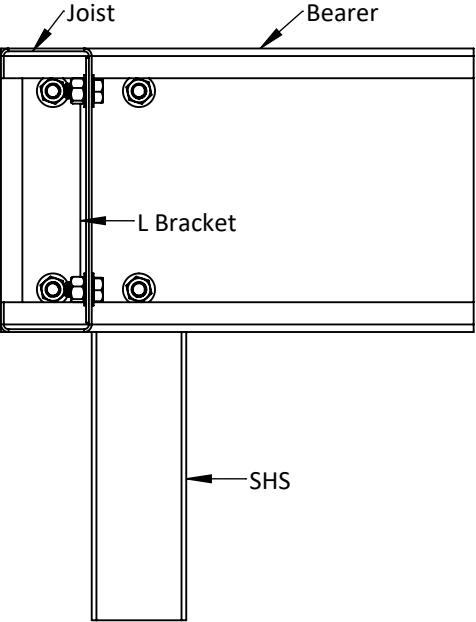
« Detail 2.14.1: Joist to Back to Back Bearers to Post Connection



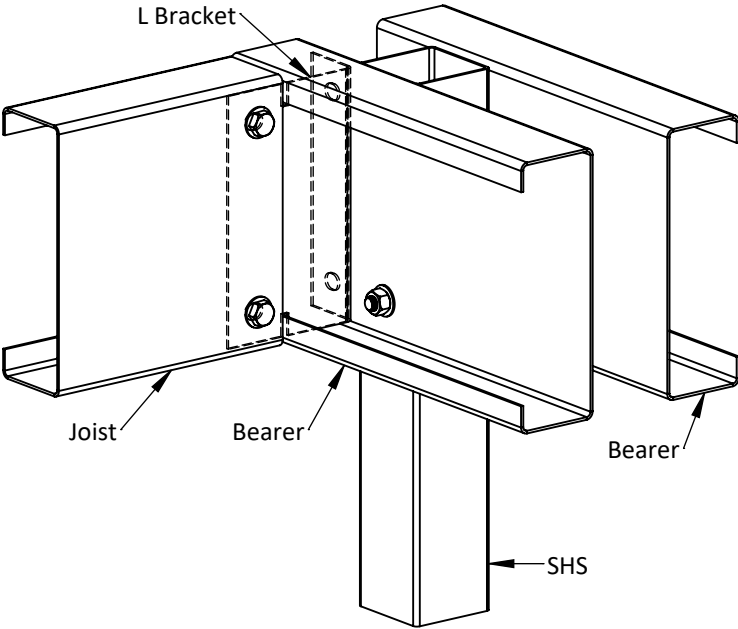
Video: Scan or
Right-Click



PLAN



ELEVATION



ISOMETRIC



PROJECT:
Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor

CLIENT:
Example Customer

ADDRESS:
Example Street, Suburb WA 6000

PROJECT NUMBER:
6462

DRAWN BY:
dm3 Solutions

DRAWN DATE:
2022-09-28

© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale.

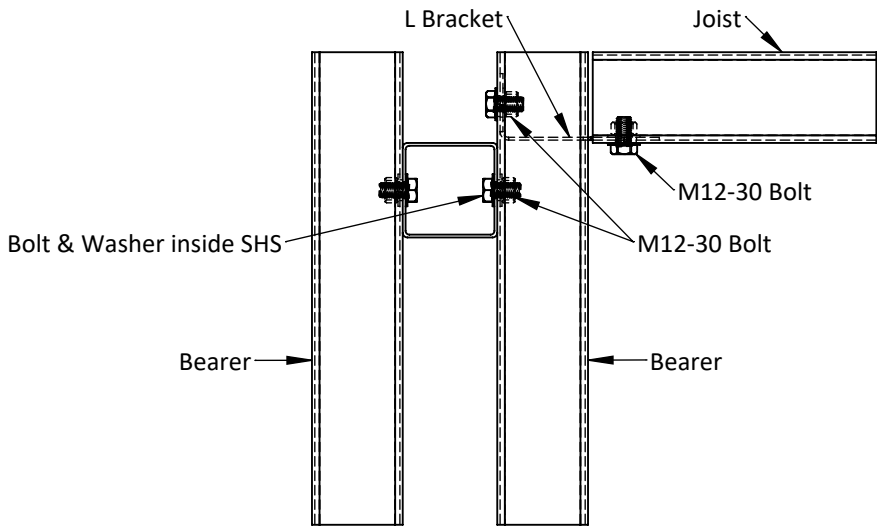
Powered by dm3solutions.com

ISSUE:	SIZE:	SCALE:	DRAWING NUMBER
1	A4	NTS	17 of 27

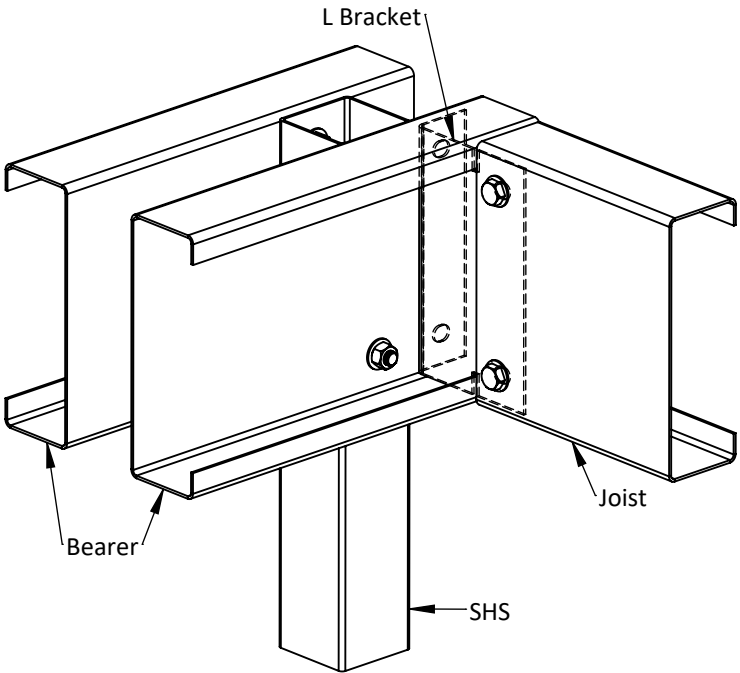
« Detail 2.14.2: Joist to Back to Back Bearers to Post Connection



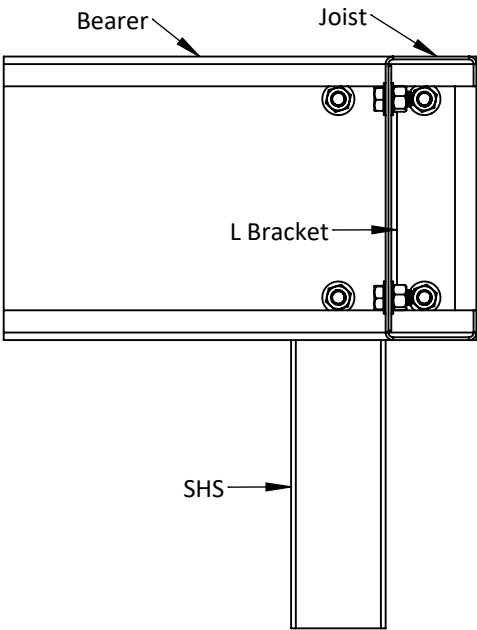
Video: Scan or
Right-Click



PLAN



ISOMETRIC



ELEVATION



PROJECT:
Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor

CLIENT:
Example Customer

ADDRESS:
Example Street, Suburb WA 6000

PROJECT NUMBER:
6462

DRAWN BY:
dm3 Solutions

DRAWN DATE:
2022-09-28

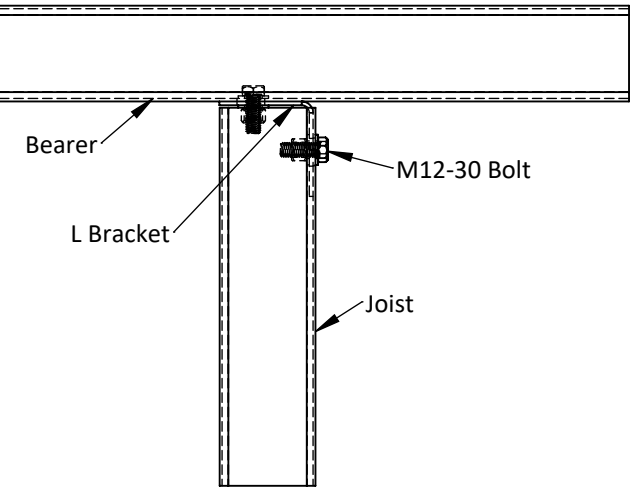
© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale.

Powered by dm3solutions.com

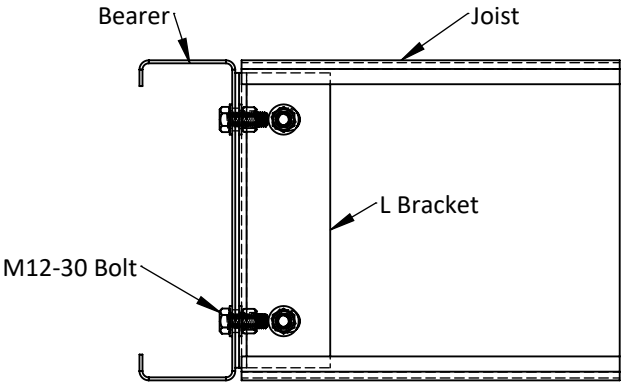
ISSUE:	SIZE:	SCALE:	DRAWING NUMBER
1	A4	NTS	18 of 27



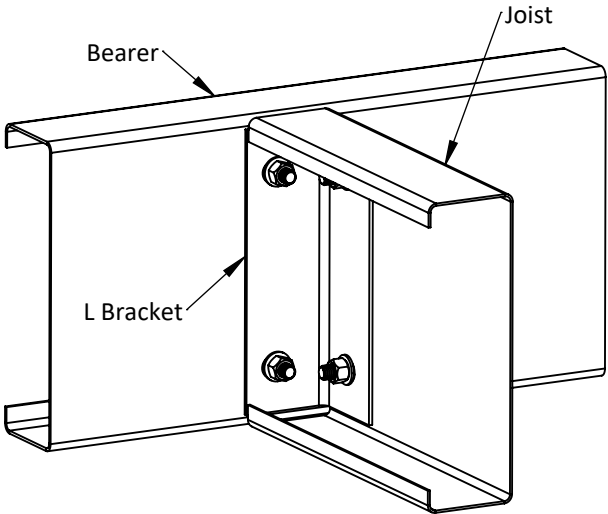
Video: Scan or
Right-Click



PLAN



ELEVATION



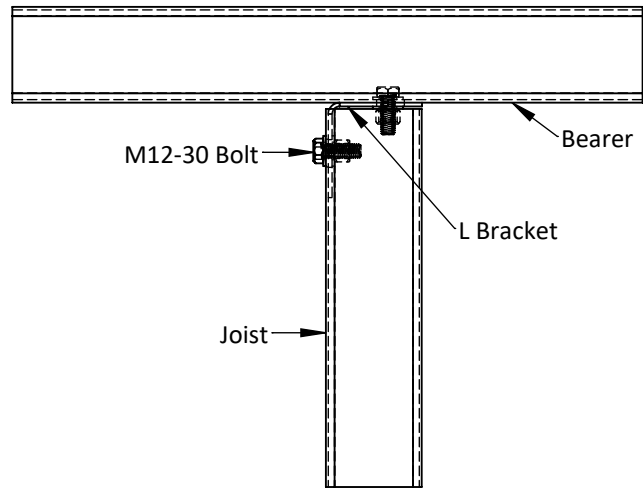
ISOMETRIC



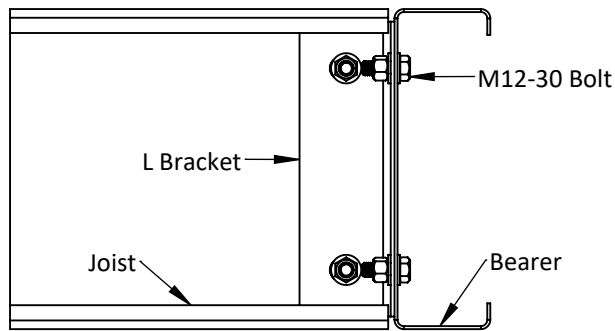
PROJECT: Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor	PROJECT NUMBER: 6462	© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale. Powered by dm3Solutions.com			
CLIENT: Example Customer	DRAWN BY: dm3 Solutions				
ADDRESS: Example Street, Suburb WA 6000	DRAWN DATE: 2022-09-28	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 19 of 27



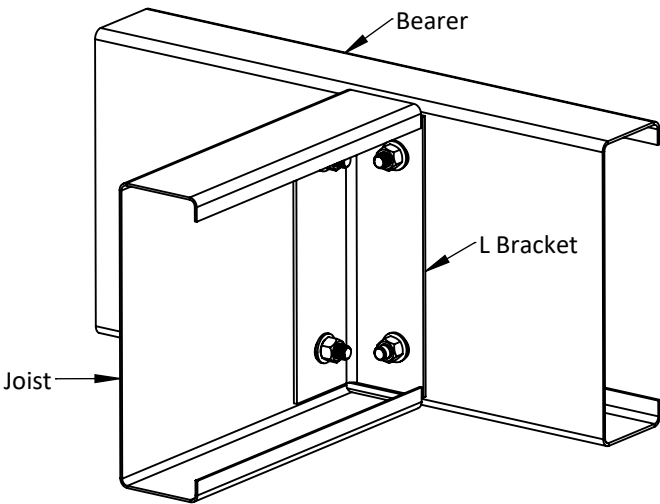
Video: Scan or
Right-Click



PLAN



ELEVATION

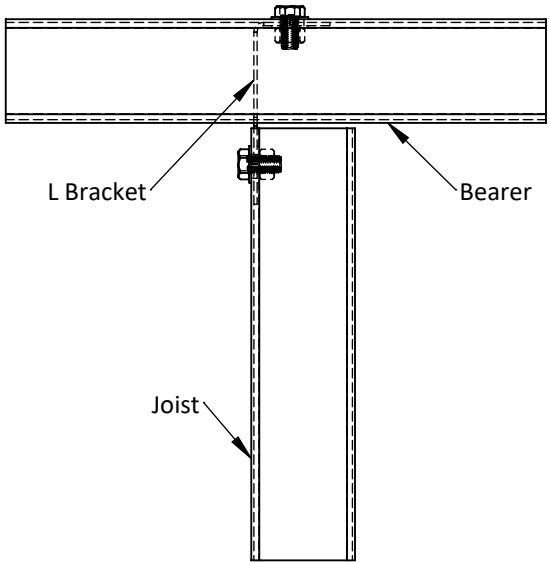


ISOMETRIC

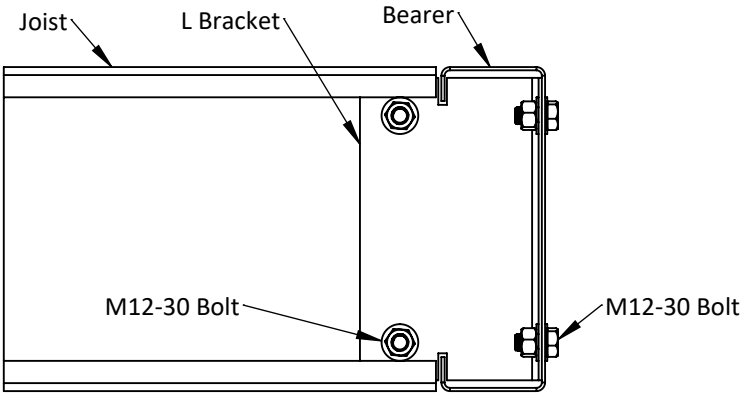
	PROJECT: Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor	PROJECT NUMBER: 6462	© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale. Powered by dm3Solutions.com			
	CLIENT: Example Customer	DRAWN BY: dm3 Solutions				
	ADDRESS: Example Street, Suburb WA 6000	DRAWN DATE: 2022-09-28	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 20 of 27



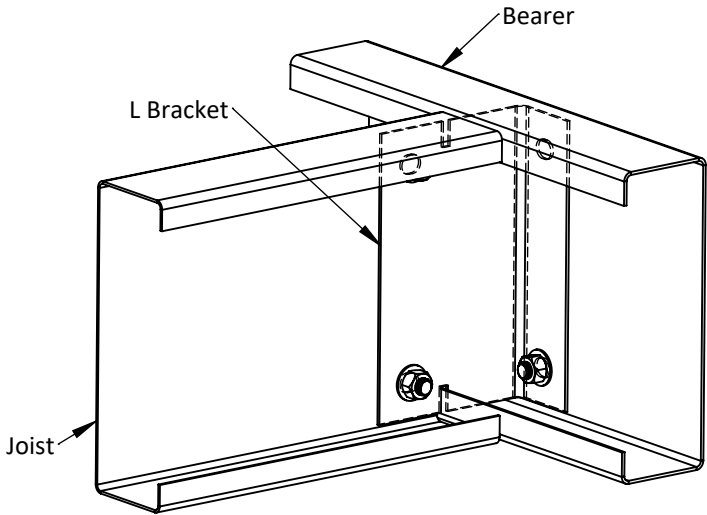
Video: Scan or
Right-Click



PLAN



ELEVATION



ISOMETRIC



PROJECT:
Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor

CLIENT:
Example Customer

ADDRESS:
Example Street, Suburb WA 6000

PROJECT NUMBER:
6462

DRAWN BY:
dm3 Solutions

DRAWN DATE:
2022-09-28

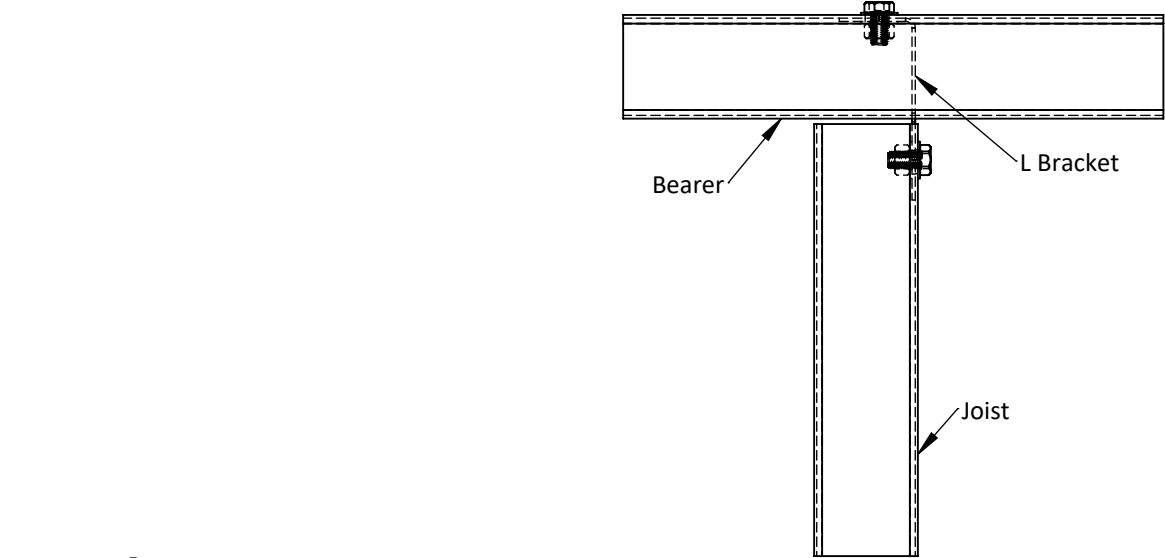
© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale.

Powered by [dm3Solutions.com](https://dm3solutions.com)

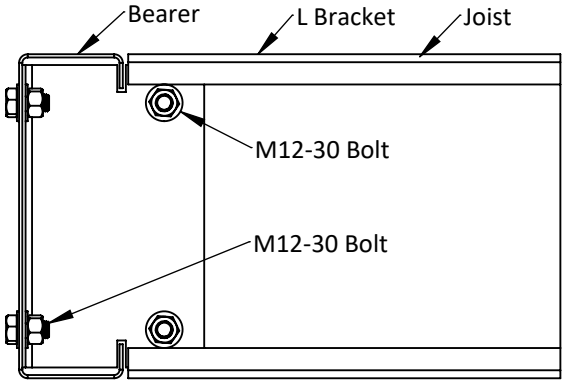
ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 21 of 27
-------------	-------------	---------------	----------------------------



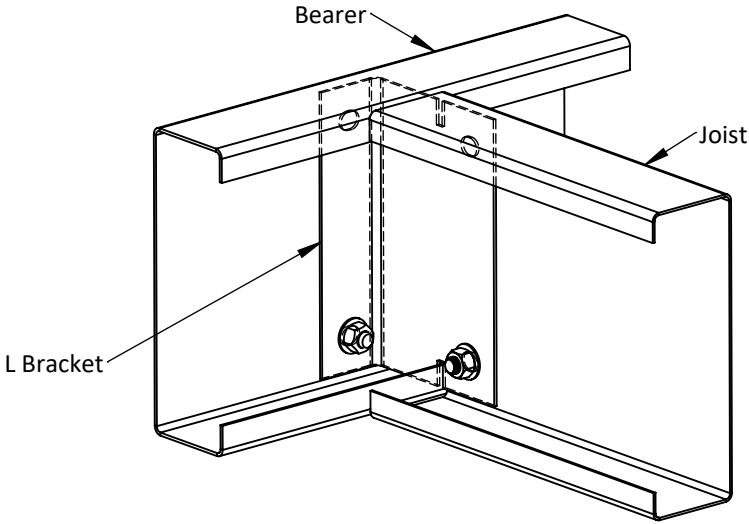
Video: Scan or
Right-Click



PLAN



ELEVATION

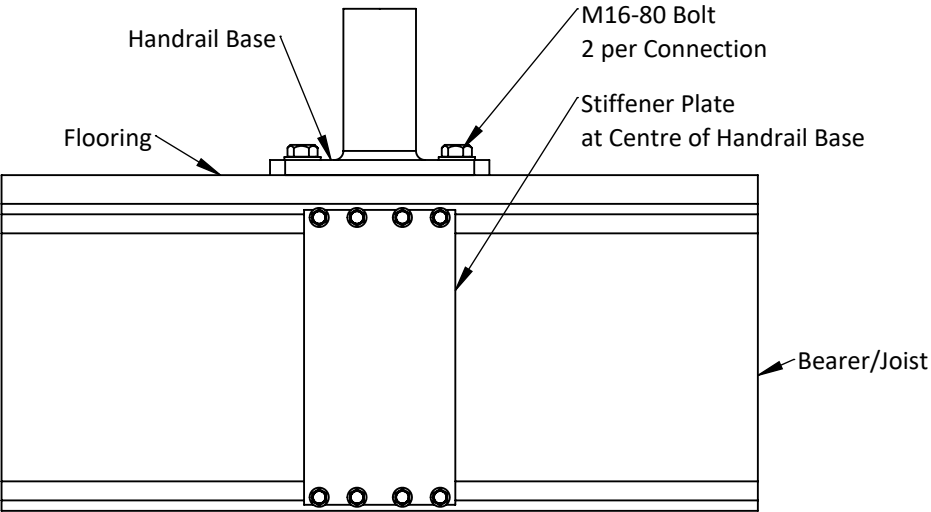


ISOMETRIC

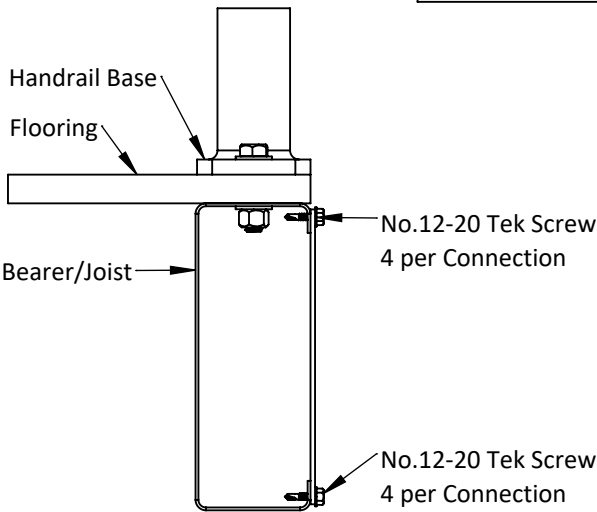
	PROJECT: Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor	PROJECT NUMBER: 6462	© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale. Powered by dm3Solutions.com			
	CLIENT: Example Customer	DRAWN BY: dm3 Solutions				
	ADDRESS: Example Street, Suburb WA 6000	DRAWN DATE: 2022-09-28	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 22 of 27



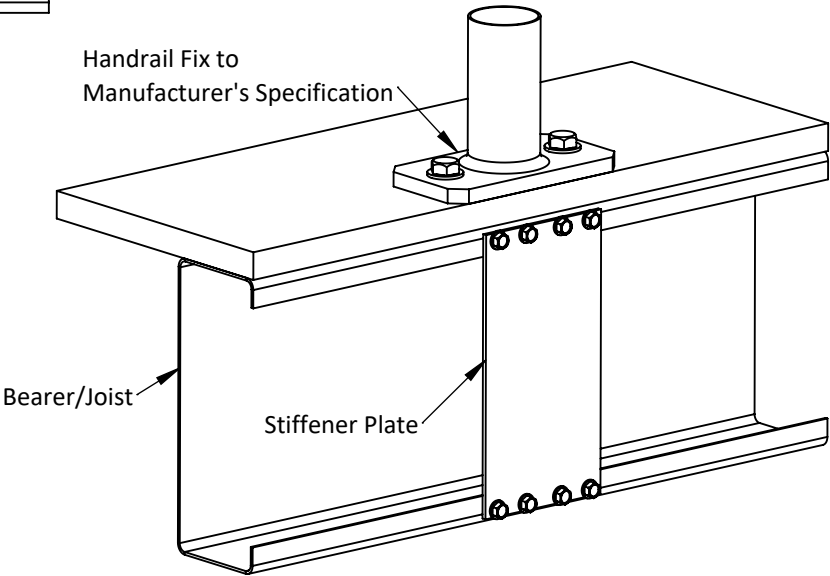
Video: Scan or
Right-Click



FRONT ELEVATION



SIDE ELEVATION



ISOMETRIC



PROJECT:
Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor

CLIENT:
Example Customer

ADDRESS:
Example Street, Suburb WA 6000

PROJECT NUMBER:
6462

DRAWN BY:
dm3 Solutions

DRAWN DATE:
2022-09-28

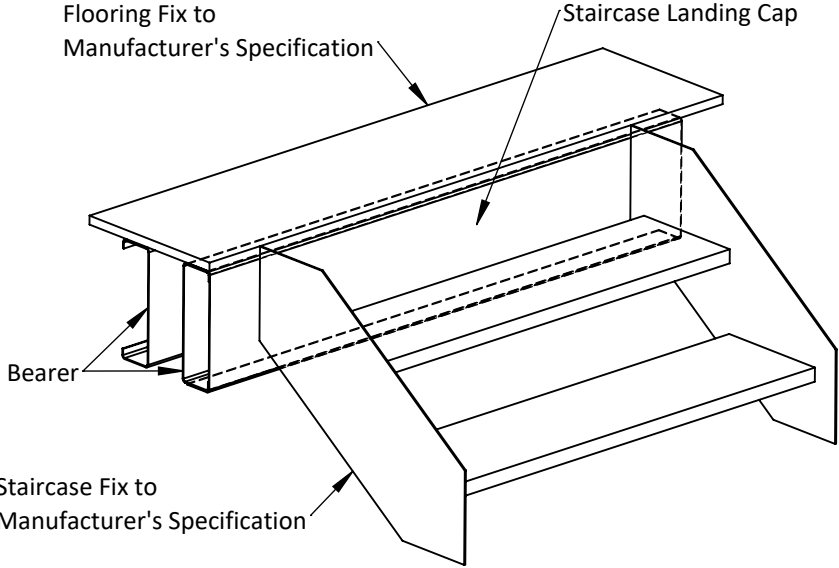
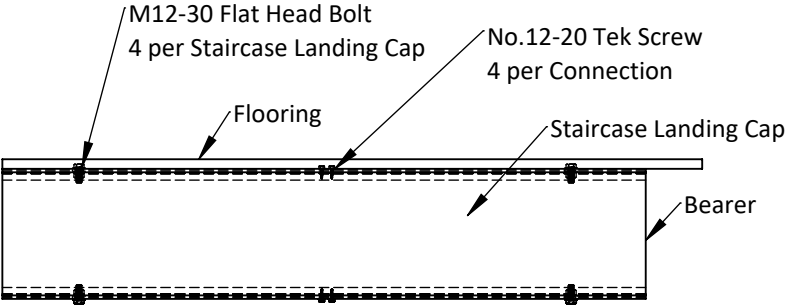
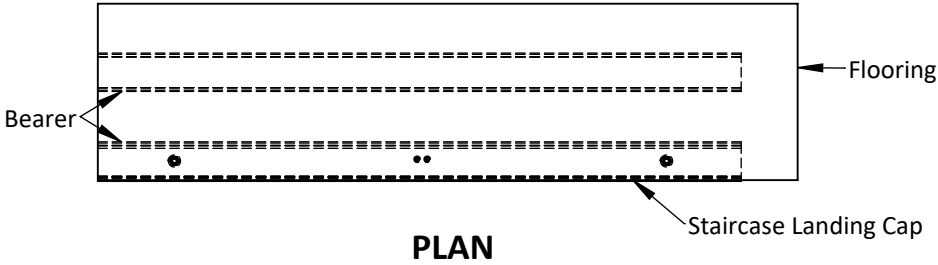
© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale.

Powered by [dm3Solutions.com](https://dm3solutions.com)

ISSUE:	SIZE:	SCALE:	DRAWING NUMBER
1	A4	NTS	23 of 27



Video: Scan or
Right-Click



ISOMETRIC

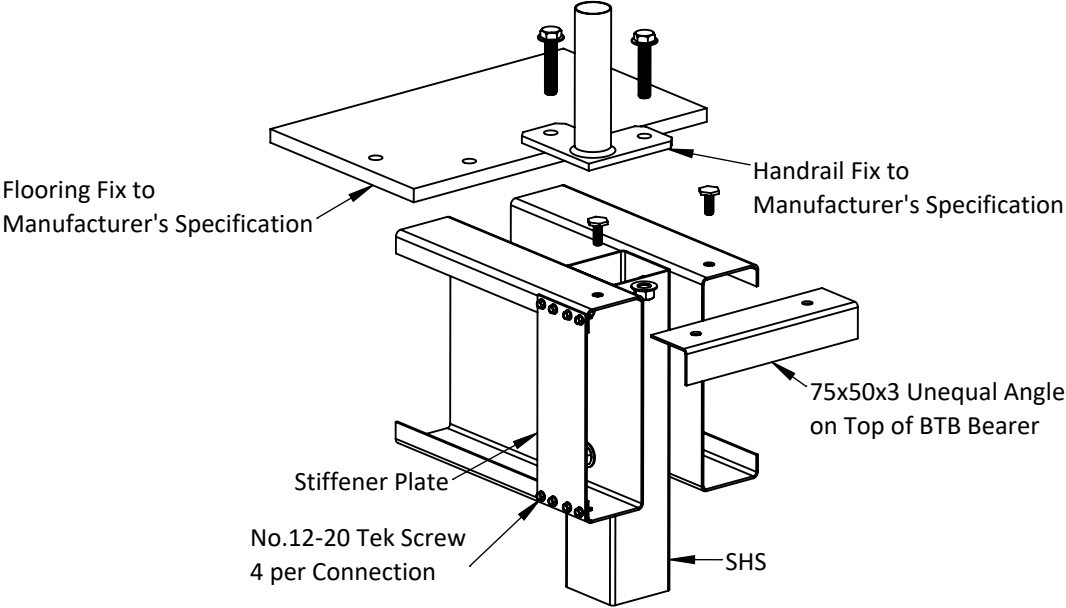


PROJECT: Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor	PROJECT NUMBER: 6462	© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale. <div>Powered by dm3Solutions.com</div>			
CLIENT: Example Customer	DRAWN BY: dm3 Solutions				
ADDRESS: Example Street, Suburb WA 6000	DRAWN DATE: 2022-09-28	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 24 of 27

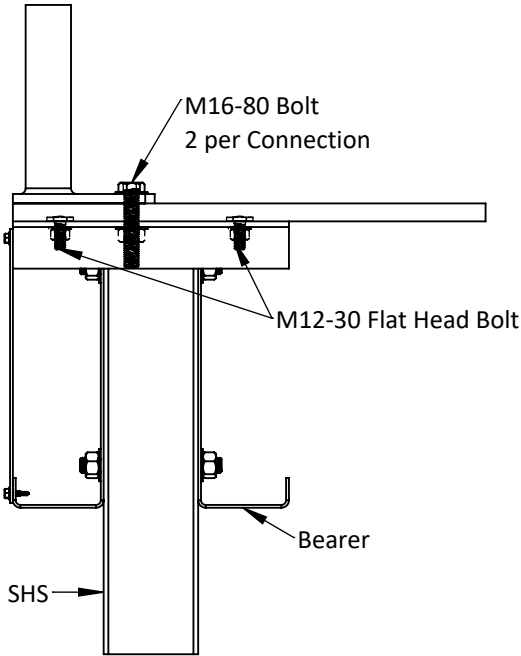
« Detail 4.22.1: External Corner Handrail Upright Connection Detail



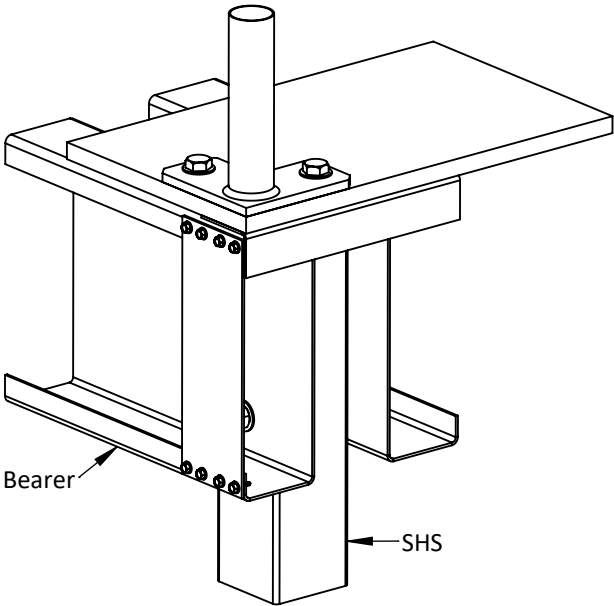
Video: Scan or
Right-Click



EXPLODED VIEW



ELEVATION

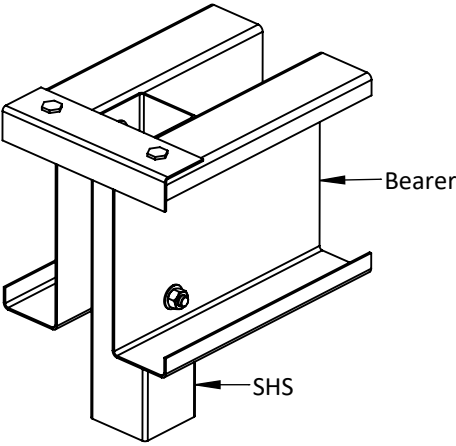


ISOMETRIC



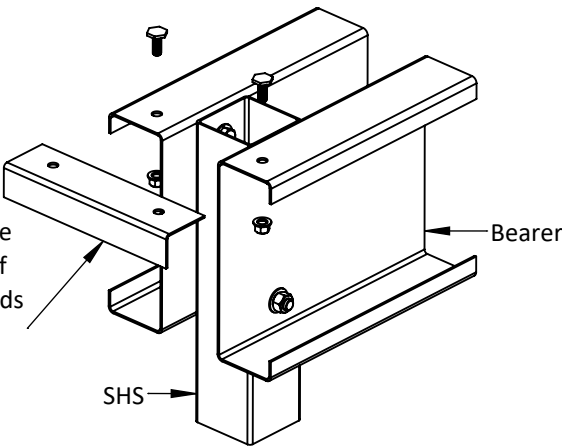
PROJECT: Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor	PROJECT NUMBER: 6462	© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale. Powered by dm3Solutions.com			
CLIENT: Example Customer	DRAWN BY: dm3 Solutions				
ADDRESS: Example Street, Suburb WA 6000	DRAWN DATE: 2022-09-28	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 25 of 27

« Detail 4.25: Handrail Baseplate Bridging Connection Detail

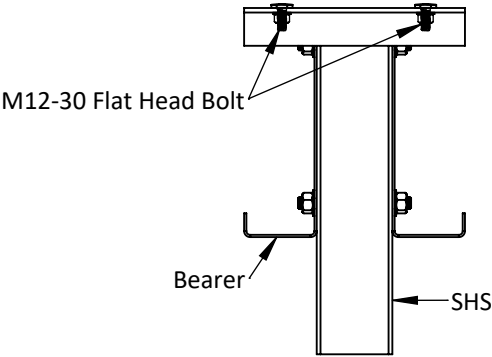


ISOMETRIC
(End Unequal Angle)

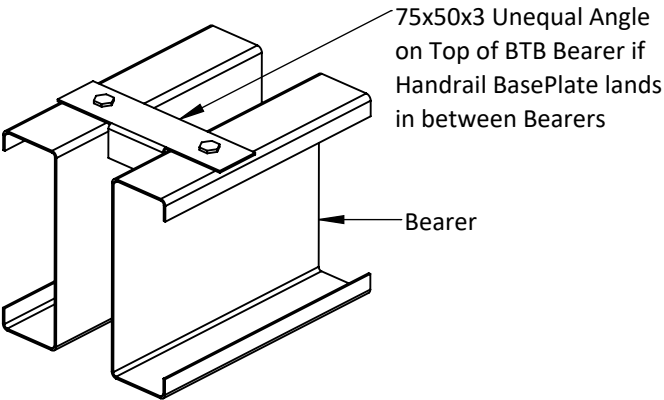
75x50x3 Unequal Angle
on Top of BTB Bearer if
Handrail BasePlate lands
in between Bearers



EXPLODED VIEW
(End Unequal Angle)

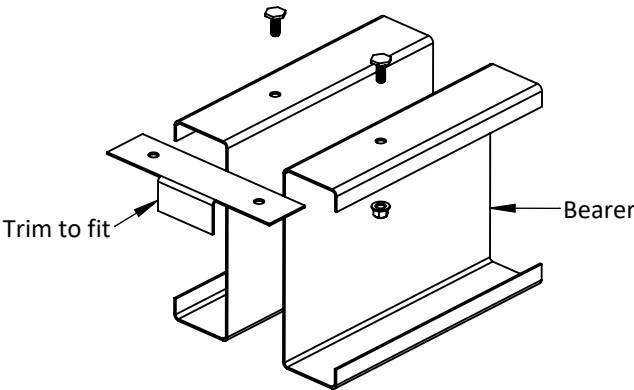


ELEVATION
(End Unequal Angle)

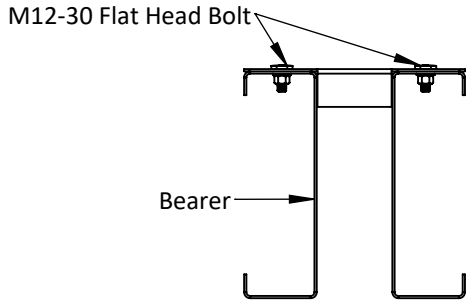


ISOMETRIC
(Internal Unequal Angle)

75x50x3 Unequal Angle
on Top of BTB Bearer if
Handrail BasePlate lands
in between Bearers



EXPLODED VIEW
(Internal Unequal Angle)



ELEVATION
(Internal Unequal Angle)



PROJECT:
Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor

CLIENT:
Example Customer

ADDRESS:
Example Street, Suburb WA 6000

PROJECT NUMBER:
6462


DRAWN BY:
dm3 Solutions

DRAWN DATE:
2022-09-28

© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale.

Powered by [dm3Solutions.com](https://dm3solutions.com)

ISSUE:	SIZE:	SCALE:	DRAWING NUMBER
1	A4	NTS	26 of 27

Technical Data		Capacity Required	7.247 kN				
Dead Load	0.3 kPa	Capacity	30.2 kN · 2 x M12 4.6/S Shear Capacity				
Live Load	3.0 kPa	Connection Type	BTB Bearer to Post				
UDL	4.860 kPa	Components	2 x M12 4.6/S Bolts				
Concentrated Load	4.5 kN	Capacity Required	7.247 kN				
Total Floor Area	42.6 m²	Capacity	30.2 kN · 2 x M12 4.6/S Shear Capacity				
Lateral Load	12.422 kN	Connection Type	Bearer to Internal Post				
Joist Calculations		Components	2 x M12 4.6/S Bolts · 1 x 3.0 mm Plate · 5 x No. 20 Tek Screws				
Joist · J1.2	C15012	Capacity Required	7.247 kN				
Min Yield Stress · Grade · I _x	500 MPa · G500 · 1.29 x 10 ⁶ mm ⁴ · Min = Minimum	Capacity · Assemblies	30.2 kN · 2 x M12 4.6/S Shear Capacity				
Span · Load Width	2242 mm · 600 mm	Capacity · Tek Screws	28.6 kN · 5 x Tek Screws Shear Capacity				
Capacity · Concentrated	6.021 kN/m	Capacity	58.8 kN				
Distributed	2.916 kN/m	Connection Type	BTB Bearers to Internal Post				
Inward Capacity	6.480 kN/m · Lysaght® & Stramit® Span Tables	Components	1 x M12 4.6/S Bolts · 1 x 3.0 mm Plate · 5 x No. 20 Tek Screws				
Deflection	1.6 mm · 7.5 mm Permitted	Capacity Required	7.247 kN per Bearer				
Vibration	0.9 mm · 2.0 mm Permitted	Capacity · Assemblies	30.2 kN · 2 x M12 4.6/S Shear Capacity				
Bearer Calculations		Capacity · Tek Screws	28.6 kN · 5 x Tek Screws Shear Capacity				
Bearer · B1.1	C15012	Capacity	58.8 kN				
Min Yield Stress · Grade · I _x	500 MPa · G500 · 1.29 x 10 ⁶ mm ⁴	1 x M12 4.6/S Bolt	Web Bearing Capacity				
Span · Load Width	2386 mm · 1250 mm		24.883 kN · 1.5 mm Gauge C-Section Bearing				
Capacity · Concentrated	5.658 kN/m		31.519 kN · 1.9 mm Gauge C-Section Bearing				
Distributed	6.075 kN/m		39.813 kN · 2.4 mm Gauge C-Section Bearing				
Inward Capacity	6.480 kN/m · Lysaght® & Stramit® Span Tables		Plate Bearing Capacity				
Moment · ØM Required	4.323 kNm		49.766 kN · 3.0 mm Gauge Plate				
Member	5.310 kNm · L _{ex} 2386 · L _{ey} 600 · L _{ez} 600	1 x M16 8.8/S Bolt	Web Bearing Capacity				
Deflection	4.3 mm · 8.0 mm Permitted		53.084 kN · 2.4 mm Gauge C-Section Bearing				
Vibration	1.1 mm · 2.0 mm Permitted		66.355 kN · 3.0 mm Gauge C-Section Bearing				
Post Calculations			Plate Bearing Capacity				
Post · C2.2	100x100x2 Grade C450L0		66.355 kN · 3.0 mm Gauge Plate				
Min Yield Stress	450 MPa		Tear Out Capacities				
Load Area · Height	6.0 m² · 2995 mm	Plates	51.840 kN				
Base Connection	Fixed	Minimum · Top Bolt	77.760 kN				
Compression · Required	29.160 kN	Minimum · Bottom Bolt					
Member	146.000 kN						
Raking Force · Required	12.422 kN						
Per Post	0.828 kN						
Moment · ØM Required	2.480 kNm						
Member	7.630 kNm						
	Source: OneSteel® DuraGal® Hollow Sections						
Maximum Member Calculations							
Concentrated Load	29.160 kN at C2.2						
Bearer · Deflection	4.3 mm at B1.1						
Vibration	1.1 mm at B1.1						
Joist · Deflection	1.6 mm at J1.2						
Vibration	0.9 mm at J1.1						
Connection Calculations							
Connection Type	Bearer to Post						
Components	2 x M12 4.6/S Bolts						
		PROJECT:	Example 4864 x 10000 x 3000 3.0 kPa Mezzanine Floor	PROJECT NUMBER:	6462		
		CLIENT:	Example Customer	DRAWN BY:	dm3 Solutions		
		ADDRESS:	Example Street, Suburb WA 6000	DRAWN DATE:	2022-09-28	ISSUE:	1
						SIZE:	A4
						SCALE:	NTS
						DRAWING NUMBER	27 of 27
		© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale. Powered by dm3Solutions.com					