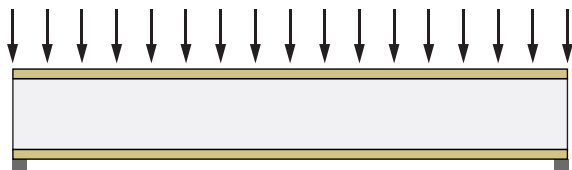


SUBJECT: PREMIER SIPS WITH TYPE S (BLOCK) SPLINES

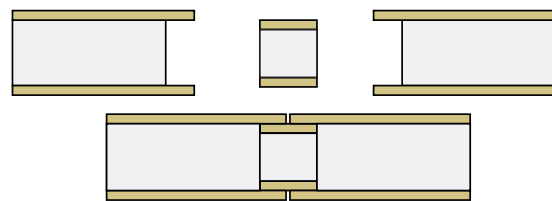
To offer our customers the optimum in energy efficiency, Premier SIPS utilize Block Splines (Premier Detail #PBS-200) as an interconnecting spline within our SIPs. Utilizing Block Splines virtually eliminates the thermal bridging that may occur with other types of spline options. Premier Building Systems commissioned an independent code recognized testing agency to conduct full-scale destructive transverse load testing to determine the design capacity loads of our Premier SIPS with Type S Splines for various span conditions. Premier Details can be accessed at www.premiersips.com.

The Premier SIPS Type S Load Chart summarizes the panel capacities obtained from full scale destructive testing of Premier SIPS with Type S Splines. The minimum bearing that is required to support the SIP end is 1-½". Loads shown on the Type S Spline, Premier SIPS Load Chart #6A (Page 2) for spans that exceed the limitations imposed on floors and roofs, are used for wall design.

TRANSVERSE LOAD



TYPE S SPLINE



LOAD CHART #6A Roof/Floor Uniform Transverse Loads - PSF¹⁻⁴ Type S Spline											
SIP Thickness	Deflection Limit	SIP Span (ft.)									
		4' ⁴	8'	10'	12'	14'	16'	18'	20'	22'	24'
4-1/2"	L/360	100	32	23	NA	NA	NA	NA	NA	NA	NA
	L/240	143	48	35	NA	NA	NA	NA	NA	NA	NA
	L/180	143	63	47	NA	NA	NA	NA	NA	NA	NA
6-1/2"	L/360	105	51	38	29	23	NA	NA	NA	NA	NA
	L/240	162	76	57	44	35	NA	NA	NA	NA	NA
	L/180	191	80	61	50	42	NA	NA	NA	NA	NA
8-1/4"	L/360	120	67	51	40	32	26	22	NA	NA	NA
	L/240	179	94	71	57	48	40	33	NA	NA	NA
	L/180	179	94	71	57	48	41	36	NA	NA	NA
10-1/4"	L/360	131	86	66	52	43	35	29	25	21	NA
	L/240	168	94	75	63	54	47	41	36	32	NA
	L/180	168	94	75	63	54	47	41	36	33	NA
12-1/4"	L/360	132	94	75	63	53	44	37	32	27	23
	L/240	163	94	75	63	54	47	42	37	34	31
	L/180	163	94	75	63	54	47	42	37	34	31

¹ Table values assume a simply supported SIP with 1-1/2 inches (38.1 mm) of continuous bearing. Permanent loads, such as dead load, shall not exceed 0.50 times the tabulated load. Values do not include the dead weight of the SIP.

² Deflection limit shall be selected by building designer based on the serviceability requirements of the structure and the requirements of applicable building code. Values are based on loads of short duration only and do not consider the effects of creep.

³ Table values for 8-foot (2.44 m) spans apply to SIPs constructed with the OSB strength axis oriented either parallel or perpendicular to span direction. Table values for other spans are based on the OSB strength axis parallel to the span direction.

⁴ SIPs shall be a minimum of 8-foot (2.44 m) long spanning two 4-foot (1.22 m) spans.

Premier Details, Load Charts & Full Resource Manual can be accessed at:
www.premiersips.com.