



SIP No. 2010

Subject: OSB Orientation

Date: November 2007 (Revised January 2015)

Oriented Strand Board (OSB) as the name implies is manufactured in a process that results in properties that are dependent upon the orientation of the wood strands. An OSB panel is stronger in the machine direction versus the cross machine direction. The machine direction is easily discernible on OSB, as the majority of the strands visible will be parallel to the machine direction. Manufacturers indicate with markings which direction the machine direction is on a panel.

R-Control SIPs are normally used in the machine direction. For example, a 4' x 10' R-Control SIP is manufactured with the OSB machine direction parallel to the 10' length. This ensures the performance of R-Control SIPs as shown in the R-Control SIP Load Design Charts.

In limited wall applications, R-Control SIPs can be used with the machine direction of the OSB perpendicular to SIP wall height. Please refer to R-Control SIP Load Design Chart #2B and #4.



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