







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.

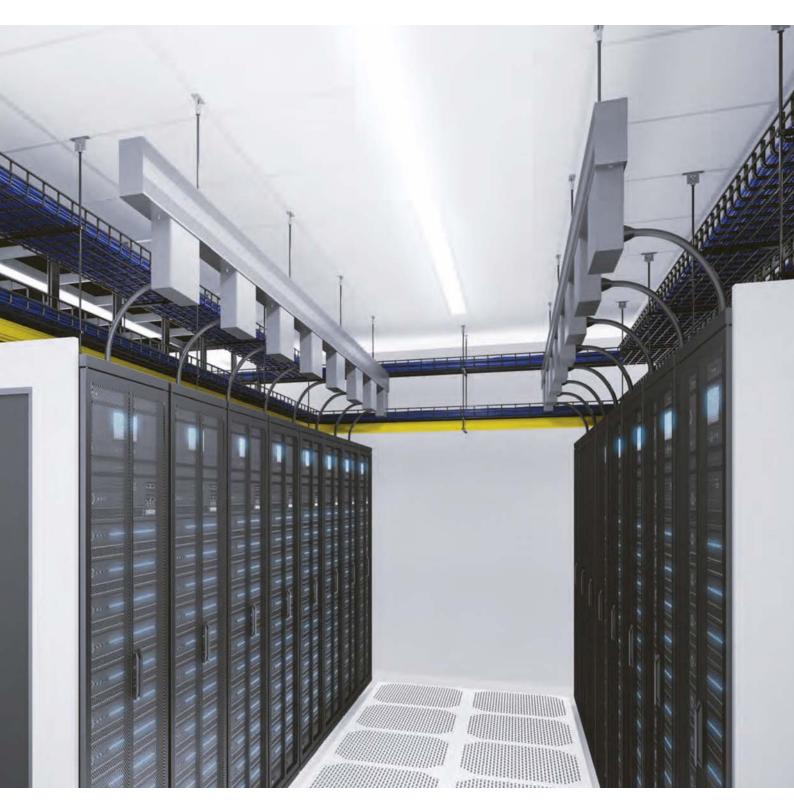
New PRELUDE 24 MAX[™] is a pre-engineered grid system produced from roll-formed galvanised steel with a 62mm high "double PEAKFORM™" T-profile, producing a high load carrying capacity. Standard reconfigurable hanging clips simply fasten directly to the face of the grid, with M10 threaded rod support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



How the new PRELUDE 24 MAX Suspension System works



PRELUDE 24 MAX Suspension System with integrated load connectors







Choice of either METALWORKS or BIOGUARD ACOUSTIC mineral fibre ceiling panel options



PRELUDE 24 MAX™

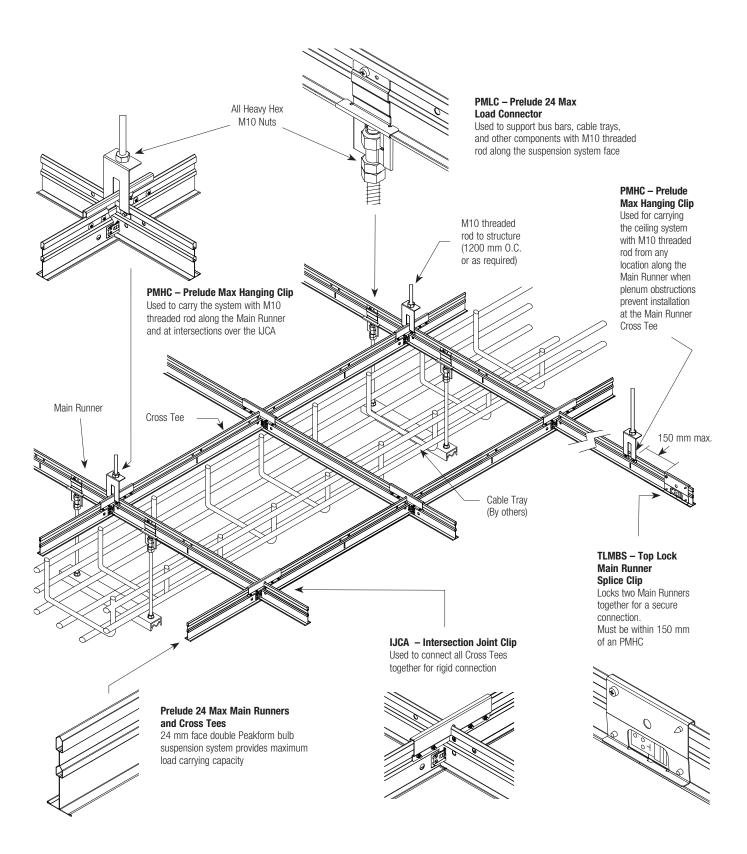
The PRELUDE 24 MAX[™] suspension system supports single point loads for cable trays, busways, hot aisle containment, and more.

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.

HOW IT WORKS



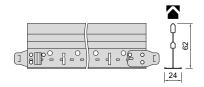
PRELUDE 24 MAX[™] – Suspension System Components



Key Attributes

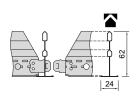
- Double Peakform, 62mm high profile for heavy duty requirements with point load capacity of up to 195kg* ((Based on Design Type 4/75 – see page 8)
- Suspension system supports load from the face of the suspension system using M10 threaded rod and integrated hanging clips:
 - Allows for flexible and 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	Dimensions (mm)		Content / Carton		Weight / Carton	
	length height slot centres		pcs Im		kg	
48 40 94	3600	62	300	10	36,00	23.60

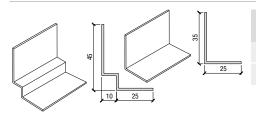
PRELUDE 24 MASX - XL2 CROSS TEES (stab system, override)



Cross Tees slotted

\wedge	48 30 94	1200	62	300	30	36,00	23.60	
_	Cross Tees unslo	otted						
\wedge	48 20 94	600	62	-	30	18,00	11.80	

PERIMETER TRIMS



Item Number	Description	Dimensions (mm) width height length		Content / Carton pcs	Weight / Carton 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

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

☐ XTACAG - 100 pcs

PMLC – Prelude 24 Max Load Connector – Used to support bus bars, cable trays, and other components with M10 threaded rod from the suspension system face.

* Heavy Hex Nut & Locknut included

 \square PMLCM10 – 100 pcs



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

* Machine screws included

uded

□ **IJCA** - 250 pcs

TLMBS – Top Lock Main Runner Splice Clip – Locks two Main Runners together for a secure connection.

10 pcs (included with item 730145 Main Runner)

□ TLMBS – 10 pcs



PMHDC – Maximum Hold Down Clip – Attaches to the top bulb of the Prelude 24 Max

top bulb of the Prelude 24 Max suspension system to hold ceiling panels in place; helps to prevent ceiling panel movement.





SYSTEM LOAD INFORMATION

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

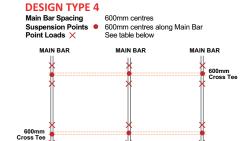
Recommended Ceiling Panels

METALWORKS LAY IN **BIOGUARD ACOUSTIC** Armstrong METALWORKS Lay In panels are an economical, BIOGUARD ACOUSTIC mineral fibre ceiling panels features a durable metal ceiling solution with a range of perforation and smooth, water repellent, washable surface with excellent acoustical options. Available in plain (non-perforated) for maximum anti-microbial and ISO clean room performance, making it an ideal solution for clean room and computer environments. clean room performance. • Contemporary appearance Benefits: · Anti-microbial performance provides protection against • Simple accessibility to plenum space bio-contamination Available in Trioquard[™] dust repellent coating, protecting from • Sealed edges producing ISO 5 Clean Room performance colour fading and maintaining its original look for longer TOTAL ACOUSTICS™ Performance (NRC+CAC) • TOTAL ACOUSTICS™ Performance Options (NRC + CAC) with B15 Acoustical Infill panels - High sound absorption for reduced reverberation and quieter - High sound absorption for reduced reverberation and quieter High sound attenuation, improving room to room privacy - High sound attenuation, improving room to room privacy Humiguard Plus RH99% Humidity/Sag Resistant • Humiguard Plus RH99% Humidity/Sag Resistant Reinforced, scratch resistant face for longer life • High light reflective finish for a brighter space · High light reflective finish for a brighter space Sustainable – Green Star[™] and WELL[™] contribution Sustainable – Green Star[™] and WELL[™] contribution • ISO 5 Clean Room performance (Plain – Non-perforated) **EDGE DETAIL** SQUARE LAY-IN SQUARE LAY-IN Item: L0SC060605M_WHA: 600 X 600mm Item: 5186: 600 X 600 X 19mm ITEM / DIMENSIONS Item L0SC120605M_WHA: 1200 X 600mm Item 5187: 1200 X 600 X 19mm COLOURS / **PATTERN** Global White Global White Plain Non Perforated Standard Perforated Micro Perforated (M2) SUSTAINABILITY Low Emission Low Emission Green Star™: Potential contribution Interiors v1.1 / Design & As Built v1.2 Green Star™: Potential contribution Interiors v1.1 / Design & As Built v1.2 ental Quality mental Quality Credit 11.1B / 12.1B VISUAL COMFORT: INDOOR DAYLIGHT POLLUTANTS Credit 10.2A / 11.2A Credit 11.1B / 12.1B LIGHTING USUAL COMFORT: DAYLIGHT DAYLIGHT POLLUTANTS Credit 10.2A / 11.2A LIGHTING COMFORT SURFACE SUSTAINABI PRODUCTS "Level A" Th Party Certifi TOTAL ACOUSTICS 0.50 0.35 0.50 0.75 0.85 0.90 0.30 0.35 0.65 0.95 0.95 0.95 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 FIRE RESISTANCE **OTHER PERFORMANCES** & FEATURES



SYSTEM: Serviceability, Cable Tray and Point Loading

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



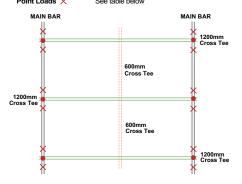


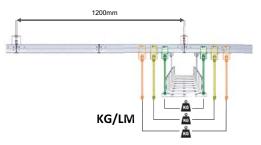
DESIGN TYPE 2

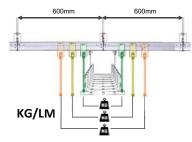
Main Bar Spacing
Suspension Points

■ 1200mm centres
600mm centres along Main Bar
Point Loads

See table below



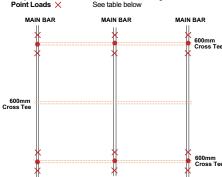




DESIGN TYPE 3

Main Bar Spacing
Suspension Points
Point Loads X

Main Bar Spacing
600mm centres
1200mm centres along Main Bar
See table below



Data Centre Grid Loads

Design 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	1200	1200	75	148	178		
1/150	1200	1200	150	67	80		
1/300	1200	1200	300	35	42		
2/75	1200	600	75	148	178		
2/150	1200	600	150	67	80		
2/300	1200	600	300	35	42		
3/75	600	1200	75	325	195		
3/150	600	1200	150	240	144		
3/300	600	1200	300	198	119		
4/75	600 600		75	325	195		
4/150	600 600		150	240	144		
4/300	600 600		300	198	119		
Note: This Design also includes an allowance for a ceiling panel of (max) 5kg/m ²							

Allowable Deflection at L/360: AS2785:2000

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AWP0420

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Produced 27 April 2020

