

DATAWORKS

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CEILING SOLUTIONS



DataStruct[®] Heavy Duty Ceilings For Data Centres

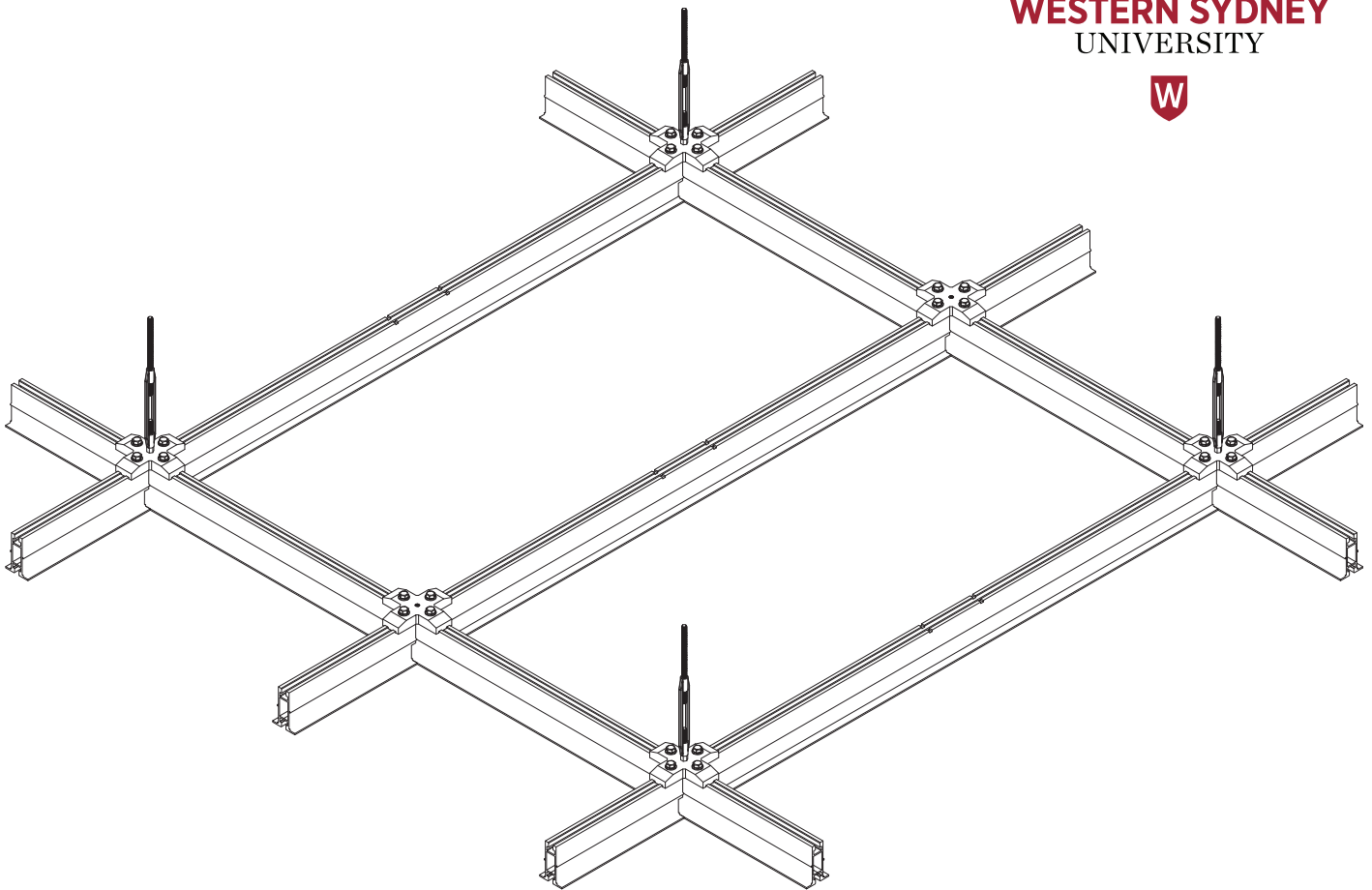
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Introduction

DataWorks™ DataStruct™ is a heavy-duty ceiling system designed in Australia to meet the most stringent standards and requirements of modern data centre ceilings.

The DataStruct™ difference

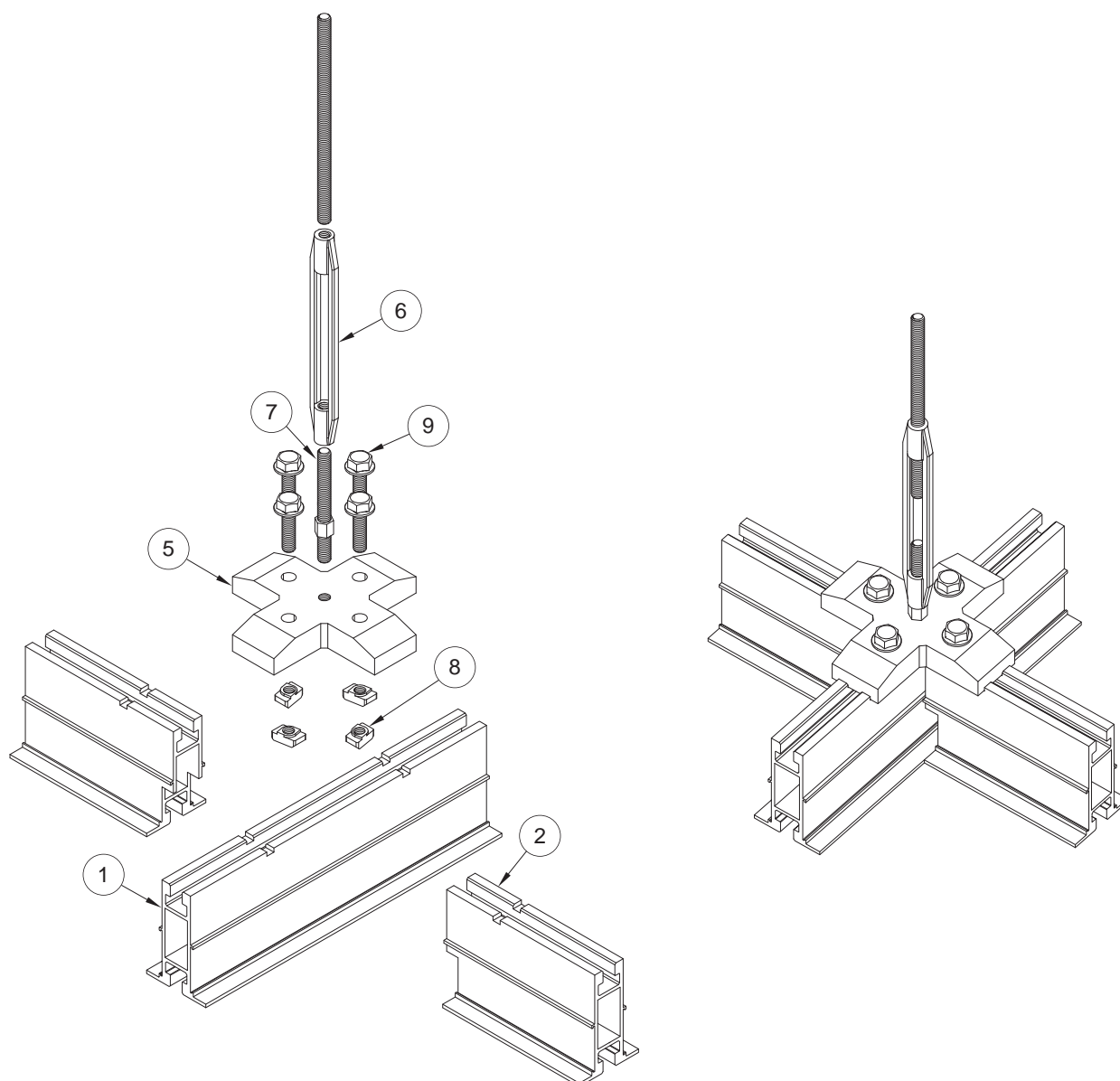
- Point loads up to 599kg.
- Time efficient T-Slot installation.
- Full compatibility with auxiliary components, including lighting, cable tray, containment units, cooling systems, etc.
- Designed in Australia.
- Independently tested by Western Sydney University.
- Available through Armstrong Ceilings Solutions' distribution network.
- Compatible with Armstrong® brand DataStruct ceiling tiles.
- Up to 15-year system warranty.



WESTERN SYDNEY
UNIVERSITY



Item	Product	Code Description
1	DWDS75MR3600GW	Dataworks Datastruct Heavy Duty 75mm Main Runner 3600 Global White
2	DWDS75CR1200GW	Dataworks Datastruct Heavy Duty 75mm Cross Runner 1200 Global White
3	DWDS75CR600GW	Dataworks Datastruct Heavy Duty 75mm Cross Runner 600 Global White
4	ALSWA2GW	Seismic Heavy Duty Aluminium Wall Angle Global White
5	DWDSHDGC	Dataworks Datastruct Heavy Duty Grid Connector Mill Finish
6	FSTBM8100SS	Turnbuckle M8 x100 304 Stainless Steel
7	FSDEBM82050SS	Double Ended Bolt M8 x RH20 x LH50 304 Stainless Steel
8	FSTSRNM8SS	T-Slot Rhombic Nut M8 304 Stainless Steel
9	FSSFHBM830SS	Serrated-Flange Hex Head Bolt M8x30 304 Stainless Steel
10	DWDSHDC	Panel Hold Down Clip
11	UNI200	Slotted Angle Bracket
12	ALMRJL	Aluminium Main-Runner Joiner Large

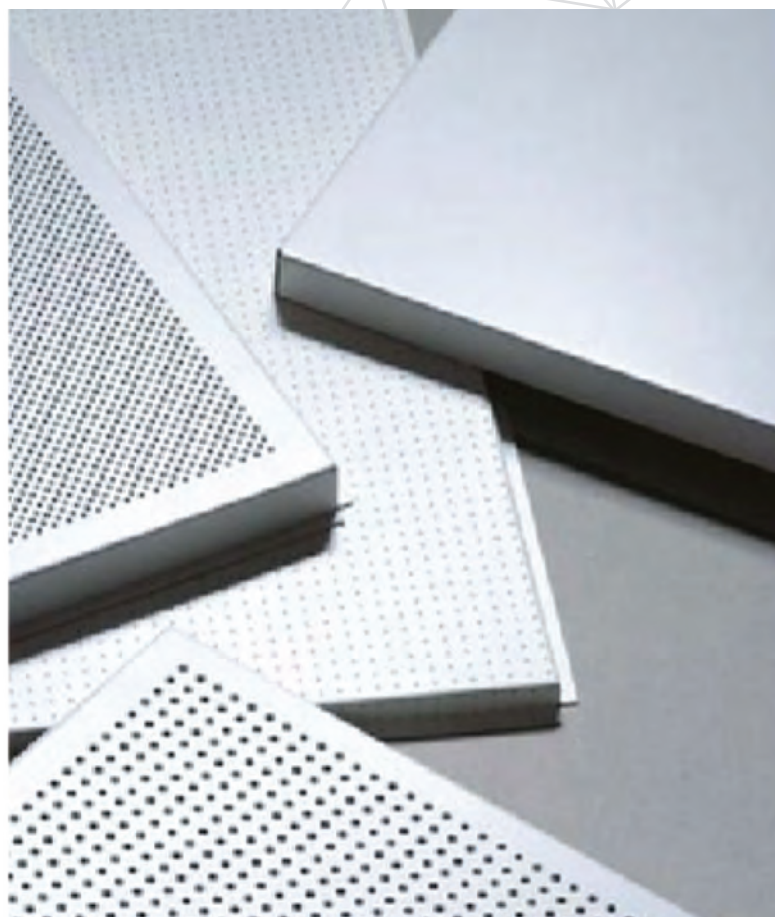
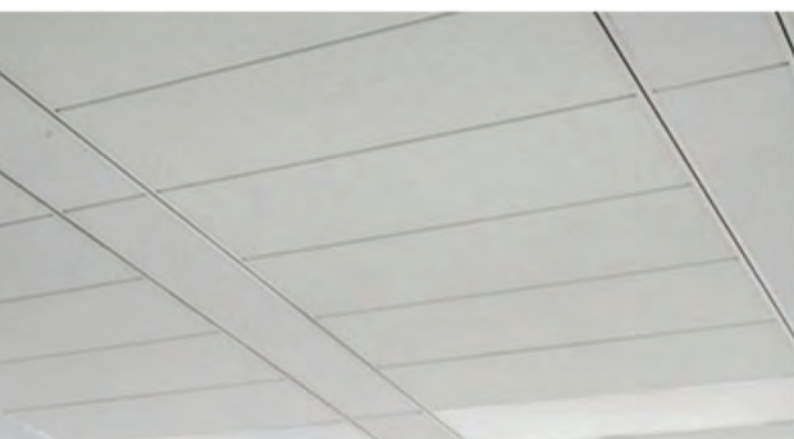
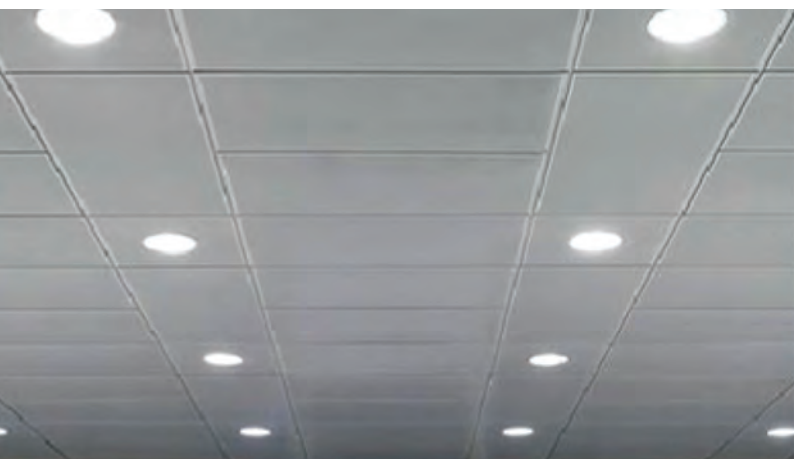


Ceiling Tiles

Benefits of DataStruct Ceiling Tiles:

- Complete 15-year system warranty supported by Armstrong Ceiling Solutions Australia.
- Acoustic mineral fibre or powder coated metal ceiling tiles.
- Fully customisable metal options available.
- Designed specifically to fit the DataWorks DataStruct grid system.
- Surfaces can be wiped, washed or scrubbed.
- Dimensionally stable and warrantied for conditions up to RH99% at 0°C – 49°C.

Item Number	Description	Dimensions (mm)	Material	Acoustic Absorption (NRC)
DS5187	Bioguard DataStruct	1200 x 600	Mineral Fibre	0.70
DS120607M1WHA	Metalworks DataStruct Flat	1200 x 600	Galvanised Steel	N/A
DS120607M10WHA	Metalworks DataStruct 16%	1200 x 600	Galvanised Steel	0.75
DS120607M2WHA	Metalworks DataStruct 19%	1200 x 600	Galvanised Steel	0.75



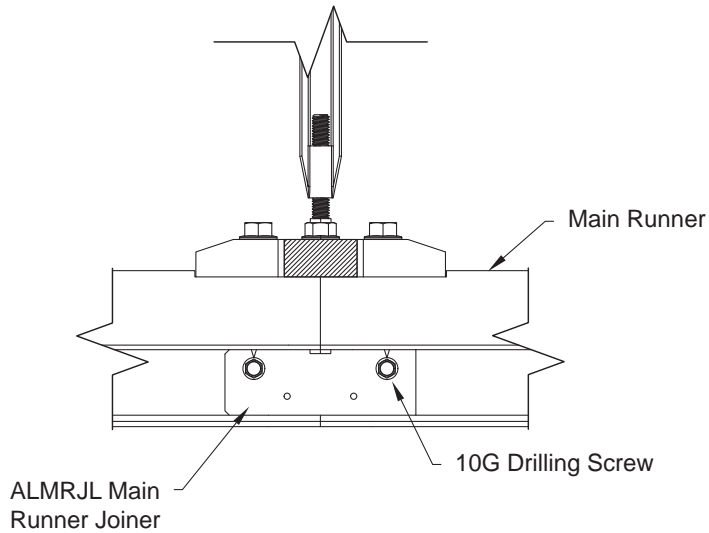


Figure 1: Main Runner Alignment.

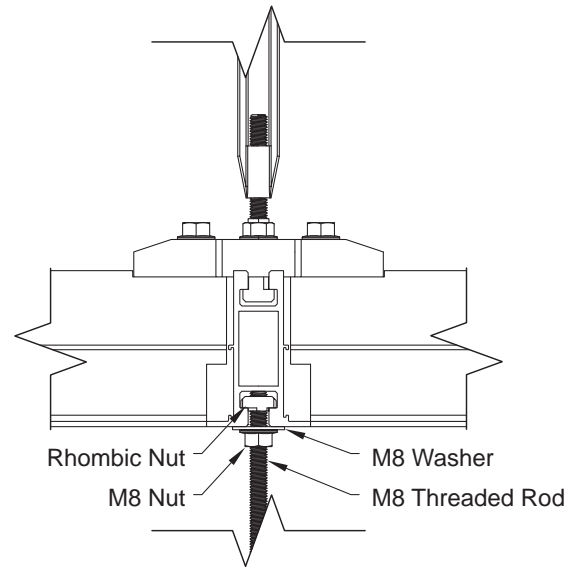


Figure 2: Connecting Threaded Rods for services.

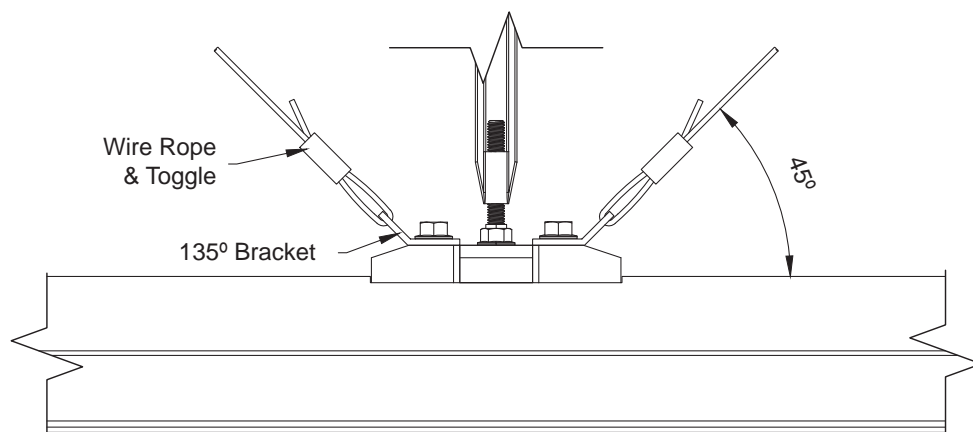


Figure 3: Seismic bracing option.

N.B. SEISMIC BRACING TO BE INSTALLED IN ACCORDANCE WITH PROJECT-SPECIFIC DESIGN PER AS1170.4

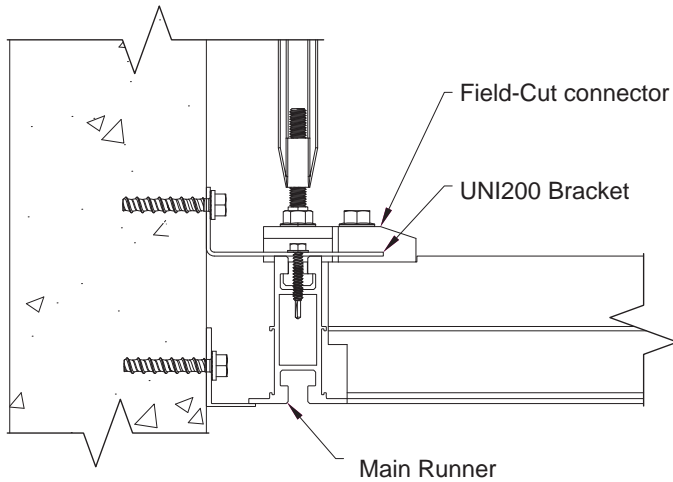


Figure 4: Floating Perimeter Option 1.

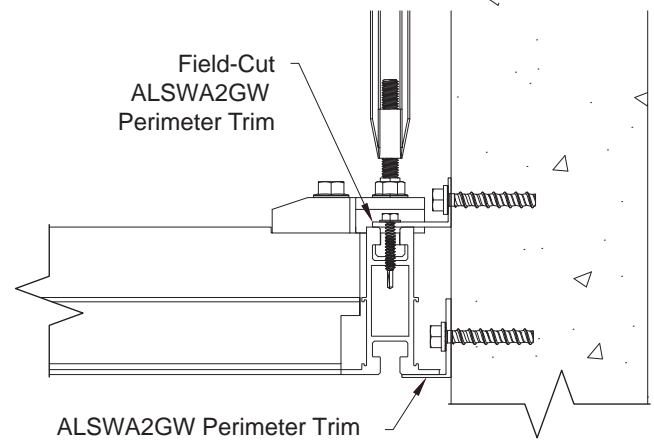


Figure 5: Fixed Perimeter Option 1.

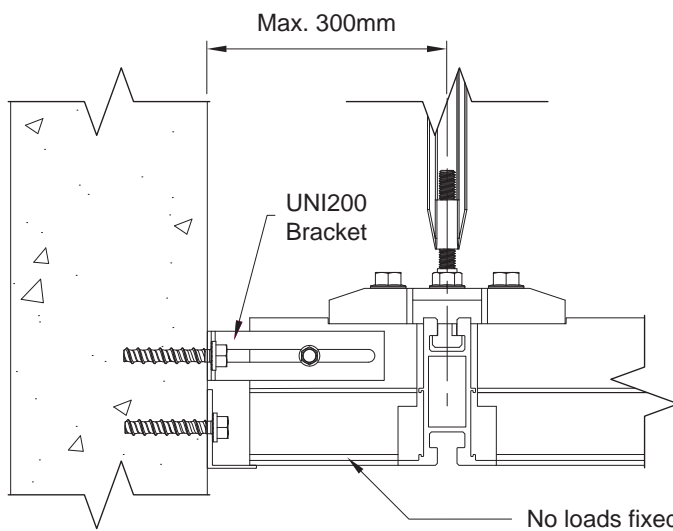


Figure 6: Floating Perimeter Option 2.

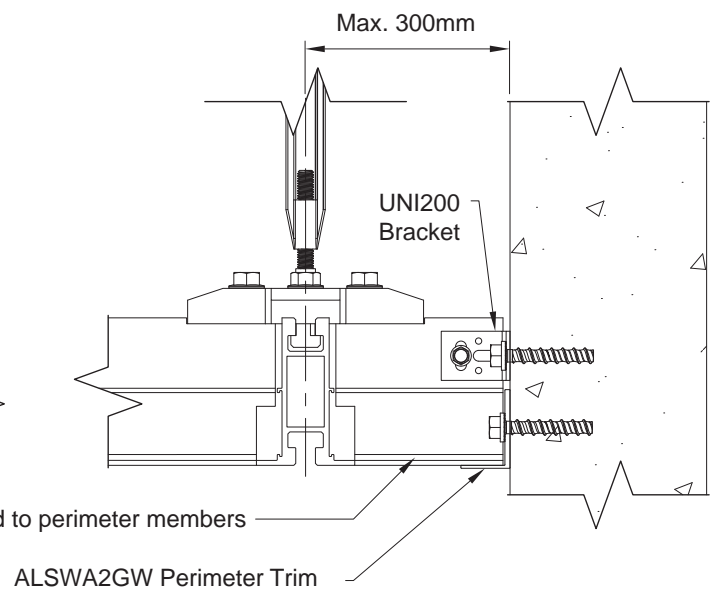


Figure 7: Fixed Perimeter Option 2.

N.B. SEISMIC BRACING TO BE INSTALLED IN ACCORDANCE WITH PROJECT-SPECIFIC DESIGN PER AS1170.4

Double Span Load Table Summary

Deflection Limit	Support Spacing (mm)	Midspan Point Load (kg)	Uniform Load (kg/m)	Pressure Load (kg/m ²)
L/360	600	599	1099	916
L/360	1200	470	549	458
L/360	1800	209	224	186
L/360	2400	118	94	79

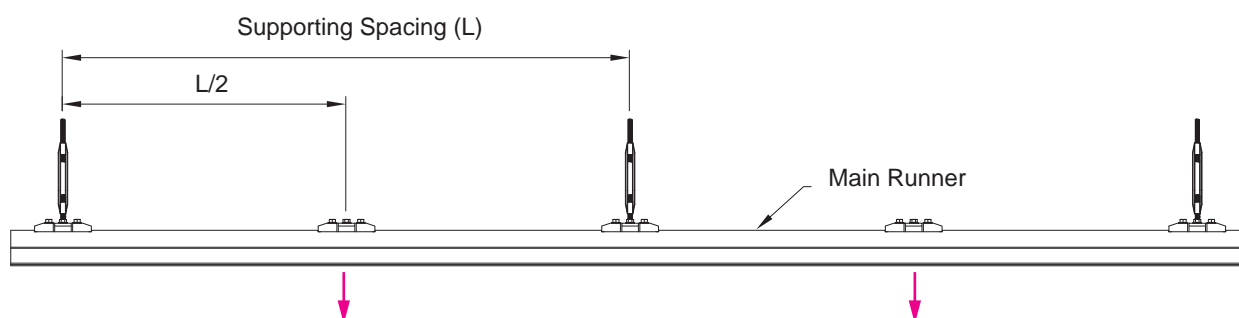


Figure 8: Midspan Point Load.

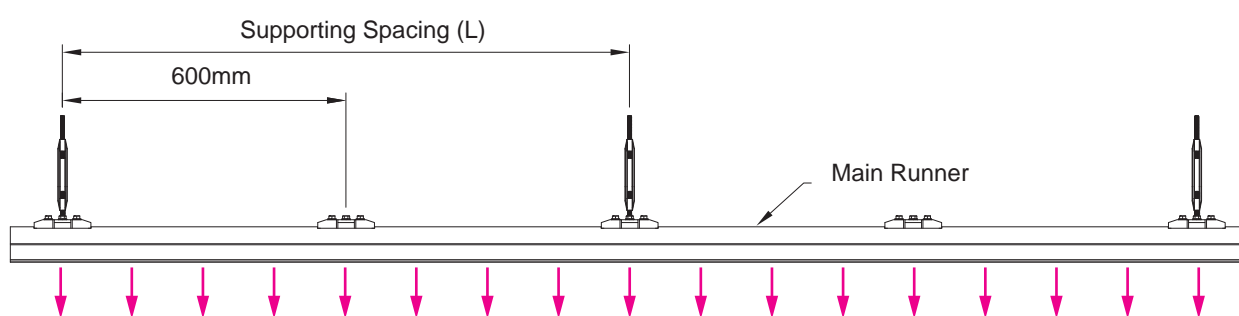


Figure 9: Uniform Load.

System Performance

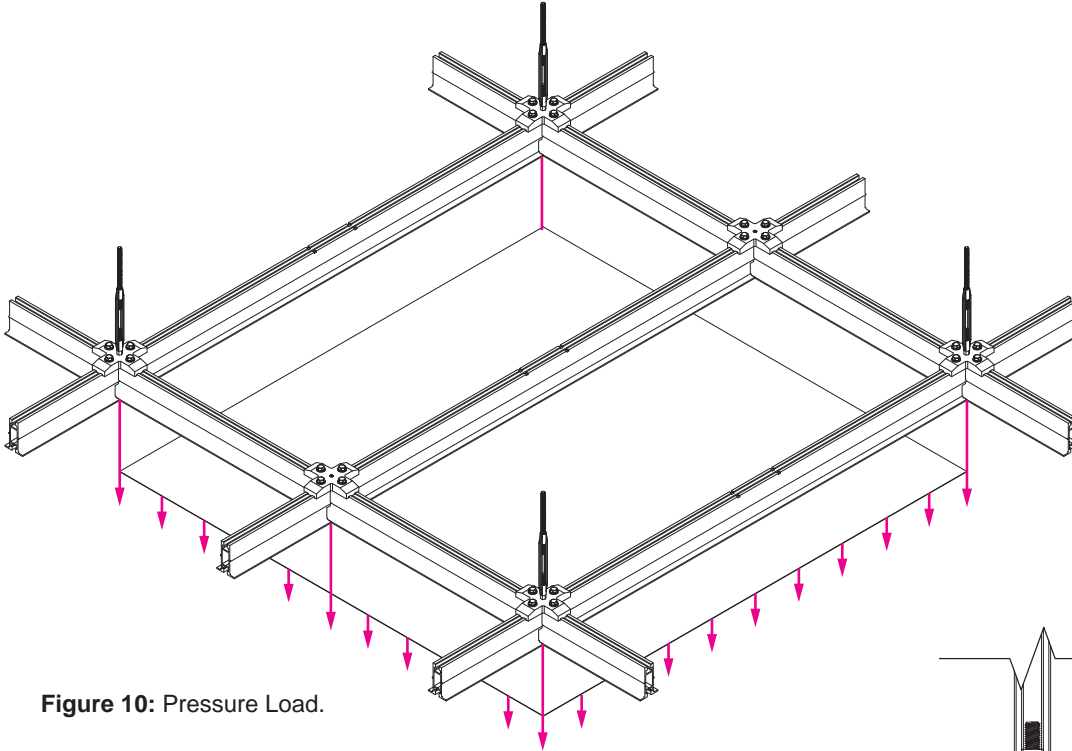
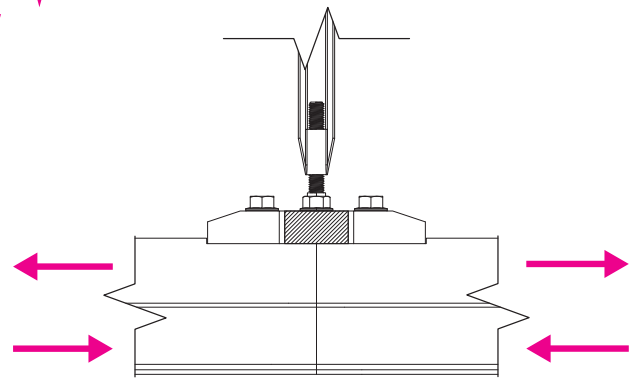


Figure 10: Pressure Load.

Figure 11: Max. Axial Tension and Compression Load Exceeds 330kg.



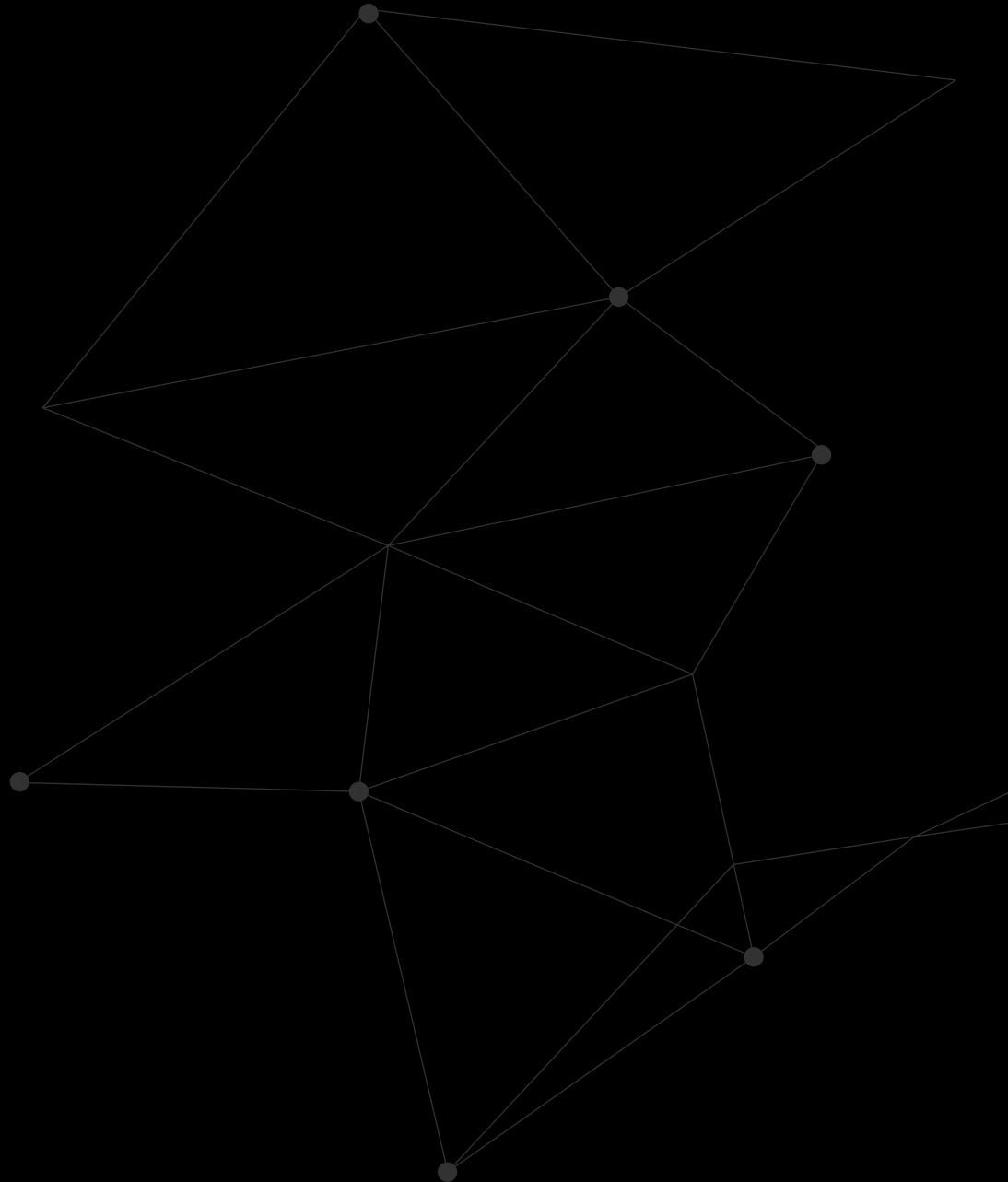
Engineering, Compliance & Testing

- Conforms with NCC Spec. C1.10 as tested to AS 5637.1:2015 – Group 1, and ISO 5660 – Group 1–S
- Designed in accordance with AS/NZS 1664.1:1997
- Designed in accordance with AS/NZS 1170.0
- Tested in accordance with AS/NZS 2785:2020
- Tested in accordance with ASTM E3090/3090M
- Heavy Duty Classification in accordance with ASTM C635

Short Specification

Short Architectural Specification

Suspension ceiling system shall be DataWorks DataStruct heavy-duty suspension system with a mid-span point load of 470kg and uniform load of 549kg/m, 1200x600mm layout suspended at 1200mm centres, with Armstrong MetalWorks/Bioguard Acoustic ceiling tiles.



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