

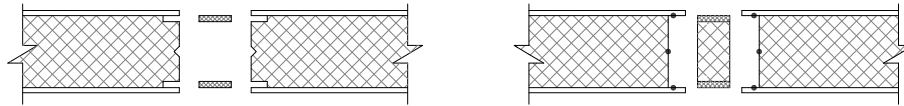
Technical Bulletin

Wall Panel Design Charts (OSB Spline) - NBC of Canada 2005

This bulletin provides wall panel design loads for the Insulspan® Structural Insulating Panel (SIP) System when used as a wall system component designed in accordance with the **National Building Code of Canada 2005**. Insulspan has completed structural testing of the Insulspan SIP System for this application using a third party testing laboratory following the requirements of ASTM E72, **Standard Test Methods of Conducting Strength Tests of Panels for Building Construction**. For additional information, refer to Insulspan Technical Bulletin 107 which provides a copy Canadian Construction Materials Centre evaluation report 13016-R.

The attached **Wall Panel Design Load Chart** dated January 6, 2010 summarizes design loads for Insulspan SIP wall panels with OSB spline joint configurations intended for use as cladding on timberframe buildings as noted.

- Table W-1-S – Transverse Wind Load (OSB Surface Spline or Insulspline Joint)



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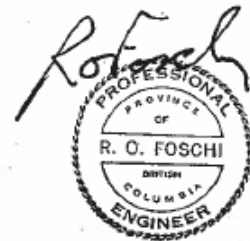
Table W-1-S WALL PANEL DESIGN LOAD

OSB SURFACE SPLINE OR INSULSPLINE JOINTS (USED FOR TIMBERFRAME STRUCTURES ONLY)													
Thickness		Allowable Deflection	PANEL SPAN (feet)										
SIP	EPS		8	9	10	11	12	13	14	15	16	17	18
TRANSVERSE WIND LOAD (psf) with AXIAL LOAD = 0 pif													
4 1/2"	3 5/8"	L/360	25	21	18	15	13	-	-	-	-	-	-
		L/240	38	33	28	24	21	-	-	-	-	-	-
		L/180	50	43	37	32	28	-	-	-	-	-	-
6 1/2"	5 5/8"	L/360	38	33	29	25	22	-	-	-	-	-	-
		L/240	58	51	44	39	34	-	-	-	-	-	-
		L/180	70	60	51	45	39	-	-	-	-	-	-
8 1/4"	7 3/8"	L/360	48	43	38	34	30	27	24	21	19	17	16
		L/240	71	63	56	50	45	40	36	33	30	27	25
		L/180	92	80	69	61	53	48	43	39	35	32	30
10 1/4"	9 3/8"	L/360	58	52	47	41	36	33	31	28	26	24	22
		L/240	83	75	68	60	53	50	47	43	39	36	33
		L/180	106	96	87	77	68	61	54	49	44	40	37

Notes:

1. The tabulated values are design loads based upon design requirements of National Building Code of Canada 2005.
2. Insulspan SIP System must be assembled as per Insulspan Installation Guide and recommended assembly details.
3. Insulspan SIP skins are nailed to the OSB splines at longitudinal panel joints, top and bottom plates using minimum 8d box nails @ 6" o.c. or equivalent.
4. Insulspan SIP System core material is molded expanded polystyrene (EPS) insulation complying with the requirements of CAN/ULC - S701, type 1.
5. Insulspan SIP System exterior skins are minimum 7/16" thick structural grade oriented strand board (OSB) conforming to DOC PS2, exposure 1 and CAN/CSA-O325.0 (span rating 1R24/2F16).

Reviewed By



Last Revision: January 6, 2010