

# POSI-STRUT

## ENGINEERED OPEN WEB FLOOR SYSTEM



### **MiTek Canada Inc.'s POSI-STRUT open web floor system offers the ultimate in design flexibility!**

With longer clear spans than conventional lumber, architects and engineers can now enjoy clear span flexibility and building design freedom. Its open web design eliminates the need for cutting and drilling; so plumbing, electrical and ventilation services are installed quickly, saving time and money. POSI-STRUT trusses also permit the installation of strongback bridging which reduces vibration.

### **FEATURES**

- Available in 9-1/4", 11-1/4", 11-7/8", 12-3/4", 14" & 16" depths to match most conventional or engineered lumber products.
- Manufactured to precise engineering specifications, for a strong, rigid truss system.
- Delivers reliable performance.

The POSI-STRUT open web floor system is light-weight so it's easy to handle and install. Plus, its wide nailing surface speeds up installation of floor sheathing. The top chord bearing detail allows support beams to be hidden without the extra cost of installing joist hangers. Our Intertek Listed one hour, single-layer drywall fire rating simplifies compliance with building codes. MiTek's POSI-STRUT trusses minimize the environmental footprint by incorporating renewable as well as recycled materials to fight climate change by reducing greenhouse gases.



**MiTek**<sup>®</sup>

# POSI-STRUT SYSTEM

## ADVANTAGES

### LIGHTWEIGHT

Mainly produced with 2x3 or 2x4 in chords, in combination with our POSI-STRUT webs, it results in one of the lightest engineered wood products in the industry.



### LONGER CLEAR SPANS

With longer clear spans than conventional lumber, architects and engineers can now enjoy clear span flexibility and building design freedom. POSI-STRUT ingenious design allows shallower depth floors which contributes to the overall building savings.

### PRECISELY ENGINEERED

POSI-STRUT is designed and manufactured to precise engineering specifications. Since it is custom-built for your project, there is no need to cut the structural elements on site. Ingenious assembly details minimize the usage of other costly materials. POSI-STRUT floor is designed and produced to your specific needs and delivers reliable performance.



### TOP CHORD BEARING

Probably one of the most appreciated features of the POSI-STRUT open web floor system is the ability to hide beam in the floor by using a top chord bearing condition. No joist hangers are necessary and substantial material and labour savings can be achieved.

### OPEN WEB DESIGN

Its open web design eliminates the need for cutting and drilling; plumbing, electrical and ventilation services are quickly installed, saving time and money. Main ventilation distribution duct work can also be easily dissimulated in the floor thickness. This feature eliminates the concern of modifying structural elements and/or the time and materials of costly repair details.



### WIDE NAILING SURFACE

POSI-STRUT wide nailing surface speeds up installation of the structural elements and floor sheathing. The wide flange width (2.5" or 3.5") ensures a large surface to apply the subfloor adhesive and contribute to a better subfloor sheathing support.

### STRONGBACK BRIDGING

POSI-STRUT open concept allows the installation of strongback bridging, which actively contributes to reduce floor vibration. The addition of this important structural component allows the individual joist to work together as a "floor system". The quantity, size, location and nailing details will be indicated on the provided shop drawings and layout.

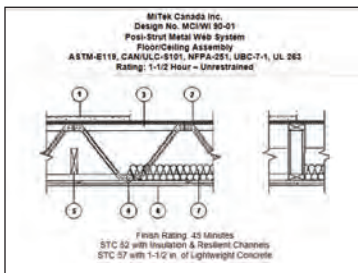


### TRIMMABLE ENDS ENSURE A PERFECT FIT

Ultimate in design flexibility: using the same engineering support that has become the standard in the structural component industry, our onsite trimmable detail eliminates headaches due to bearing location discrepancies or design changes. Since POSI-STRUT allows precise customer design and trimmable conditions, you know that you can count on a highly polyvalent and efficient floor system.

### FIRE RATINGS

POSI-STRUT has different fire-rated assemblies to suite your project needs and building codes compliance. Intertek Listed fire-rated assemblies meet CAN/ULC-S101 and ASTM-E119 standards (1 hour / single-layer drywall). POSI-STRUT is the only engineered wood product that lists a 90-minute fire rating with a single layer of gypsum. If you need a 45 minutes, 60 minutes or 90 minutes fire protection, we have a list of certified assemblies that will meet/exceed your project needs and/or building code requirements.



### SOUND RATINGS

POSI-STRUT has also different certified assemblies for different sound transmission requirements. Please refer to the available Intertek certified assemblies for details or contact us and we will gladly help you. POSI-STRUT has all the necessary code approvals to suit your needs.

# MiTek®

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MiTek.ca

