

Technical Bulletin

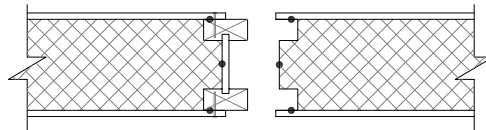
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Wall Panel Design Charts (I-Joist Spline) NBC of Canada 2005

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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.

Table W-6-I **Wall Panel Design Load**, dated January 6, 2010 summarizes design loads for Insulspan SIP wall panels with I-Joist spline joint configuration.



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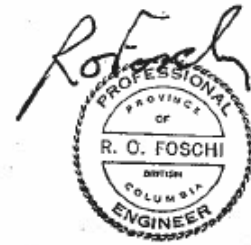
Table W-6-I WALL PANEL DESIGN LOAD

WOOD I-JOIST SPLINE @ 4'-0" On Center															
Thickness		Allowable Deflection	PANEL SPAN (feet)												
SIP	EPS		8	9	10	11	12	13	14	15	16	17	18	19	20
TRANSVERSE WIND LOAD (psf) with AXIAL LOAD = 0 plf															
10 1/2"	9 5/8"	L/360	168	144	120	100	81	68	56	48	41	35	30	27	24
		L/240	168	154	141	127	113	95	78	67	57	50	43	38	33
		L/180	168	154	141	127	113	100	87	79	71	62	53	47	42
TRANSVERSE WIND LOAD (psf) with AXIAL LOAD = 1000 plf															
10 1/2"	9 5/8"	L/360	168	140	112	93	75	63	52	45	38	33	29	25	22
		L/240	168	154	141	124	108	91	75	65	55	48	42	37	32
		L/180	168	154	141	127	113	100	87	79	71	61	52	46	41
TRANSVERSE WIND LOAD (psf) with AXIAL LOAD = 2000 plf															
10 1/2"	9 5/8"	L/360	168	136	104	85	66	57	48	41	35	30	26	23	20
		L/240	168	154	141	119	98	84	71	61	52	45	39	34	30
		L/180	168	154	141	127	113	100	87	77	67	59	51	45	40

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 wood I-joint 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).
6. Acceptable wood I-joists for assembly of the Insulspan SIP System are Nascor NJH, Jager JSI2000 and Trus Joist TJI 100C or better.

Reviewed By



Last Revision: January 6, 2010