

**LOCTITE®**

# ADHESIVE CONNECTION SYSTEM

**SPECIALLY FORMULATED FOR BONDING  
LIGHT GAUGE STEEL BUILDING COMPONENTS**



## THE CHALLENGE

Light Gauge Steel offers a variety of benefits compared to wood frame construction. These benefits include higher strength to better withstand severe weather conditions and natural disasters, as well as impervious resistance to termites and other damage causing insects. Light Gauge Steel is also

- moisture resistant
- warp resistant
- non-combustible
- environmentally friendly
- 100% recyclable

One of the major challenges that Light Gauge Steel fabricators face today is the amount of time and cost required to join the metal components. Now, through the use of the Loctite® Adhesive Connection System, manufacturers have a solution to overcome this problem.



## THE SOLUTION

The Loctite® Adhesive Connection System combines the use of a high strength structural adhesive with mechanical fasteners to assemble Light Gauge Steel structures.



*This patent-pending process allows fabricators to achieve increased connection strengths while significantly reducing assembly time and overall costs compared to traditional fastening methods.*

Benefits of the Loctite® Adhesive Connection System include:

- Ease of Use
- Superior Connection Strength
- Fewer Fasteners Required
- Reduced Assembly Time **up to 85%**
- Reduced Overall Costs by **up to 65%**

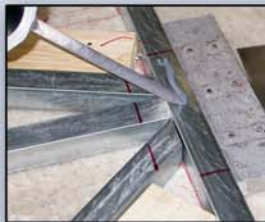
## TYPICAL APPLICATIONS

The Loctite® Adhesive Connection System can be used to fabricate a variety of building components for both residential and non-residential structures, including:

- Roof Trusses
- Floor Trusses
- Shear Walls
- Headers
- Jamb Studs
- Cantilever Beams

### Trusses

Assembling light gauge steel roof and floor trusses is much faster and easier with the Loctite® Adhesive Connection System.



Loctite® adhesives have been formulated to flow easily onto parts without running, allowing for clean and accurate dispensing.

The use of a pneumatic pin system, such as the Aerosmith® VersaPIN™ fastening system, in conjunction with the Loctite® adhesive, provides a significant savings in assembly time, while providing immediate structural integrity.



## THE SYSTEM

The Loctite® Adhesive Connection System consists of two major components:

### Adhesive

Henkel offers patent-pending, structural adhesive technology that has been specially formulated to provide long-term bond strengths on galvanized surfaces. The two-part adhesive technology provides significant bond strength and durability, resulting in higher load carrying and enhanced cyclic loading properties.

The Loctite® Adhesive is available in side-by-side cartridges for applications requiring portable dispensing, and 5-gallon pails for semi-automated panelizing processes. From hand held dispensers to large volume, meter-mix dispense systems, we offer a full line of Loctite® dispensing equipment to meet your assembly needs.



### Fasteners

Mechanical fasteners such as pneumatic pins, screws, rivets or clinches provide the necessary clamping force required during the adhesive cure cycle. The mechanical fasteners also ensure the structural integrity of the assembly to provide adequate fire resistance.



**To learn more about the new, innovative Loctite® Adhesive Connection System, simply call the Loctite® Light Gauge Steel Construction team at 860-571-5223.**

## Shear Walls

Compared to the traditional method of using screws only, the Loctite® Adhesive Connection System is an ideal alternative for assembling light gauge steel shear walls. For example, when used to assemble 4' x 8' shear walls to meet Seismic Zone 4 requirements, the Loctite® Adhesive Connection System with pneumatic pins can provide consistently higher cyclic load capacities, reduce assembly time **by more than 85%**, and reduce overall costs **by almost 60%**!

### Traditional Method



*Shear Wall with Screws*

### Loctite® Method



*Shear Wall with Adhesive and Pins*

vs

Description	Traditional Cost	Loctite® System Cost
300 collated screws	\$7.50	N/A
75 pneumatic pins	N/A	\$1.13
45 minute assembly	\$15.00	N/A
5 minute assembly	N/A	\$1.66
Adhesive Required	N/A	\$7.20
<b>Total Assembly Cost</b>	<b>\$22.50</b>	<b>\$9.99</b>

*Cost Comparison table*

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