



2.0E GP LAM® LVL WINDOW AND PATIO DOOR HEADERS, ROOF ONLY

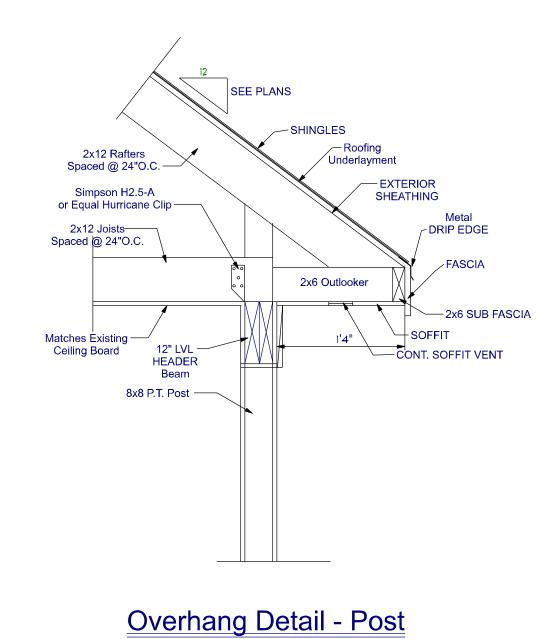
ROOF APPLICATIONS

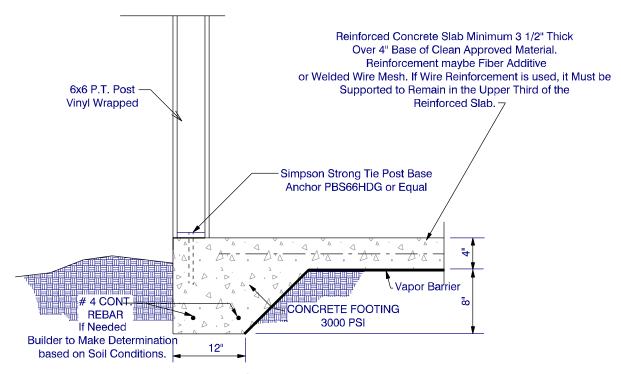
This table shows the size (e.g.: $2-11\frac{1}{4}$ " = 2 plies of $1\frac{3}{4}$ " × $11\frac{1}{4}$ ") of headers needed to support various roof truss spans with 2' soffit. If the soffit is greater than 2', additional design is necessary. For non-conforming situations, use FASTBeam® analysis and selection software or contact Georgia-Pacific.



		SNOW (115%)								NON-SNOW (125%)											
ROOF LOADING		25 PSF LL + 20 PSF DL					40 PSF LL + 20 PSF DL				20 PSF LL + 15 PSF DL				20 PSF LL + 25 PSF DL						
ROUGH OPENIN	(G	6'	8'	9'	10'	12'			10'	12'											
	20'	1-71/4"	1-91/4" 2-71/4"	1-111/4" 2-91/4" 3-71/4"	1-14" 2-91/2" 3-91/4"	2-14"	1-71/4"	1-11¼" 2-9¼" 3-7¼"	1-117/6"4 2-95/4"	1-14"+ 2-11'4" 3-9'4"	2-14" 3-117%"	1-714"	1-91/4" 2-71/4"	1-91/2" 2-9'4" 3-7'4"	1-11%" 2-9%"	1-14" 2-11'/4" 3-9'/:"	1-71/4"	1-91/4" 2-71/4"	1-111/4" 2-91/4" 3-71/4"	1-14" 2-91/2" 3-91/4"	2-14"
ROOF TRUSS	24'	1-7%	1-91/1" 2-91/4" 3-71/4"	1-11%" 2-9%"	1-14" 2-11¼" 3-9¼"	2-14" 3-11'/4"	1-71/4"	1-111/4"+ 2-91/4" 3-71/4"	1-14"+ 2-91/2" 3-91/4"	2-11 ¹ / ₄ " 3-9 ¹ / ₂ "	2-14"	1-7'4"	1-91/4" 2-71/4"	1-11¼" 2-9¼" 3-7¼"	2-91/4"	2-11%° 3-11%°	1-71/4"	1-91/2" 2-91/4" 3-71/4"	1-11%" 2-9%"	1-14" 2-11'4" 3-9'4"	
SPAN WITH 2' SOFFIT ASSUMED	28'	1-71/4"	1-11'\\" 2-9'\\" 3-7'\\"	1-117/6"+ 2-9"/4"	1-14"+ 2-111/4" 3-91/4"		1-91/4" 2-71/4"	1-111/4"+ 2-91/4"	1-14"+ 2-11"/\(\alpha\) 3-9"/\(\alpha\)	2-11 ⁷ / ₆ " 3-11'/ ₄ "	2-16" 3-14"	1-71/4"	1-9'\/'' 2-7'\/''	1-11'\/'' 2-9'\/'' 3-7'\/''	1-14" 2-91/2" 3-91/4"	2-14" 3-111//*	1-71/4"	1-11'\" 2-9'\" 3-7'\"	1-117/6"+ 2-9"/4"	2-111/4"	
	32'	1-71/4"	1-111/4"+ 2-91/4" 3-71/4"	1-14"+ 2-9"h" 3-9"/4"	2-11 ¹ /4" 3-9 ¹ / ₂ "	2-14"	1-91/4"+ 2-71/4"	1-11 ⁷ / ₃ "+ 2-9'/4"	2-11 ¹ / ₄ " 3-9 ¹ / ₄ "	2-14" 3-11'/4"	2-16"+ 3-14"	1-714"	1-91/2" 2-91/4" 3-71/4"	1-111/4" 2-91/4"	1-14" 2-11"//" 3-9"/4"	2-14" 3-11'4"	1-71/4"	1-111/4"+ 2-91/4" 3-71/4"		2-11 ¹ / ₄ " 3-9 ¹ / ₃ "	2-14"
+ See note 1.	36'	1-91/4"	1-11'/4"+ 2-9'/4" 3-7'/4"	1-14"+ 2-11¼" 3-9¼"	2-11%	2-16" 3-14"	1-91/4"+ 2-71/4"	2-91/4"	2-111/4" 3-91/4"	2-14" 3-11'4"	2-18"+	1-7'4"	1-111/4" 2-91/4" 3-71/4"	1-117/4" 2-91/4"	1-14"+ 2-11"/4" 3-9"/4"	2-14" 3-117//"	1-91/4" 2-71/4"	1-11¼"+ 2-9¼" 3-7¼"	100000000000000000000000000000000000000	2-11%	2-16" 3-14"

- 1. Required bearing length (based on 625 psi) is 3.0" unless the subscript + is shown. In that case, 4.5" is required. 2. All headers require full-width bearing support, e.g., 2x6 for 51/4", 3-ply members.
- The adequacy of supporting columns to be verified by others.
- 3. Deflection is limited to L/240 at live load and the lesser of L/180 or $^5/\iota \epsilon^{\prime\prime}$ at total load. 4. Roof live and dead loads shown are applied vertically to the horizontal projection.
- 5. When using a single ply 13/4", consider the effect on hanger capacity, and the available bearing surface the LVL provides to other framing elements.
- 6. A single 31/4" thick ply can be substituted for any two 13/4" thick plies. 7. For multiple ply fasteners, see pages 47-48.

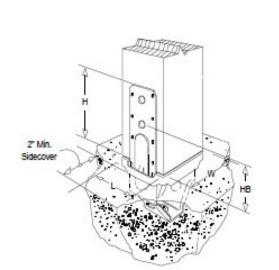




Monolithic Slab Detail @ Covered Patio 5CALE: 1" = 10"

	ı	Dimensi	ons (in	.)	Post Fasteners					
Model No.				ш	Magaz	ep e	Machine Bolts			
	W	L	Н	НВ	Nails	SD Screws	Qty.	Dia.		
PBS44AHDG	3 9/16	3 1/2	6 1/4	3 7/16	14-16d	14-SD #10x11/2	2	1/2		
PBS66HDG	5 1/2	5 3/8	6 1/2	3 11/16	14-16d	-	2	1/2		

Refer to current Wood Construction Connectors catalog for additional information.



Typical PBS

Installation:

· Embed into wet concrete up to the bottom of the 1" standoff base plate. A 2" minimum side cover is required to obtain the full load. Holes in the bottom of the straps

allow for free concrete flow. Allow concrete to cure before installation of the post.

Details

Oct.2024

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