

OSB for Structural Insulated Panel (SIP) Facing Material SF-133

Oriented strand board (OSB) for use as facing material of structural insulated panels (SIPs) shall meet the minimum requirements in the International Residential Code (IRC) section **R613.3.2 (Facing)**. Facing material shall be wood structural panels conforming to US Department of Commerce Voluntary Product Standard PS 2, having a minimum nominal thickness of 7/16 inch (11 mm), identified by the mark of an approved agency and shall meet the additional requirements of the IRC Table R613.3.2 (included in **Table 1** of this document for reference).

Table 1. Minimum Properties¹ for OSB Facing Material Used in SIP Walls

Flatwise Stiffness ² (lbf-in ² /ft)		Flatwise Strength ³ (lbf-in/ft)		Tension ³ (lbf/ft)		Density ⁴ (pcf)	IRC ⁵
Along	Across	Along	Across	Along	Across		
54,700	27,100	950	870	6,800	6,500	35.0	2009
55,600	16,500	1,040	460	7,450	5,800	34.0	2012

- 1) Values not intended for design use
- 2) Mean test value
- 3) Characteristic test value (5th percent with 75% confidence)
- 4) Mean test value and based on oven-dry weight and volume
- 5) 2009 IRC revision RB128-09/10 approved and is published in the 2012 Edition.

The OSB panels from the manufacturers listed in **Table 2** met the requirements in section R613.3.2 of the International Residential Code. The manufacturer shall designate whether the product meets the 2009, 2012 or both years of the IRC.

Table 2. OSB Manufacturers

Manufacturer	Location (mill number)	Minimum Thickness (in.)	TECO Report
Huber Engineered Woods, LLC	Crystal Hill, VA (229)	7/16	10-P-0007 ^a 11-P-0057 ^b

- a) Met 2009 IRC requirements.
- b) Met 2012 IRC requirements.

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