



PREMIER SIPS
STRUCTURAL INSULATED PANELS

PREMIER SIPS AGAINST KOBE EARTHQUAKE

Kobe, Japan



January 1995 - One of Japan's deadliest earthquakes hit Kobe, killing more than 5,000 people and injuring thousands. The 7.2-magnitude earthquake hit the city of 1.5 million people, located 280 miles west of Tokyo. Entire blocks of buildings were reduced to rubble and roadways and rails systems were twisted.

Prior to the 1995 earthquake, six homes using Premier SIPS components were built in the Kobe area. All the homes were located within miles of the quake's epicenter. The six Kobe homes pictured here were visited within days after the quake. All the homes stood solidly against the force of the quake.

PROJECT PROFILE

Residential

PROJECT DETAILS

Premier Distributor

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Architect

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Contractor

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Project Size

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Premier SIPS Used

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PROJECT PROFILE Kobe, Japan



The Premier SIPS sheathing resists tension and compression while the inner core provides continuous bracing.

Premier SIPS develop their shear strength from the use of outer facings of 7/16" OSB manufactured in conformance with the PS2 standard for sheathing. Each Premier SIPS wall panel is connected to base plates, top plates, and vertical boundary members with fasteners, typically 8d nails. The 8d nails provide for the transfer of the shear loads from the OSB facings to the wood plating materials while the adhesive bond of the OSB to the Premier MPS core provide resistance for the OSB from buckling. This performance is identical to conventionally built OSB sheathed shear walls where the OSB provides shear resistance by using fasteners to transfer shear loads to the framing members.

The Premier SIPS Solution

Energy Efficient & Cost Effective: Structures regularly save up to 60% on heating and cooling costs, significantly preserving fossil fuels.

Healthy: Superior indoor air quality with reduced infiltration of outside pollutants, which can benefit those with respiratory ailments

Comfortable: Warmer in the winter, cooler in the summer, ideal controlled indoor environments for California's climate.

Easy to Operate: Tight building envelope reduces HVAC mechanical equipment sizes and related heating and cooling over the life of each building

Environmentally Responsible: SIPS produce 30% less job-site waste than traditional construction

LEED Points: Up to 23 valuable environmental design points through the standard in green certification.

BENEFITS PROVIDED BY SIPS

COST SAVINGS

Premier SIPS are up to 55% more energy efficient reducing overall energy costs.

SPEEDY CONSTRUCTION

Premier SIPS reduced the home's construction schedule by 3 to 4 weeks

REDUCED HVAC REQUIREMENTS

Reduced HVAC requirements by approximately half, providing both initial capital savings and lower annual heating and cooling bills

REDUCED WASTE

Decreased construction materials waste and resulting disposal fees and environmental impacts



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