1. GENERAL

1.1 Product Description
MetalWorks Clip-in system is sealed splice, clean and tidy.

1.2 Materials and Finishes
MetalWorks Clip-in system is made of hot-dipped galvanized steel or aluminum structure. MetalWorks Clip-in system is available in unperforated, standard perforated, microperforated or extra microperforated, and the surface is finished with post coating or pre-coated, the standard color is global white and white (WH9010).

1.3 Dimensions
MetalWorks Clip-in system product data:

<table>
<thead>
<tr>
<th>Material</th>
<th>Standard Size (mm)</th>
<th>Thickness (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(S) Steel</td>
<td>300x300</td>
<td>0.5(S) / 0.7(A)</td>
</tr>
<tr>
<td></td>
<td>600x600</td>
<td>0.5(S)/0.7(A)</td>
</tr>
<tr>
<td></td>
<td>300x1200</td>
<td>0.5(S)/0.7(A)</td>
</tr>
<tr>
<td>(A) Aluminum</td>
<td>400x1200</td>
<td>0.5 (S) / 0.6(S) / 0.8 (A)</td>
</tr>
<tr>
<td></td>
<td>600x1200</td>
<td>0.7(S) / 1.0(A)</td>
</tr>
</tbody>
</table>

1.4 Suspension System
MetalWorks Clip-in system use DP-12 main carrier.

1.5 Storage and Handling
Metal ceiling shall be stored in a dry interior location and shall remain in cartons prior to installation to avoid damage. The cartons shall be stored in a horizontal position. Proper care should be taken when handling to avoid damage or soiling.

**NOTE:** The horizontal cartons shall not be laying exceed three floors, to avoid damaging the lower metal panel, Cartons shall be packed with wooden stand, but should be noted even by force, Cartons shall be stacked not more than 1.5 m according to the direction of them.

1.6 Jobsite Conditions
Building areas to receive metal ceiling shall be free of construction dust and debris. Products can be installed in conditions between 32°F (0°C) and 120°F (49°C) and in spaces before the building is enclosed, where HVAC systems are cycled or not operating. Cannot be used in
exterior applications, where standing water is present or where moisture will come in direct contact with the ceiling.

1.7 Fire Performance
Metal ceiling, as with other architectural features located in the ceiling plane, may obstruct or skew the existing or planned fire sprinkler water distribution pattern, or possibly delay the activation of the fire sprinkler or fire detection system. Designers and installers are advised to consult a fire protection engineer, NFPA 13, and their local codes for guidance on the proper installation techniques where fire detection or suppression systems are present.

2. INSTALLATION
2.1 General
After opening the product carton, and before installation, be sure to locate, remove and set aside the hardware kit before proceeding.
Metal ceiling must not be used to support any other materials and are also not approved for exterior application.
When installing lightings, diffusers, smoke and spray devices required leaving holes in the metal ceilings. Perforated work must be carried out on the ground, lightings, diffusers and other equipment should be installed simultaneously with the metal ceiling.

2.2 Installation Procedures
2.2.1 MetalWorks Panel and Installation Accessories Drawings
MetalWorks Clip-in System: Clip-in Panel, C-channel, C-channel Hanger, C-channel Connector, DP-12 Main Carrier, DP-12 Hanger; DP-12 Connector
Clip-in on long sides

Clip-in on short sides

Clip-in on 4 sides
Installation Accessories

- Hanger Wire
- C-channel Hanger
- DP-12 grid hanger (AC-SP-CL38)
- C-channel
- DP12 Connector (AC-CP-CL)
- DP-12 Main Carrier (AC-MK-CL)
2.2.2 Floor Plan

A. According to the ceiling floor plans, draw the line for location of the grid
B. Determine the hanging point location
C. Install the hanger wire, hanger wires spacing between ≤ 1200mm
D. Installing, leveling, straightening grids: C-channel spacing between ≤ 1200mm. DP-12 main carrier (cross tee) spacing based on metal ceiling’s width, clip-in ceiling panel installed by DP12 main carrier. Clip-in metal ceilings installed system of grid has upper and lower layers, upper is for C-channel and lower is for DP12 main carrier, their spacing is between ≤ 1200mm. Lower is DP12 main carrier, spacing determined by clip-in panel’s installed side width. C-channel (upper) and DP12 main carrier (lower) are fixed by DP12 hanger. The location of DP12 hanger is intersection of C-channel and DP12 main carrier. Please follow the installation drawings and installation procedures.

Clip-in on long sides
Clip-in on short sides

![Diagram showing clip-in on short sides with dimensions and components labeled as DP12 Main Carrier, DP12 Hanger, and C-channel.]

Clip-in on 4 sides

![Diagram showing clip-in on 4 sides with dimensions and components labeled as DP12 Main Carrier, DP12 Hanger, and C-channel.]

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Armstrong®
CEILING SYSTEMS
2.2.3 Profile

Clip-in on long sides

Hanger Wire (spacing between 1200mm)

C-channel hanger

DP12 Hanger (AC-SP-CL38)

C-channel

Clip-in Panel (long side)

Clip-in on short sides

Hanger Wire (spacing between 1200mm)

C-channel hanger

DP12 Hanger (AC-SP-CL38)

C-channel

Clip-in Panel (short side)
Clip-in on 4 sides

2.2.4 Isometric Drawings

Clip-in on long sides
Clip-in on short sides

Clip-in on 4 sides

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2.3 Wall Molding Spring Clamp (AC-CL-01) and Security Clip (AC-SC-01)
When installing the wall molding, wall molding spring clamp can be stuck on the edge of the clip-in panel in order to avoid the gap between clip-in panel and wall molding. Clip-in panel is not recommended for exterior use, Security Clip must be used if clip-in panel must be installed in exterior or semi-exterior area.

2.4 Tool for disassembly

2.5 Clean and Adjust
The installers need to wear gloves to avoid damage and pollute the ceiling panels; Before installing, cleaning surfaces of the metal ceilings. Use a clean, soft white cloth and mild detergent and water to wipe off any dirt or fingerprints. The dust in the back side of metal ceiling is normal.