Data Centre PeakForm Prelude 24 MAX Heavy Duty Grid



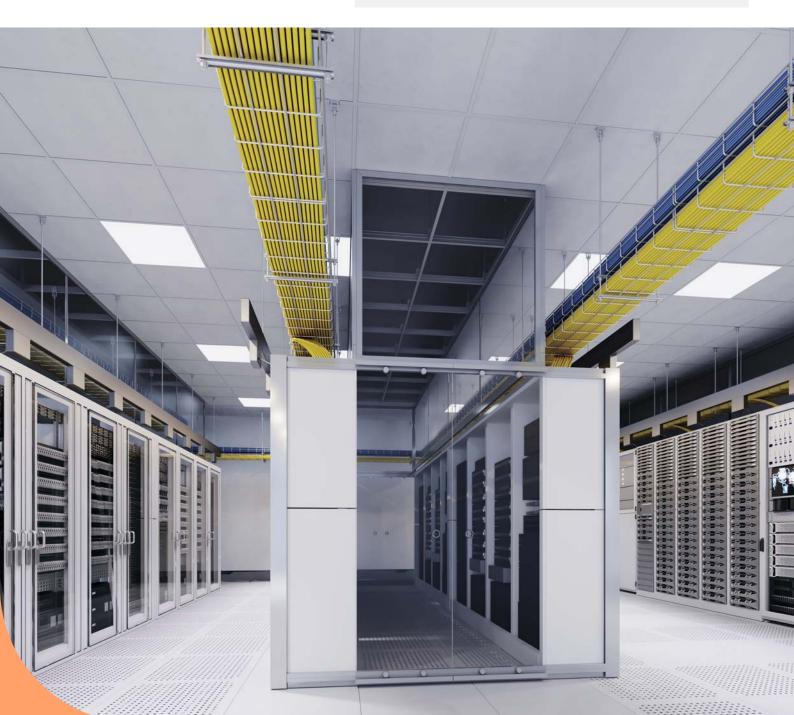


TOTAL MODELLINE

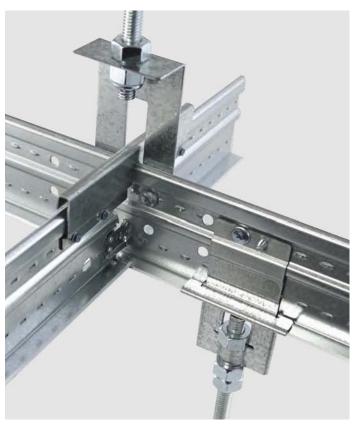
The Complete Data Centre Ceiling Solution

Armstrong PRELUDE 24 MAX™ Heavy Duty Suspension Grid combined with either MetalWorks or Bioguard Acoustic mineral fibre panels, forms an integrated ceiling system, designed to fit your data centre needs for high load carrying capacity, improved air flow management, clean room requirements and adaptability.

New PRELUDE 24 MAX™ is a pre-engineered grid system produced from roll-formed galvanised steel with a 62mm high "double PEAKFORM" T-profile, producing a high load carrying capacity. Standard reconfigurable hanging clips simply fasten directly to the face of the grid, with M10 threaded rod support for cable tray and electrical distribution, making it the complete ceiling solution for your data centre project.



Prelude 24 MAX - Exposed Grid Solutions



The Prelude 24 MAX™ suspension system supports single point loads for cable trays, busways, hot aisle containment, and more.

PRELUDE 24 MAX Suspension System with integrated load connectors

Load connector clips attach to the face of the suspension system to eliminate unsightly threaded rod penetrations through the ceiling plane to minimise unwanted air infiltration while improving access, cable tray layout options, and aesthetics.



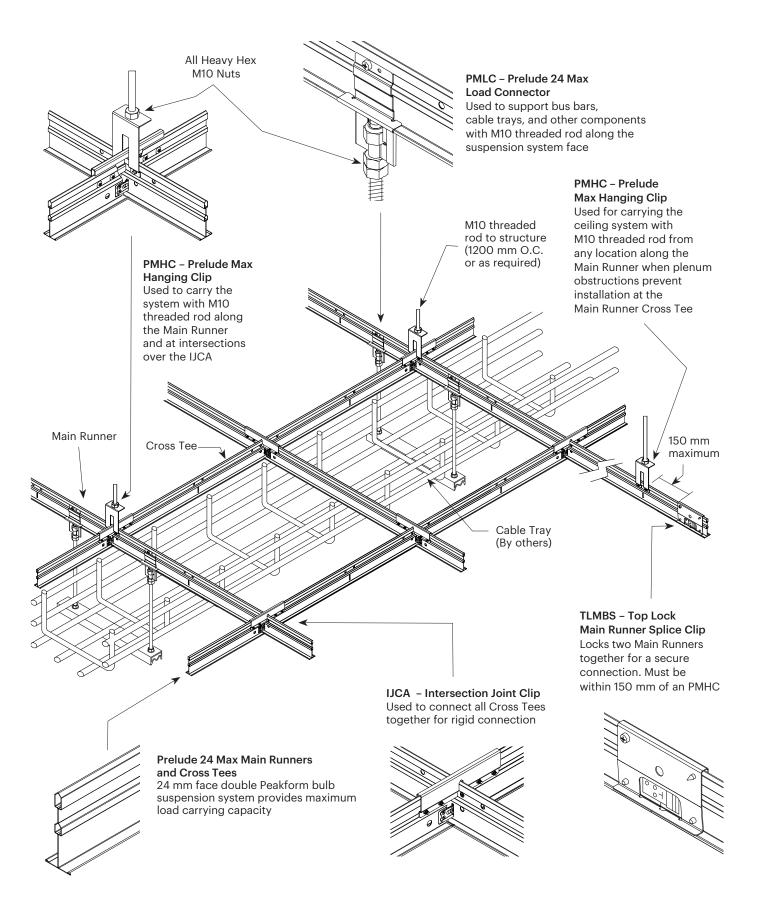
Integrated hanging clips allow connection to M10 threaded rod for flexible and reconfigurable overhead cable tray and electrical distribution without a separate strut channel system.







Prelude 24 MAX - How it Works



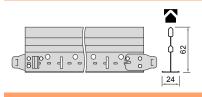
Prelude 24 MAX™ - Suspension System Components



Key Attributes

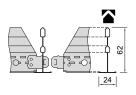
- Double Peakform, 62mm high profile for heavy duty requirements with point load capacity of up to 195kg* ((Based on Design Type 4/75 - see
- Suspension system supports load from the face of the suspension system using M10 threaded rod and integrated hanging clips:
 - Allows for flexible and reconfigurable overhead cable trays, electrical distribution, and hot aisle containment to meet client needs without a separate strut channel system
 - Eliminates unsightly threaded rod penetrations through the ceiling plane for improved access and aesthetics
 - Reduced ceiling penetrations help minimise unwanted air infiltration
- Seismic solutions available
- C2C Silver certificated suspension system

PRELUDE 24 MAX - Double PeakForm Main Runner with Superlock Clip (bulb-to-bulb connection)



Item Number	Dir length	nensions height	s (mm) slot centres	Conten	t / Carton Im	Weight / Carton kg
48 40 94	3600	62	300	10	36,00	23.60

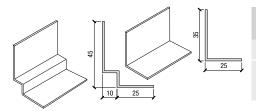
PRELUDE 24 MAX - XL² Cross Tees (stab system, override)



Cross Tees slotted

48 30 94	1200	62	300	30	36,00	23.60	
Cross Tees unslotted							
48 20 94	600	62	_	30	18,00	11.80	

Perimeter Trims



Item No.	Description	Description Dimensions (mm) width height length		Content / Cart'n pcs	Weight / Cart'n kg	
ALSWA1	Heavy Duty Wall Angle	25	35	3600	20	17.5
ALSWA4	Heavy Duty Shadow Line Wall Angle	35	45	3600	20	23

Accessories

PMHC - Prelude Max Hanging Clip Used to carry the ceiling system with M10 threaded rod from structure.

*Machine Screws, Heavy Hex Nut, and Locknut included

□ **PMHCM10** - 150 pcs

□XTACAG - 100 pcs

XTAC - Cross Tee Adapter Clip Securely attaches Cross Tees or Main Runners to the Structural Wall Angle around the perimeter of the ceiling installation.

TLMBS - Top Lock Main Runner Splice Clip - Locks two Main Runnerstogether for a secure connection.

PMLC - Prelude 24 Max Load

Connector - Used to support

rod from the suspension

□ **PMLCM10** - 100 pcs

system face.

bus bars, cable travs, and other

components with M10 threaded

10 pcs (included with item 730145 Main Runner)

□TLMBS - 10 pcs



IJCA - Intersection Joint Clip Used at all Cross Tee-to-Cross Tee or Main Runner-to-Cross Tee connections.

* Machine screws included

□ **IJCA** – 250 pcs



PMHDC - Maximum Hold Down Clip - Attaches to the top bulb of the Prelude 24 Max suspension system to hold ceiling panels in place; helps to prevent ceiling panel movement.

□ **PMHDC** - 100 pcs



SYSTEM LOAD INFORMATION

*NOTE: See page 8 for details on System: Serviceability, Cable Tray and Point Loading.

Recommended Ceiling Panels

MetalWorks Lay In

Armstrong METALWORKS Lay In panels are an economical, durable metal ceiling solution with a range of perforation and acoustical options. Available in plain (non-perforated) for maximum clean room performance.

- · Contemporary appearance
- · Simple accessibility to plenum space
- Available in Trioguard[™] dust repellent coating, protecting from colour fading and maintaining its original look for longer
- TOTAL ACOUSTICS™ Performance Options (NRC + CAC) with B15 Acoustical Infill panels
 - High sound absorption for reduced reverberation and quieter spaces
 - High sound attenuation, improving room to room privacy
- Humiguard Plus RH99% Humidity/Sag Resistant
- · High light reflective finish for a brighter space
- Sustainable Green Star[™] and WELL[™] contribution
- ISO 5 Clean Room performance (Plain Non-perforated)

Bioguard Acoustic

BIOGUARD ACOUSTIC mineral fibre ceiling panels features a smooth, water repellent, washable surface with excellent anti-microbial and ISO clean room performance, making it an ideal solution for clean room and computer environments.

- · Anti-microbial performance provides protection against bio-contamination
- Sealed edges producing ISO 5 Clean Room performance
- TOTAL ACOUSTICS™ Performance (NRC+CAC)
 - High sound absorption for reduced reverberation and quieter spaces
- High sound attenuation, improving room to room
- · Humiguard Plus RH99% Humidity/Sag Resistant
- · Reinforced, scratch resistant face for longer life
- · High light reflective finish for a brighter space
- Sustainable Green Star[™] and WELL[™] contribution

Edge Detail

Square Lay-in



Square Lay-in



Item / **Dimensions**

Item: LOSC060605M WHA: 600 X 600mm Item LOSC120605M_WHA: 1200 X 600mm

Item: 5186: 600 X 600 X 19mm Item 5187: 1200 X 600 X 19mm

Colours / **Pattern**



White







Micro Perforated (M2)



Global White

Sustainability













DAYLIGH





ILLUMINANCI

Green Star[™]: Potential contribution Interiors v11 / Design & As Ruilt v1 2

Orcentida : Toterida contribution interiors vi.17 Design & As Built vi.2							
	Indoor Enviro	Materials					
Credit 9/10 Credit 10/2A/11/2A ACOUSTIC COMFORT COMFORT SURFACE ILLUMINANCE		Credit 11.1B / 12.1B VISUAL COMFORT: DAYLIGHT	Credit 12 / 13 INDOOR POLLUTANTS	Credit 21D / 21D SUSTAINABLE PRODUCTS - AND Party Certification Credit 22 / 22 CONSTRUCTION AND DEMOCLITION WASTE			
1	1	1	1	✓	1		

Green Star [™] : Potential contribution Interiors v1.1 / Design & As Built v1.2						
	Indoor Environmental Quality Materials					
ACOUSTIC		VISUAL	Credit 12 / 13 INDOOR		Credit 22 / 22 CONSTRUCTION	

Total Acoustics





CAC

ζ.	₹	
48-2	EN ISO 354	



Hzα			
500		2000	400
0.65	0.95	0.95	0.98



Fire Resistance



Conforms with NCC Spec. C1.10 as tested to AS 5637.1:2015 -Group 1, and ISO 5660 - Group 1 - S



Conforms with NCC Spec. C1.10 as tested to AS 5637.1:2015 -Group 1, and ISO 5660 - Group 1 - S

Other

Performances

















































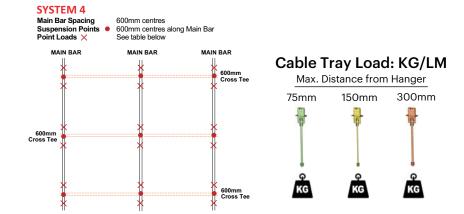






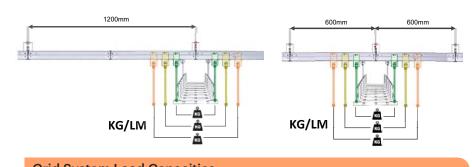
SYSTEM: Serviceability and Load Capacities

SYSTEM 1 Main Bar Spacing Suspension Points 1200mm centres along Main Bar Point Loads × MAIN BAR MAIN BAR MAIN BAR MAIN BAR MAIN BAR 1200mm Cross Tee 600mm Cross Tee



Main Bar Spacing Suspension Points Point Loads × MAIN BAR MAIN BAR MAIN BAR MAIN BAR MAIN BAR MAIN BAR 1200mm Cross Tee 600mm Cross Tee 1200mm Cross Tee

SYSTEM 2



Grid System Load Capacities

	System Type	Main Bar Centres (mm)	Suspension Point Centres (mm)	Distance of Load Hanger From Suspension Points (mm)	Cable Tray Load (kg/lm)	Point Load (Kg)	
	1/75 1/150 1/300	1200 1200 1200	1200 1200 1200	75 150 300	148 67 35	178 80 42	
	2/75 2/150 2/300	1200 1200 1200	600 600 600	75 150 300	148 67 35	178 80 42	
	3/75 3/150 3/300	600 600 600	1200 1200 1200	75 150 300	325 240 198	195 144 119	
	4/75 4/150 4/300	600 600 600	600 600 600	75 150 300	325 240 198	195 144 119	
	Note: This Design also includes an allowance for a coiling panel of (may) Fka/m^2						

 $\textbf{Note:} \ This \ Design \ also \ includes \ an \ allowance \ for \ a \ ceiling \ panel \ of \ (max) \ 5kg/m^2$

Allowable Deflection at L/360: AS/NZS 2785:2020

SYSTEM 3 Main Bar Spacing Suspension Points Point Loads X MAIN BAR 600mm Cross Tee

Contact us

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