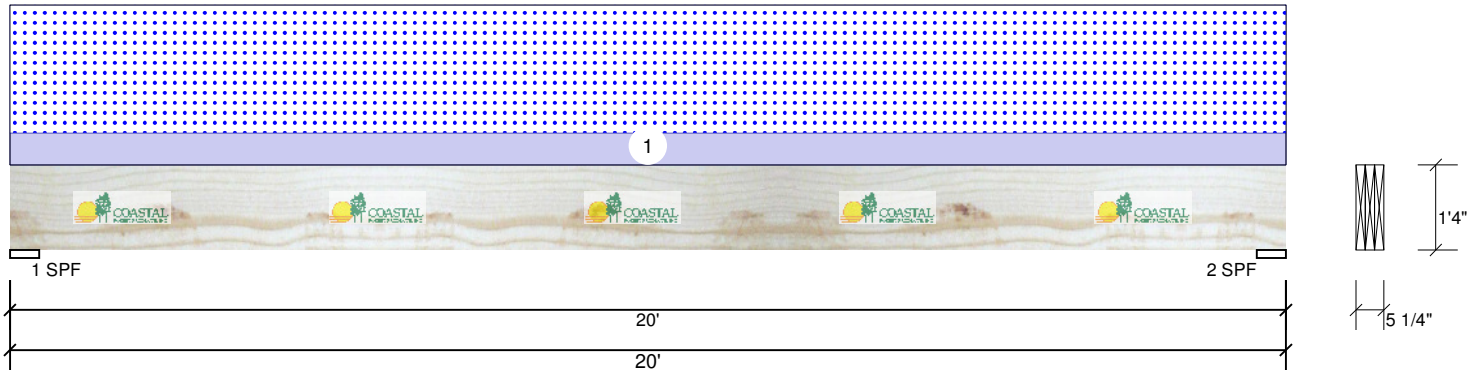
Roof A 2.0E CP-LAM 1.750" X 16.000" 3-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	3	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC 2012
Deflection LL:	360	Load Sharing:	Yes
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal		
Temperature:	Temp <= 100°F		

Reactions lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	0	2018	7200	0	0
2	0	2018	7200	0	0

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.500"	75%	2018 / 7200	9218	L	D+S
2 - SPF	5.500"	75%	2018 / 7200	9218	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	42606 ft-lb	10'	65339 ft-lb	0.652 (65%)	D+S	L
Unbraced	42606 ft-lb	10'	42748 ft-lb	0.997 (100%)	D+S	L
Shear	8834 lb	18'3 3/8"	18354 lb	0.481 (48%)	D+S	L
LL Defl inch	0.618 (L/373)	10' 1/16"	0.641 (L/360)	0.960 (96%)	S	L
TL Defl inch	0.791 (L/292)	10' 1/16"	0.961 (L/240)	0.820 (82%)	D+S	L

Design Notes

1 Girders are designed to be supported on the bottom edge only.
2 Multiple plies must be fastened together as per manufacturer's details.
3 Compression edge bracing required at 3'10" o.c. or less.
4 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform		12-0-0	Near Face	15 PSF	0 PSF	60 PSF	0 PSF	0 PSF	
	Self Weight				22 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation
6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

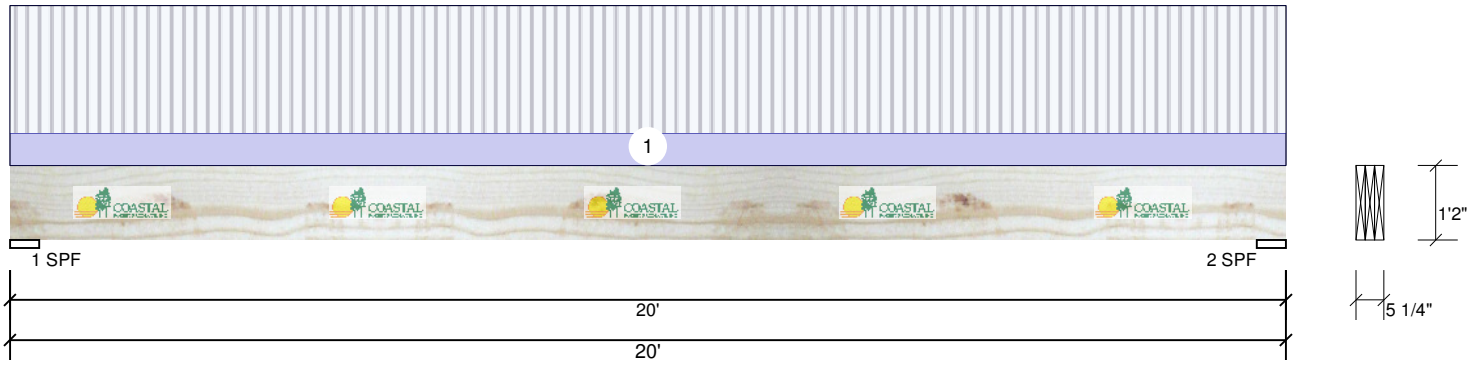
Pacific Woodtech Corp
1850 Park Lane
Burlington, WA 98233
(888) 707-2285
www.pacificwoodtech.com
APA: PR-L233, ICC-ES: ESR-2909

Coastal Forest Products
451 South River Rd, NH
USA
03110

COASTAL FOREST PRODUCTS, INC.
www.coastalforestproducts.com
...as independent as the dealers we support

Floor A 2.0E CP-LAM 1.750" X 14.000" 3-Ply - PASSED

Level: Level



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Moisture Condition:	Dry	Building Code:	IBC 2012
Deflection LL:	360	Load Sharing:	Yes
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal		
Temperature:	Temp <= 100°F		

Reactions lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	4800	1391	0	0	0
2	4800	1391	0	0	0

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.500"	50%	1391 / 4800	6191	L	D+L
2 - SPF	5.500"	50%	1391 / 4800	6191	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	28552 ft-lb	10'	44677 ft-lb	0.639 (64%)	D+L	L
Unbraced	28552 ft-lb	10'	28557 ft-lb	1.000 (100%)	D+L	L
Shear	5924 lb	1'6 3/4"	13965 lb	0.424 (42%)	D+L	L
LL Defl inch	0.612 (L/376)	10' 1/16"	0.640 (L/360)	0.960 (96%)	L	L
TL Defl inch	0.790 (L/292)	10' 1/16"	0.960 (L/240)	0.820 (82%)	D+L	L

Design Notes

1 Girders are designed to be supported on the bottom edge only.
2 Multiple plies must be fastened together as per manufacturer's details.
3 Compression edge bracing required at 5'1" o.c. or less.
4 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform		12-0-0	Near Face	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
	Self Weight				19 PLF					

Notes

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