

Lighthouse Christian School

in association with HARDAWAY Construction

When high waters destroyed a large preschool in Nashville, LP Engineered Wood products rose to the occasion to save the day.

LOCATION

Nashville, Tennessee

WEBSITE

www.hardaway.net

PROJECT SUMMARY

In May 2010, severe flooding hit Nashville, including the campus of the pre-K through grade-12 Lighthouse Christian School. Hardest hit was the preschool, which was completely destroyed in the flooding, endangering the existence of the entire school. ABC's *Extreme Makeover: Home Edition* team, in partnership with HARDAWAY Construction, stepped up to rebuild the preschool and save the campus in less than a week. In order to hit their deadline, the combined team utilized numerous engineered wood products from LP Building Products to help maximize time & labor efficiencies—and to save the day.

PROJECT OBJECTIVES

- Fast, efficient construction
- Energy efficiency
- Structural soundness

SOLUTION

By using a variety of engineered wood products from LP Building Products, including LP® SolidStart® LSL and LP SmartSide® Trim & Siding, HARDAWAY Construction was able to lead a team of over 4,000 volunteers in building a strong, energy-efficient preschool in less than one week.



Rebuilding the 6,500-square-foot preschool required accomplishing in one hour what might normally take a day on a traditional job site.



IMPLEMENTATION

HARDAWAY Construction's project managers, Bryon Olsen and Darrell Etheridge, met early on with the project managers from *Extreme Makeover: Home Edition* to gain an understanding of horizontal construction – a method by which the contractor and multiple subcontractors work on-site at the same time.

There was a need for a high degree of efficiency on the job site, and the project managers knew that LP® SolidStart® LSL, LP® SmartSide® Trim & Siding, and LP® TechShield® Radiant Barrier Sheathing were the options to use.

LP SolidStart LSL has several advantages over traditional lumber, according to Olsen. Not only is it stronger, straighter and can handle longer spans, but it has a more consistent moisture content than lumber, which prevents warping and twisting.

However, Olsen said the real advantage came when using the product itself. As an engineered wood product, it lacks the voids, knots and imperfections of lumber, which results in reduced time on-site having to cut and work around such imperfections. It also results in substantial reductions in wasted product. He said that saved valuable time on-site, which was critical to finishing the project on the show's required deadline.

LP SmartSide Trim & Siding was a logical extension from using LP SolidStart LSL, Etheridge said. Like its counterpart, Etheridge said LP SmartSide lacks the imperfections of lumber, yet builders can cut, hammer and screw into it just like lumber. The product offers the added peace of mind of being resistant to termites and fungal decay, due to LP's proprietary SmartGuard® manufacturing process.

LP SmartSide siding also comes in longer lengths than many other sidings, which resulted in fewer pieces having to be handled by work crews on-site.

As a final step, LP TechShield Radiant Barrier Sheathing was installed in the school's roof. This was a critical step in providing the preschool with long-term energy efficiency and should help Lighthouse achieve savings on its utility bills during the hot Nashville summers.

OUTCOME

Lighthouse Christian preschool students will learn in a facility built on higher ground from durable, sustainable products that will resist termites, fungus, and moisture. And with LP TechShield Radiant Barrier Sheathing, the school should see reduced utility costs.

On September 16, the new school was "revealed" to Sweatt, his family, the students, teachers, and community of Lighthouse Christian School. They were greeted with a beautiful facility, thanks in part to the colorful LP SmartSide siding.

On November 14, 2010, ABC's *Extreme Makeover: Home Edition* revealed the school to the nation in their weekly episode.

But the real reward came at the end of the episode when the nation saw the rays of hope shining on the faces of those who are Lighthouse Christian School.

LP products lack the imperfections of lumber, which results in reduced time on-site having to cut and work around such imperfections, saving valuable time on-site and minimizing waste.



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