

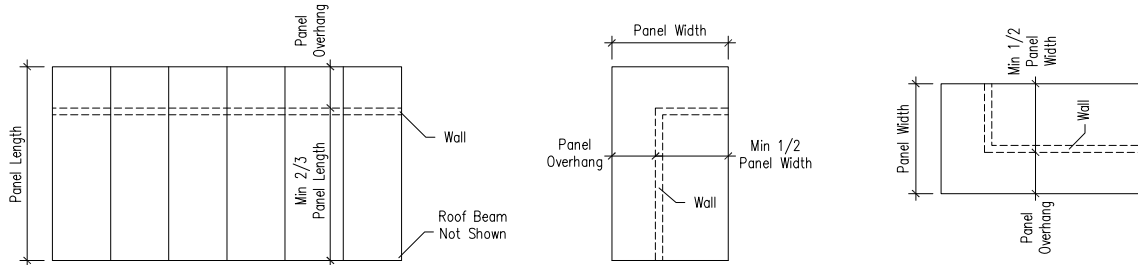
## Technical Bulletin

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ISSUED:	<b>June 18, 2010</b>
REPLACES:	<b>March 2, 2009</b>

### Roof Panel Overhang Design Chart - US Model Codes

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**Table R-OH-3 ROOF PANEL TRANSVERSE DESIGN LOAD (psf)**



Revision : June 18, 2010

Thickness		Allowable Deflection	ROOF PANEL OVERHANG (FEET) AT EAVE OR GABLE WALLS														
SIP	EPS		OSB Splines			Single 2x @ 4'-0" on center					Double 2x @ 4'-0" on center						
			2	3	4	2	3	4	5	6	2	3	4	5	6		
6 1/2"	5 5/8"	L/360	136	84	53	246	138	84	54	37	246	155	84	55	38		
		L/240	136	91	68	248	165	124	82	55	248	173	124	82	57		
		L/180	136	91	68	248	165	124	99	74	248	173	124	99	74		
8 1/4"	7 3/8"	L/360	151	100	73	267	178	130	84	57	267	190	142	89	62		
		L/240	151	100	75	267	178	134	107	86	267	190	148	111	90		
		L/180	151	100	75	267	178	134	107	89	267	190	148	111	90		
10 1/4"	9 3/8"	L/360	159	106	79	295	196	147	118	85	295	196	185	136	97		
		L/240	159	106	79	295	196	147	118	98	295	196	185	136	105		
		L/180	159	106	79	295	196	147	118	98	295	196	185	136	105		
12 1/4"	11 3/8"	L/360	167	111	83	322	215	161	129	107	322	215	190	161	123		
		L/240	167	111	83	322	215	161	129	107	322	215	190	161	123		
		L/180	167	111	83	322	215	161	129	107	322	215	190	161	123		

**Notes:**

1. The tabulated values are total design loads in compliance with 2006 International Building Code® and International Residential Code®.
2. The span of a sloped roof panel must be measured along the slope. Design loads are to be calculated as normal loads acting perpendicular to the face of the panel.
3. Insulspan SIP System must be assembled as per Insulspan Installation Guide and recommended assembly details.
4. Acceptable 2x6 lumber is SPF #2 & better; acceptable 2x8, 2x10 and 2x12 lumber is Hem Fir #2 & better.
5. Insulspan SIP skins are nailed to the splines at vertical panel joints using minimum 8d box nails @ 6" on center or equivalent.
6. Insulspan SIP System core material is molded expanded polystyrene (EPS) insulation complying with the requirements of ASTM C 578, type I.
7. Insulspan SIP System exterior skins are minimum 7/16" thick structural grade oriented strand board (OSB) conforming to DOC PS2, exposure 1.
8. The tabulated values are for roof panels with overhang along length direction. Roof panels with overhang along width direction are considered equivalent to roof panels with OSB splines.

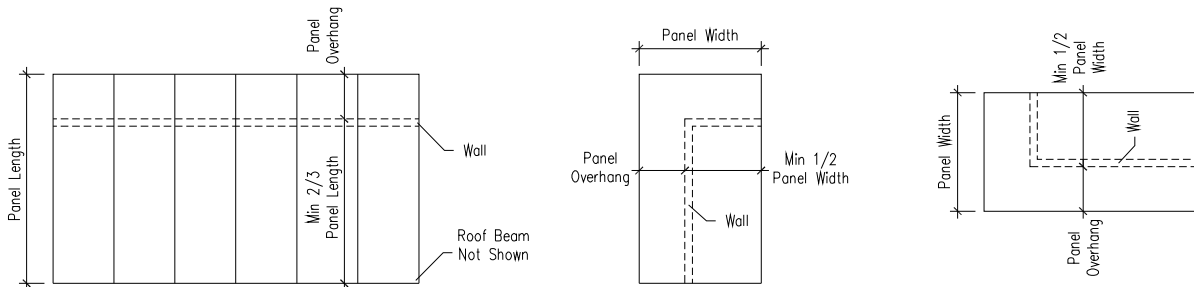
**Contact:**

East: 1-800-726-3510

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www.insulspan.com

**Table R-OH-4 ROOF PANEL TRANSVERSE DESIGN LOAD (psf)**



Revision : June 18, 2010

Thickness		Allowable Deflection	ROOF PANEL OVERHANG (FEET) AT EAVE OR GABLE WALLS														
SIP	EPS		Single LVL @ 4' on center					Double LVL @ 4' on center					Wood I @ 4'-0" on center				
			2	3	4	5	6	2	3	4	5	6	2	3	4	5	6
6 1/2"	5 5/8"	L/360	246	138	84	54	37	<b>248</b>	<b>183</b>	104	65	43					
		L/240	<b>248</b>	<b>183</b>	<b>142</b>	82	55	<b>248</b>	<b>183</b>	150	95	63					
		L/180	<b>248</b>	<b>183</b>	<b>142</b>	<b>99</b>	<b>74</b>	<b>248</b>	<b>183</b>	<b>156</b>	124	82					
8 1/4"	7 3/8"	L/360	<b>267</b>	<b>190</b>	130	84	57	<b>267</b>	<b>190</b>	<b>179</b>	110	75	<b>215</b>	<b>175</b>	<b>130</b>	84	57
		L/240	<b>267</b>	<b>190</b>	<b>174</b>	113	86	<b>267</b>	<b>190</b>	<b>179</b>	<b>152</b>	109	<b>215</b>	<b>175</b>	<b>130</b>	<b>105</b>	86
		L/180	<b>267</b>	<b>190</b>	<b>174</b>	<b>140</b>	98	<b>267</b>	<b>190</b>	<b>179</b>	<b>152</b>	<b>135</b>	<b>215</b>	<b>175</b>	<b>130</b>	<b>105</b>	<b>90</b>
10 1/4"	9 3/8"	L/360	<b>295</b>	<b>196</b>	<b>183</b>	123	85	<b>295</b>	<b>196</b>	<b>185</b>	<b>174</b>	122	<b>290</b>	<b>190</b>	<b>145</b>	<b>120</b>	85
		L/240	<b>295</b>	<b>196</b>	<b>183</b>	<b>167</b>	122	<b>295</b>	<b>196</b>	<b>185</b>	<b>174</b>	<b>154</b>	<b>290</b>	<b>190</b>	<b>145</b>	<b>120</b>	<b>100</b>
		L/180	<b>295</b>	<b>196</b>	<b>183</b>	<b>167</b>	<b>145</b>	<b>295</b>	<b>196</b>	<b>185</b>	<b>174</b>	<b>154</b>	<b>290</b>	<b>190</b>	<b>145</b>	<b>120</b>	<b>100</b>
12 1/4"	11 3/8"	L/360	<b>322</b>	<b>215</b>	<b>190</b>	<b>178</b>	123	<b>322</b>	<b>215</b>	<b>190</b>	<b>182</b>	<b>172</b>	<b>315</b>	<b>200</b>	<b>160</b>	<b>130</b>	<b>110</b>
		L/240	<b>322</b>	<b>215</b>	<b>190</b>	<b>178</b>	<b>167</b>	<b>322</b>	<b>215</b>	<b>190</b>	<b>182</b>	<b>172</b>	<b>315</b>	<b>200</b>	<b>160</b>	<b>130</b>	<b>110</b>
		L/180	<b>322</b>	<b>215</b>	<b>190</b>	<b>178</b>	<b>167</b>	<b>322</b>	<b>215</b>	<b>190</b>	<b>182</b>	<b>172</b>	<b>315</b>	<b>200</b>	<b>160</b>	<b>130</b>	<b>110</b>

**Notes:**

1. The tabulated values are total design loads compliance with 2006 International Building Code® and International Residential Code®.
2. The span of a sloped roof panel must be measured along the slope. Design loads are to be calculated as normal loads acting perpendicular to the face of the panel.
3. Insulspan SIP System must be assembled as per Insulspan Installation Guide and recommended assembly details.
4. Acceptable LVL lumber is 1.8E LVL & better; acceptable wood-I joists are Nascor NJH, Jager JSI2000 or Trus Joist TJI 100C & better.
5. Insulspan SIP skins are nailed to the splines at vertical panel joints using minimum 8d box nails @ 6" on center or equivalent.
6. Insulspan SIP System core material is molded expanded polystyrene (EPS) insulation complying with the requirements of ASTM C 578, type I.
7. Insulspan SIP System exterior skins are minimum 7/16" thick structural grade oriented strand board (OSB) conforming to DOC PS2, exposure 1.
8. The tabulated values are for roof panels with overhang along length direction. Roof panels with overhang along width direction are considered equivalent to roof panels with OSB splines.