

# EXPODECKS

Modular multi-story deck system

01

EXPODECKS



## The design community's first choice for multi-story exhibits.

Dramatic impact can be achieved by using the entire cubic content of an exhibit space. ExpoDecks allow designers to expand their exhibits into the height of their spaces without having to increase costly linear footprints. The ExpoDecks system provides a modular, expandable multi-story solution that is low

in weight and can be built and disassembled in a fraction of the time of competitors' products.

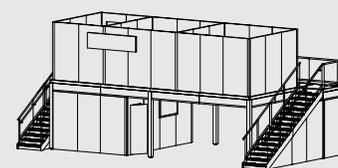
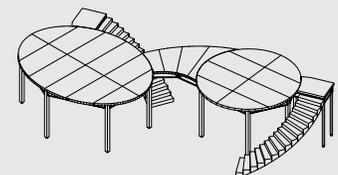
With a load rating to of 125 lbs. per square foot, the decks can support the weight of heavy trucks and large machinery. And with 20' free spans between deck columns, even more usable spaces can be created by defining separate areas and rooms on all levels of the structure.

With this flexibility, ExpoDecks have quickly become the go-to solution for exhibit designers who need an easy-to-build structure that will quickly adapt to their layouts and designs.

Available for purchase or rental, our ExpoDecks systems deliver lightweight and affordable multi-level design sophistication.



Base ExpoDecks



[highmarktech.com](http://highmarktech.com)

MADE IN AMERICA

**Highmark**  
TechSystems

# EXPODECKS TECHNICAL FEATURES

Highmark's ExpoDecks series represents the pinnacle of structural engineering for modular exhibits – they are light, strong and easy-to-assemble. Here are some of the technical features that make this exceptional functionality possible.

- All principal frame members are fabricated of **aluminum extrusions** with the exception of portal columns, adjustable feet, and bolts.
- All aluminum components conform to **ANSI H35.2 Standard 6061 T6** with minimum yield capacity of 35,000 psi (240 MPa) and a minimum tensile strength of 38,000 psi (260 MPa).
- All bolts are **A325** and conform to **ASTM standard 105,000 psi** (724 MPa).
- Stress skin deck panels have a **maximum average of distributed live load of 125 lbs. per sq.ft.** (610 kg/m<sup>2</sup>).
- Dual lock cam locks have a **tensile load of 2,500 lbs.** (11,110 N).
- Patented **Quiconex** deck paneling hold down system for added stability.
- Guard rail and hand rail assemblies conform to **IBC 1607.7.1**.
- Stair case and hand rail assemblies conform to **IBC 1009**.

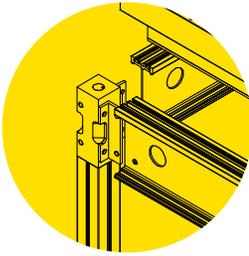
The ExpoDecks series helps designers create engaging and impactful multi-story exhibits for their clients that are surprisingly easy to ship and assemble.

*designed by ProExhibits*



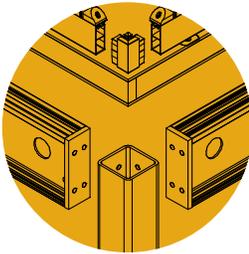
		<p><b>Aluminum T-Slot Column Sectional</b></p> <p><b>Area:</b> 3.87 sq.in / 24.95 sq cm</p> <p><b>Material:</b> 6005 T6 Aluminum</p>	<p><math>I_{xx} = 4.54 \text{ in}^4</math></p> <p><math>I_{yy} = 4.54 \text{ in}^4</math></p> <p><math>K_{xx} = 1.08 \text{ in}</math></p> <p><math>K_{yy} = 1.08 \text{ in}</math></p> <p><math>C_{xx} = 1.625 \text{ in}</math></p> <p><math>C_{yy} = 1.625 \text{ in}</math></p> <p><math>S_{xx} = 2.79 \text{ in}^3</math></p> <p><math>S_{yy} = 2.79 \text{ in}^3</math></p>	<p>188.89 cm<sup>4</sup></p> <p>188.89 cm<sup>4</sup></p> <p>2.75 cm</p> <p>2.75 cm</p> <p>4.13 cm</p> <p>4.13 cm</p> <p>45.76 cm<sup>3</sup></p> <p>45.76 cm<sup>3</sup></p>
		<p><b>6" Steel Column Sectional</b></p> <p><b>Area:</b> 8.32 sq.in / 53.66 cm<sup>2</sup></p> <p><b>Material:</b> ASTM A500 Steel</p> <p><b>Wall thickness:</b> 0.375 in / 0.95 cm</p>	<p><math>I_{xx} = 43.66 \text{ in}^4</math></p> <p><math>I_{yy} = 43.66 \text{ in}^4</math></p> <p><math>K_{xx} = 2.29 \text{ in}</math></p> <p><math>K_{yy} = 2.29 \text{ in}</math></p> <p><math>C_{xx} = 3.00 \text{ in}</math></p> <p><math>C_{yy} = 3.00 \text{ in}</math></p> <p><math>S_{xx} = 14.55 \text{ in}^3</math></p> <p><math>S_{yy} = 14.55 \text{ in}^3</math></p>	<p>1817.89 cm<sup>4</sup></p> <p>1817.89 cm<sup>4</sup></p> <p>5.82 cm</p> <p>5.82 cm</p> <p>7.62 cm</p> <p>7.62 cm</p> <p>238.51 cm<sup>3</sup></p> <p>238.51 cm<sup>3</sup></p>
		<p><b>Aluminum I-Beam Sectional</b></p> <p><b>Area:</b> 6.904 sq.in / 44.541 cm<sup>2</sup></p> <p><b>Material:</b> 6005 T6 Aluminum</p>	<p><math>I_{xx} = 7.3401 \text{ in}^4</math></p> <p><math>I_{yy} = 133.47 \text{ in}^4</math></p> <p><math>C_{xx} = 2.00 \text{ in}</math></p> <p><math>C_{yy} = 5.8023 \text{ in}</math></p>	<p>5.08 cm</p> <p>14.74cm</p>

# ASSEMBLING AN EXPODECK



**Fig. A**  
Aluminum  
Head-to-Beam  
Connection

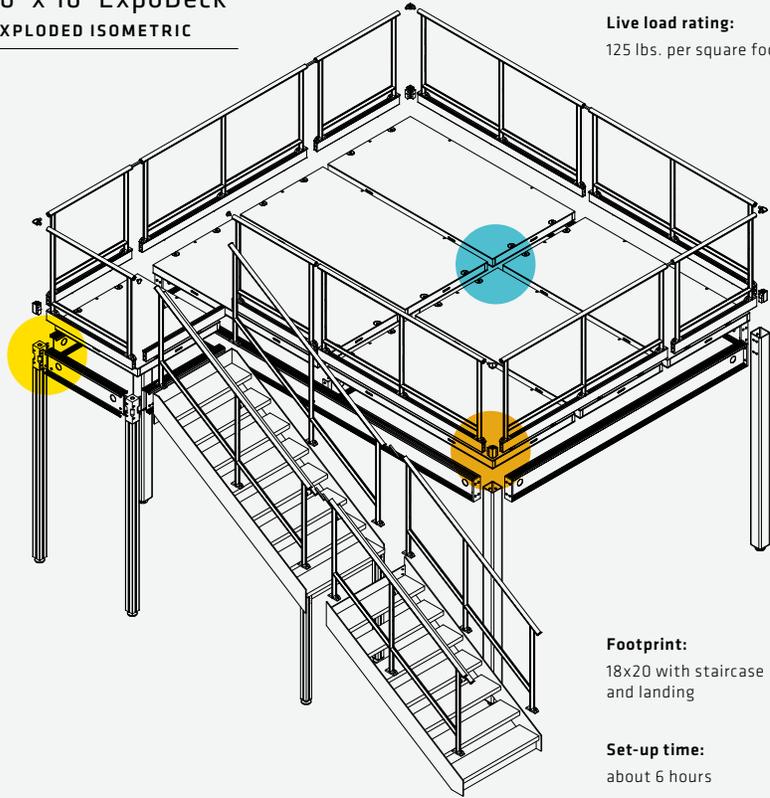
Using a 4" machined aluminum head with custom extruded brackets, ExpoDecks' grids are the most efficient on the market. With standard deck panels, decks can be endlessly expanded in 4" and 10" increments. Two A325 bolts are the only sized hardware used in any structural connection.



**Fig. B**  
Steel Portal  
Column  
Connections

Unlike aluminum head-to-beam connections, our steel portal solution allows our decks to free span up to 20' with no cross bracing. Installation uses the same A325 bolts and our integrated installation hangers – making this the smartest, strongest, and fastest beam-to-column connection on the market.

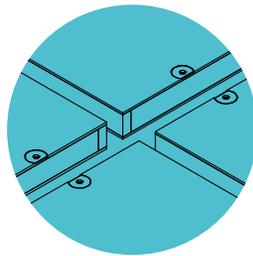
## 16' x 16' ExpoDeck EXPLODED ISOMETRIC



**Live load rating:**  
125 lbs. per square foot

**Footprint:**  
18x20 with staircase  
and landing

**Set-up time:**  
about 6 hours



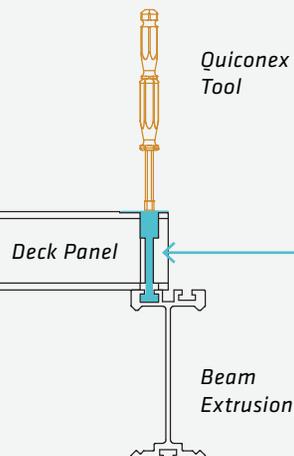
### QuicDecx / Patented Quiconex

These connections bind the deck panels to the beam in a way that increases strength and structural stability of the entire assembly. QuicDecx also eliminates drilling, screw-driving and patching on the show floor. Each stressed-skin panel can hold nearly 10,000 lbs!

See how the Quiconex tool works below.

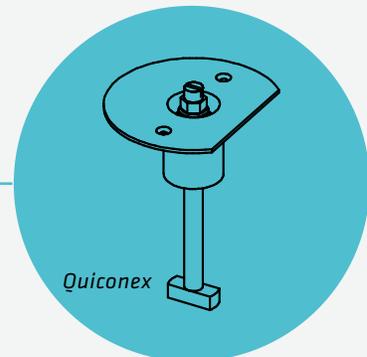


## ExpoDeck – Deck & Beam PROFILE VIEW



### Installing the decking with Quiconex

*Just compress the spring, make a ¼ turn, and tighten to install 32 sq. ft. of decking in less than one minute.*



# EXPODECKS PURCHASE / RENTAL

## Custom Build - Purchase

There are a variety of situations where it makes sense to purchase a completely customized ExpoDecks solution. We can combine, modify and expand our components to create a unique footprint without the intense time and cost of fabricating all-new parts from scratch. The parameters of custom builds vary greatly, but some projects can be ready to ship in as little as five weeks.

↓ See a custom build rental/purchase example below

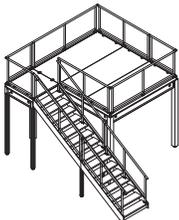
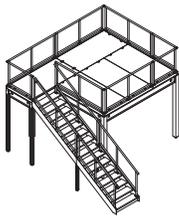
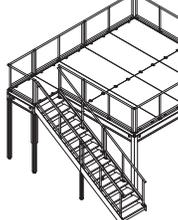
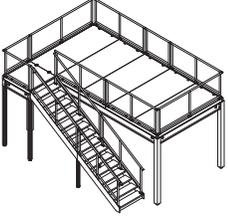
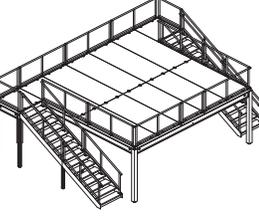
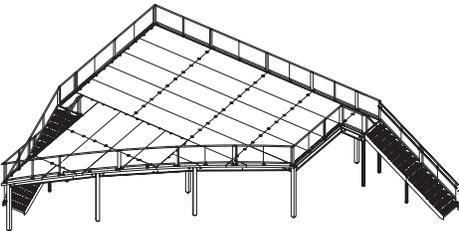
## Custom Build - Rental

A custom rental allows designers to achieve a unique look without a major capital investment. Our huge inventory of decking, beams and columns can make a unique concept a reality at a rental price. An environmentally responsible solution, custom rentals facilitate repeated use and provide a creative solution for budget conscious exhibitors.

## Standard Kits - Rental

With an eye on efficiency, Highmark offers standard ExpoDecks rental kits that include everything you need to be ready to set up on the trade show floor and be code compliant within weeks of placing your order. Though these kits are standard, these decks are designed to be easily skinned and accessorized to represent your brand and help your client stand apart from the crowd.

↓ Standard kits below

<p>■ 10 X 12</p> 	<p>■ 12 X 12</p> 	<p>■ 12 X 16</p> 	<p>■ 16X16</p> 
<p>■ 10X20</p> 	<p>■ 16 ROUND</p> 	<p>■ 20 QUARTER-ROUND</p> 	<p>■ 20X20</p> 
<p>■ CUSTOM BUILD</p> 		<p><b>Design / Build Process</b></p> <p>Start by sending us your design – it can be a full 3D rendering or simply a napkin sketch. Our engineering team will review your concept to determine which Highmark products are required to build it. We'll show you our solutions in a plan view and isometric drawing along with complete cost, weight and shipping estimates. Upon approval, we test-build the deck in our shop before shipping to your specified location.</p> <p><i>Contact our design team to get started today.</i></p>	