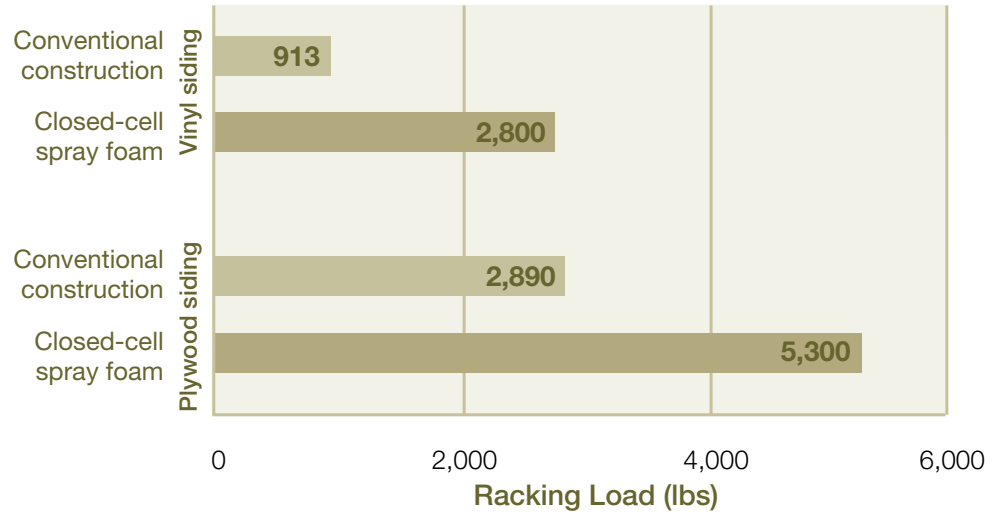


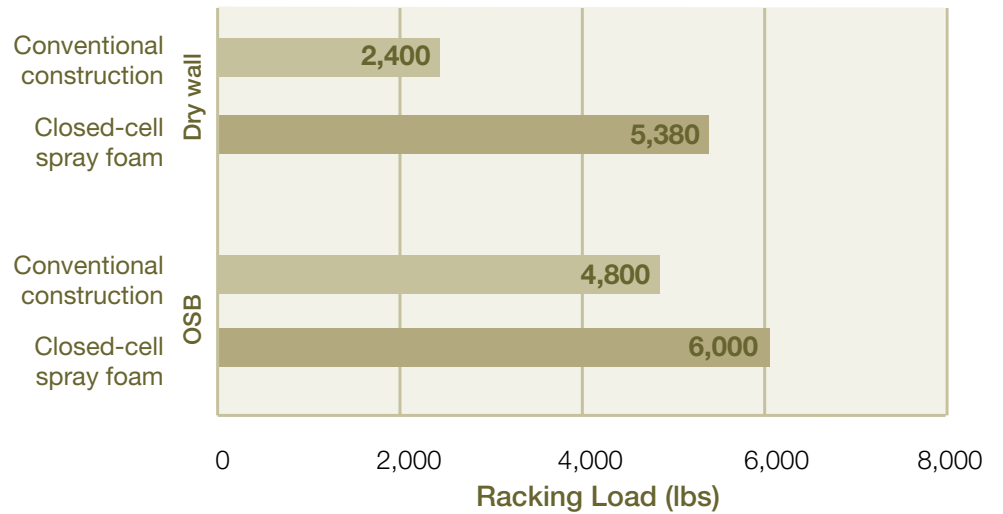
# Structural Strength

“During a design racking event like a hurricane, there would be less permanent deformation of wall elements and possibly less damage to a structure that was braced with SPF [spray polyurethane foam] filled walls.”<sup>1</sup>

**Average Maximum Racking Load (structural resistance to wind) Supported by 16” On-Center Spruce-Pine-Fir 2x4 Stud Framing<sup>1</sup>**



**Maximum Racking Load (structural resistance to wind) for SPF vs Conventional R-19 Batts Supported by 24” On-Center 20-Gauge Light Structural Steel Framing<sup>2</sup>**



1. National Association of Home Builders, Testing and Adoption of Spray Polyurethane Insulation for Wood Frame Building Construction, May 25, 1992

2. Test results are reported in a letter from Bob Dewey, Mechanical Engineer, NAHB Research Center to Mason Knowles, The Society of the Plastics Industry, Inc. Spray Polyurethane Foam Division, November 18, 1996