

Grid cable tray conversion into shelving



Overview

KTR: Scalable Shelving System Made from Reused Focused on circular economy practices, KTR transforms cable trays into a modular shelving system, advocating.

Key Takeaways

Grid cable trays can be effectively repurposed into modular shelving systems, combining sustainability with practical storage solutions.

Concept and Inspiration

Repurposing cable trays into shelving aligns with circular economy principles, extending the lifespan of materials that would otherwise be recycled as scrap metal. Projects like KTR demonstrate how decommissioned cable trays can be cleaned, adapted, and assembled into modular shelving units, creating both environmental and social benefits by involving local labor and community initiatives.

Materials and Tools

Cable trays: Standard grid or wire mesh trays, typically made of steel or aluminum.
Support brackets: Wall-mounted, trapeze, or cantilever brackets to secure trays horizontally. Fasteners: Bolts, screws, or clamps suitable for metal-to-metal connections.

Optional sidewalls: Snap-on panels or metal strips to prevent items from falling off.
Finishing materials: Paint, powder coating, or anti-rust treatment for durability.



Methods and Process

Assessment: Measure tray dimensions and determine the desired shelf spacing and load capacity. **Cleaning and Preparation:** Remove dust, debris, and any electrical residue. Sand or treat surfaces to prevent corrosion.

Support Installation: Attach brackets to walls or freestanding frames, ensuring they can support the weight of the trays and stored items. **Tray Mounting:** Place trays on brackets and secure with fasteners. Ensure trays are level and stable.

Customization: Add sidewalls, dividers, or modular connectors to create adjustable compartments, similar to Gridfinity or custom wire shelving systems.

Advantages

Sustainability: Reduces construction waste and promotes reuse. **Modularity:** Trays can be stacked, rearranged, or combined with other shelving units. **Cost-effective:** Utilizes materials that are often discarded, reducing the need for new shelving.

Durability: Metal trays provide strong support for heavy items.

Considerations

Weight limits: Ensure brackets and trays can handle intended loads. **Wall integrity:** Use appropriate anchors for heavy-duty shelving. **Aesthetic finish:** Powder coating or painting can improve appearance and prevent rust.

Accessibility: Modular design allows easy reconfiguration for different storage needs. By following these steps, grid cable trays can be transformed into functional, durable, and environmentally friendly shelving, suitable for workshops, garages, or commercial storage spaces.

Article Content

KTR: Scalable Shelving System Made from Reused

Focused on circular economy practices, KTR transforms cable trays into a modular shelving system, advocating reuse, reducing waste, and driving

WyrGrid Overhead Cable Tray Routing System

The Wyr-Grid® Overhead Cable Tray Routing System reduces the number of individual components and labor required to create common connections. Fewer components and less labor equal a simpler

Wyr-Grid Overhead Cable Tray Routing System

s p e c i f i c a t i o n s The overhead cable tray routing system shall consist of pathway sections, splice connectors, sidewalls, waterfalls, mounting brackets, and accessories designed to route and manage

Gridfinity Generator | Interactive tool

Gridfinity Generator, based on the Gridfinity project, started as a weekend experiment that grew into something bigger. It's free for everyone to use, and if you'd like to support the work and help me keep

Specifications Wyr-Grid Overhead Cable Tray Routing System

Specifications Wyr-Grid® Overhead Cable Tray Routing System Wyr-Grid ® Pathways

- Pathways are provided in five widths: 8" (203mm), 12" (305mm), 18" (457mm), 24" (610mm), and 30" (762mm)

SA-RKCB18 (Wyr-Grid Overhead Cable Tray).qxp

The Wyr-Grid® Overhead Cable Tray Routing System reduces the number of individual components and labor required to create common connections. Fewer components and less labor equal a simpler

Cable Trays

Superior-quality wire trays, integrated shelving and custom components are designed to optimize space while providing pathways for moving data or power

Keep Installation Costs Right-Side Up...with Upside-Down Design

With a flat surface, or platform, from which cables and cable bundles can be swept off to transition into cabinets or vertical cable managers, you won't have to thread them through or over a

11 Space-Saving Storage Ideas for a DIY Van Conversion

Storage and organization are important when you live in a van. These 11 space-saving storage ideas can help you make use of every inch of your van.

Best practice guide to cable ladder and cable tray systems

Cable ladder and cable tray systems The following recommendations are intended to be a practical guide to ensure the safe and proper installation of cable ladder and cable tray systems

Understanding Grid Cable Trays and Their Applications

Explore the applications, benefits, and features of grid cable trays in industries like manufacturing, data centers, and residential homes. Learn how to choose the right grid cable tray for

Zonon 100 Pcs Galvanized Grid Wall Connector Clip Cable Tray Clip ...

Zonon 100 Pcs Galvanized Grid Wall Connector Clip Cable Tray Clip Basket Tray Splice Kit Splice Washer Kit Cattle Panel Joining Set for Wire Mesh Cable End to End Connector 0.16 x 0.24 Inch

Wyr-Grid® Overhead Cable Tray System

Wyr-Grid® Cable Tray Load Rating Report Limits on deflection from cable loading are set forth in EN 61537:2007. The safe working load (SWL) is the evenly distributed load at which the transverse

Easy DIY Industrial Shelves on a Budget (Wire Shelving

Why spend a fortune on high-end industrial pipe shelves when you can use this wire shelving hack to make your own DIY industrial shelves.

Cable Tray vs Cable Basket vs Cable Ladder vs Cable

Compare cable tray, basket, ladder & trunking systems. Learn the pros, cons, and best uses for each type, with links to our UK product ranges.

KTR: Scalable Shelving System Made from Reused Cable TraysTrio

KTR: Scalable Shelving System Made from Reused Cable TraysTrio Focused on circular economy practices, KTR transforms cable trays into a modular shelving system, advocating reuse,

Mesh cable tray systems

4 1 Product description OBO mesh cable tray systems stand out through their high load capacity and good ventilation. They can be used universally. The mesh cable trays are suitable for the installation

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Panduit offers industry-leading Cable Routing Systems as part of comprehensive, integrated Data Center Solutions to effectively manage and protect high-performance communication, computing,

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