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

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 **R610.3 (Materials)** complying with the requirements of ANSI/APA PRS 610.1. 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 meet requirements of the ANSI/APA PRS 610.1 (included in **Table 1** of this document for reference).

Table 1. Minimum Properties [1] for OSB Facing Material Used in SIP Walls

Flatwise Stiffness [2] (lbf-in²/ft)		Flatwise Strength [3] (lbf-in/ft)		Tension [3] (lbf/ft)		Density [2, 4] (pcf)	IRC[5]
Along	Across	Along	Across	Along	Across		
55,600	16,500	1,040	460	7,450	5,800	34.0	2024, 2021, 2018
							2015, 2012
54,700	27,100	950	870	6,800	6,500	35.0	2009

1) Tested in accordance with ANSI/APA PRS 610.1 Annex A. Values not intended for design use.
2) Mean test value.
3) Characteristic test value (5th percent with 75% confidence).
4) Based on oven-dry weight and volume.
5) Direct reference to ANSI/APA PRS 610.1 for 2024, 2021 and 2018. 2015 and 2012 IRC included Minimum Facer Properties revised from 2009. 2009 IRC revision RB128-09/10.

The OSB panels from the manufacturers listed in **Table 2** met the requirements in ANSI/APA PRS 610.1 as specified in **Table 3.**

Table 2. OSB Manufacturers

Manufacturer	Location (mill number)	Minimum Thickness (in.)
West Fraser	Guntown, MS (502)	7/16

Table 3. Minimum Properties for West Fraser Proprietary OSB Facers

Flatwise Stiffness (lbf-in²/ft)		Flatwise Strength (lbf-in/ft)		Tension (lbf/ft)		Density (pcf)
Along	Across	Along	Across	Along	Across	
55,600	27,100	1,040	870	7,450	6,500	35.0

PFS TECO maintains accreditations with the ANSI National Accreditation Body (**ANAB**) and Standards Council of Canada (**SCC**). The ANAB ISO/IEC 17020 Inspection Body scope of accreditation is available from ANAB under Certificate Number: **AI-3954**. The SCC ISO/IEC 17025 Certification Body scope of accreditation is available from SCC under File Number: **10027**.