



# Single 16" BCI® 60s-2.0 SP

# Joist\Floor 2\D19

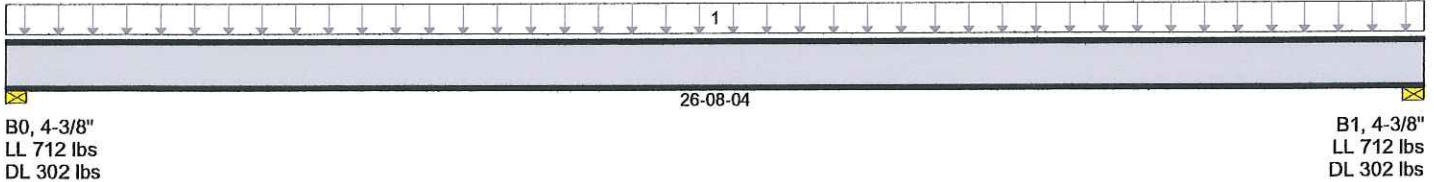
BC CALC® 3.0 Design Report - US  
Build 517

Service class 1|1 span | No cantilevers | 0/12 slope  
16 OCS | Repetitive | Member construction

Thursday, September 06, 2012

Job Name: La Quinta Inn - Lot #14 Cableas Parkway  
Address:  
City, State, Zip: Gonzales, La.  
Customer: Abita Lumber - David Melton  
Code reports: ESR-1336

File Name: 16704.BCC  
Description: Floor 2\D19  
Specifier: Ronnie Talley  
Designer:  
Company: Engineered Lumber Partners  
Misc: Dammon Eng. - #2141 (7-3-2012)



Total Horizontal Product Length = 26-08-04

						Live	Dead	Snow	Wind	Roof Live	OCS
Tag	Description	Load Type	Ref.	Start	End	100%	90%	115%	133%	125%	
1	Standard Load	Unf. Area (psf)	L	00-00-00	26-08-04	40	17				16

Controls Summary	Value	% Allowable	Duration	Case	Span
Pos. Moment	6,474 ft-lbs	76.0%	100%	1	1 - Internal
End Reaction	1,014 lbs	57.9%	100%	1	1 - Right
End Shear	986 lbs	45.4%	100%	1	1 - Left
Total Load Defl.	L/328 (0.956")	73.3%		1	1
Live Load Defl.	L/467 (0.671")	77.1%		1	1
Span / Depth	19.6	n/a			1

**Disclosure**  
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Bearing Supports	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0	Wall/Plate 4-3/8" x 2-5/16"	1,014 lbs	n/a	n/a	Unspecified
B1	Wall/Plate 4-3/8" x 2-5/16"	1,014 lbs	n/a	n/a	Unspecified

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, SIMPLE FRAMING SYSTEM®, VERSA-LAM®, VERSA-RIM PLUS®, VERSA-RIM®, VERSA-STRAND®, VERSA-STUD® are trademarks of Boise Cascade Wood Products L.L.C.



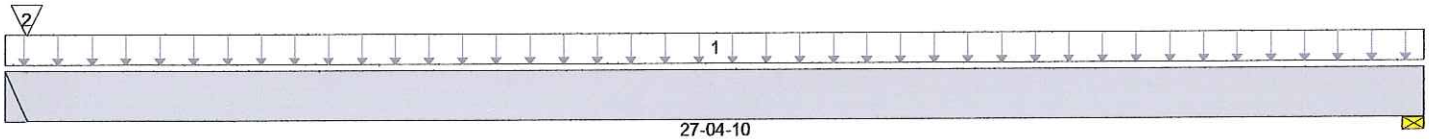
BC CALC® 3.0 Design Report - US  
Build 517

Service class 1|1 span | No cantilevers | 0/12 slope  
16 OCS | Repetitive | Glued & nailed construction

Thursday, September 06, 2012

Job Name: La Quinta Inn - Lot #14 Cableas Parkway  
Address:  
City, State, Zip: Gonzales, La.  
Customer: Abita Lumber - David Melton  
Code reports: ESR-1040

File Name: 16704.BCC  
Description: Floor 1\D23  
Specifier: Ronnie Talley  
Designer:  
Company: Engineered Lumber Partners  
Misc: Dammon Eng. - #2141 (7-3-2012)



B0  
LL 3,722 lbs  
DL 1,903 lbs

B1, 4-3/8"  
LL 743 lbs  
DL 317 lbs

Total Horizontal Product Length = 27-04-10

		Live	Dead	Snow	Wind	Roof Live	OCS
<b>Load Summary</b>							
Tag	Description	100%	90%	115%	133%	125%	
1	Unf. Area (psf)	40	17				16
2	Conc. Pt. (lbs)	3,005	1,599				n/a

Controls Summary	Value	% Allowable	Duration	Case	Span
Pos. Moment	7,083 ft-lbs	18.2%	100%	1	1 - Internal
End Shear	1,247 lbs	11.7%	100%	1	1 - Left
Total Load Defl.	L/833 (0.386")	28.8%		1	1
Live Load Defl.	L/1,191 (0.27")	30.2%		1	1
Span / Depth	20.1	n/a			1

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Bearing Supports	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0	Hanger Load 4" x 3-1/2"	5,625 lbs	50.7%	53.6%	THDH414
B1	Wall/Plate 4-3/8" x 3-1/2"	1,061 lbs	n/a	9.2%	Unspecified

**Cautions**

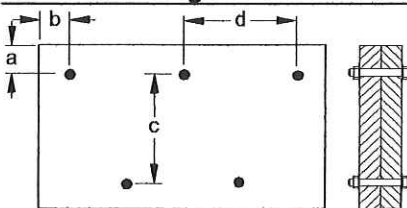
Hanger THDH414 requires reduced nail penetration.

**Notes**

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Header for the hanger THDH414 at B0 is a Triple 1-3/4" x 16" VERSA-LAM® 2.0 3100 SP.  
Hanger THDH414 requires (66) 16d face nails, (16) 16d joist nails.  
Hanger Manufacturer: USP Structural Connectors

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**Connection Diagram**



a minimum = 2" c = 12"  
b minimum = 2-1/2" d = 24"

Connection design assumes point load is 'top-loaded'. For connection design of 'side-loaded' point loads, please consult a technical representative or professional of Record. Bolts are assumed to be Grade A307 or Grade 2 or higher. Member has no side loads. Concentrated loads are not considered in side load analysis. Connectors are: 1/2 in. Staggered Through Bolt





# Double 1-3/4" x 16" VERSA-LAM® 2.0 3100 SP

# Joist\Floor 1\D24

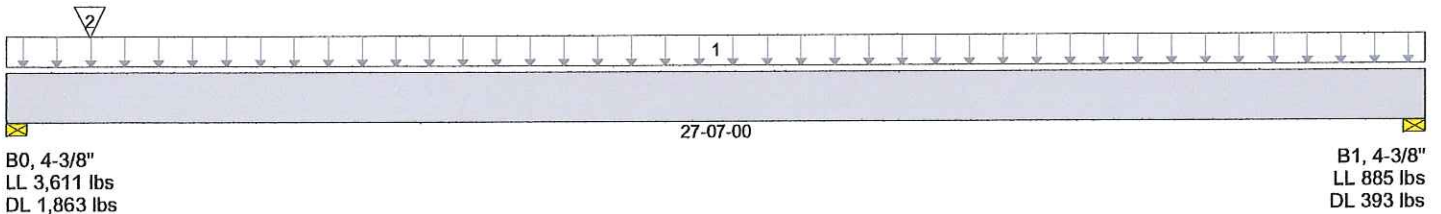
BC CALC® 3.0 Design Report - US  
Build 517

Service class 1|1 span | No cantilevers | 0/12 slope  
16 OCS | Repetitive | Glued & nailed construction

Thursday, September 06, 2012

Job Name: La Quinta Inn - Lot #14 Cableas Parkway  
Address:  
City, State, Zip: Gonzales, La.  
Customer: Abita Lumber - David Melton  
Code reports: ESR-1040

File Name: 16704.BCC  
Description: Floor 1\D24  
Specifier: Ronnie Talley  
Designer:  
Company: Engineered Lumber Partners  
Misc: Dammon Eng. - #2141 (7-3-2012)



Total Horizontal Product Length = 27-07-00

Tag Description	Load Type	Ref.	Start	End	Live					OCS
					100%	90%	115%	133%	125%	
1	Unf. Area (psf)	L	00-00-00	27-07-00	40	17				16
2	Conc. Pt. (lbs)	L	01-07-10	01-07-10	3,025	1,631				n/a

Controls Summary	Value	% Allowable	Duration	Case	Span
Pos. Moment	10,364 ft-lbs	26.7%	100%	1	1 - Internal
End Shear	5,127 lbs	48.2%	100%	1	1 - Left
Total Load Defl.	L/554 (0.584")	43.3%		1	1
Live Load Defl.	L/811 (0.399")	44.4%		1	1
Span / Depth	20.2	n/a			1

### Disclosure

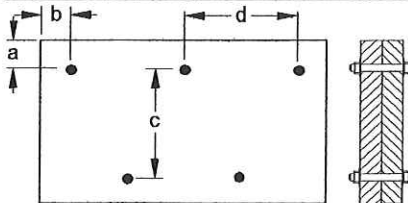
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Bearing Supports	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0	Wall/Plate 4-3/8" x 3-1/2"	5,475 lbs	n/a	47.7%	Unspecified
B1	Wall/Plate 4-3/8" x 3-1/2"	1,278 lbs	n/a	11.1%	Unspecified

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.

### Connection Diagram



a minimum = 2" c = 12"  
b minimum = 2-1/2" d = 24"

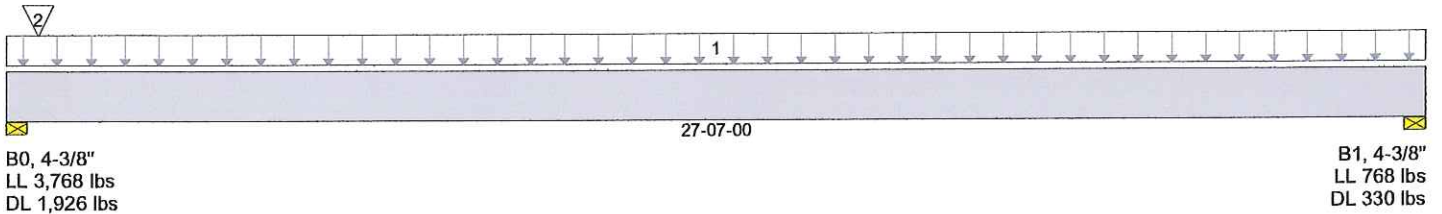
Connection design assumes point load is 'top-loaded'. For connection design of 'side-loaded' point loads, please consult a technical representative or professional of Record. Bolts are assumed to be Grade A307 or Grade 2 or higher. Member has no side loads. Concentrated loads are not considered in side load analysis. Connectors are: 1/2 in. Staggered Through Bolt

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Job Name: La Quinta Inn - Lot #14 Cableas Parkway  
Address:  
City, State, Zip: Gonzales, La.  
Customer: Abita Lumber - David Melton  
Code reports: ESR-1040

File Name: 16704.BCC  
Description: Floor 1\D25  
Specifier: Ronnie Talley  
Designer:  
Company: Engineered Lumber Partners  
Misc: Dammon Eng. - #2141 (7-3-2012)



Total Horizontal Product Length = 27-07-00

					Live	Dead	Snow	Wind	Roof Live	OCS
Tag	Description	Load Type	Ref.	Start	End	100%	90%	115%	133%	125%
1		Unf. Area (psf)	L	00-00-00	27-07-00	40	17			
2		Conc. Pt. (lbs)	L	00-07-10	00-07-10	3,064	1,631			

Controls Summary	Value	% Allowable	Duration	Case	Span
Pos. Moment	7,601 ft-lbs	19.6%	100%	1	1 - Internal
End Shear	1,823 lbs	17.1%	100%	1	1 - Left
Total Load Defl.	L/765 (0.423")	31.4%		1	1
Live Load Defl.	L/1,098 (0.295")	32.8%		1	1
Span / Depth	20.2	n/a			1

**Disclosure**

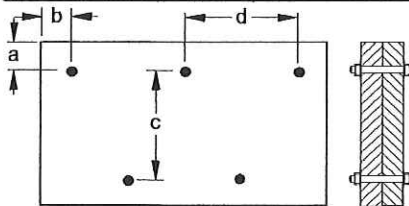
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Bearing Supports	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0	Wall/Plate 4-3/8" x 3-1/2"	5,694 lbs	n/a	49.6%	Unspecified
B1	Wall/Plate 4-3/8" x 3-1/2"	1,098 lbs	n/a	9.6%	Unspecified

**Notes**

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.

**Connection Diagram**



a minimum = 2" c = 12"  
b minimum = 2-1/2" d = 24"

Connection design assumes point load is 'top-loaded'. For connection design of 'side-loaded' point loads, please consult a technical representative or professional of Record. Bolts are assumed to be Grade A307 or Grade 2 or higher. Member has no side loads. Concentrated loads are not considered in side load analysis. Connectors are: 1/2 in. Staggered Through Bolt





# Single 16" BCI® 60s-2.0 SP

# Joist\Floor 1\D26

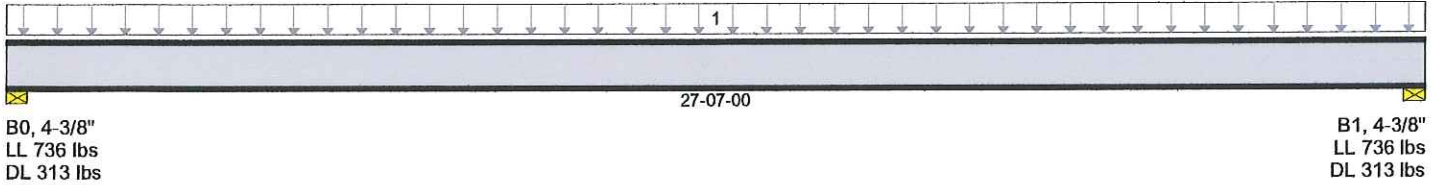
BC CALC® 3.0 Design Report - US  
Build 517

Service class 1|1 span | No cantilevers | 0/12 slope  
16 OCS | Repetitive | Glued & nailed construction

Thursday, September 06, 2012

Job Name: La Quinta Inn - Lot #14 Cableas Parkway  
Address:  
City, State, Zip: Gonzales, La.  
Customer: Abita Lumber - David Melton  
Code reports: ESR-1336

File Name: 16704.BCC  
Description: Floor 1\D26  
Specifier: Ronnie Talley  
Designer:  
Company: Engineered Lumber Partners  
Misc: Dammon Eng. - #2141 (7-3-2012)



Total Horizontal Product Length = 27-07-00

					Live	Dead	Snow	Wind	Roof Live	OCS
Tag	Description	Load Type	Ref.	Start	End	100%	90%	115%	133%	125%
1		Unf. Area (psf)	L	00-00-00	27-07-00	40	17			

Controls Summary	Value	% Allowable	Duration	Case	Span
Pos. Moment	6,927 ft-lbs	81.3%	100%	1	1 - Internal
End Reaction	1,048 lbs	59.9%	100%	1	1 - Right
End Shear	1,021 lbs	46.9%	100%	1	1 - Left
Total Load Defl.	L/342 (0.949")	70.3%		1	1
Live Load Defl.	L/487 (0.666")	74.0%		1	1
Span / Depth	20.2	n/a			1

### Disclosure

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Bearing Supports	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0	Wall/Plate 4-3/8" x 2-5/16"	1,048 lbs	n/a	n/a	Unspecified
B1	Wall/Plate 4-3/8" x 2-5/16"	1,048 lbs	n/a	n/a	Unspecified

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Composite EI value based on 23/32" thick sheathing glued and nailed to joist.

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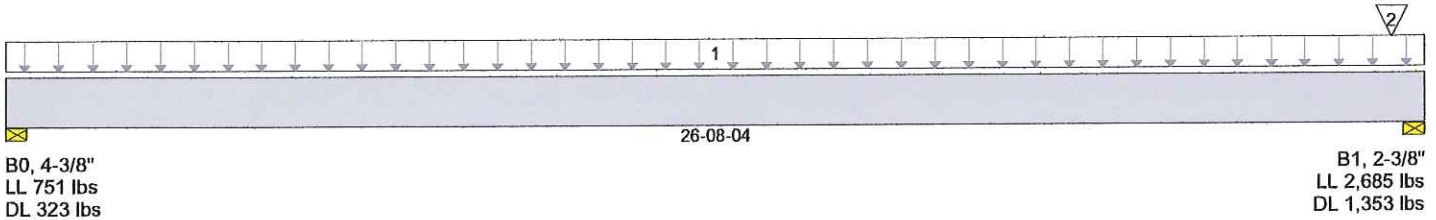
BC CALC® 3.0 Design Report - US  
Build 517

Service class 1|1 span | No cantilevers | 0/12 slope  
16 OCS | Repetitive | Glued & nailed construction

Thursday, September 06, 2012

Job Name: La Quinta Inn - Lot #14 Cableas Parkway  
Address:  
City, State, Zip: Gonzales, La.  
Customer: Abita Lumber - David Melton  
Code reports: ESR-1040

File Name: 16704.BCC  
Description: Floor 1\D28  
Specifier: Ronnie Talley  
Designer:  
Company: Engineered Lumber Partners  
Misc: Dammon Eng. - #2141 (7-3-2012)



Total Horizontal Product Length = 26-08-04

					Live	Dead	Snow	Wind	Roof Live	OCS
Tag	Description	Load Type	Ref.	Start	End	100%	90%	115%	133%	125%
1		Unf. Area (psf)	L	00-00-00	26-08-04	40	17			
2		Conc. Pt. (lbs)	L	26-00-10	26-00-10	2,013	1,071			

Controls Summary	Value	% Allowable	Duration	Case	Span
Pos. Moment	7,272 ft-lbs	18.7%	100%	1	1 - Internal
End Shear	-1,844 lbs	17.3%	100%	1	1 - Right
Total Load Defl.	L/821 (0.384")	29.2%		1	1
Live Load Defl.	L/1,179 (0.267")	30.5%		1	1
Span / Depth	19.7	n/a			1

**Disclosure**

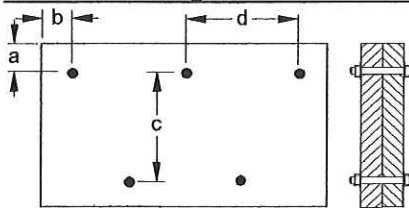
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Bearing Supports	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0	Wall/Plate 4-3/8" x 3-1/2"	1,074 lbs	n/a	9.4%	Unspecified
B1	Wall/Plate 2-3/8" x 3-1/2"	4,038 lbs	n/a	64.9%	Unspecified

**Notes**

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.

**Connection Diagram**



a minimum = 2" c = 12"  
b minimum = 2-1/2" d = 24"

Connection design assumes point load is 'top-loaded'. For connection design of 'side-loaded' point loads, please consult a technical representative or professional of Record. Bolts are assumed to be Grade A307 or Grade 2 or higher. Member has no side loads. Concentrated loads are not considered in side load analysis. Connectors are: 1/2 in. Staggered Through Bolt

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# Single 16" BCI® 60s-2.0 SP

# Joist\Floor 1\D29

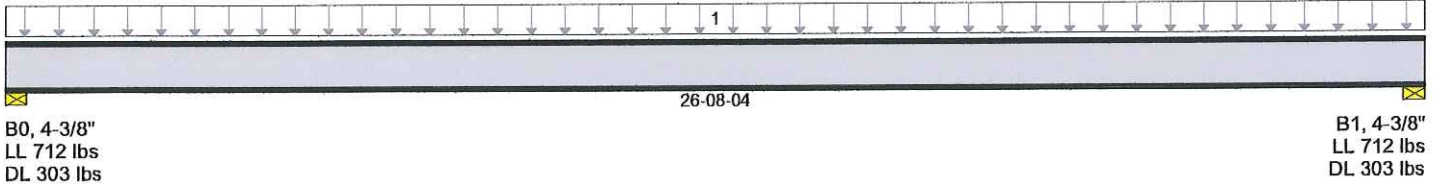
BC CALC® 3.0 Design Report - US  
Build 517

Service class 1|1 span | No cantilevers | 0/12 slope  
16 OCS | Repetitive | Glued & nailed construction

Thursday, September 06, 2012

Job Name: La Quinta Inn - Lot #14 Cableas Parkway  
Address:  
City, State, Zip: Gonzales, La.  
Customer: Abita Lumber - David Melton  
Code reports: ESR-1336

File Name: 16704.BCC  
Description: Floor 1\D29  
Specifier: Ronnie Talley  
Designer:  
Company: Engineered Lumber Partners  
Misc: Dammon Eng. - #2141 (7-3-2012)



Total Horizontal Product Length = 26-08-04

				Live	Dead	Snow	Wind	Roof Live	OCS
Tag	Description	Load Type	Ref. Start End	100%	90%	115%	133%	125%	
1		Unf. Area (psf)	L 00-00-00 26-08-04	40	17				16

Controls Summary	Value	% Allowable	Duration	Case	Span
Pos. Moment	6,475 ft-lbs	76.0%	100%	1	1 - Internal
End Reaction	1,014 lbs	58.0%	100%	1	1 - Right
End Shear	987 lbs	45.4%	100%	1	1 - Left
Total Load Defl.	L/376 (0.833")	63.9%		1	1
Live Load Defl.	L/536 (0.585")	67.2%		1	1
Span / Depth	19.6	n/a			1

### Disclosure

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Bearing Supports	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0	Wall/Plate 4-3/8" x 2-5/16"	1,014 lbs	n/a	n/a	Unspecified
B1	Wall/Plate 4-3/8" x 2-5/16"	1,014 lbs	n/a	n/a	Unspecified

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Composite EI value based on 23/32" thick sheathing glued and nailed to joist.

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# Single 16" BCI® 60s-2.0 SP

## Joist\Floor 1\D30

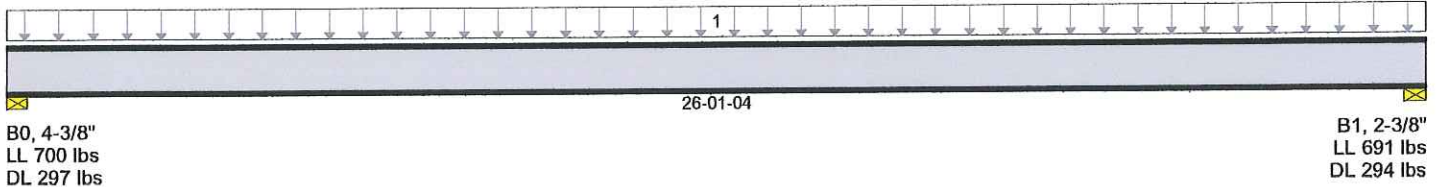
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Service class 1|1 span | No cantilevers | 0/12 slope  
16 OCS | Repetitive | Glued & nailed construction

Thursday, September 06, 2012

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Address:  
City, State, Zip: Gonzales, La.  
Customer: Abita Lumber - David Melton  
Code reports: ESR-1336

File Name: 16704.BCC  
Description: Floor 1\D30  
Specifier: Ronnie Talley  
Designer:  
Company: Engineered Lumber Partners  
Misc: Dammon Eng. - #2141 (7-3-2012)



Total Horizontal Product Length = 26-01-04

Tag	Description	Load Type	Ref.	Start	End	100%	90%	115%	133%	125%	OCS
1		Unf. Area (psf)	L	00-00-00	26-01-04	40	17				16

Controls Summary	Value	% Allowable	Duration	Case	Span
Pos. Moment	6,262 ft-lbs	73.5%	100%	1	1 - Internal
End Reaction	985 lbs	63.3%	100%	1	1 - Right
End Shear	970 lbs	44.6%	100%	1	1 - Left
Total Load Defl.	L/384 (0.803")	62.5%		1	1
Live Load Defl.	L/547 (0.564")	65.8%		1	1
Span / Depth	19.3	n/a			1

Bearing Supports	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0	Wall/Plate 4-3/8" x 2-5/16"	997 lbs	n/a	n/a	Unspecified
B1	Wall/Plate 2-3/8" x 2-5/16"	985 lbs	n/a	n/a	Unspecified

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Composite EI value based on 23/32" thick sheathing glued and nailed to joist.

### Disclosure

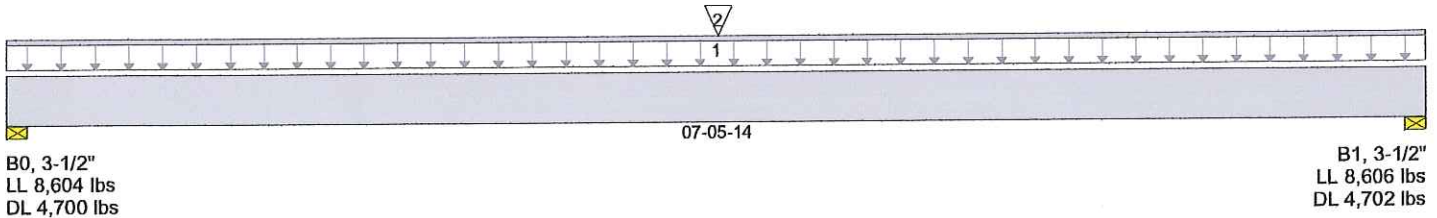
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Job Name: La Quinta Inn - Lot #14 Cableas Parkway  
Address:  
City, State, Zip: Gonzales, La.  
Customer: Abita Lumber - David Melton  
Code reports: ESR-1040

File Name: 16704.BCC  
Description: Floor 1\D31  
Specifier: Ronnie Talley  
Designer:  
Company: Engineered Lumber Partners  
Misc: Dammon Eng. - #2141 (7-3-2012)



Total Horizontal Product Length = 07-05-14

					Live	Dead	Snow	Wind	Roof Live	Trib.
Tag	Description	Load Type	Ref.	Start End	100%	90%	115%	133%	125%	
1		Unf. Lin. (plf)	L	00-00-00 07-05-14	2,298	1,223				n/a
2		Conc. Pt. (lbs)	L	03-09-00 03-09-00	0	66				n/a

Controls Summary	Value	% Allowable	Duration	Case	Span
Pos. Moment	22,021 ft-lbs	39.3%	100%	1	1 - Internal
End Shear	7,547 lbs	47.3%	100%	1	1 - Left
Total Load Defl.	L/1,545 (0.055")	15.5%		1	1
Live Load Defl.	L/2,393 (0.035")	15.0%		1	1
Max Defl.	0.055"	5.5%		1	1
Span / Depth	5.3	n/a			1

**Disclosure**

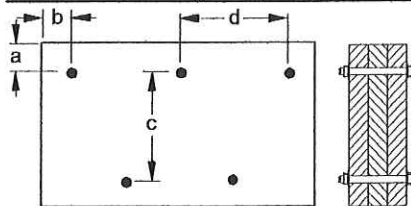
Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of BOISE engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

Bearing Supports	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0	Wall/Plate 3-1/2" x 5-1/4"	13,304 lbs	n/a	96.5%	Unspecified
B1	Wall/Plate 3-1/2" x 5-1/4"	13,307 lbs	n/a	96.6%	Unspecified

**Notes**

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets arbitrary (1") Maximum load deflection criteria.

**Connection Diagram**



a minimum = 2" c = 12"  
b minimum = 2-1/2" d = 24"

Connection design assumes point load is 'top-loaded'. For connection design of 'side-loaded' point loads, please consult a technical representative or professional of Record. Bolts are assumed to be Grade A307 or Grade 2 or higher. Member has no side loads. Concentrated loads are not considered in side load analysis. Connectors are: 1/2 in. Staggered Through Bolt

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# Quadruple 1-3/4" x 16" VERSA-LAM® 2.0 3100 SP Floor Beam\Floor 1\D32

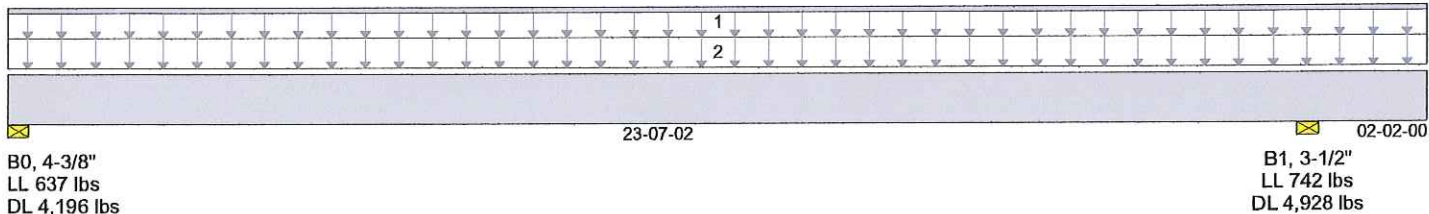
BC CALC® 3.0 Design Report - US  
Build 517

Service class 1|2 spans | Right cantilever | 0/12 slope

Thursday, September 06, 2012

Job Name: La Quinta Inn - Lot #14 Cableas Parkway  
Address:  
City, State, Zip: Gonzales, La.  
Customer: Abita Lumber - David Melton  
Code reports: ESR-1040

File Name: 16704.BCC  
Description: Floor 1\D32  
Specifier: Ronnie Talley  
Designer:  
Company: Engineered Lumber Partners  
Misc: Dammon Eng. - #2141 (7-3-2012)



Total Horizontal Product Length = 25-09-02

## Load Summary

Tag Description	Load Type	Ref.	Start	End	100%	90%	115%	133%	125%	Trib.
1	Unf. Lin. (plf)	L	00-00-00	25-09-02	0	300				n/a
2	Unf. Area (psf)	L	00-00-00	25-09-02	40	17				01-04-00

## Controls Summary

Value	% Allowable	Duration	Case	Span	
Pos. Moment	27,223 ft-lbs	36.4%	100%	14	1 - Internal
Neg. Moment	-957 ft-lbs	1.3%	100%	1	2 - Left
End Shear	4,142 lbs	19.5%	100%	14	1 - Left
Cont. Shear	4,185 lbs	19.7%	100%	1	1 - Right
Total Load Defl.	L/504 (0.555")	47.6%		14	1
Live Load Defl.	2xL/2,365 (0.022")	10.1%		14	2 - Cantilever
Total Neg. Defl.	2xL/-320 (-0.163")	56.3%		14	2 - Cantilever
Max Defl.	0.555"	55.5%		14	1
Span / Depth	17.5	n/a			1

## Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of BOISE engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

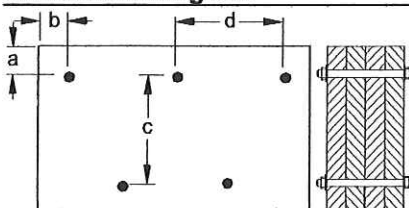
## Bearing Supports

Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0 Wall/Plate 4-3/8" x 7"	4,834 lbs	n/a	21.0%	Unspecified
B1 Wall/Plate 3-1/2" x 7"	5,670 lbs	n/a	30.9%	Unspecified

## Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (2xL/240) Live load deflection criteria.  
Design meets arbitrary (1") Maximum load deflection criteria.

## Connection Diagram



a minimum = 2" c = 12"  
b minimum = 2-1/2" d = 24"

Beams 7 inches wide will be assumed to be either top-loaded only, or equally loaded from each side.

Bolts are assumed to be Grade A307 or Grade 2 or higher.

Member has no side loads.

Connectors are: 1/2 in. Staggered Through Bolt





# Quadruple 1-3/4" x 16" VERSA-LAM® 2.0 3100 SP Floor Beam\Floor 1\D33

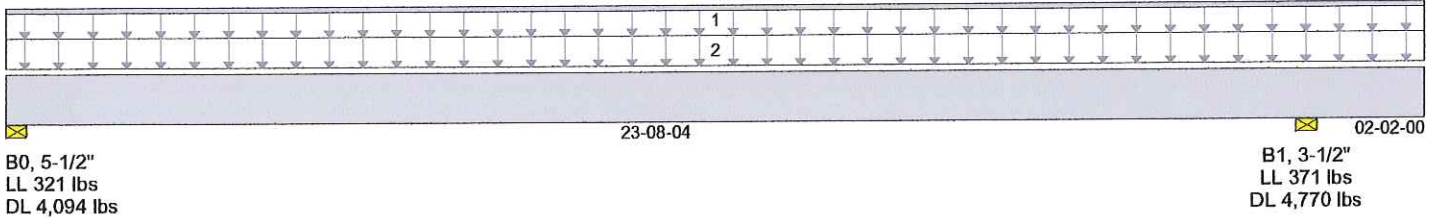
BC CALC® 3.0 Design Report - US  
Build 517

Service class 1|2 spans | Right cantilever | 0/12 slope

Thursday, September 06, 2012

Job Name: La Quinta Inn - Lot #14 Cableas Parkway  
Address:  
City, State, Zip: Gonzales, La.  
Customer: Abita Lumber - David Melton  
Code reports: ESR-1040

File Name: 16704.BCC  
Description: Floor 1\D33  
Specifier: Ronnie Talley  
Designer:  
Company: Engineered Lumber Partners  
Misc: Dammon Eng. - #2141 (7-3-2012)



Total Horizontal Product Length = 25-10-04

					Live	Dead	Snow	Wind	Roof Live	Trib.	
Tag	Description	Load Type	Ref.	Start	End	100%	90%	115%	133%	125%	
1		Unf. Lin. (plf)	L	00-00-00	25-10-04	0	300				n/a
2		Unf. Area (psf)	L	00-00-00	25-10-04	40	17				00-08-00

Controls Summary	Value	% Allowable	Duration	Case	Span
Pos. Moment	22,850 ft-lbs	34.0%	90%		1 - Internal
Neg. Moment	-804 ft-lbs	1.2%	90%		2 - Left
End Shear	3,480 lbs	18.2%	90%		1 - Left
Cont. Shear	3,520 lbs	18.4%	90%		1 - Right
Total Load Defl.	L/557 (0.502")	43.1%		14	1
Live Load Defl.	2xL/4,735 (0.011")	5.1%		14	2 - Cantilever
Total Neg. Defl.	2xL/-354 (-0.147")	50.9%		14	2 - Cantilever
Max Defl.	0.502"	50.2%		14	1
Span / Depth	17.5	n/a			1

### Disclosure

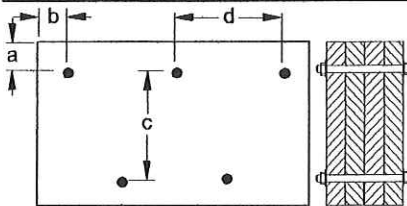
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Bearing Supports	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0	Wall/Plate 5-1/2" x 7"	4,415 lbs	n/a	15.3%	Unspecified
B1	Wall/Plate 3-1/2" x 7"	5,141 lbs	n/a	28.0%	Unspecified

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (2xL/240) Live load deflection criteria.  
Design meets arbitrary (1") Maximum load deflection criteria.

### Connection Diagram



a minimum = 2" c = 12"  
b minimum = 2-1/2" d = 24"

Beams 7 inches wide will be assumed to be either top-loaded only, or equally loaded from each side.

Bolts are assumed to be Grade A307 or Grade 2 or higher.

Member has no side loads.

Connectors are: 1/2 in. Staggered Through Bolt





# Quadruple 1-3/4" x 16" VERSA-LAM® 2.0 3100 SP Floor Beam\Floor 1\D34

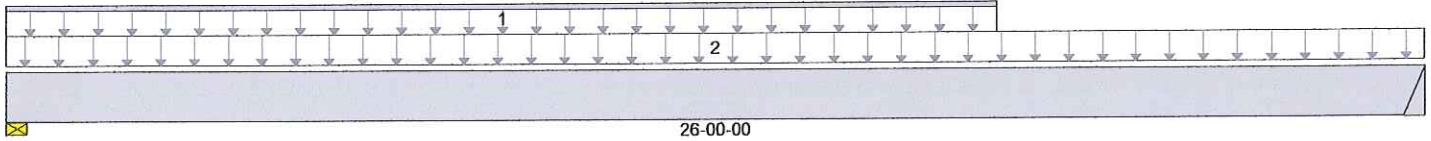
BC CALC® 3.0 Design Report - US  
Build 517

Service class 1|1 span | No cantilevers | 0/12 slope

Thursday, September 06, 2012

Job Name: La Quinta Inn - Lot #14 Cableas Parkway  
Address:  
City, State, Zip: Gonzales, La.  
Customer: Abita Lumber - David Melton  
Code reports: ESR-1040

File Name: 16704.BCC  
Description: Floor 1\D34  
Specifier: Ronnie Talley  
Designer:  
Company: Engineered Lumber Partners  
Misc: Dammon Eng. - #2141 (7-3-2012)



B0, 5-1/2"  
LL 348 lbs  
DL 4,140 lbs

B1  
LL 345 lbs  
DL 2,424 lbs

Total Horizontal Product Length = 26-00-00

Tag Description	Load Type	Ref.	Start	End	Live			Dead		Snow		Wind		Roof Live		Trib.	
					100%	90%	115%	133%	125%								
1	Unf. Lin. (plf)	L	00-00-00	18-02-00	0	300											n/a
2	Unf. Area (psf)	L	00-00-00	26-00-00	40	17											00-08-00

Controls Summary	Value	% Allowable	Duration	Case	Span
Pos. Moment	23,382 ft-lbs	34.8%	90%		1 - Internal
End Shear	3,526 lbs	18.4%	90%		1 - Left
Total Load Defl.	L/507 (0.6")	47.4%		1	1
Live Load Defl.	L/5,888 (0.052")	6.1%		1	1
Max Defl.	0.6"	60.0%		1	1
Span / Depth	19.0	n/a			1

### Disclosure

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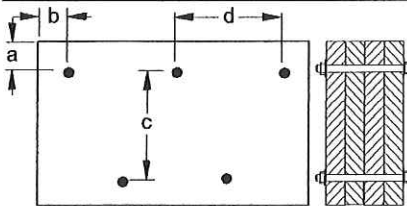
Bearing Supports	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0	Wall/Plate 5-1/2" x 7"	4,488 lbs	n/a	15.5%	Unspecified
B1	Hanger Load 4" x 7"	2,769 lbs	23.9%	13.2%	THDH7214

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets arbitrary (1") Maximum load deflection criteria.  
Header for the hanger THDH7214 at B1 is a Triple 1-3/4" x 16" VERSA-LAM® 2.0 3100 SP.  
Hanger THDH7214 requires (66) 16d face nails, (16) 16d joist nails.  
Hanger Manufacturer: USP Structural Connectors

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### Connection Diagram



a minimum = 2" c = 12"  
b minimum = 2-1/2" d = 24"

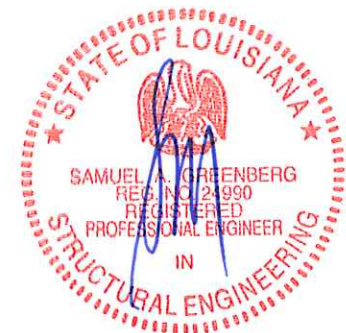
Beams 7 inches wide will be assumed to be either top-loaded only, or equally loaded from each side.

Bolts are assumed to be Grade A307 or Grade 2 or higher.

Member has no side loads.

Connectors are: 1/2 in. Staggered Through Bolt

SEP 06 2012





# Double 1-3/4" x 16" VERSA-LAM® 2.0 3100 SP

## Joist\Floor 1\D35

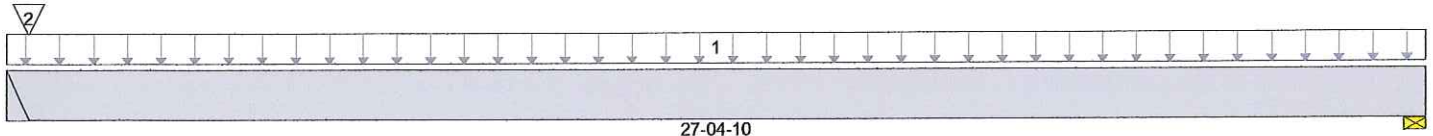
BC CALC® 3.0 Design Report - US  
Build 517

Service class 1|1 span | No cantilevers | 0/12 slope  
24 OCS | Non-Repetitive | Glued & nailed construction

Thursday, September 06, 2012

Job Name: La Quinta Inn - Lot #14 Cableas Parkway  
Address:  
City, State, Zip: Gonzales, La.  
Customer: Abita Lumber - David Melton  
Code reports: ESR-1040

File Name: 16704.BCC  
Description: Floor 1\D35  
Specifier: Ronnie Talley  
Designer:  
Company: Engineered Lumber Partners  
Misc: Dammon Eng. - #2141 (7-3-2012)



B0  
LL 3,638 lbs  
DL 1,861 lbs

B1, 4-3/8"  
LL 715 lbs  
DL 305 lbs

Total Horizontal Product Length = 27-04-10

					Live	Dead	Snow	Wind	Roof Live	OCS
Tag	Description	Load Type	Ref.	Start End	100%	90%	115%	133%	125%	
1		Unf. Area (psf)	L	00-00-00 27-04-10	40	17				15.4
2		Conc. Pt. (lbs)	L	00-05-04 00-05-04	2,949	1,569				n/a

Controls Summary	Value	% Allowable	Duration	Case	Span
Pos. Moment	6,819 ft-lbs	18.2%	100%	1	1 - Internal
End Shear	1,208 lbs	11.4%	100%	1	1 - Left
Total Load Defl.	L/865 (0.372")	27.7%		1	1
Live Load Defl.	L/1,237 (0.26")	29.1%		1	1
Span / Depth	20.1	n/a			1

### Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of BOISE engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

Bearing Supports	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0	Hanger Load 4" x 3-1/2"	5,500 lbs	49.5%	52.4%	THDH414
B1	Wall/Plate 4-3/8" x 3-1/2"	1,021 lbs	n/a	8.9%	Unspecified

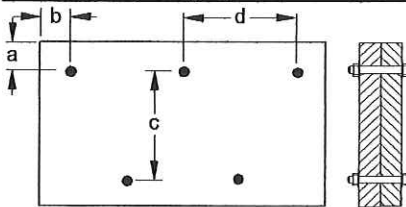
### Cautions

Hanger THDH414 requires reduced nail penetration.

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Header for the hanger THDH414 at B0 is a Triple 1-3/4" x 16" VERSA-LAM® 2.0 3100 SP.  
Hanger THDH414 requires (66) 16d face nails, (16) 16d joist nails.  
Hanger Manufacturer: USP Structural Connectors

### Connection Diagram



a minimum = 2"    c = 12"  
b minimum = 2-1/2"    d = 24"

Connection design assumes point load is 'top-loaded'. For connection design of 'side-loaded' point loads, please consult a technical representative or professional of Record. Bolts are assumed to be Grade A307 or Grade 2 or higher. Member has no side loads. Concentrated loads are not considered in side load analysis. Connectors are: 1/2 in. Staggered Through Bolt





# Single 16" BCI® 60s-2.0 SP

# Joist\Floor 2\D36

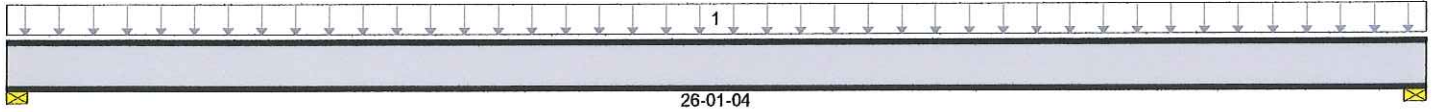
BC CALC® 3.0 Design Report - US  
Build 517

Service class 1|1 span | No cantilevers | 0/12 slope  
16 OCS | Repetitive | Member construction

Thursday, September 06, 2012

Job Name: La Quinta Inn - Lot #14 Cableas Parkway  
Address:  
City, State, Zip: Gonzales, La.  
Customer: Abita Lumber - David Melton  
Code reports: ESR-1336

File Name: 16704.BCC  
Description: Floor 2\D36  
Specifier: Ronnie Talley  
Designer:  
Company: Engineered Lumber Partners  
Misc: Dammon Eng. - #2141 (7-3-2012)



B0, 4-3/8"  
LL 701 lbs  
DL 298 lbs

B1, 2-3/8"  
LL 692 lbs  
DL 294 lbs

Total Horizontal Product Length = 26-01-04

					Live	Dead	Snow	Wind	Roof Live	OCS
Tag	Description	Load Type	Ref.	Start End	100%	90%	115%	133%	125%	
1	Standard Load	Unf. Area (psf)	L	00-00-00 26-01-04	40	17				16

Controls Summary	Value	% Allowable	Duration	Case	Span
Pos. Moment	6,269 ft-lbs	73.6%	100%	1	1 - Internal
End Reaction	986 lbs	63.3%	100%	1	1 - Right
End Shear	971 lbs	44.6%	100%	1	1 - Left
Total Load Defl.	L/343 (0.899")	70.0%		1	1
Live Load Defl.	L/489 (0.631")	73.7%		1	1
Span / Depth	19.3	n/a			1

### Disclosure

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Bearing Supports	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0	Wall/Plate 4-3/8" x 2-5/16"	998 lbs	n/a	n/a	Unspecified
B1	Wall/Plate 2-3/8" x 2-5/16"	986 lbs	n/a	n/a	Unspecified

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.

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# Quadruple 1-3/4" x 16" VERSA-LAM® 2.0 3100 SP Floor Beam\Floor 2\D37

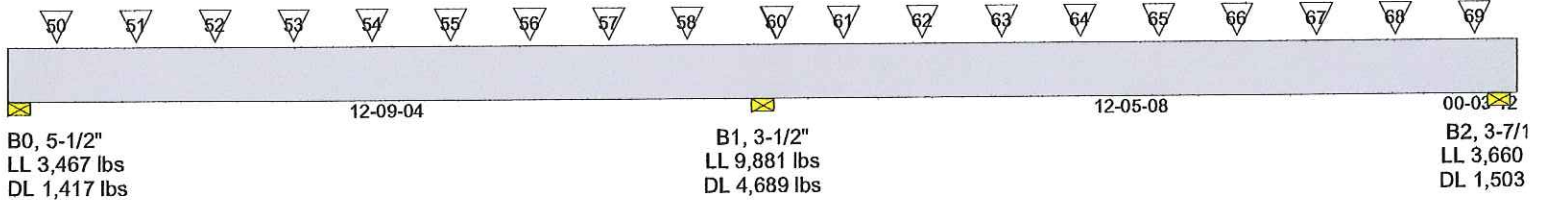
BC CALC® 3.0 Design Report - US  
Build 517

Service class 1|3 spans | Right cantilever | 0/12 slope

Thursday, September 06, 2012

Job Name: La Quinta Inn - Lot #14 Cableas Parkway  
Address:  
City, State, Zip: Gonzales, La.  
Customer: Abita Lumber - David Melton  
Code reports: ESR-1040

File Name: 16704.BCC  
Description: Floor 2\D37  
Specifier: Ronnie Talley  
Designer:  
Company: Engineered Lumber Partners  
Misc: Dammon Eng. - #2141 (7-3-2012)



Total Horizontal Product Length = 25-06-08

Tag	Description	Load Type	Ref.	Start	End	Live					Trib.
						100%	90%	115%	133%	125%	
50	Transferred Load	Conc. Pt. (lbs)	L	00-09-12	00-09-12	636	270				n/a
51	Transferred Load	Conc. Pt. (lbs)	L	02-01-12	02-01-12	865	368				n/a
52	Transferred Load	Conc. Pt. (lbs)	L	03-05-12	03-05-12	864	367				n/a
53	Transferred Load	Conc. Pt. (lbs)	L	04-09-12	04-09-12	861	366				n/a
54	Transferred Load	Conc. Pt. (lbs)	L	06-01-12	06-01-12	875	372				n/a
55	Transferred Load	Conc. Pt. (lbs)	L	07-05-12	07-05-12	876	372				n/a
56	Transferred Load	Conc. Pt. (lbs)	L	08-09-12	08-09-12	876	372				n/a
57	Transferred Load	Conc. Pt. (lbs)	L	10-01-12	10-01-12	875	372				n/a
58	Transferred Load	Conc. Pt. (lbs)	L	11-05-12	11-05-12	915	389				n/a
59	Transferred Load	Conc. Pt. (lbs)	L	12-11-14	12-11-14	179	76				n/a
60	Transferred Load	Conc. Pt. (lbs)	L	13-00-03	13-00-03	465	198				n/a
61	Transferred Load	Conc. Pt. (lbs)	L	14-01-12	14-01-12	802	341				n/a
62	Transferred Load	Conc. Pt. (lbs)	L	15-05-12	15-05-12	876	372				n/a
63	Transferred Load	Conc. Pt. (lbs)	L	16-09-12	16-09-12	875	372				n/a
64	Transferred Load	Conc. Pt. (lbs)	L	18-01-12	18-01-12	872	371				n/a
65	Transferred Load	Conc. Pt. (lbs)	L	19-05-12	19-05-12	887	377				n/a
66	Transferred Load	Conc. Pt. (lbs)	L	20-09-12	20-09-12	865	368				n/a
67	Transferred Load	Conc. Pt. (lbs)	L	22-01-12	22-01-12	865	368				n/a
68	Transferred Load	Conc. Pt. (lbs)	L	23-05-12	23-05-12	864	367				n/a
69	Transferred Load	Conc. Pt. (lbs)	L	24-09-12	24-09-12	810	344				n/a

Controls Summary	Value	% Allowable	Duration	Case	Span
Pos. Moment	12,964 ft-lbs	17.3%	100%	16	2 - Internal
Neg. Moment	-18,343 ft-lbs	24.5%	100%	1	1 - Right
End Shear	4,161 lbs	19.6%	100%	14	1 - Left
Cont. Shear	6,690 lbs	31.4%	100%	1	1 - Right
Total Load Defl.	L/2,263 (0.066")	10.6%		16	2
Live Load Defl.	2xL/1,805 (0.004")	13.3%		16	3 - Cantilever
Total Neg. Defl.	2xL/-1,370 (-0.005")	13.1%		16	3 - Cantilever
Max Defl.	0.066"	6.6%		16	2
Span / Depth	9.3	n/a			1

### Disclosure

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Bearing Supports	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0	Wall/Plate 5-1/2" x 7"	4,883 lbs	n/a	16.9%	Unspecified
B1	Wall/Plate 3-1/2" x 7"	14,570 lbs	n/a	79.3%	Unspecified
B2	Wall/Plate 3-7/16" x 7"	5,163 lbs	n/a	28.6%	Unspecified

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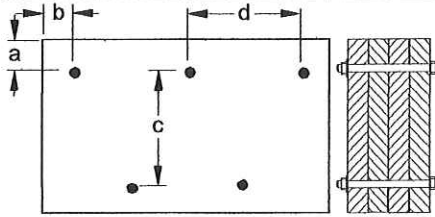
### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (2xL/240) Live load deflection criteria.  
Design meets arbitrary (1") Maximum load deflection criteria.

Job Name: La Quinta Inn - Lot #14 Cableas Parkway  
Address:  
City, State, Zip: Gonzales, La.  
Customer: Abita Lumber - David Melton  
Code reports: ESR-1040

File Name: 16704.BCC  
Description: Floor 2\D37  
Specifier: Ronnie Talley  
Designer:  
Company: Engineered Lumber Partners  
Misc: Dammon Eng. - #2141 (7-3-2012)

**Connection Diagram**



a minimum = 2"    c = 12"  
b minimum = 2-1/2" d = 24"

Connection design assumes point load is 'top-loaded'. For connection design of 'side-loaded' point loads, please consult a technical representative or professional of Record. Beams 7 inches wide will be assumed to be either top-loaded only, or equally loaded from each side.  
Bolts are assumed to be Grade A307 or Grade 2 or higher.  
Member has no side loads.  
Concentrated loads are not considered in side load analysis.  
Connectors are: 1/2 in. Staggered Through Bolt

**Disclosure**

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of BOISE engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

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