

[Manuals.plus](#) /

› [Simpson Strong-Tie](#) /

› Simpson Strong-Tie CS18 18-Gauge Galvanized Coiled Strap Instruction Manual

Simpson Strong-Tie CS18

Simpson Strong-Tie CS18 18-Gauge Galvanized Coiled Strap

Model: CS18

INTRODUCTION

The Simpson Strong-Tie CS18 is an 18-gauge galvanized steel coiled strap, 200 feet in length, designed to provide structural reinforcement and connection in various construction applications. This strap is specifically sized to fit nominal 2x lumber, making it ideal for residential and light commercial wood framing. Its G90 galvanization offers enhanced corrosion resistance, ensuring durability and long-term performance.

The CS18 coiled strap is supplied in lightweight cartons for ease of transport and dispensing on job sites. It serves as a versatile solution for creating continuous load paths and resisting tension forces in structural assemblies.

SAFETY INFORMATION

Always prioritize safety when working with construction materials and tools. Adhere to the following guidelines:

- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and sturdy footwear.
- Handle the coiled strap carefully to avoid cuts from sharp edges.
- Use only approved fasteners as specified by local building codes and Simpson Strong-Tie recommendations.
- Ensure all power tools are in good working condition and used according to manufacturer instructions.
- Consult with a qualified engineer or building professional for specific structural design requirements.

SETUP AND INSTALLATION

The CS18 coiled strap is designed for easy integration into wood framing. Follow these steps for proper installation:

1. **Planning:** Determine the required length of the strap based on the structural connection and load path.

The strap is 1.25 inches wide and 0.05 inches thick, suitable for nominal 2x lumber.

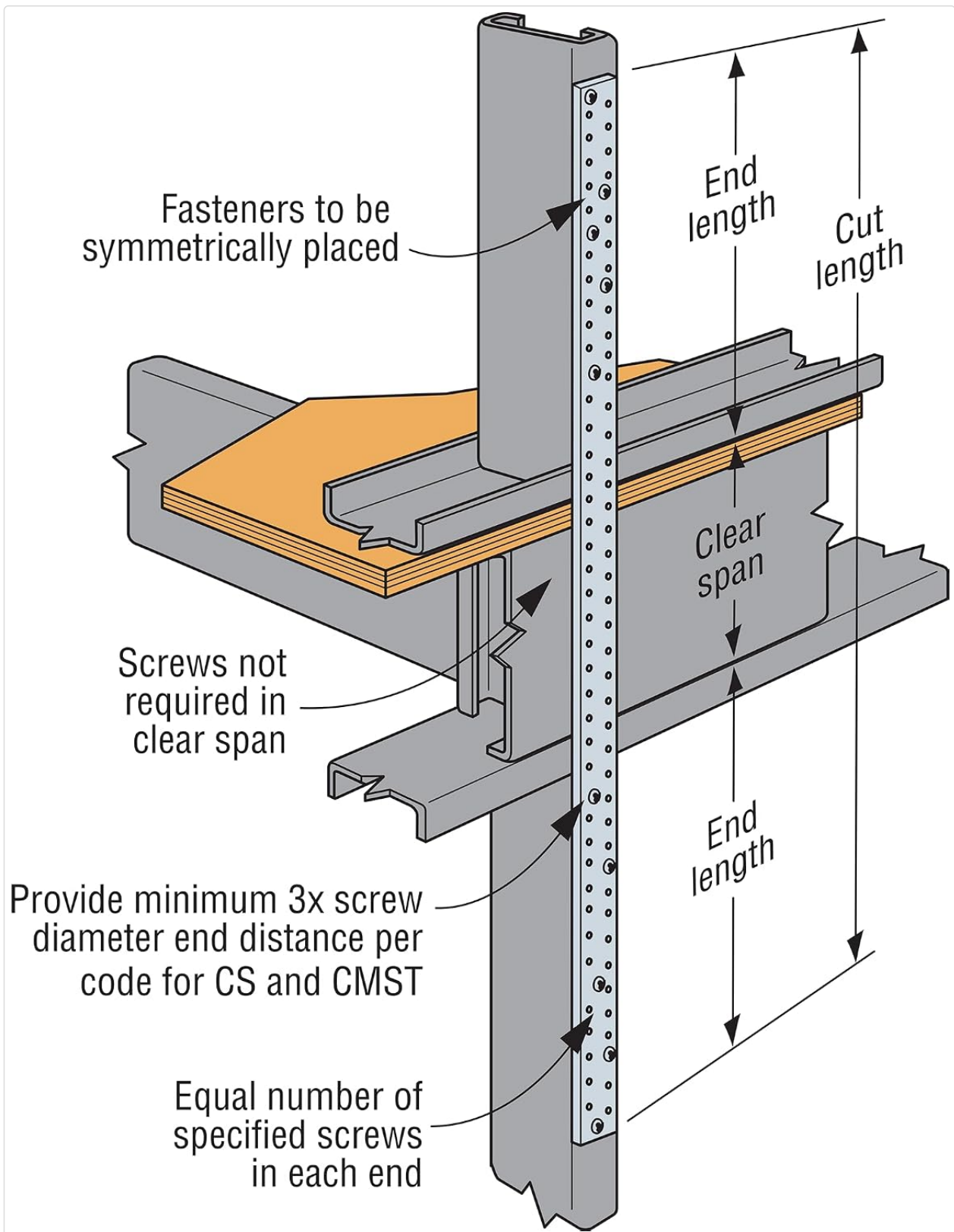
2. **Cutting:** Cut the desired length of the strap using appropriate metal shears or snips. Ensure clean cuts to avoid burrs.
3. **Positioning:** Place the strap over the structural members to be connected. Ensure it lies flat against the wood surface. The strap can be bent to conform to corners or angles as needed for the connection.
4. **Fastening:** Secure the strap using specified fasteners (e.g., Simpson Strong-Tie Strong-Drive® screws or nails). Fasteners should be symmetrically placed at each end of the strap, as indicated in technical diagrams. Provide a minimum 3x screw diameter end distance per code for CS straps.
5. **Verification:** After fastening, ensure the strap is taut and securely attached, providing the intended structural connection.



The CS18 coiled strap is supplied in a compact, lightweight carton for easy handling and dispensing.



This image shows how coiled straps are integrated into wood framing to enhance stability and load transfer.



This detailed diagram provides critical information on fastener spacing, end lengths, and clear span requirements for correct installation of the CS18 coiled strap.



Installation of coiled straps often involves the use of power tools like nail guns for efficient and secure fastening.

OPERATING AND USAGE

The CS18 coiled strap is a passive structural component. Its function is to transfer loads and resist forces within a structural system once properly installed. There are no operational controls for the strap itself. Proper

usage involves:

- Ensuring the strap is not overstressed or bent beyond its design limits during installation.
- Using the correct number and type of fasteners as specified for the application to achieve the rated load capacity.
- Avoiding damage to the galvanized coating during handling and installation to maintain corrosion resistance.
- Confirming that the strap is installed in accordance with all applicable building codes and engineering specifications.



The galvanized coating on the 18-gauge steel strap provides corrosion resistance when installed on wood.



Appropriate fasteners, such as screws or nails, are essential for securing the coiled strap to structural members.

MAINTENANCE

The Simpson Strong-Tie CS18 coiled strap is made from galvanized steel (G90 coating), which provides excellent corrosion resistance. Once properly installed, it requires minimal maintenance. However, periodic inspection is recommended, especially in environments prone to moisture or chemical exposure.

- **Visual Inspection:** Periodically check installed straps for any signs of damage, excessive corrosion, or loosening of fasteners.
- **Cleaning:** If necessary, clean the strap with a mild detergent and water. Avoid abrasive cleaners or tools that could damage the galvanized coating.
- **Repair:** If significant damage or corrosion is observed, consult a structural engineer to determine if replacement or additional reinforcement is required. Do not attempt to repair severely compromised straps.

TROUBLESHOOTING

Most issues related to coiled straps stem from improper installation or selection. Here are common concerns and their resolutions:

- **Strap not holding securely:** Ensure the correct number and type of fasteners are used, and they are properly driven into the structural members. Verify that the wood is sound and free from rot or damage.
- **Premature corrosion:** Confirm that the G90 galvanized coating is intact. If the strap is exposed to harsh chemicals or constant moisture, consider additional protective measures or a different product designed for such environments.
- **Strap bending or deforming:** This may indicate that the strap is undersized for the applied load or that the load path is not correctly designed. Consult a structural engineer to assess the design.
- **Difficulty cutting or bending:** Use appropriate heavy-duty metal shears or snips. For complex bends, pre-bend the strap carefully to avoid kinking or weakening the material.

SPECIFICATIONS

Attribute	Detail
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Attribute	Detail
Manufacturer	Simpson Strong-Tie
Part Number	CS18
Item Model Number	CS18
Material	Galvanized Steel (G90 coating)
Gauge	18-Gauge
Length	200 ft. (2400 inches)
Width	1.25 inches
Thickness	0.05 inches
Style	Zinc Galvanized, G90
Item Package Quantity	1
Included Components	18 gauge 200ft., Simpson Strong-Tie CS18 - Galvanized Coiled Utility Strap
Item Weight	Approximately 0.01 ounces (Note: This value may be a data entry error for a 200 ft steel strap.)

WARRANTY INFORMATION

The Simpson Strong-Tie CS18 Coiled Strap comes with a **12-month warranty** from the date of purchase. This warranty covers defects in material and workmanship under normal use and service. It does not cover damage resulting from improper installation, misuse, alteration, or natural wear and tear. For specific warranty claims or details, please refer to the official Simpson Strong-Tie warranty policy or contact customer support.

CUSTOMER SUPPORT

For technical assistance, product inquiries, or support regarding the Simpson Strong-Tie CS18 Coiled Strap, please contact Simpson Strong-Tie directly. Their official website provides comprehensive resources, including product data sheets, installation guides, and contact information for customer service representatives.

Website: www.strongtie.com

Always refer to the latest product information and installation instructions available from Simpson Strong-Tie to ensure compliance with current building codes and best practices.

Official Product Video

Your browser does not support the video tag.

This video provides an overview of Simpson Strong-Tie's commitment to quality and innovation in residential and commercial construction products, including various connectors and fasteners.

