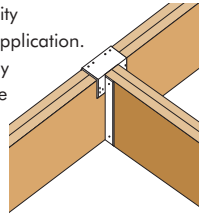


# BEARING DETAILS

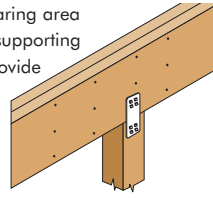
## 3a BEAM-TO-BEAM CONNECTION

Make sure hanger capacity is appropriate for each application. Hangers must be properly installed to accommodate full capacity.



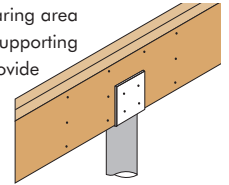
## 3b BEARING ON WOOD COLUMN

Verify the required bearing area and the ability of the supporting column member to provide adequate strength.



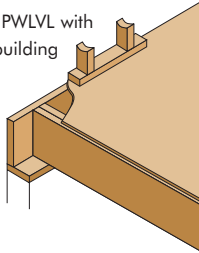
## 3c BEARING ON STEEL COLUMN

Verify the required bearing area and the ability of the supporting column member to provide adequate strength.



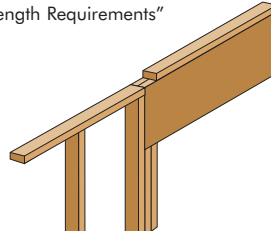
## 3d BEARING ON EXTERIOR WALL

Prevent direct contact of PWLVL with concrete. Consult local building code for requirements.



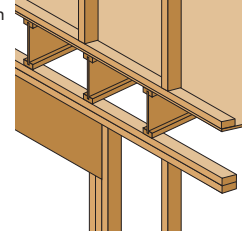
## 3e BEARING FOR DOOR OR WINDOW HEADER – 1-STORY TYPICAL

See "Bearing Length Requirements" below.



## 3f WINDOW/DOOR HEADER – 2-STORY TYPICAL

See "Bearing Length Requirements" below.



For multiple-ply PWLVL beam assembly conditions and fastening recommendations, see page 59.

# BEARING LENGTH REQUIREMENTS

## PWLVL BEARING LENGTH REQUIREMENTS

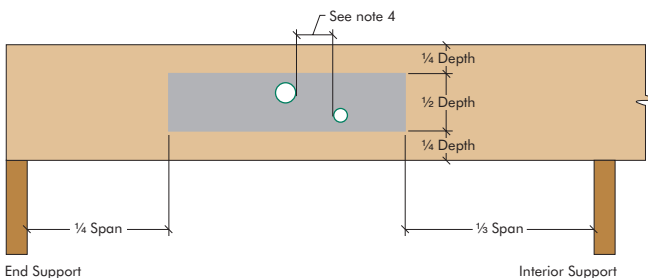
Support Material	S-P-F (South) Hem-Fir (North) <sup>(5)</sup>		Hem-Fir S-P-F <sup>(5)</sup>		Southern Pine Douglas Fir – Larch <sup>(5)</sup>		1.5E PWLVL <sup>(6)</sup>		1.8E or 2.0E PWLVL <sup>(6)</sup>	
	335		405		565		575		850	
F <sub>c⊥</sub> (psi)										
PWLVL Beam Width (in)	1 3/4"	3 1/2"	1 3/4"	3 1/2"	1 3/4"	3 1/2"	1 3/4"	3 1/2"	1 3/4"	3 1/2"
Reaction (x 1000 lbs)	1	3"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
	2	3 1/2"	3"	3"	1 1/2"	3"	3"	3"	1 1/2"	1 1/2"
	3	5 1/2"	3"	4 1/2"	3"	3 1/2"	3"	4 1/2"	3"	1 1/2"
	4	7 1/4"	3 1/2"	6"	3"	4 1/2"	3"	6"	4 1/2"	1 1/2"
	5	9 1/4"	4 1/2"	7 1/4"	4 1/2"	5 1/2"	3"	7 1/2"	5 1/2"	3"
	6		5 1/2"	9 1/4"	4 1/2"	7 1/4"	3 1/2"	9"	6"	4 1/2"
	7		6"		5 1/2"	7 1/4"	4 1/2"		7 1/2"	3"
	8		7 1/4"		6"	9 1/4"	4 1/2"		9"	3"
	9		9 1/4"		7 1/4"	9 1/4"	5 1/2"		9"	3 1/2"
	10		9 1/4"		7 1/4"	9 1/4"	5 1/2"		9"	3 1/2"
	11				9 1/4"		6"		9"	4 1/2"
	12				9 1/4"		7 1/4"		9"	4 1/2"
	13				9 1/4"		7 1/4"		9"	4 1/2"
14						7 1/4"			5 1/2"	
15						9 1/4"			5 1/2"	
16						9 1/4"			5 1/2"	
17						9 1/4"			6"	
18						9 1/4"			7 1/2"	
19									7 1/2"	
20									7 1/2"	
21									7 1/2"	
22									7 1/2"	
23									9"	

### Notes:

- The minimum required bearing length is 1 1/2"
- Duration of load factors may not be applied to bearing length requirements.
- All PWLVL beams require support across their full width.
- All PWLVL beams require lateral support at bearing points.
- Use these values when the PWLVL beam is supported by a wall plate, timber or built-up girder.
- Use these values when the PWLVL beam is supported by the end of a column or connection hardware.
- The support member must be sized to carry the load from the PWLVL beam.

# HOLE DETAILS

## HOLES IN PWLVL BEAMS



### Notes:

- This technical note applies only to uniformly loaded, simple and multiple span PWLVL beams. Beams that carry concentrated loads, or cantilevered beams, are outside the scope of this technical note.
- Square and rectangular holes are not permitted.
- Round holes may be drilled or cut with a hole saw anywhere within the shaded area of the PWLVL beam.
- The horizontal distance between adjacent holes must be at least two times the size of the larger hole. This restriction also applies to the location of access holes relative to bolt holes in multi-ply PWLVL beams.
- Do not drill more than three access holes in any four foot long section of PWLVL beam.
- The maximum round hole diameter permitted is:

PWLVL Beam Depth	5 1/2"	7 1/4"	9 1/2" to 24"
Maximum Hole Diameter	3/4"	1"	1 1/2"
- These limitations apply to holes drilled for plumbing or wiring access only. The size and location of holes drilled for fasteners are governed by the provisions of the *National Design Specification® for Wood Construction*.
- PWLVL beams deflect under load. Size holes to provide clearance where required.