



# Application Showcase

## Basement Center Support Beams



### Just the Facts

**Builder:** Gary Warner

**Structural Engineer:** Master Engineers and Designers, Inc. (Lynchburg, VA)

**Supplier:** LiteSteel Technologies

**Built:** May 2008

**LSB Section Used:** (1) 1000LSB300-118

**General Description of Project:**

Construction of a single story ranch-style home with basement. The LSB beam spanned 49 feet with 3 columns.

**Call 877-285-2607** for LSB Product Engineering and Support

### LSB Spans the Distance to Reduce Cost

LiteSteel™ beam (LSB®) offers significant cost reducing advantages in residential construction. For this project, the lightweight LSB eliminated the need for a crane during installation. The strength of the LiteSteel beam also provided the ability to span greater distances between bearing points thus reducing the number of concrete footings and bearing posts required.



INSTALLING LSB ON SITE



FLOOR JOIST OVER LSB WITH NAILING PLATE

“LSB was easy to install and enabled longer spans between bearing posts.”

**Gary Warner, Builder**

### Working with LSB is Easy

When it came to installation, the builder was impressed by LSB’s workability on site. Despite being a steel beam, LSB can be lifted and carried like lumber and site workers were able to cut, drill, and attach LSB using standard tools and fasteners.

### Overall Benefits of LSB

- Long span capability with a lighter beam with the same load bearing performance as heavier LVL or hot rolled steel sections
- Easy and safe on-site handling and installation
- Enables simple integration with traditional construction techniques
- Eliminates the need for a crane
- Green Solution (65-70% recycled content)
- Overall system savings of over 75% possible\*



SPLICING AND STIFFENING LSB

\*LST estimate based on: System savings as a % of beam cost  
 49 feet of LSB  
 Parity on materials cost  
 Labor savings not estimated  
 \$300 estimated savings on crane rental  
 \$150 estimated savings on eliminating one post and footing



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**Basement beams that require fewer bearer posts**  
**The look and strength of steel with easier installation**

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