DYNAMAX™
Structural Aluminum Data Center Suspension System

This fully accessible and flexible system allows you to support heavy point loads to provide a solution for every type of data center.

KEY SELECTION ATTRIBUTES
• Ideal combination of a finished ceiling system with a structural solution
• Provides a suspension platform or attachment for data center cable trays, equipment, partitions and hot and cold aisle containment barriers from building structure to below the ceiling plane
• Finished ceiling system offers a containment barrier to protect servers from debris
• Easy integration into a conventional grid system using AXTBC clip and DynaMax™ boss channels
• DynaMax suspension systems can integrate seamlessly with Armstrong® ceiling panels for a complete ceiling system solution
• Lighting integration solutions available
• Supports up to a 900 lb. point load rating using 3/8" threaded rod at 4’ x 4’ connection points
• Factory cut notches on main beams for a faster and easier installation
• Suspension system has continuous threaded boss channel, allowing 3/8" threaded rod to be installed to the suspension system at any location
• Controls airflow by eliminating penetrations
• Available in 2 x 2’, 2 x 4’ and 4 x 4’ suspension system layouts
• CNC override feature creates a tight fit minimizing air leakage between plenum and occupied space
• Fully accessible system allows for future expansion and upgrades
• Non progressive installation gives the ability to remove or replace a section of the system without the need to dismantle those components around it
• Cross tees not bearing any load are removable for plenum access without compromising the structural integrity of the system
• 10 year limited warranty
• X-Brackets installed on DynaMax grid provide attachment points for 4’ x 4’ suspension from building structure

Ceiling panels are specially sized and engineered for the DynaMax™ suspension system and must be used with the system. These panels do not fit in other suspension systems.

VISUAL SELECTION

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Dimensions (Inches)</th>
<th>Pcs./Ctn.</th>
<th>Lin. Ft./Ctn.</th>
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</thead>
<tbody>
<tr>
<td>DM4301</td>
<td>Main Beam</td>
<td>144 x 15/16 x 2.44&quot;</td>
<td>4</td>
<td>48</td>
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<tr>
<td>DM4340</td>
<td>4’ Cross Tee</td>
<td>48 x 15/16 x 2.44&quot;</td>
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<td>DM4320</td>
<td>2’ Cross Tee</td>
<td>24 x 15/16 x 2.44&quot;</td>
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<tr>
<td>DM4800</td>
<td>Perimeter Molding</td>
<td>144 x 2-1/8 x 2-1/2&quot;</td>
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<td>72</td>
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NOTE: Contact local engineer for job-specific load and/or seismic requirements

ACCESSORIES

DMXB – X-Bracket
Used to connect all cross tees together for rigid connection

DMIB – I-Bracket
Used to splice together main beam ends

DMTB – T-Bracket
Used to connect main beams and cross tees to the perimeter extrusion

DMLB – L-Bracket
Used to connect perimeter extrusion corners together

DMHDC – Hold Down Clip
Attaches to the suspension system to hold Lay-in panels in place

DMHWK – Hardware Kit
Turnbuckles and threaded rods are used to connect the X-Brackets to the threaded rod to create a structural support for the grid

Packaging

DMXB – 24 pcs
DMTB – 36 pcs
DMLB – 12 pcs
DMHDC – 100 pcs
DMHWK – 12 pcs
DYNAMAX™
Structural Aluminum Data Center
Suspension System

VISUAL SELECTION

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<tr>
<th>Edge Profile</th>
<th>Item No.</th>
<th>Description</th>
<th>Dimensions Actual (Inches)</th>
<th>Dimensions Actual (Inches)</th>
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<td>BP4126</td>
<td>Fine Fissured</td>
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<td>23 x 23 x 1&quot;</td>
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PERFORMANCE SELECTION

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<th>UL Classified Acoustics</th>
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<th>Fire Performance</th>
<th>Light Reflection</th>
<th>Anti-Mold &amp; Mildew</th>
<th>Sag Resistance</th>
<th>Certified Low VOC Emissions</th>
<th>Durability</th>
<th>Recycled Content</th>
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<th>10-Yr Warranty</th>
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ALLOWABLE LOAD CHART

<table>
<thead>
<tr>
<th>Member Span (ft)</th>
<th>4ft</th>
<th>5ft</th>
<th>6ft</th>
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</thead>
<tbody>
<tr>
<td>Allowable Uniform Area Load (lb/sf)*</td>
<td>56.25</td>
<td>45.00</td>
<td>37.50</td>
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<tr>
<td>Mid-Span Point Load @ L/360 Deflection (lb)</td>
<td>320</td>
<td>200</td>
<td>140</td>
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<tr>
<td>Ultimate Mid-Span Point Load</td>
<td>730</td>
<td>590</td>
<td>490</td>
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</tbody>
</table>

*Assumes loads applied under threaded rod support brackets
**DYNAMAX™ SUSPENSION SYSTEM INSTALLATION OVERVIEW**

### Details

<table>
<thead>
<tr>
<th>Feature</th>
<th>Attachment features used in AXIOM® product line</th>
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</thead>
<tbody>
<tr>
<td>Main Beam</td>
<td>- 2-3/8” threads</td>
</tr>
<tr>
<td></td>
<td>- 2” threads</td>
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</tbody>
</table>

### Color Selection

- **White (WH)**
- Available in any color!

**Due to printing limitations, shade may vary from actual product.**

### Physical Data

- **Material**: Aluminum
- **Surface Finish**: Powder coated
- **Manufactured and tested in accordance with**: ASTM C635 and E3090
- **Face Dimension**: 2”
- **Profile**: Exposed tee
- **Cross Tee/Main Beam Interface**: Override
- **End Detail**
  - Main Beam: Butt cut
  - Cross Tee: Override
- **Duty Classification**: Heavy-duty

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