



SIP No. 2056

Subject: Point Loading of Walls

Date: November 2007

R-Control SIP walls are used in combination with various types of roof systems. These include R-Control SIPs, rafter and ridge beam systems, and roof trusses.

Roof systems, such as roof trusses, often result in the need to transfer a point load from the roof system uniformly onto the wall. R-Control has evaluated the point load capacity of R-Control SIPs as shown in the attached Wall-Point Loading Chart. The total load should never exceed the lesser of the point load capacity or the R-Control SIP axial and transverse capacity from the R-Control wall load design charts. If the design load exceeds these point loads, the R-Control SIP can be fabricated to accept 2X posting or other posting as determined by the engineer of record.

Wall - Point Loading

Load Design Chart #2C (See Detail SIP-101)		
R-Control Structural Insulated Panels		
	Point Load Width	
	1 1/2"	3"
Single Top Plate	2000 lbs. ³	2150 lbs. ³
w/Spacer Board¹	2100 lbs. ³	3000 lbs. ³
w/Optional Cap Plate²	4000 lbs. ³	4150 lbs. ³

- [1] MINIMUM 3/8" CDX PLYWOOD OR EQUIVALENT
- [2] MINIMUM SPF#2 2X OR EQUIVALENT
- [3] ULTIMATE LOAD DIVIDED BY SAFETY FACTOR OF THREE OR 1/8" DEFLECTION, WHICHEVER IS LOWER.
- [4] WALL LOADING SHALL BE DESIGNED TO THE LESSER OF THE POINT LOAD CAPACITY OF LOAD DESIGN CHART #2C OR THE R-CONTROL SIP AXIAL CAPACITY FROM THE WALL LOAD DESIGN CHARTS.
- [5] FOR POINT LOADS EXCEEDING THESE CAPACITIES, SPECIFY POSTING AS DESIGNED BY THE ENGINEER.
- [6] ALL VALUES ARE FOR NORMAL DURATION LOADS. NO INCREASES FOR OTHER LOAD DURATIONS ARE ALLOWED.



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